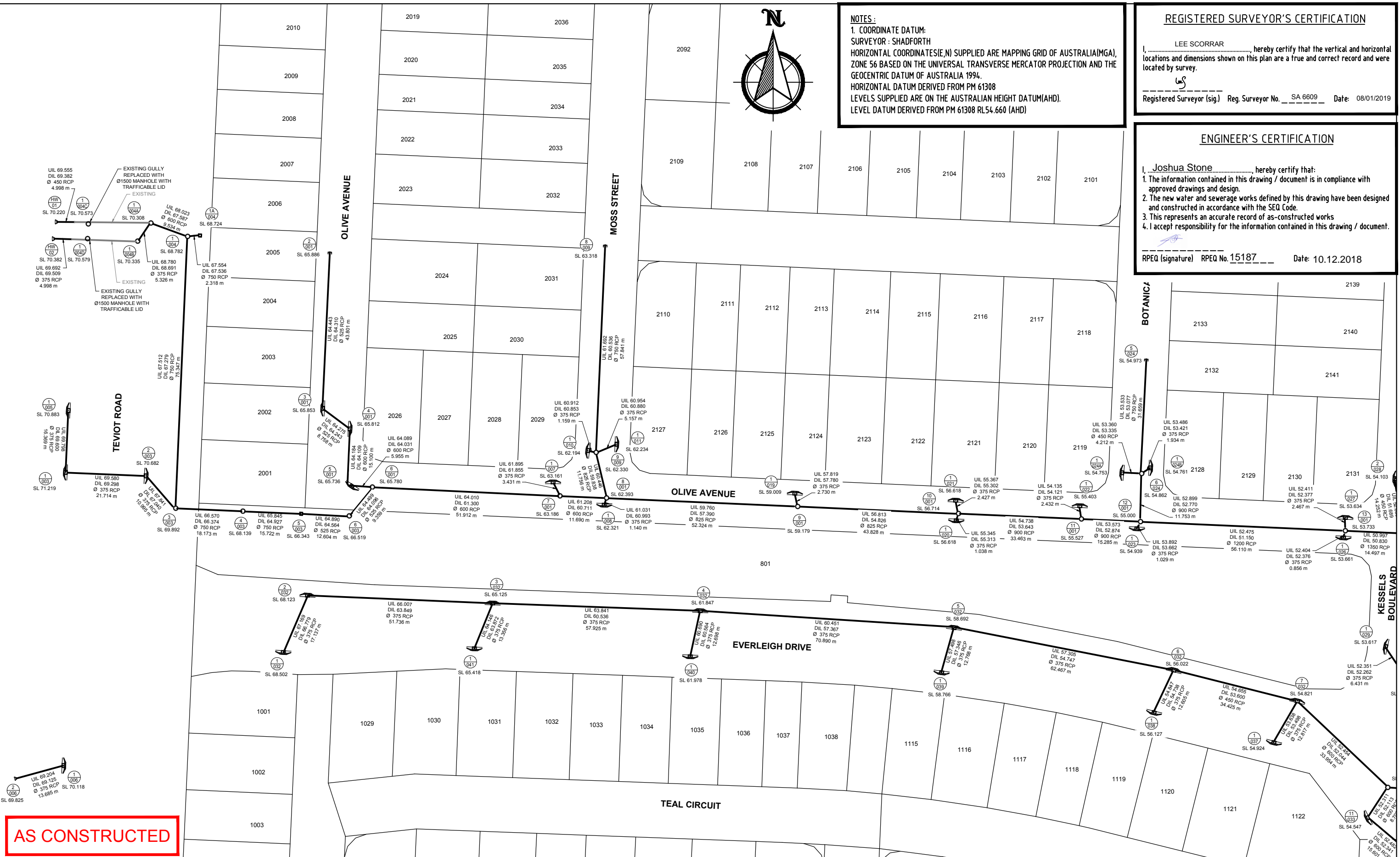




NOTES:
 1. COORDINATE DATUM:
 SURVEYOR : SHADFORTH
 HORIZONTAL COORDINATES (E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA (MGA),
 ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE
 GEOCENTRIC DATUM OF AUSTRALIA 1994.
 HORIZONTAL DATUM DERIVED FROM PM 61308
 LEVELS SUPPLIED ARE ON THE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

REGISTERED SURVEYOR'S CERTIFICATION
 I, LEE SCORRAR, 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.) LS Reg. Surveyor No. SA 6609 Date: 08/01/2019

ENGINEER'S CERTIFICATION
 I, Joshua Stone, hereby certify that:
 1. The information contained in this drawing / document is in compliance with approved drawings and design.
 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) LS RPEQ No. 15187 Date: 10.12.2018



ISSUE	DATE	AUTHOR	COMMENTS

shadforth
 99 Sandalwood Lane, Forest Glen QLD 4556
 P: 07 5438 3300 ▶ F: 07 5438 3388 ▶ E: admin@shadforth.com.au

DRAWING TITLE
 AS CONSTRUCTED STORMWATER

CLIENT
 MIRVAC

PROJECT
 EVERLEIGH PRECINCT 1.1
 SUBDIVISION INFRASTRUCTURE WORKS

ASSOCIATE CONSULTANT
 PREMISE

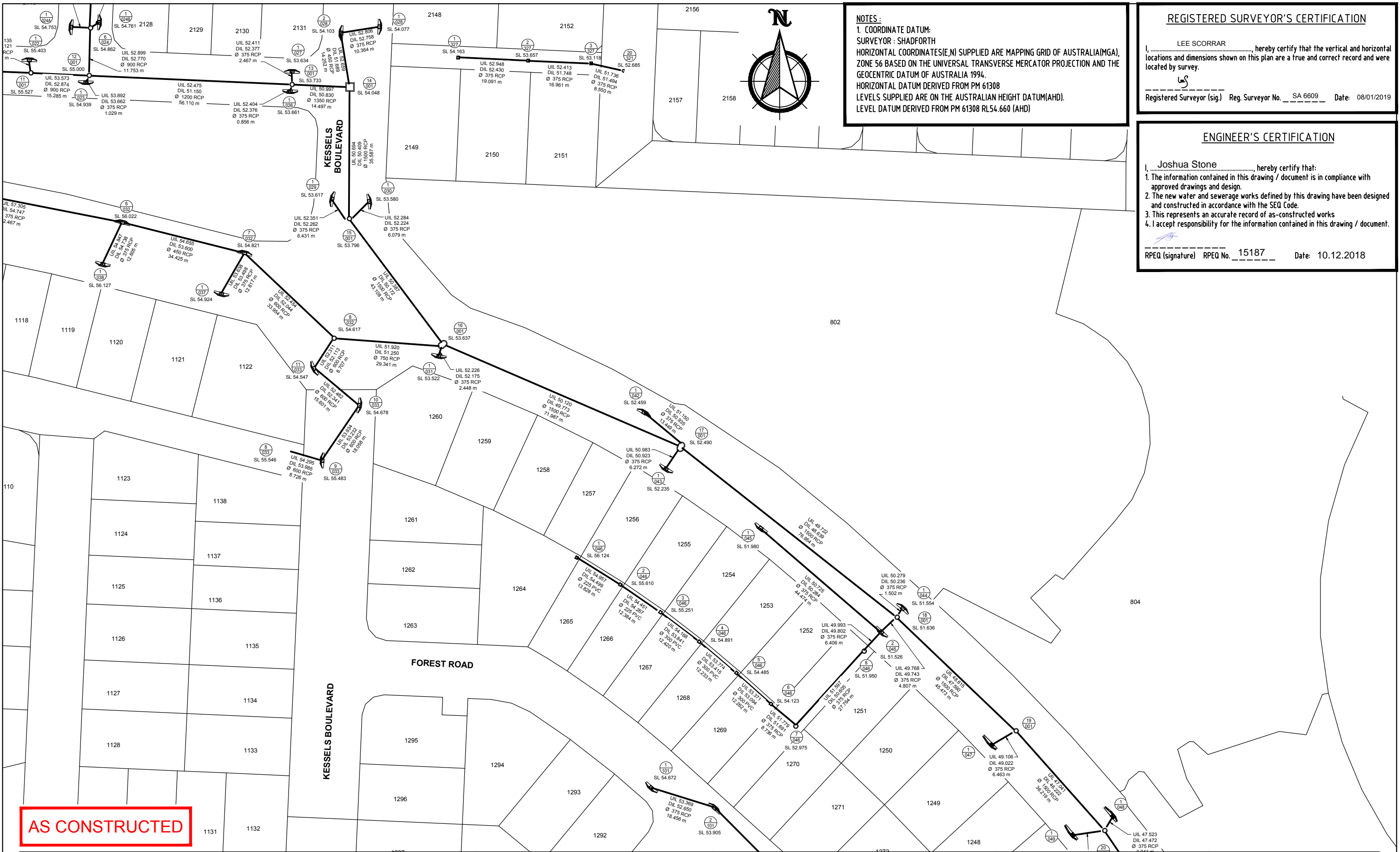
LOCAL GOVERNMENT
 LCC

SCALE
 0 10 20 30 40 50m
 SCALE 1:1000 A3

DATUM	MGA94 Zone 56
LEVEL ORIGIN	PM61308 RL 54.660
CONTOUR INTERVAL	N/A
DRAWN	DAM DATE 08/01/2019
CHECKED	LS DATE 08/01/2019
SHEET N°	1 OF 3
PLAN NUMBER	ASC-STORM-01-1183
REVISION	-

JOINS DRAWING ASC-STORM-02-1183

JOINS DRAWING ASC-STORM-01-1183



NOTES:
 1. COORDINATE DATUM:
 SURVEYOR : SHADFORTH
 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 PM 61308
 LEVELS SUPPLIED ARE ON THE AUSTRALIAN HEIGHT DATUM(AHD).
 LEVEL DATUM DERIVED FROM PM 61308 RL54.660 (AHD)

REGISTERED SURVEYOR'S CERTIFICATION
 I, LEE SCORRAR, 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.) [Signature] Reg. Surveyor No. SA 6609 Date: 08/01/2019

ENGINEER'S CERTIFICATION
 I, Joshua Stone, hereby certify that:
 1. The information contained in this drawing / document is in compliance with approved drawings and design.
 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) [Signature] RPEQ No. 15187 Date: 10.12.2018

AS CONSTRUCTED

ISSUE	DATE	AUTHOR	COMMENTS



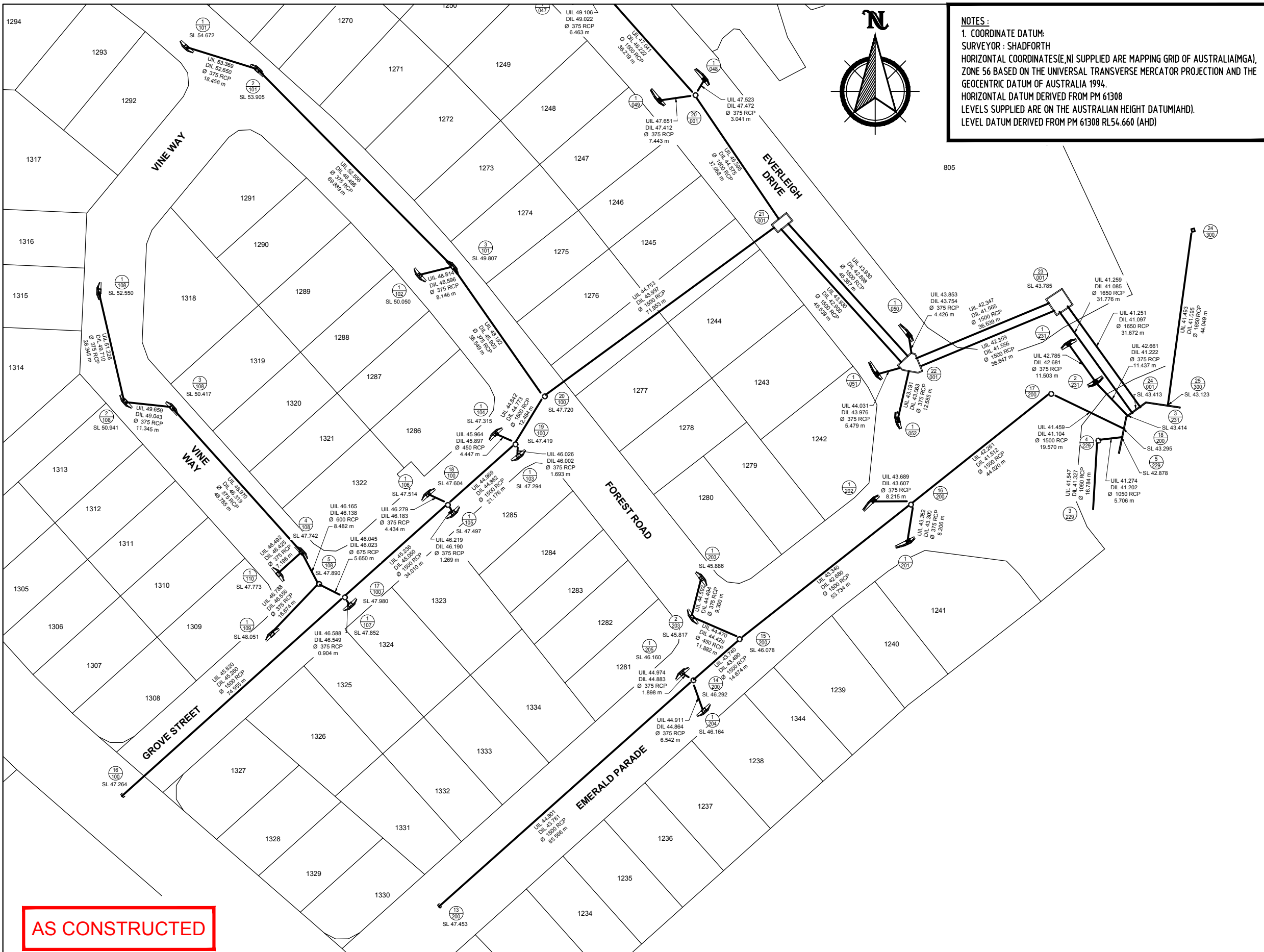
99 Sandalwood Lane, Forest Glen QLD 4556
 P: 07 5438 3300 ▶ F: 07 5438 3388 ▶ E: admin@shadcivil.com.au

DRAWING TITLE
AS CONSTRUCTED STORMWATER
 CLIENT
MIRVAC
 PROJECT
**EVERLEIGH PRECINCT 1.1
 SUBDIVISION INFRASTRUCTURE WORKS**

ASSOCIATE CONSULTANT
PREMISE
 LOCAL GOVERNMENT
LCC
 SCALE

 SCALE 1:1000 A3

DATUM	MGA94 Zone 56
LEVEL ORIGIN	PM61308 RL 54.660
CONTOUR INTERVAL	N/A
DRAWN	DAM DATE 08/01/2019
CHECKED	LS DATE 08/01/2019
SHEET N°	2 OF 3
PLAN NUMBER	ASC-STORM-02-1183
REVISION	-



NOTES:
 1. COORDINATE DATUM:
 SURVEYOR : SHADFORTH
 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 PM 61308
 LEVELS SUPPLIED ARE ON THE AUSTRALIAN HEIGHT DATUM(AHD).
 LEVEL DATUM DERIVED FROM PM 61308 RL54.660 (AHD)

REGISTERED SURVEYOR'S CERTIFICATION
 I, LEE SCORRAR, 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.) LS Reg. Surveyor No. SA 6609 Date: 08/01/2019

ENGINEER'S CERTIFICATION
 I, Joshua Stone, hereby certify that:
 1. The information contained in this drawing / document is in compliance with approved drawings and design.
 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) LS RPEQ No. 15187 Date: 10.12.2018

AS CONSTRUCTED

ISSUE	DATE	AUTHOR	COMMENTS

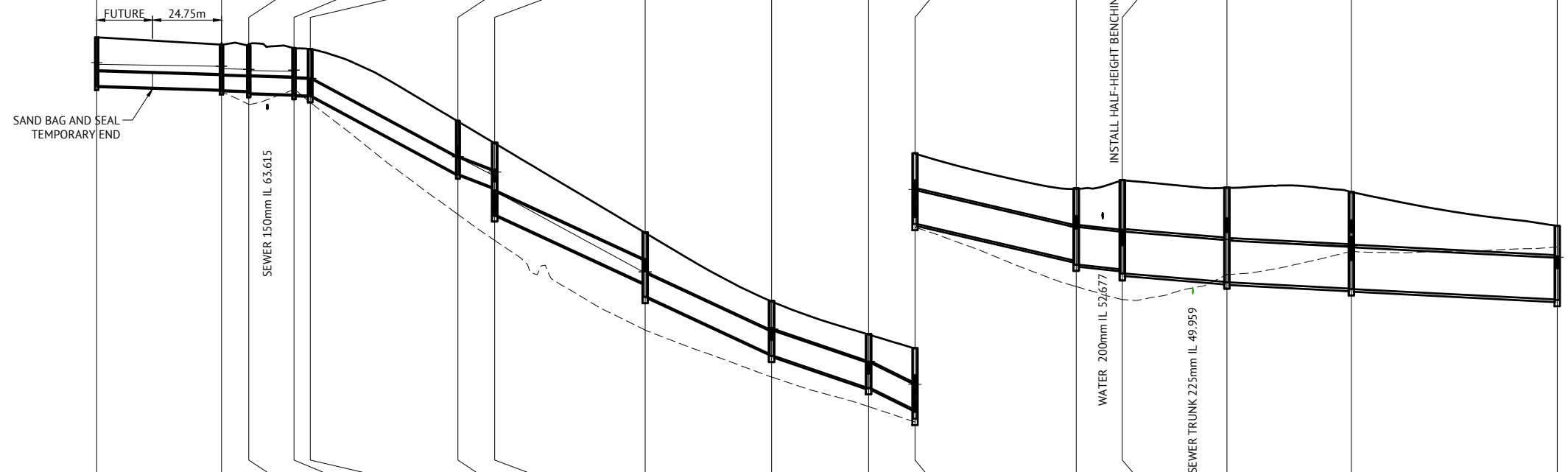
99 Sandalwood Lane, Forest Glen QLD 4556
 P: 07 5438 3300 > F: 07 5438 3388 > E: admin@shadforth.com.au

DRAWING TITLE	AS CONSTRUCTED STORMWATER
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION INFRASTRUCTURE WORKS

ASSOCIATE CONSULTANT	PREMISE
LOCAL GOVERNMENT	LCC
SCALE	0 10 20 30 40 50m SCALE 1:1000 A3

DATUM	MGA94 Zone 56
LEVEL ORIGIN	PM61308 RL 54.660
CONTOUR INTERVAL	N/A
DRAWN	DAM DATE 08/01/2019
CHECKED	LS DATE 08/01/2019
SHEET N°	3 OF 3
PLAN NUMBER	ASC-STORM-03-1183
REVISION	-

STRUCTURE NAME	2/001	3/001	4/001	5/001	6/001	7/001	8/001	9/001	10/001	11/001	12/001	13/001	14/001	15/001	16/001	17/001													
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 KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 600mm	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm													
PIPE SIZE (mm)		525	525	600	600	600	600	825	825	900	900	1200	1350	1500	1500	1500													
PIPE CLASS																													
PIPE GRADE (%)		0.30%	0.37%	0.50%	0.97%	5.22%	4.25%	4.53%	4.534%	3.27%	4.57%	2.36%	1.15%	0.80%	0.50%	0.48%													
PIPE SLOPE (1 in X)		0.30%	0.30%	0.31%	0.26%	5.27%	3.50%	4.50%	4.50%	3.25%	4.50%	2.26%	1.00%	0.80%	0.50%	0.50%													
FULL PIPE VELOCITY (m/s)		329.37	273.68	321.18	382.72	18.98	28.57	22.22	22.22	30.72	22.22	44.17	100.00	125.00	200.00	200.00													
PART FULL VELOCITY (m/s)		1.19	1.24	1.31	1.43	4.56	4.00	5.56	5.59	5.04	5.71	4.65	3.45	3.21	2.72	2.97													
PIPE FLOW (Cumecs)		0.177	0.221	0.252	0.403	0.498	0.542	1.383	1.412	1.514	1.546	1.937	1.980	2.096	2.133	3.045													
W.S.E. IN STRUCTURE	65.282	65.147	65.035	65.008	64.711	61.899	61.346	57.762	55.705	54.552	53.720	52.380	52.299	51.929	51.699	51.289													
HYDRAULIC GRADE LEVEL	65.219	65.143	65.034	64.966	64.711	61.899	61.237	57.762	55.705	54.552	53.720	52.380	52.287	51.929	51.699	51.289													
DEPTH TO INVERT	1.747	64.443	64.310	64.243	64.109	61.300	60.711	57.390	54.826	53.643	52.874	51.150	50.997	50.830	50.409	49.773													
INVERT LEVEL OF DRAIN	64.438	64.304	64.284	64.255	64.131	64.031	63.995	63.663	63.640	63.590	62.839	61.470	61.020	60.854	60.404	59.770													
DESIGN SURFACE LEVEL	66.185	65.853	65.895	65.812	65.736	65.186	62.393	59.179	56.714	55.527	55.000	53.733	54.048	53.796	53.637	52.490													
SETOUT COORDINATES	E8550.707 N31820.908	E8546.727 N31776.119	E8556.413 N31770.316	E8558.866 N31754.587	E8562.717 N31753.869	E8615.720 N31751.382	E8628.904 N31750.799	E8682.909 N31748.411	E8728.319 N31746.403	E8765.093 N31744.866	E8779.757 N31744.129	E8837.641 N31741.569	E8854.184 N31740.838	E8854.024 N31703.262	E8880.741 N31667.427	E8948.673 N31638.154													
CHAINAGE	0.000	44.832	44.832	9.790	15.738	6.889	76.707	53.061	129.768	13.196	142.965	54.058	197.023	45.454	242.477	34.808	277.285	16.680	293.965	57.941	351.905	16.559	368.465	37.576	406.041	44.699	450.739	73.971	524.710



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: 29/11/18

AS-CONSTRUCTED

DATE	REV	DESCRIPTION
29/11/18	D	AS CONSTRUCTED
22/06/18	C	AMENDED DETAILS
12/01/18	B	AMENDED DRAINAGE LINES
12/03/18	A	ORIGINAL ISSUE

REVISIONS
KH
KH
KH
RPEQ

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

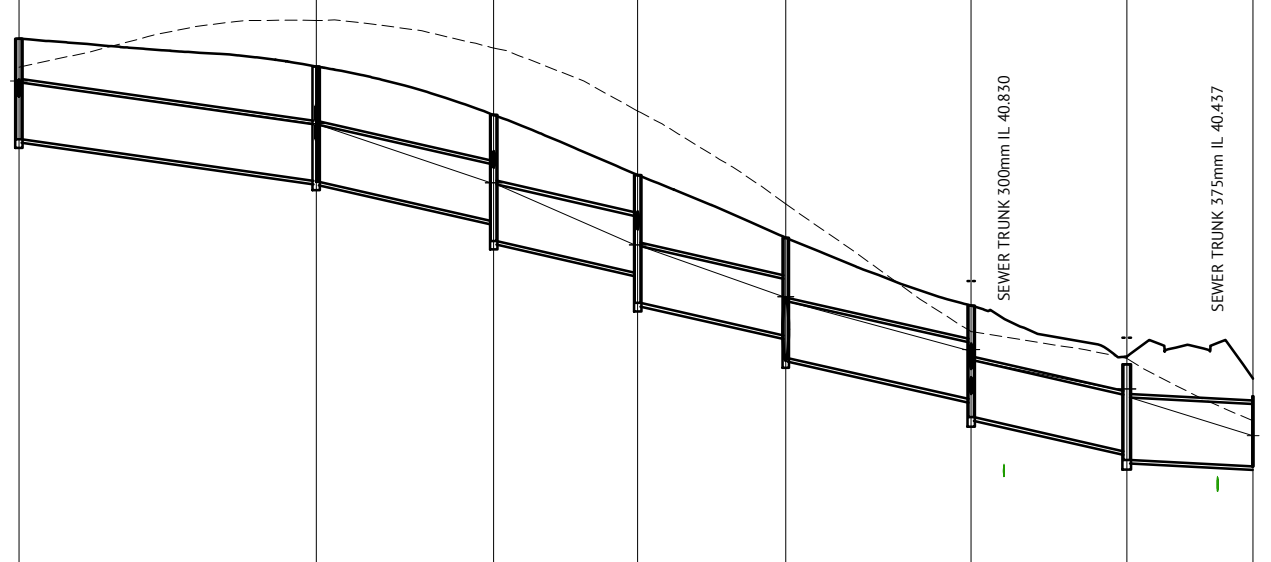
DESIGNED	MM
CHECKED	JS
PROJECT MANAGER	JS
PROJECT DIRECTOR	DATE
JOSHUA STONE	22/06/18

RPEQ
 DATE
 22/06/18
 SCALE
 0 10 20 30m
 SCALE 1:500 (A1)

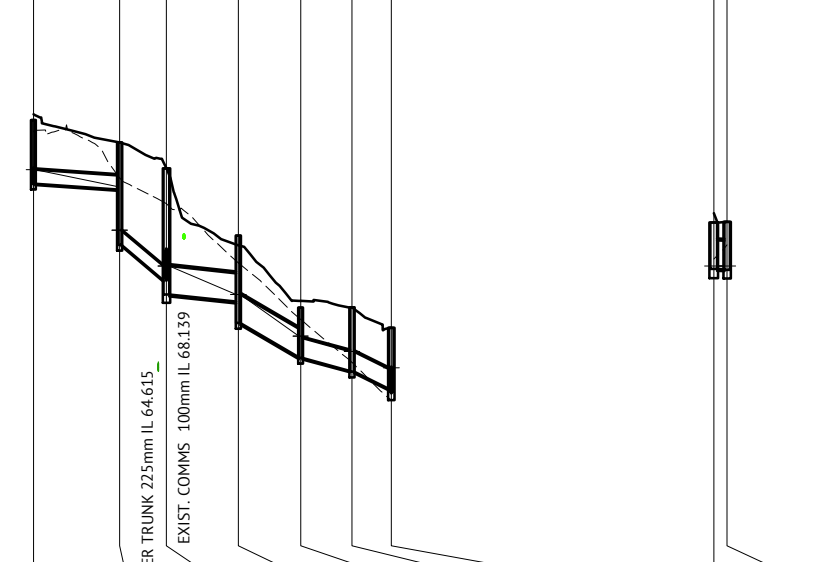
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 14

JOB CODE	MIR001-01
SHEET NUMBER	C403
REV	1

STRUCTURE NAME	17/001	18/001	19/001	20/001	21/001	22/001	23/001	24/001
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	HEADWALL
PIPE SIZE (mm)	1500	1500	1500	1500	(2x)1500	(2x)1500	(2x)1650	
PIPE CLASS	1.41%	2.25%	2.26%	2.21%	2.27%	2.19%	0.55%	
PIPE GRADE (%)	1.40%	2.20%	2.20%	2.20%	2.20%	2.19%	0.50%	
PIPE SLOPE (1 in X)	71.45	45.45	45.45	45.45	45.45	45.74	200.00	
FULL PIPE VELOCITY (m/s)	71.04	44.36	44.22	45.19	43.97	45.64	182.62	
PART FULL VELOCITY (m/s)	4.37	5.21	5.22	5.24	5.19	5.20	3.00	
DATUM RL 33.0								
PIPE FLOW (Cumecs)	3.073	3.207	3.232	3.263	6.327	6.416	6.320	
W.S.E. IN STRUCTURE	51.289	50.168	48.598	46.962	45.590	44.193	43.145	41.916
HYDRAULIC GRADE LEVEL	51.289 51.250	50.168 50.130	48.598 48.561	46.962 46.923	45.590 45.461	44.167 43.900	43.099 42.917	41.916 41.916
DEPTH TO INVERT	49.773 49.772	48.639 48.615	47.590 47.041	46.222 45.395	44.575 43.930	42.888 42.359	41.556 41.259	41.085 41.085
INVERT LEVEL OF DRAIN	49.770 49.750	48.650 48.630	47.596 47.061	46.223 45.423	44.564 43.961	42.882 42.400	41.500 41.267	41.100 41.100
DESIGN SURFACE LEVEL	52.490 52.414	51.636 51.678	50.395	48.806	47.147	45.353	43.785 43.800	43.413 43.150
SETOUT COORDINATES	E8948.673 N31638.154	E9010.410 N31589.426	E9044.367 N31556.977	E9069.682 N31528.525	E9091.707 N31496.152	E9124.531 N31459.711	E9162.544 N31475.509	E9187.097 N31448.408
CHAINAGE	524.710	78.650	603.361	46.968	650.329	38.083	688.412	39.192



STRUCTURE NAME	1/003	2/003	3/003	4/003	5/003	6/003	6/001	1A/004	1/004
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 1500mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA FIELD INLET - 900x600 TYPE 7 DOMED GRATE	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA MANHOLE 1500mm DIA
PIPE SIZE (mm)	375	375	750	750	525	525	750	750	
PIPE CLASS	1.30%	7.29%	1.08%	5.84%	2.59%	4.31%	0.78%	0.30%	
PIPE GRADE (%)	0.67%	7.56%	1.00%	5.50%	2.50%	4.38%	0.30%	0.30%	
PIPE SLOPE (1 in X)	149.23	13.23	100.00	18.18	39.99	22.85	533.37	533.37	
FULL PIPE VELOCITY (m/s)	77.000	13.73	92.72	17.13	38.66	23.22	128.78	128.78	
PART FULL VELOCITY (m/s)	0.81	2.47	1.00	1.77	2.24	2.72	0.00	0.00	
DATUM RL 33.0									
PIPE FLOW (Cumecs)	54.0	0.013	0.032	0.022	0.021	0.098	0.097	0.000	
W.S.E. IN STRUCTURE	69.951	68.348	67.397	66.643	65.543	65.142	64.711	67.608	67.597
HYDRAULIC GRADE LEVEL	69.949	68.333	67.397	66.643	65.543	65.130	64.711	67.608	67.597
DEPTH TO INVERT	69.580	69.298	67.841	66.570	64.927	64.890	64.096	67.554	67.536
INVERT LEVEL OF DRAIN	69.574	69.421	67.958	66.647	64.986	64.966	64.150	67.526	67.515
DESIGN SURFACE LEVEL	71.219 71.269	70.682 70.670	69.892 69.859	68.139 68.200	66.343 66.300	66.519 66.580	65.780 65.762	68.724 68.550	68.782 68.570
SETOUT COORDINATES	E8476.029 N31758.055	E8498.807 N31757.053	E8507.158 N31747.970	E8526.139 N31747.081	E8542.623 N31746.352	E8556.224 N31745.751	E8562.717 N31753.869	E8514.067 N31824.936	E8510.552 N31824.677
CHAINAGE	0.000	22.800	12.375	19.000	54.175	16.500	13.614	84.289	10.395



DATE	REV	DESCRIPTION	REVISIONS
29/11/18	F	AS CONSTRUCTED	
05/07/18	E	AMENDED 1A/004 INVERT LEVEL	
23/04/18	D	AMENDED LEVELS	
13/04/18	C	5/003 GRATE CHANGE TO DOME TYPE, 3/003 & 6/003 FSL AMENDED	
12/01/18	B	AMENDED DRAINAGE LINES	
12/01/18	A	ORIGINAL ISSUE	

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

DESIGNED	MM
CHECKED	JS
PROJECT MANAGER	JS
PROJECT DIRECTOR	DATE
	05/07/18

RPEQ

 05/07/18
 N31758.055
 RP/EQ 2295

SCALE

 SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 14

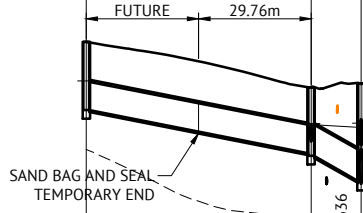
JOB CODE	MIR001-01
SHEET NUMBER	C404
REV	EF

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: 29/11/18

AS-CONSTRUCTED

STRUCTURE NAME	STRUCTURE DESCRIPTION	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE SLOPE (1 in X)	FULL PIPE VELOCITY (m/s)	PART FULL VELOCITY (m/s)	PIPE FLOW (Cumecs)	W.S.E. IN STRUCTURE	HYDRAULIC GRADE LEVEL	DEPTH TO INVERT	INVERT LEVEL OF DRAIN	DESIGN SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
1/004	IPWEA MANHOLE 1500mm DIA	750	0.31%	-0.30%	323.38	0.00		0.000	67.597	67.597	67.597	67.597	68.782	E8510.552	3.524
3/003	IPWEA MANHOLE 1500mm DIA								67.597	67.597	67.597	67.597	69.892	E8507.158	80.356
1/005	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	1.21%	-1.00%	82.67	0.78		0.007	70.145	70.144	69.798	69.769	70.920	E8476.834	0.000
1/003	IPWEA KERB INLET L.I.L.; 2.4m Lintel								69.951	69.951	69.600	69.594	71.219	E8476.029	17.486
1/006	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	0.58%	-0.50%	173.23	0.75		0.015	69.601	69.595	69.204	69.220	70.118	E8475.539	0.000
2/006	HEADWALL SUIT 375mm DIA PIPE								69.520	69.520	69.125	69.150	69.825	E8462.106	13.909
1/007	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	1.17%	-1.00%	85.75	1.38		0.051	62.403	62.297	61.895	61.922	63.161	E8613.805	0.000
7/001	IPWEA MANHOLE 1050mm DIA								61.899	62.017	61.855	61.878	63.186	E8615.720	4.433
1/008	IPWEA KERB INLET L.I.L.; 4.8m Lintel	375	3.33%	-1.00%	29.99	1.65		0.103	61.771	61.436	61.031	61.061	62.321	E8628.245	0.000
8/001	IPWEA MANHOLE 1500mm DIA								61.346	61.246	60.993	61.039	62.383	E8628.904	2.137
8/009	IPWEA MANHOLE 1500mm DIA; EXT 600mm	750	2.00%	-1.91%	50.03	3.35		0.663	62.468	62.443	61.692	61.693	63.318	E8628.599	0.000
9/009	IPWEA MANHOLE 1500mm DIA	825	5.17%	-5.03%	19.33	4.89		0.742	61.331	61.331	60.446	60.446	62.330	E8625.970	59.511
8/001	IPWEA MANHOLE 1500mm DIA								61.346	61.237	59.838	59.816	62.393	E8628.904	13.211
1/010	IPWEA KERB INLET (SAG) L.I.L.; 2.4m Lintel	375	5.09%	-1.00%	19.63	1.55		0.080	61.566	61.336	60.912	60.921	62.194	E8623.616	0.000
9/009	IPWEA MANHOLE 1500mm DIA								61.331	61.331	60.853	60.897	62.234	E8625.970	2.424
1/011	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	1.44%	-1.00%	69.70	0.88		0.011	61.346	61.341	60.954	60.966	62.282	E8631.795	0.000
9/009	IPWEA MANHOLE 1500mm DIA								61.331	61.331	60.880	60.993	62.330	E8625.970	6.302
1/019	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	1.43%	-1.00%	70.00	1.31		0.042	58.309	58.237	57.819	57.862	59.099	E8682.121	0.000
9/001	IPWEA MANHOLE 1500mm DIA								57.762	57.948	57.780	57.823	59.179	E8682.909	3.853

EXIST. COMMS 100mm IL 66.814



DATUM RL 54.0



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: 29/11/18

AS-CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
29/11/18	D	AS CONSTRUCTED	
22/06/18	C	AMENDED LEVELS	
12/01/18	B	AMENDED DRAINAGE LINES	
12/03/18	A	ORIGINAL ISSUE	

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: MM
 CHECKED: JS
 PROJECT MANAGER: JS
 PROJECT DIRECTOR: JOSHUA STONE
 DATE: 22/06/18

RPEQ: *R. Howells*
 DATE: 22/06/18
 SCALE: 1:500 (A1)

CLIENT: MIRVAC
 PROJECT: EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
 LOCATION: TEVIOT ROAD, GREENBANK
 SHEET TITLE: STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 14

JOB CODE: MIR001-01
 SHEET NUMBER: C405
 REV: 3

STRUCTURE NAME	STRUCTURE DESCRIPTION	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE SLOPE (1 in X)	FULL PIPE VELOCITY (m/s)	PART FULL VELOCITY (m/s)	PIPE FLOW (Cumecs)	W.S.E. IN STRUCTURE	HYDRAULIC GRADE LEVEL	DEPTH TO INVERT	INVERT LEVEL OF DRAIN	DESIGN SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
1/020	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	3.08%	-1.00%	100.00	1.52	DATUM RL 41.0	0.073	55.950	55.741	55.345	55.366	56.618 56.692	E8727.722 N31744.390	0.000
10/001	IPWEA MANHOLE 1500mm DIA								55.705	55.705	55.313	55.344	56.714 56.747	E8728.319 N31746.403	2.118
1/021	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	2.68%	-1.00%	100.00	1.29	41.0	0.041	55.821	55.754	55.367	55.379	56.618 56.695	E8727.577 N31750.157	0.000
10/001	IPWEA MANHOLE 1500mm DIA								55.705	55.705	55.302	55.341	56.714 56.747	E8728.319 N31746.403	3.840
1/022	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	1.00%	-1.00%	100.00	1.31	40.0	0.043	54.629	54.554	54.135	54.171	55.403 55.486	E8762.643 N31748.607	0.000
11/001	IPWEA MANHOLE 1500mm DIA								54.552	54.552	54.121	54.133	55.527 55.590	E8763.093 N31744.866	3.775
1/023	IPWEA KERB INLET L.I.L.; 4.8m Lintel	375	4.48%	-1.00%	100.00	1.37	40.0	0.050	54.156	54.054	53.892	53.679	54.939 54.995	E8778.754 N31742.134	0.000
12/001	IPWEA MANHOLE 1500mm DIA; EXT 600mm								53.720	53.793	53.662	53.656	55.000 55.075	E8779.757 N31744.129	2.282
5/024	IPWEA MANHOLE 1050mm DIA	750	1.44%	-1.44%	69.57	2.51	40.0	0.334	54.309	54.302	1.787	53.552	54.973 55.358	E8781.595 N31791.364	0.000
6/024	IPWEA MANHOLE 1500mm DIA	900	1.10%	-1.00%	100.00	2.22		0.361	53.821	53.821	53.817	53.817	54.862 54.899	E8780.107 N31757.703	33.694
12/001	IPWEA MANHOLE 1500mm DIA; EXT 600mm								53.720	53.720	52.770	52.782	55.000 55.035	E8779.757 N31744.129	47.272
1/024A	IPWEA KERB INLET (SAG) L.I.L.; 2.4m Lintel	450	0.59%	-0.30%	333.33	0.59	39.0	0.012	53.837	53.834	53.360	53.384	54.753 54.790	E8774.531 N31757.949	0.000
6/024	IPWEA MANHOLE 1500mm DIA								53.821	53.821	53.335	53.367	54.862 54.899	E8780.107 N31757.703	5.581
1/024B	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	3.36%	-1.50%	66.88	1.16	39.0	0.017	53.876	53.864	53.486	53.489	54.761 54.804	E8782.648 N31759.311	0.000
6/024	IPWEA MANHOLE 1500mm DIA								53.821	53.821	53.421	53.442	54.862 54.899	E8780.107 N31757.703	3.097
1/026	IPWEA KERB INLET (SAG) L.I.L.; 2.4m Lintel	375	3.27%	-1.00%	100.00	1.38	38.0	0.051	52.869	52.762	52.404	52.387	53.641 53.684	E8837.110 N31759.553	0.000
13/001	IPWEA MANHOLE 1500mm DIA; EXT 600mm								52.380	52.505	52.376	52.366	53.733 53.765	E8837.641 N31741.569	2.098
1/027	IPWEA KERB INLET (SAG) L.I.L.; 2.4m Lintel	375	1.38%	-1.00%	100.00	0.78	38.0	0.007	52.762	52.760	52.411	52.385	53.634 53.700	E8837.664 N31745.289	0.000
13/001	IPWEA MANHOLE 1500mm DIA; EXT 600mm								52.380	52.400	52.377	52.348	53.733 53.765	E8837.641 N31741.569	3.721
1/028	IPWEA KERB INLET L.I.L.; 2.4m Lintel	375	0.46%	-0.40%	250.00	1.03	38.0	0.061	53.411	53.267	52.806	52.828	54.077 54.144	E8862.670 N31758.044	0.000
2/028	IPWEA KERB INLET L.I.L.; 2.4m Lintel	450	6.81%	-6.10%	16.39	3.39		0.132	52.299	52.287	51.689	51.754	54.103 54.157	E8851.645 N31756.269	11.175
14/001	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING								52.299	52.287	51.689	51.754	54.046 54.054	E8854.184 N31746.403	15.638

PIPE SIZE (mm)	375
PIPE CLASS	3.08%
PIPE GRADE (%)	-1.00%
PIPE SLOPE (1 in X)	100.00
FULL PIPE VELOCITY (m/s)	32.42
PART FULL VELOCITY (m/s)	1.52
DATUM RL	41.0
PIPE FLOW (Cumecs)	0.073
W.S.E. IN STRUCTURE	55.950
HYDRAULIC GRADE LEVEL	55.741
DEPTH TO INVERT	55.345
INVERT LEVEL OF DRAIN	55.366
DESIGN SURFACE LEVEL	56.618
SETOUT COORDINATES	E8727.722 N31744.390
CHAINAGE	0.000

29/11/18	C	AS CONSTRUCTED	
12/01/18	B	AMENDED DRAINAGE LINES	
12/01/18	A	ORIGINAL ISSUE	
DATE	REV	DESCRIPTION	REVISIONS

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	MM	DATE	12/01/18
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR		DATE	12/01/18

RPEQ
 H. Howells
 12/01/18
 N31757.949
 RPEQ 7295
 SCALE
 0 10 20 30m
 SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4 OF 14

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 (slg.) Reg. Surveyor No. SA 3405 Date: 29/11/18

AS-CONSTRUCTED

JOB CODE	MIR001-01
SHEET NUMBER	C406
REV	B

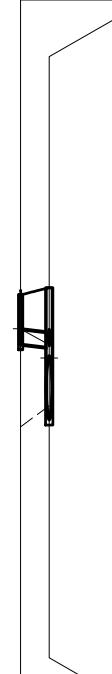
STRUCTURE NAME	1/029
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.: 2.4m Lintel
	IPWEA MANHOLE 1500mm DIA; EXT 900mm



PIPE SIZE (mm)	375
PIPE CLASS	1.38%
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.00
FULL PIPE VELOCITY (m/s)	72.25
PART FULL VELOCITY (m/s)	1.12
DATUM RL	38.0

PIPE FLOW (Cumecs)	0.025
W.S.E. IN STRUCTURE	52.758
HYDRAULIC GRADE LEVEL	52.753
DEPTH TO INVERT	52.753
INVERT LEVEL OF DRAIN	52.358
DESIGN SURFACE LEVEL	53.617
SETOUT COORDINATES	E8849.063 N31708.854
CHAINAGE	0.000

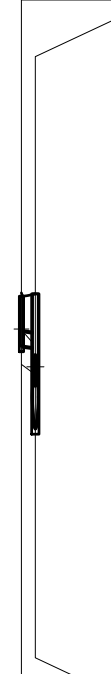
STRUCTURE NAME	1/030
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.: 2.4m Lintel
	IPWEA MANHOLE 1500mm DIA; EXT 900mm



PIPE SIZE (mm)	375
PIPE CLASS	0.99%
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	99.99
FULL PIPE VELOCITY (m/s)	101.31
PART FULL VELOCITY (m/s)	1.17
DATUM RL	38.0

PIPE FLOW (Cumecs)	0.029
W.S.E. IN STRUCTURE	52.705
HYDRAULIC GRADE LEVEL	52.671
DEPTH TO INVERT	52.671
INVERT LEVEL OF DRAIN	52.296
DESIGN SURFACE LEVEL	53.580
SETOUT COORDINATES	E8859.730 N31708.147
CHAINAGE	0.000

STRUCTURE NAME	1/031
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.: 2.4m Lintel
	IPWEA MANHOLE 1500mm DIA; EXT 900mm



PIPE SIZE (mm)	375
PIPE CLASS	2.08%
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	99.99
FULL PIPE VELOCITY (m/s)	48.01
PART FULL VELOCITY (m/s)	1.31
DATUM RL	38.0

PIPE FLOW (Cumecs)	0.043
W.S.E. IN STRUCTURE	52.695
HYDRAULIC GRADE LEVEL	52.621
DEPTH TO INVERT	52.621
INVERT LEVEL OF DRAIN	52.246
DESIGN SURFACE LEVEL	53.532
SETOUT COORDINATES	E8879.522 N31663.948
CHAINAGE	0.000

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: 29/11/18

AS-CONSTRUCTED

29/11/18	C	AS CONSTRUCTED	
12/01/18	B	AMENDED DRAINAGE LINES	
12/01/18	A	ORIGINAL ISSUE	
DATE	REV	DESCRIPTION	REVISIONS

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	MM
CHECKED	JS
PROJECT MANAGER	JS
PROJECT DIRECTOR	DATE
<i>Joshua Stone</i>	12/01/18

RPEQ
A. Howells
 12/01/18
 N31708.147
 RPEQ 7295
 SCALE
 0 10 20 30m
 SCALE 1:500 (A1)

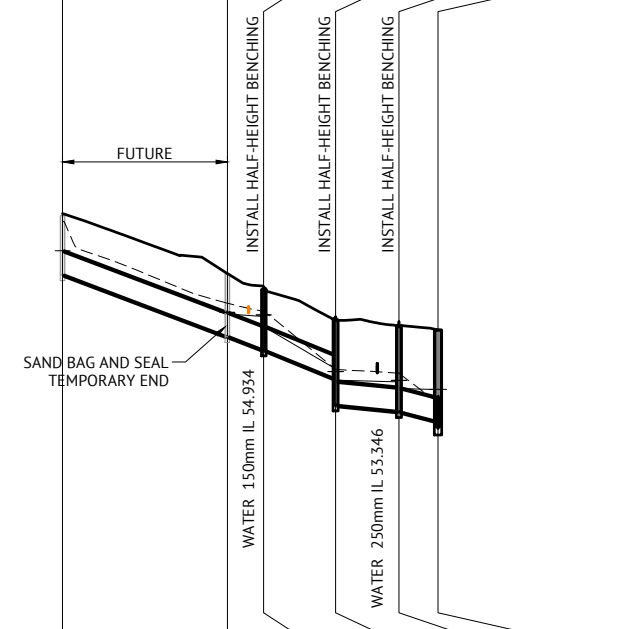
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 5 OF 14

JOB CODE	MIR001-01
SHEET NUMBER	C407
REV	B/C

STRUCTURE NAME	1/032	2/032	3/032	4/032	5/032	6/032	7/032	8/032	16/001
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 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 KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 900mm
PIPE SIZE (mm)	375	375	375	375	375	375	450	600	750
PIPE CLASS	2.28%	4.17%	5.71%	4.35%	4.1%	3.06%	1.21%	2.28%	
PIPE GRADE (%)	2.06%	4.15%	5.70%	4.35%	4.11%	3.09%	1.36%	2.25%	
PIPE SLOPE (1 in X)	48.56	24.07	17.54	23.01	24.31	32.41	73.71	44.44	
FULL PIPE VELOCITY (m/s)	43.94	23.97	17.53	22.99	24.420	32.63	82.74	43.79	
PART FULL VELOCITY (m/s)	1.45	2.27	3.04	3.00	3.33	3.24	2.53	3.89	
DATUM RL	48.0								
PIPE FLOW (Cumecs)	0.025	0.049	0.092	0.125	0.203	0.281	0.357	0.935	
W.S.E. IN STRUCTURE	67.592	66.446	64.261	60.913	57.869	55.201	53.375	52.913	51.699
HYDRAULIC GRADE LEVEL	67.574	66.916	64.261	60.913	57.869	55.201	53.375	52.906	51.699
DEPTH TO INVERT	67.592	66.446	64.261	60.913	57.869	55.201	53.375	52.913	51.699
INVERT LEVEL OF DRAIN	67.499	66.837	63.868	60.505	57.358	54.747	52.558	52.044	50.740
DESIGN SURFACE LEVEL	68.502	68.123	65.183	61.900	58.724	56.077	54.821	54.617	53.637
SETOUT COORDINATES	E8537.565 N31707.205	E8544.434 N31723.368	E8596.752 N31721.135	E8655.389 N31718.973	E8727.130 N31714.210	E8789.245 N31702.230	E8824.113 N31693.505	E8849.640 N31669.063	E8880.741 N31667.427
CHAINAGE	0.000	17.589	52.366	69.955	58.677	128.652	71.900	200.532	63.261

STRUCTURE NAME	7/033	8/033	9/033	10/033	11/033	8/032
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 KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET (SAG) ON 1050mm DIA MANHOLE	IPWEA MANHOLE 1500mm DIA
PIPE SIZE (mm)	600	600	600	600	600	600
PIPE CLASS	3.70%	3.55%	3.89%	0.90%	2.27%	
PIPE GRADE (%)	27.04	28.37	25.82	107.25	43.70	
PIPE SLOPE (1 in X)	1.62	28.15	25.72	110.65	43.98	
FULL PIPE VELOCITY (m/s)	3.91	3.86	4.11	2.40	3.21	
PART FULL VELOCITY (m/s)	0.459	0.468	0.518	0.566	0.582	
DATUM RL	41.0					
W.S.E. IN STRUCTURE	56.578	54.948	54.880	53.380	53.150	52.913
HYDRAULIC GRADE LEVEL	56.536	54.948	54.841	53.481	53.110	52.906
DEPTH TO INVERT	56.578	54.948	54.880	53.380	53.150	52.913
INVERT LEVEL OF DRAIN	55.936	54.323	53.964	53.207	52.335	51.928
DESIGN SURFACE LEVEL	57.503	55.973	55.553	54.748	54.600	54.482
SETOUT COORDINATES	E8794.721 N31647.442	E8837.035 N31636.855	E8846.249 N31634.215	E8856.899 N31649.912	E8843.890 N31660.445	E8849.640 N31669.063
CHAINAGE	0.000	43.619	9.596	19.039	16.738	10.360

STRUCTURE NAME	1/037	7/032
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 3.6m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel
PIPE SIZE (mm)	375	375
PIPE CLASS	1.09%	
PIPE GRADE (%)	100.00	
PIPE SLOPE (1 in X)	91.55	
FULL PIPE VELOCITY (m/s)	1.50	
PART FULL VELOCITY (m/s)	0.071	
DATUM RL	40.0	
W.S.E. IN STRUCTURE	54.240	53.375
HYDRAULIC GRADE LEVEL	54.040	53.695
DEPTH TO INVERT	54.240	53.375
INVERT LEVEL OF DRAIN	53.665	53.329
DESIGN SURFACE LEVEL	54.924	54.875
SETOUT COORDINATES	E8817.437 N31681.698	E8824.113 N31693.505
CHAINAGE	0.000	13.597



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 (slip) Reg. Surveyor No. SA 3405 Date: 29/11/18

AS-CONSTRUCTED

29/11/18	C	AS CONSTRUCTED	
12/01/18	B	AMENDED DRAINAGE LINES	
12/01/18	A	ORIGINAL ISSUE	
DATE	REV	DESCRIPTION	REVISIONS

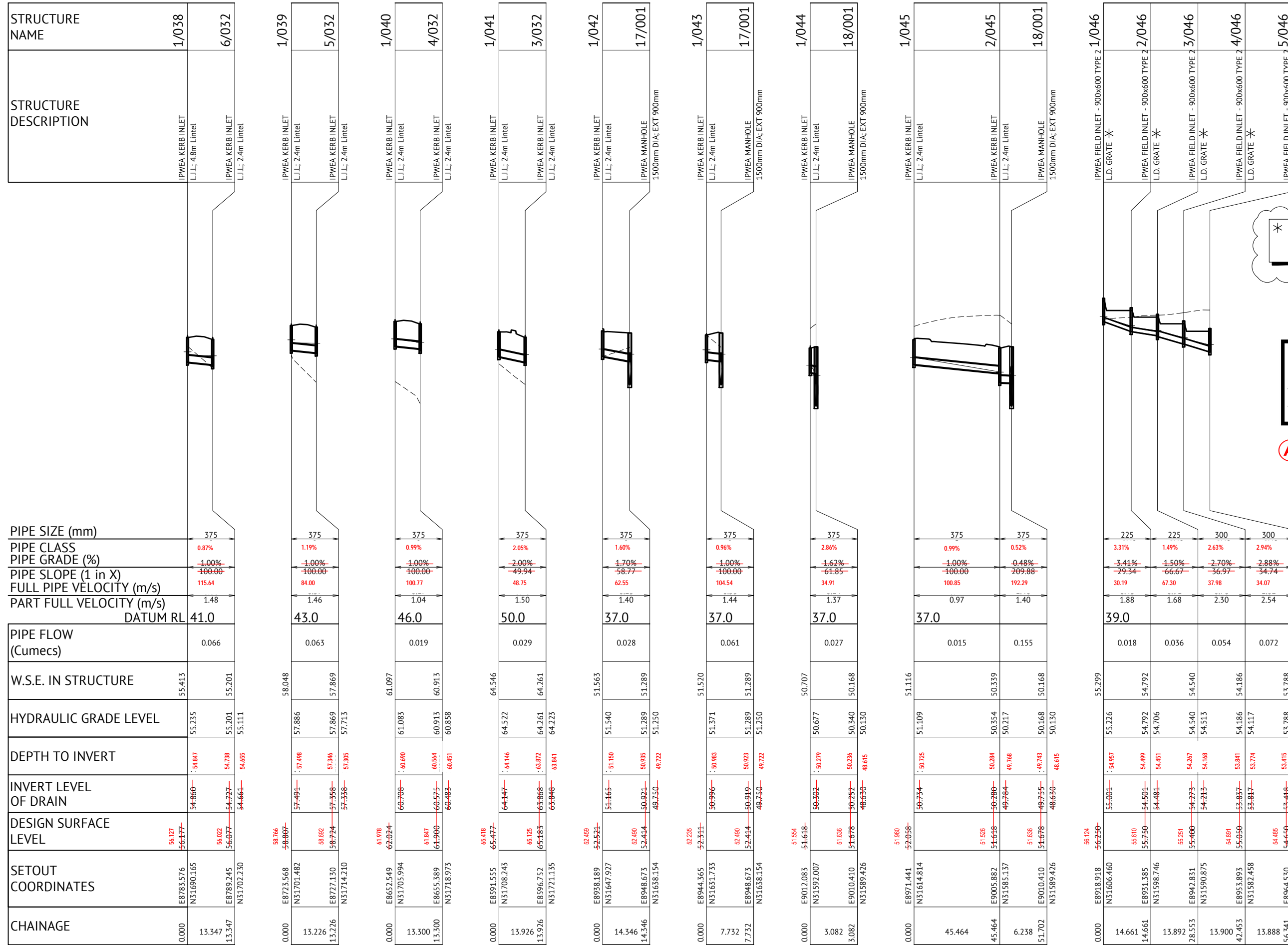
Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED: MM
 CHECKED: JS
 PROJECT MANAGER: JS
 PROJECT DIRECTOR: JOSHUA STONE
 DATE: 12/01/18

RPEQ: *R. Howells*
 DATE: 12/01/18
 SCALE: 0 10 20 30m
 SCALE 1:500 (A1)

CLIENT: MIRVAC
 PROJECT: EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
 LOCATION: TEVIOT ROAD, GREENBANK
 SHEET TITLE: STORMWATER DRAINAGE LONG SECTIONS - SHEET 6 OF 14

JOB CODE: MIR001-01
 SHEET NUMBER: C408
 REV: BC



★ ROOFWATER PROPERTY CONNECTION NOTE
 PROVIDE Ø100 PVC ROOFWATER CONNECTION INTO PIT. TYPICAL 750mm DEPTH OF COVER.

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 (stg.) Reg. Surveyor No. SA 3405 Date: 29/11/18

AS-CONSTRUCTED

STRUCTURE NAME	STRUCTURE DESCRIPTION	PIPE SIZE (mm)	PIPE CLASS	PIPE GRADE (%)	PIPE SLOPE (1 in X)	FULL PIPE VELOCITY (m/s)	PART FULL VELOCITY (m/s)	PIPE FLOW (Cumecs)	W.S.E. IN STRUCTURE	HYDRAULIC GRADE LEVEL	DEPTH TO INVERT	INVERT LEVEL OF DRAIN	DESIGN SURFACE LEVEL	SETOUT COORDINATES	CHAINAGE
1/038	IPWEA KERB INLET L.L.I.: 4.8m Lintel	375	0.87%	-1.00%	100.00	115.64	1.48	0.066	55.413	55.235	54.847	54.860	56.127	E8783.576 N31690.165	0.000
6/032	IPWEA KERB INLET L.L.I.: 2.4m Lintel	375	1.19%	-1.00%	100.00	84.00	1.46	0.063	58.048	57.886	57.498	57.491	56.177	E8723.568 N31701.482	13.226
1/040	IPWEA KERB INLET L.L.I.: 2.4m Lintel	375	0.99%	-1.00%	100.00	115.64	1.04	0.019	61.097	61.083	60.690	60.708	61.978	E8652.549 N31705.994	13.300
4/032	IPWEA KERB INLET L.L.I.: 2.4m Lintel	375	2.05%	-2.00%	49.94	100.77	1.50	0.029	64.546	64.522	64.146	64.147	65.125	E8594.673 N31721.135	13.926
1/041	IPWEA KERB INLET L.L.I.: 2.4m Lintel	375	1.60%	-1.70%	100.00	104.54	1.40	0.028	51.563	51.540	51.150	51.165	52.459	E8938.189 N31647.927	14.346
17/001	IPWEA MANHOLE 1500mm DIA; EXT 900mm	375	0.96%	-1.00%	100.00	104.54	1.44	0.061	51.520	51.371	50.983	50.996	51.554	E8944.365 N31631.733	7.732
1/043	IPWEA KERB INLET L.L.I.: 2.4m Lintel	375	2.86%	-1.62%	61.85	34.91	1.37	0.027	50.707	50.677	50.279	50.302	51.618	E9012.083 N31592.007	3.082
18/001	IPWEA MANHOLE 1500mm DIA; EXT 900mm	375	0.99%	-1.00%	100.00	100.85	0.97	0.015	51.116	51.109	50.725	50.734	51.980	E8971.441 N31614.814	45.464
1/045	IPWEA KERB INLET L.L.I.: 2.4m Lintel	375	0.52%	-0.48%	209.88	192.29	1.40	0.155	50.168	50.168	49.783	49.755	51.636	E9010.410 N31589.476	51.702
2/045	IPWEA KERB INLET L.L.I.: 2.4m Lintel	375	3.31%	-3.41%	29.34	30.19	1.88	0.018	55.299	55.226	54.957	55.001	56.124	E8918.918 N31606.460	14.661
18/001	IPWEA MANHOLE 1500mm DIA; EXT 900mm	375	1.49%	-1.50%	66.67	67.30	1.68	0.036	54.540	54.706	54.451	54.481	55.750	E8931.385 N31598.746	13.892
1/046	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	225	2.63%	-2.70%	36.97	37.98	2.30	0.054	54.186	54.513	54.168	54.213	55.251	E8942.831 N31590.875	13.900
2/046	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	225	2.94%	-2.88%	34.07	34.07	2.54	0.072	54.186	54.117	53.841	53.837	54.891	E8953.893 N31582.458	42.453
3/046	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	300	3.31%	-3.41%	29.34	30.19	1.88	0.018	53.788	53.788	53.415	53.418	54.485	E8964.530 N31573.529	56.341
4/046	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	300	2.94%	-2.88%	34.07	34.07	2.54	0.072	53.788	53.788	53.415	53.418	54.485	E8964.530 N31573.529	56.341
5/046	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	300	2.94%	-2.88%	34.07	34.07	2.54	0.072	53.788	53.788	53.415	53.418	54.485	E8964.530 N31573.529	56.341

29/11/18	D	AS CONSTRUCTED	
27/08/18	C	ADDED ROOFWATER PROPERTY CONNECTION NOTE	
12/01/18	B	AMENDED DRAINAGE LINES	
12/01/18	A	ORIGINAL ISSUE	
DATE	REV	DESCRIPTION	REVISIONS

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: MM
 CHECKED: JS
 PROJECT MANAGER: JS
 PROJECT DIRECTOR: JOSHUA STONE
 DATE: 27/08/18

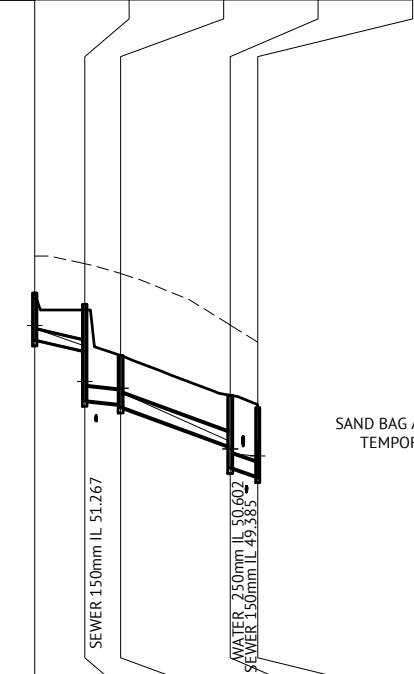
RPEQ: *K. Howells*
 KEITH HOWELLS
 RPEQ 7295

SCALE: 0 10 20 30m
 SCALE 1:500 (A1)

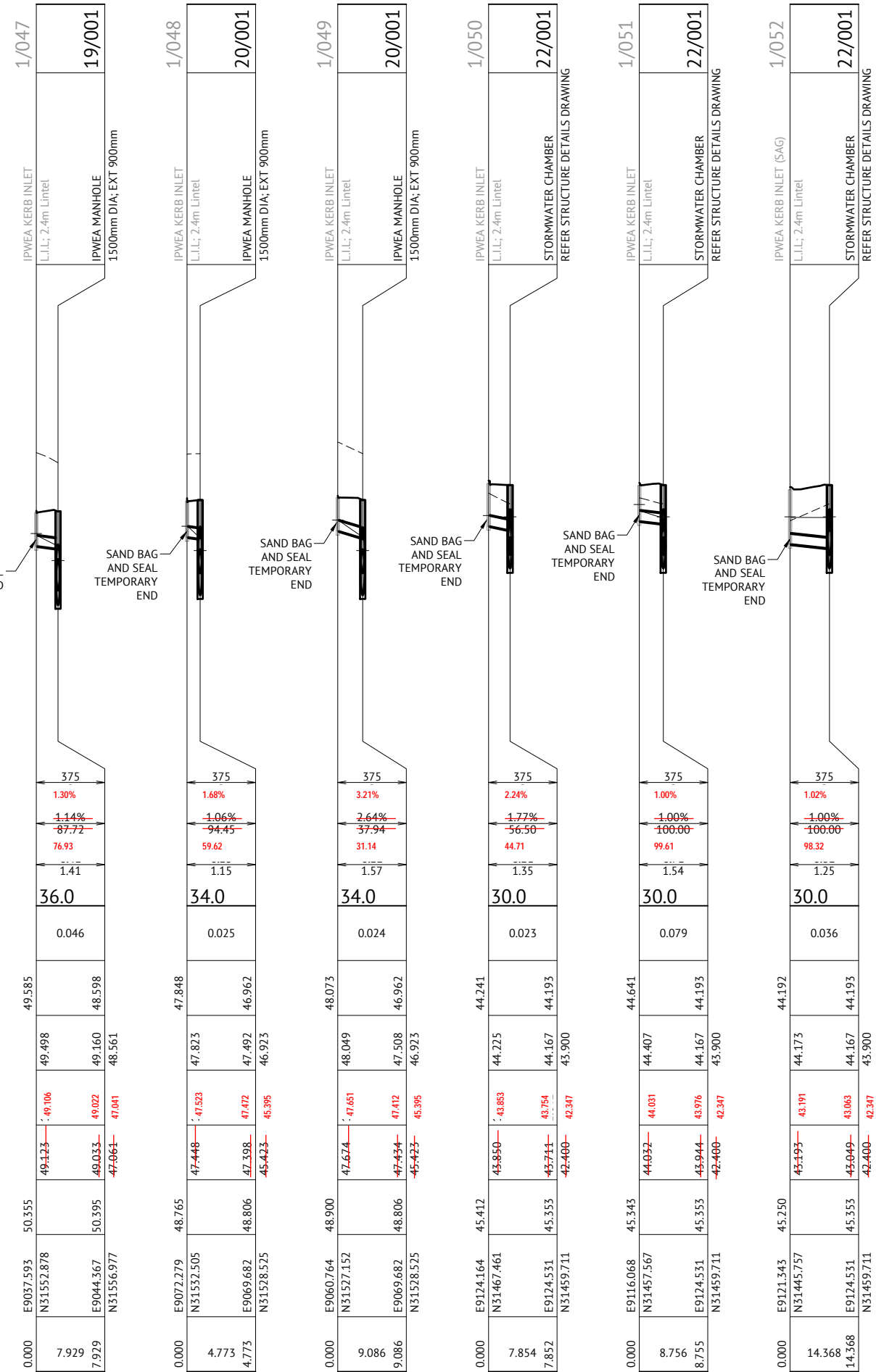
CLIENT: MIRVAC
 PROJECT: EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
 LOCATION: TEVIOT ROAD, GREENBANK
 SHEET TITLE: STORMWATER DRAINAGE LONG SECTIONS - SHEET 7 OF 14

JOB CODE: MIR001-01
 SHEET NUMBER: C409
 REV: *CD*

STRUCTURE NAME	5/046
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 1 L.D. GRATE *
	6/046
	7/046
	8/046
	2/045



PIPE SIZE (mm)	300	375	375	375
PIPE CLASS	2.26%	1.01%	3.57%	2.98%
PIPE GRADE (%)	-2.17%	-1.00%	3.54%	3.00%
PIPE SLOPE (1 in X)	-46.19	-100.00	28.25	33.52
FULL PIPE VELOCITY (m/s)	44.27	99.28	27.99	33.54
PART FULL VELOCITY (m/s)	2.42	1.67	2.67	2.52
DATUM RL 39.0				
PIPE FLOW (Cumecs)	0.090	0.108	0.108	0.108
W.S.E. IN STRUCTURE	53.788	53.309	52.129	50.528
HYDRAULIC GRADE LEVEL	53.788	53.698	52.102	50.746
DEPTH TO INVERT	53.415	53.371	52.177	50.598
INVERT LEVEL OF DRAIN	53.418	53.398	51.802	50.598
DESIGN SURFACE LEVEL	54.485	54.123	52.975	51.526
SETOUT COORDINATES	E8964.530	E8974.391	E8981.448	E9000.977
CHAINAGE	56.341	13.248	9.500	7.283



PIPE SIZE (mm)	375	375	375	375	375	375	375	375	375
PIPE CLASS	1.30%	1.68%	3.21%	2.24%	1.00%	1.02%	1.00%	1.00%	1.02%
PIPE GRADE (%)	-1.14%	-1.06%	-2.64%	-1.77%	-1.00%	-1.00%	-1.00%	-1.00%	-1.00%
PIPE SLOPE (1 in X)	-87.72	-94.45	-37.94	-56.50	-100.00	-100.00	-100.00	-100.00	-100.00
FULL PIPE VELOCITY (m/s)	1.41	1.15	1.57	1.35	1.54	1.25	1.25	1.25	1.25
PART FULL VELOCITY (m/s)	36.0	34.0	34.0	30.0	30.0	30.0	30.0	30.0	30.0
PIPE FLOW (Cumecs)	0.046	0.025	0.024	0.023	0.079	0.036	0.036	0.036	0.036
W.S.E. IN STRUCTURE	49.585	47.848	48.073	44.241	44.641	44.192	44.192	44.192	44.192
HYDRAULIC GRADE LEVEL	49.498	47.823	48.049	44.225	44.407	44.173	44.173	44.173	44.173
DEPTH TO INVERT	49.106	47.523	47.651	43.853	44.031	43.191	43.191	43.191	43.191
INVERT LEVEL OF DRAIN	49.423	47.448	47.674	43.850	44.032	43.493	43.493	43.493	43.493
DESIGN SURFACE LEVEL	50.355	48.765	48.900	45.412	45.343	45.250	45.250	45.250	45.250
SETOUT COORDINATES	E9037.593	E9072.279	E9060.764	E9124.164	E9116.068	E9121.343	E9121.343	E9121.343	E9121.343
CHAINAGE	7.929	4.773	4.773	7.854	8.755	14.368	14.368	14.368	14.368

D

* ROOFWATER PROPERTY CONNECTION NOTE
PROVIDE Ø100 PVC ROOFWATER CONNECTION
INTO PIT. TYPICAL 750mm DEPTH OF COVER.

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: 29/11/18

AS-CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
29/11/18	E	AS CONSTRUCTED	
27/08/18	D	ADDED ROOFWATER PROPERTY CONNECTION NOTE	
25/02/18	C	AMENDED STRUCTURE FSL'S	
12/01/18	B	AMENDED DRAINAGE LINES	
23/02/18	A	ORIGINAL ISSUE	

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: MM
CHECKED: JS
PROJECT MANAGER: JS
PROJECT DIRECTOR: JOSHUA STONE
DATE: 27/08/18

RPEQ: KEITH HOWELLS
DATE: 27/08/18
SCALE: 1:500 (A1)

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER DRAINAGE LONG SECTIONS - SHEET 8 OF 14

JOB CODE: MIR001-01
SHEET NUMBER: C410
REV: DE

STRUCTURE NAME	16/100	17/100	18/100	19/100	20/100	21/001
STRUCTURE DESCRIPTION	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING
PIPE SIZE (mm)	1500	1500	1500	1500	1500	
PIPE CLASS						
PIPE GRADE (%)	0.75%	0.55%	0.51%	0.55%	1.05%	
PIPE SLOPE (1 in X)	-0.79%	-0.50%	-0.50%	-0.50%	-1.08%	
FULL PIPE VELOCITY (m/s)	133.85	182.85	197.90	180.93	95.18	
PART FULL VELOCITY (m/s)	3.41	2.94	2.94	2.95	4.00	
PIPE FLOW (Cumecs)	2.668	2.920	2.934	2.973	3.126	
W.S.E. IN STRUCTURE	47.465	46.735	46.543	46.410	46.329	45.590
HYDRAULIC GRADE LEVEL	47.335	46.735 46.710	46.543 46.514	46.410 46.379	46.329 46.291	45.590 45.461
DEPTH TO INVERT	45.820	45.260 45.236	45.050 44.969	44.862 44.842	44.773 44.753	43.997 43.930
INVERT LEVEL OF DRAIN	45.825	45.230 45.210	45.054 45.014	44.899 44.879	44.811 44.791	43.981 43.961
DESIGN SURFACE LEVEL	47.264 46.894	47.980 47.973	47.604 47.623	47.419 47.432	47.720 47.762	47.146 47.146
SETOUT COORDINATES	E8923.240 N31349.578	E8980.487 N31400.878	E9006.700 N31424.367	E9023.904 N31439.784	E9031.342 N31451.963	E9091.707 N31496.152
CHAINAGE	-64.917 76.870	11.953 35.197	47.149 70.251	13.537 83.788	74.750	158.538

SAND BAG AND SEAL
TEMPORARY END

WATER 100mm IL 47.331

SEWER 150mm IL 44.520

WATER 150mm IL 46.761
SEWER 150mm IL 44.244

SEWER 150mm IL 43.444

STRUCTURE NAME	1/101	2/101	3/101	20/100
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 1500mm DIA; EXT 900mm
PIPE SIZE (mm)	375	375	375	375
PIPE CLASS				
PIPE GRADE (%)	3.90%	5.81%	5.94%	
PIPE SLOPE (1 in X)	-3.95%	-5.85%	-5.88%	
FULL PIPE VELOCITY (m/s)	25.67	17.22	16.84	
PART FULL VELOCITY (m/s)	2.31	2.95	3.68	
PIPE FLOW (Cumecs)	0.056	0.080	0.179	
W.S.E. IN STRUCTURE	53.856	53.030	49.053	46.329
HYDRAULIC GRADE LEVEL	53.764	53.030 52.986	49.053 48.841	46.329 46.291
DEPTH TO INVERT	53.369	52.650 52.556	48.498 48.192	45.903 44.774
INVERT LEVEL OF DRAIN	53.389	52.651 52.611	48.486 48.466	45.916 44.791
DESIGN SURFACE LEVEL	54.672 54.736	53.905 53.963	49.807 49.893	47.720 47.762
SETOUT COORDINATES	E8940.159 N31540.731	E8958.372 N31534.982	E9008.009 N31484.901	E9031.342 N31451.963
CHAINAGE	0.000 19.186	70.515	89.701 43.362	133.063

STRUCTURE NAME	1/102	3/101
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel
PIPE SIZE (mm)	375	375
PIPE CLASS		
PIPE GRADE (%)	2.68%	-2.56%
PIPE SLOPE (1 in X)		-58.99%
FULL PIPE VELOCITY (m/s)	37.37	17.00
PART FULL VELOCITY (m/s)	1.89	3.70
PIPE FLOW (Cumecs)	0.047	0.004
W.S.E. IN STRUCTURE	49.271	49.053
HYDRAULIC GRADE LEVEL	49.181	49.053 48.841
DEPTH TO INVERT	48.814	48.596 48.192
INVERT LEVEL OF DRAIN	48.806	48.577 48.466
DESIGN SURFACE LEVEL	49.807 49.893	47.452 47.452
SETOUT COORDINATES	E8999.459 N31482.686	E9008.009 N31484.901
CHAINAGE	0.000 8.925	8.925

STRUCTURE NAME	1/103	19/100
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm
PIPE SIZE (mm)	375	375
PIPE CLASS		
PIPE GRADE (%)	1.42%	-1.00%
PIPE SLOPE (1 in X)		-100.00%
FULL PIPE VELOCITY (m/s)	70.53	100.00
PART FULL VELOCITY (m/s)	0.67	1.38
PIPE FLOW (Cumecs)	0.004	0.055
W.S.E. IN STRUCTURE	46.422	46.410
HYDRAULIC GRADE LEVEL	46.422	46.410 46.379
DEPTH TO INVERT	46.026	46.002 44.865
INVERT LEVEL OF DRAIN	46.047	46.016 44.879
DESIGN SURFACE LEVEL	47.284 47.376	47.719 47.452
SETOUT COORDINATES	E9024.761 N31436.824	E9023.904 N31439.784
CHAINAGE	0.000 3.107	3.107

STRUCTURE NAME	1/104	19/100
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm
PIPE SIZE (mm)	450	450
PIPE CLASS		
PIPE GRADE (%)	1.51%	-1.00%
PIPE SLOPE (1 in X)		-100.00%
FULL PIPE VELOCITY (m/s)	66.38	100.00
PART FULL VELOCITY (m/s)	1.38	1.38
PIPE FLOW (Cumecs)	0.055	0.055
W.S.E. IN STRUCTURE	46.491	46.410
HYDRAULIC GRADE LEVEL	46.432	46.410 46.379
DEPTH TO INVERT	45.964	45.897 44.865
INVERT LEVEL OF DRAIN	45.982	45.923 44.879
DESIGN SURFACE LEVEL	47.315 47.382	47.719 47.452
SETOUT COORDINATES	E9018.763 N31442.565	E9023.904 N31439.784
CHAINAGE	0.000 5.872	5.872

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: 29/11/18

AS-CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
29/11/18	E	AS CONSTRUCTED	
02/05/18	D	AMENDED STRUCTURE FSL'S	
23/02/18	C	AMENDED STRUCTURE FSL'S	
12/01/18	B	AMENDED DRAINAGE LINES	
23/02/18	A	ORIGINAL ISSUE	

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	MM
CHECKED	JS
PROJECT MANAGER	JS
PROJECT DIRECTOR	DATE: 02/05/18

RPEQ
 R. Howells
 02/05/18
 NAITI DWELLS
 RP-EQ 7295
 SCALE
 0 10 20 30m
 SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 9 OF 14

JOB CODE	MIR001-01
SHEET NUMBER	C411
REV	DE

STRUCTURE NAME	1/105	18/100	1/106	18/100	1/107	17/100	1/108	2/108	3/108	4/108	5/108	17/100	1/109	5/108	1/110	4/108		
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.; 2.4m Lintel		IPWEA KERB INLET L.I.L.; 2.4m Lintel		IPWEA KERB INLET L.I.L.; 2.4m Lintel		IPWEA KERB INLET L.I.L.; 2.4m Lintel		IPWEA KERB INLET L.I.L.; 2.4m Lintel		IPWEA KERB INLET L.I.L.; 2.4m Lintel		IPWEA KERB INLET L.I.L.; 2.4m Lintel		IPWEA KERB INLET (SAG) L.I.L.; 2.4m Lintel		IPWEA KERB INLET L.I.L.; 2.4m Lintel	
PIPE SIZE (mm)	375		375		375		375		375		600		375		375		375	
PIPE CLASS	2.28%		2.17%		4.31%		5.35%		5.43%		5.43%		1.39%		0.93%		1.00%	
PIPE GRADE (%)	-1.00%		-1.00%		-1.00%		-5.40%		-5.39%		-5.28%		-1.46%		-1.00%		-1.00%	
PIPE SLOPE (1 in X)	100.00		100.00		100.00		18.52		18.54		18.94		68.44		100.00		100.00	
FULL PIPE VELOCITY (m/s)	43.78		46.19		23.18		18.70		18.42		18.40		71.87		107.41		107.41	
PART FULL VELOCITY (m/s)	1.22		0.75		1.29		2.50		2.98		3.25		1.75		0.86		0.86	
DATUM RL	32.0		32.0		33.0		35.0		35.0		35.0		33.0		33.0		33.0	
PIPE FLOW (Cumecs)	0.033		0.006		0.040		0.050		0.092		0.130		0.195		0.267		0.074	
W.S.E. IN STRUCTURE	46.681		46.654		47.050		51.709		50.136		49.482		46.807		46.764		46.735	
HYDRAULIC GRADE LEVEL	46.637		46.653		46.985		51.637		50.122		49.482		46.807		46.764		46.735	
DEPTH TO INVERT	46.219		46.279		46.588		51.226		49.710		49.043		46.319		46.764		46.735	
INVERT LEVEL OF DRAIN	46.262		46.278		46.610		51.262		49.692		49.007		46.360		46.742		46.023	
DESIGN SURFACE LEVEL	47.487		47.514		47.925		52.550		50.941		50.417		47.742		46.045		45.236	
SETOUT COORDINATES	E9008.101 N31422.309		E9001.620 N31427.157		E8981.979 N31398.902		E8917.951 N31478.748		E8924.648 N31450.547		E8956.637 N31449.058		E8969.577 N31412.393		E8973.955 N31404.267		E8980.487 N31400.878	
CHAINAGE	0.000 2.494		0.000 5.821		0.000 2.478		0.000 29.059		12.327 41.386		49.288 90.674		9.245 99.919		7.359 107.277		0.000 17.471	

PIPE SIZE (mm)
PIPE CLASS
PIPE GRADE (%)
PIPE SLOPE (1 in X)
FULL PIPE VELOCITY (m/s)
PART FULL VELOCITY (m/s)
DATUM RL

PIPE FLOW (Cumecs)
W.S.E. IN STRUCTURE
HYDRAULIC GRADE LEVEL
DEPTH TO INVERT
INVERT LEVEL OF DRAIN
DESIGN SURFACE LEVEL
SETOUT COORDINATES
CHAINAGE

375
2.28%
-1.00%
100.00
43.78
1.22
32.0
0.033
46.681
46.637
46.219
46.262
47.487
E9008.101
N31422.309
0.000
2.494

375
2.17%
-1.00%
100.00
46.19
0.75
32.0
0.006
46.654
46.653
46.279
46.278
47.514
E9001.620
N31427.157
0.000
5.821

375
4.31%
-1.00%
100.00
23.18
1.29
33.0
0.040
47.050
46.985
46.588
46.610
47.925
E8981.979
N31398.902
0.000
2.478

375
5.35%
-5.40%
18.52
18.70
2.50
35.0
0.050
51.709
51.637
51.226
51.262
52.550
E8917.951
N31478.748
29.059

375
5.43%
-5.39%
18.54
18.42
2.98
35.0
0.092
50.136
50.047
49.692
49.672
50.941
E8924.648
N31450.547
12.327
41.386

375
5.43%
-5.28%
18.94
18.40
3.25
35.0
0.130
49.482
49.362
48.970
48.987
50.417
E8956.637
N31449.058
49.288

375
0.32%
-0.30%
333.34
314.14
1.23
35.0
0.195
46.807
46.773
46.165
46.160
47.742
E8969.577
N31412.393
9.245
99.919

600
0.39%
-0.30%
333.34
256.82
1.33
35.0
0.267
46.764
46.742
46.045
46.035
45.236
E8980.487
N31400.878
7.359
107.277

600
1.39%
-1.46%
68.44
71.87
1.75
33.0
0.074
47.329
47.170
46.788
46.795
48.061
E8961.932
N31391.592
17.471

600
0.93%
-1.00%
100.00
107.41
0.86
33.0
0.010
46.884
46.880
46.492
46.505
47.742
E8963.708
N31406.836
8.083
8.083

375
0.93%
-1.00%
100.00
107.41
0.86
33.0
0.010
46.884
46.880
46.492
46.505
47.742
E8963.708
N31406.836
8.083
8.083

375
0.93%
-1.00%
100.00
107.41
0.86
33.0
0.010
46.884
46.880
46.492
46.505
47.742
E8963.708
N31406.836
8.083
8.083

375
0.93%
-1.00%
100.00
107.41
0.86
33.0
0.010
46.884
46.880
46.492
46.505
47.742
E8963.708
N31406.836
8.083
8.083

29/11/18	C	AS CONSTRUCTED	
12/01/18	B	AMENDED DRAINAGE LINES	
12/01/18	A	ORIGINAL ISSUE	
DATE	REV	DESCRIPTION	REVISIONS

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 MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR
DATE 12/01/18
SCALE 1:500 (A1)

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 10 OF 14

JOB CODE MIR001-01
SHEET NUMBER C412
REV BC

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: 29/11/18

AS-CONSTRUCTED

STRUCTURE NAME	13/200	14/200	15/200	16/200	17/200	18/200
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	HEADWALL
PIPE SIZE (mm)	1500	1500	1500	1500	1500	1500
PIPE CLASS	1.19%	1.70%	1.23%	1.70%	1.81%	
PIPE GRADE (%)	1.21%	1.70%	1.27%	1.72%	1.77%	
PIPE SLOPE (1 in X)	82.33	58.82	78.47	58.30	56.56	
FULL PIPE VELOCITY (m/s)	83.89	58.70	81.42	58.77	55.13	
PART FULL VELOCITY (m/s)	3.55	4.07	3.71	4.18	4.22	
DATUM RL 30.0						
PIPE FLOW (Cumecs)	1.730	1.834	1.909	2.001	1.990	
W.S.E. IN STRUCTURE	46.352	45.278	44.889	43.785	43.039	41.569
HYDRAULIC GRADE LEVEL	46.347	45.266	44.889	43.771	43.027	41.569
DEPTH TO INVERT	44.801	43.781	43.490	42.689	41.512	41.104
INVERT LEVEL OF DRAIN	44.847	43.786	43.498	42.671	41.491	41.100
DESIGN SURFACE LEVEL	47.463	46.304	46.076	45.386	44.385	43.295
SETOUT COORDINATES	E9003.966 N31321.546	E9069.154 N31379.765	E9080.902 N31390.228	E9124.478 N31424.466	E9160.121 N31452.731	E9179.037 N31443.680
CHAINAGE	0.000	87.401	15.732	55.417	204.040	20.969

STRUCTURE NAME	1/201	1/202	1/203	1/204	1/205	3/229	4/229
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 3.6m Lintel	IPWEA KERB INLET L.L.I.; 3.6m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 600mm
PIPE SIZE (mm)	375	375	375	375	375	1050	1500
PIPE CLASS	1.00%	1.00%	1.05%	0.72%	4.79%	1.31%	
PIPE GRADE (%)	1.00%	1.00%	1.00%	1.00%	1.00%	1.28%	
PIPE SLOPE (1 in X)	99.61	100.00	100.00	100.00	100.00	78.17	
FULL PIPE VELOCITY (m/s)	100.08	100.00	94.89	100.00	139.66	20.86	
PART FULL VELOCITY (m/s)	1.51	1.39	1.59	1.52	1.49	3.81	
DATUM RL 30.0							
PIPE FLOW (Cumecs)	0.071	0.053	0.087	0.075	0.068	2.042	
W.S.E. IN STRUCTURE	43.985	44.133	45.234	45.509	45.493	43.077	42.947
HYDRAULIC GRADE LEVEL	43.799	44.051	44.966	45.294	45.304	42.956	42.856
DEPTH TO INVERT	43.382	43.689	44.592	44.911	44.974	41.547	41.327
INVERT LEVEL OF DRAIN	43.360	43.676	44.582	44.919	44.929	41.550	41.320
DESIGN SURFACE LEVEL	45.348	45.377	46.886	46.254	46.160	44.250	43.900
SETOUT COORDINATES	E9124.105 N31414.959	E9115.116 N31425.509	E9071.291 N31405.711	E9071.901 N31372.060	E9066.228 N31381.660	E9171.081 N31422.752	E9172.140 N31440.701
CHAINAGE	0.000	8.888	8.972	8.212	3.503	17.980	

SAND BAG AND SEAL
TEMPORARY END

SAND BAG AND SEAL
TEMPORARY END

SAND BAG AND SEAL
TEMPORARY END

SAND BAG AND SEAL
TEMPORARY END

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: 29/11/18

AS-CONSTRUCTED

29/11/18	E	AS CONSTRUCTED
02/05/18	D	AMENDED STRUCTURES FSL'S
23/02/18	C	AMENDED STRUCTURE FSL'S
12/01/18	B	AMENDED DRAINAGE LINES
23/02/18	A	ORIGINAL ISSUE
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 MM
 CHECKED JS
 PROJECT MANAGER JS
 PROJECT DIRECTOR JS
 DATE 02/05/18

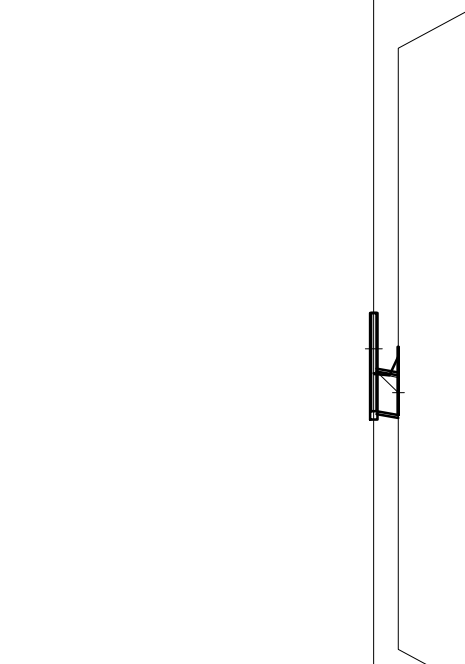
RPEQ
 H. Howells
 NAITI TRUVELLS
 DATE 02/05/18
 REF: EQ 7295

SCALE
 0 10 20 30m
 SCALE 1:500 (A1)

CLIENT MIRVAC
 PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
 LOCATION TEVIOT ROAD, GREENBANK
 SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 11 OF 14

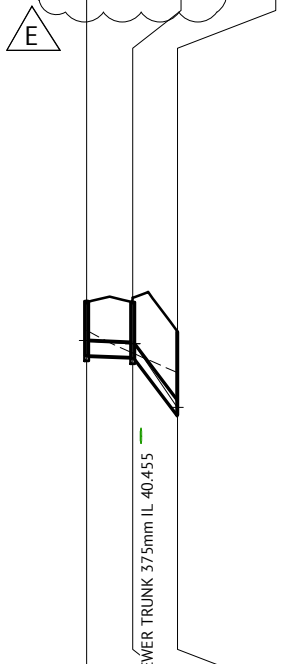
JOB CODE MIR001-01
 SHEET NUMBER C413
 REV DE

STRUCTURE NAME	4/229
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA; EXT 600mm HEADWALL



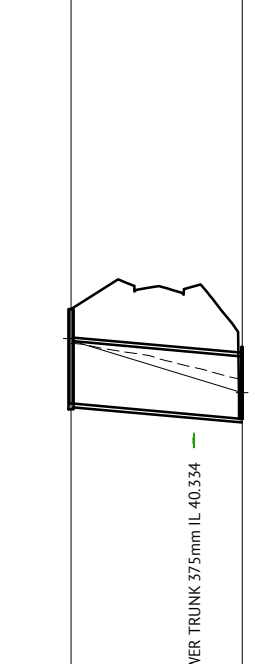
PIPE SIZE (mm)	1050
PIPE CLASS	1.26%
PIPE GRADE (%)	1.53%
PIPE SLOPE (1 in X)	65.24
FULL PIPE VELOCITY (m/s)	79.26
PART FULL VELOCITY (m/s)	4.09
DATUM RL 29.0	
PIPE FLOW (Cumecs)	2.037
W.S.E. IN STRUCTURE	42.947
HYDRAULIC GRADE LEVEL	42.856 42.350 41.788
DEPTH TO INVERT	41.327 41.274 41.202 41.202 41.202
INVERT LEVEL OF DRAIN	41.320 41.300 41.200 41.200 41.200
DESIGN SURFACE LEVEL	43.900 42.878 43.000 44.185
SETOUT COORDINATES	E9172.140 N31440.701 E9178.606 N31441.569
CHAINAGE	17.980 6.524 24.504

1/231	IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel
2/231	IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel
3/231	HEADWALL



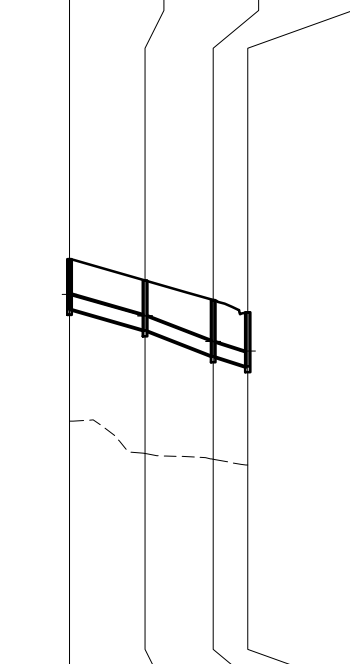
SEWER TRUNK 375mm I.L. 40.455	375	0.90%	12.70%	256.00	7.89	0.77	0.021	43.152	43.088	43.075	41.400	41.400	44.185	E9164.816 N31465.279	0.000
	375	0.40%	12.68%	256.00	7.89	3.14	0.039	43.152	43.088	43.075	41.400	41.400	44.185	E9171.748 N31455.356	12.183
								43.152	43.088	43.075	41.400	41.400	44.185	E9179.916 N31446.809	11.831
								43.152	43.088	43.075	41.400	41.400	44.185	E9179.916 N31446.809	24.014

24/300	IPWEA MANHOLE 1500mm DIA; EXT 900mm
25/300	HEADWALL



SEWER TRUNK 375mm I.L. 40.334	1650	0.90%	0.88%	113.17	110.68	3.70	3.141	43.223	43.150	41.791	41.791	41.791	43.123	E9196.259 N31494.228	0.000
								43.223	43.150	41.791	41.791	41.791	43.123	E9190.070 N31449.382	45.268

1/327	IPWEA FIELD INLET (ON GRADE) 900x600 H.D. GRATE
2/327	IPWEA FIELD INLET (ON GRADE) 900x600 H.D. GRATE
3/327	IPWEA FIELD INLET (ON GRADE) 900x600 H.D. GRATE
20/321	TEMPORARY HEADWALL



	375	2.71%	2.74%	36.45	36.86	1.47	0.018	53.386	53.376	52.820	52.144	51.888	54.163	E8885.086 N31749.266	0.000
	375	3.92%	3.70%	27.02	25.51	2.01	0.037	53.386	53.376	52.820	52.144	51.888	54.163	E8905.067 N31748.382	20.000
	375	2.83%	2.88%	34.73	35.33	2.07	0.057	53.386	53.376	52.820	52.144	51.888	54.163	E8923.050 N31747.586	18.009
								53.386	53.376	52.820	52.144	51.888	54.163	E8931.969 N31745.547	38.009
								53.386	53.376	52.820	52.144	51.888	54.163	E8931.969 N31745.547	47.157

29/11/18	F	AS CONSTRUCTED
21/08/18	E	MH 1/231 AND 2/231 TO BE CONSTRUCTED IN CURRENT STAGE
22/04/18	D	AMENDED LEVELS FOR 24/300
02/05/18	C	ADDED STRUCTURE FSL AND SETOUT COORDINATES
12/01/18	B	AMENDED DRAINAGE LINES
12/01/18	A	ORIGINAL ISSUE
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	MM
CHECKED	JS
PROJECT MANAGER	JS
PROJECT DIRECTOR	JOSHUA STONE
DATE	21/08/18

RPEQ
K. Howells
KEITH HOWELLS
RPEQ 7295
SCALE
0 10 20 30m
SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 12 OF 14

JOB CODE	MIR001-01
SHEET NUMBER	C414
REV	E

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: 29/11/18

AS-CONSTRUCTED