

# Kingston Downs Estate - Stage 33

## Ocean Grove


### NOTES:

- 1 ALL WORKS IN THIS CONTRACT ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF GREATER GEELONG (COGG) STANDARD SPECIFICATIONS FOR ROADWORKS AND DRAINAGE.
- 2 ALL ROADWORKS SIGNAGE IS TO BE IN ACCORDANCE WITH VICROADS WORKSITE TRAFFIC MANAGEMENT CODE OF PRACTISE INCORPORATING AS1742.3.

### SITE MANAGEMENT:

- 3 ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED CONSTRUCTION MANAGEMENT PLAN.
- 4 ALL TREES, SHRUB etc. ARE TO BE RETAINED UNLESS OTHERWISE INDICATED.
- 5 DURING THE CONSTRUCTION AND MAINTENANCE PERIOD SILT FENCES ARE TO BE PLACED DOWNSTREAM OF ALL EXPOSED AREAS, AND SILT BARRIERS ARE TO BE PLACED UPSTREAM OF ALL PITS. THE SILT FENCES AND SILT BARRIERS ARE TO BE CHECKED AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.
- 6 ALL AREAS OF THE SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURESTRIPS, LOTS AND RESERVE ARE TO BE FULLY GRASSSED BY HYDRO MULCHING, WATERED AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.

### GENERAL:

- 7 THE CONTRACTOR SHALL:
  - a) GIVE 48 HOURS NOTICE IN WRITING TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORKS.
  - b) NOTIFY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE 24 HOURS PRIOR TO WORKING ON ANY WEEKEND.
  - c) BE FULLY AWARE OF ALL SITE CONDITIONS PRIOR TO TENDERING.
  - d) BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SERVICES.
  - e) BE RESPONSIBLE FOR THE INSTALLATION OF ALL SERVICES REQUIRED FOR THE PROJECT.
  - f) ENSURE THAT ALL SERVICES ARE INSTALLED TO THE SPECIFIED OFFSETS AND MEETS MINIMUM COVER REQUIREMENTS. ALL SURFACE FIXTURES, PITS VALVES, FIREPLUGS, etc. SHALL BE INSTALLED A MINIMUM OF 5m FROM ANY SIDE BOUNDARY AND SHALL MATCH THE REQUIRED FINISHED SURFACE LEVEL. THIS APPLIES TO ALL SERVICES REQUIRED FOR THE PROJECT IRRESPECTIVE IF THEY ARE INSTALLED BY THE CONTRACTOR OR OTHERWISE.
  - g) COMPLY WITH THE REQUIREMENTS OF THE MINES ACT 1958 AND RELEVANT REGULATIONS INCLUDING NOTIFICATION IN WRITING (CLAUSE 385) TO THE CHIEF MINING INSPECTOR OF THE INTENTION TO COMMENCE EXCAVATION OPERATIONS WHERE ANY TRENCH IS 1.5m OR MORE IN DEPTH.
  - h) GIVE 24 HOURS NOTICE TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO BACKFILLING OF ANY PIPE TRENCHES OR LAYING OF ANY PAVEMENT OR CONCRETE WORKS SO THAT THE WORKS CAN BE CHECKED AND APPROVED.
  - i) COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY (CONFINED SPACES) REGULATIONS AND CODE OF PRACTICE FOR CONFINED SPACES.
  - j) BE RESPONSIBLE FOR THE COMPACTION TESTING OF THE PAVEMENT MATERIAL BY AN APPROVED GEOTECHNICAL CONSULTANT AS AND WHEN DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 8 EXISTING CONSTRUCTION WORKS ARE TO BE CHECKED BY COUNCIL 48hrs PRIOR TO COMMENCEMENT OF ANY FUTURE PAVEMENT WORKS. IF REMEDIAL WORKS ARE NECESSARY TO ENSURE SATISFACTORY CONNECTION, THESE ARE TO BE CARRIED OUT AT THE DEVELOPER'S EXPENSE. AT THE SAME INSPECTION DAMAGE TO EXISTING WORKS WILL BE DETERMINED, OTHERWISE THE CONTRACTOR WILL BE HELD LIABLE.
- 9 ANY WORKS WITHIN ROADWAYS SHALL SATISFY COUNCIL'S "REQUIREMENTS FOR OCCUPANCY OF ROAD RESERVE". CONTACT COGG TRAFFIC MANAGEMENT OFFICER ON TELEPHONE (03) 5227 0384 FOR FURTHER SPECIFIC DETAILS RELATING TO THIS PROJECT. A COPY OF THE TRAFFIC MANAGEMENT PLAN IS TO BE FORWARDED TO THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO WORKS COMMENCING.
- 10 ALL REASONABLE CARE SHALL BE TAKEN BY THE CONTRACTOR TO PRESERVE THE SURVEY PEGS AND ALL BENCHMARKS ARE TO BE CHECKED PRIOR TO THE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY.
- 11 EXISTING SURFACE LEVELS ARE SHOWN THUS: 

- 12 ALL DIMENSIONS ARE IN METRES AND LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).

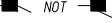



### ROADWORKS:

- 13 SUBSOIL DRAINS ARE TO BE CONSTRUCTED BEHIND THE KERB AND CHANNEL OR AS DIRECTED BY THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 14 WHERE DRAINAGE LINES EXIST BEHIND THE KERB AND CHANNEL SUBSOIL DRAINAGE IS NOT REQUIRED HOWEVER A 1m LENGTH OF SUBSOIL DRAIN INCLUDING FILTER SOCK IS REQUIRED BOTH SIDES OF DRAINAGE PITS.
- 15 ALL FOOTPATHS ARE TO BE A MINIMUM OF 125mm THICK WITH F72 REINFORCEMENT AND BEDDED ON A MINIMUM OF 50mm COMPACTED CLASS 3 FCR WITH THE BEDDING TO EXTEND 100mm BEYOND THE EDGES OF THE PROPOSED FOOTPATH PRIOR TO THE PLACEMENT OF THE TIMBERS AND BOARDS. CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT 12.5m INTERVALS IN ACCORDANCE WITH COGG STANDARD DRAWINGS.
- 16 WHERE FILLING IS REQUIRED UNDER THE FOOTPATH BEDDING MATERIAL THEN CLASS 4 FCR IS TO BE USED UNLESS OTHERWISE APPROVED BY THE COGG SUBDIVISIONS ENGINEER.
- 17 CONCRETE FOR KERB AND CHANNEL USED IN EXTRUSION MACHINES SHALL HAVE A MINIMUM CEMENT CONTENT OF 280 kg/m<sup>3</sup>.
- 18 CONCRETE FOR STORMWATER PITS IS TO HAVE A MINIMUM STRENGTH OF 32Mpa AT 28 DAYS.
- 19 CONCRETE FOR ALL OTHER APPLICATIONS IS TO HAVE A MINIMUM STRENGTH OF 25Mpa AT 28 DAYS.
- 20 TO ALLOW FOR A CONTINUOUS CONCRETE KERB AND CHANNEL POUR THE STORMWATER PIT CONCRETE SURROUND IS TO BE IN PLACE PRIOR TO THE POUR COMMENCING. IF THE PIT SURROUNDS ARE NOT IN PLACE THEN THE INITIAL KERB AND CHANNEL POUR IS TO STOP ONE (1) METRE EITHER SIDE OF EVERY PIT.
- 21 CLAY SURFACES, INCLUDING NATURE STRIPS, EXPOSED DUE TO CUT AND FILL ARE TO BE COVERED WITH 100mm OF THE BEST APPROVED TOPSOIL MATERIAL AVAILABLE FROM SITE.
- 22 ALL FILLING PLACED IS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007. PRIOR TO ANY FILLING ON LOTS ALL TOPSOIL IS TO BE REMOVED AND STOCKPILED. THE FILL MUST BE APPROVED AND CONSOLIDATED IN 150mm COMPACTED LAYERS TO A DRY DENSITY OF 95% STANDARD COMPACTION. THE TOPSOIL IS THEN TO BE UNIFORMLY REPLACED TO A COMPACTED DEPTH OF 100mm. COMPACTION TESTING WILL BE REQUIRED AT THE DISCRETION OF THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 23 ALLOTMENTS SHALL BE GRADED TO AN EVEN SURFACE AT THE COMPLETION OF ALL WORKS AND SHALL HAVE A MINIMUM GRADE OF 1 IN 100 TO THEIR NOMINATED DRAINAGE CONNECTION POINTS. ALL SURPLUS SPOIL, BOXTHORN, FENCING, CONSTRUCTION WASTE AND OTHER RUBBISH SHALL BE REMOVED FROM SITE AT THE COMPLETION OF WORKS.
- 24 BATTER SLOPES ON LOTS SHALL BE A MAXIMUM OF 1 IN 5 FOR FILL AND 1 IN 3 FOR CUT UNLESS OTHERWISE SHOWN.
- 25 AS PART OF CIVIL WORKS, ROUNDED-TOPPED TREATED PINE BOLLARDS (0.6m HIGH) ARE TO BE PLACED ACROSS THE FRONTAGE OF RESERVE 1 AT 15m CENTRES WITH A LOCKED/REMOVABLE BOLLARD CENTRAL TO THE PATH FOR MAINTENANCE ACCESS (REFER TO COUNCIL STANDARD DRAWING CCG701).
- 26 STREET SIGNS ARE TO BE LOCATED AS INDICATED ON THE PLANS AND INSTALLED IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2. MOUNTING HEIGHT IS TO BE TO THE UNDERSIDE OF THE SIGN AND IS TO BE A MINIMUM OF 2.1m AND MAXIMUM OF 3.0m.
- 27 'NO THROUGH ROAD' SIGN IS TO BE INSTALLED BELOW THE STREET SIGN WHERE APPLICABLE.
- 28 ALL REINFORCEMENT USED IN CONCRETE WORKS FOR FOOTPATH DRIVEWAYS AND ROADS IS TO BE ADEQUATELY SUPPORTED BY APPROPRIATE SIZED BAR CHAIRS PRIOR TO THE POURING/PLACEMENT OF CONCRETE.
- 29 GAS CONDUITS ARE 50mm HEAVY DUTY PVC AND ARE TO EXTEND FROM THE POINT OF SUPPLY TO AT LEAST 500mm BEYOND THE PROPERTY BOUNDARY.
- 30 AT THE TERMINATION OF STAGED PAVEMENT CONSTRUCTION, A CONCRETE EDGE STRIP 200mm X 200mm AND SUBSOIL DRAIN IS TO BE INSTALLED ACROSS THE WIDTH OF THE PAVEMENT AND A 'NO THROUGH ROAD' AND CHEVRON MARKER SIGNS ARE TO BE INSTALLED ACROSS THE FULL WIDTH OF THE ROAD RESERVE. APPROPRIATE RETAINING WALLS AND FENCING IS TO BE PROVIDED AS DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.

- 31 WHERE LINE MARKING NEEDS TO BE REMOVED, THESE LINES ARE TO BE PERMANENTLY REMOVED EITHER BY GRINDING THE OLD LINES OFF OR BY PLACING A SEAL AND GRIT TREATMENT (USING THE 'FLOCON' SYSTEM) OVER THE UNWANTED LINES.

- 32 LOT NUMBERS SHALL BE STENCILLED IN 50mm HIGH FIGURES WITH WHITE PAINT ON THE FACE OF THE KERB AND CHANNEL.


### DRAINAGE:

- 33 PIPE DRAINAGE WITHIN ROADWAYS TO BE REINFORCED CONCRETE PIPES - CLASS 2 UNLESS OTHERWISE SHOWN.
- 34 ALL REINFORCED CONCRETE PIPES ARE TO BE RUBBER RING JOINTED.
- 35 PIPES IN EASEMENTS ARE TO BE RUBBER RING JOINTED OR UPVC SEWER CLASS (SH UPVC UP TO 3.0m DEPTH OR SEH UPVC GREATER THAN 3.0m DEPTH) PIPES WITH SOLVENT CEMENT JOINTS. TRENCHES ARE TO BE BACKFILLED WITH COMPACTED CLAY UNLESS OTHERWISE SHOWN.
- 36 ALL DRAINAGE PITS IN COUNCIL ROAD RESERVES, DRAINAGE RESERVES AND RECREATION RESERVES ARE TO HAVE LIDS THAT ARE, AT LEAST CLASS D (HEAVY DUTY) IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3996.
- 37 ALL PITS ARE TO BE SET OUT FROM SURVEY CO-ORDINATES USING SET OUT POINTS DETAILED IN THE COGG STANDARD DRAWINGS.
- 38 ALL PIPES UNDER ROADS, FOOTPATHS, DRIVEWAYS AND BEHIND BACK OF KERB SHALL BE BACKFILLED WITH 20mm NOMINAL SIZE CLASS 3 FCR (WETMIX) COMPACTED TO 95% MODIFIED COMPACTION IN 150mm MAXIMUM LAYERS.
- 39 PIPE BEDDING UNDER ROAD PAVEMENTS FROM THE BOTTOM OF PIPE TO THE SPRINGLINE IS TO BE 2% STABILIZED SAND. CLASS 3 FCR IS TO BE PLACED FROM THE SPRINGLINE TO SUBBASE MATERIAL.
- 40 PIPEWORK AT ALL PITS TO BE WELL ALIGNED TO ENSURE FLOW IS GUIDED TO OUTLET PIPE eg.  NOT 
- 41 ALL PIPELINES ARE TO BE INSPECTED VIA REMOTE CAMERA PRIOR TO THE ISSUANCE OF A STATEMENT OF COMPLIANCE AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 42 PROPERTY INLET PITS ARE SHOWN THUS:  AND ARE TO BE LOCATED 1m FROM THE LOW CORNER UNLESS OTHERWISE SHOWN.
- 43 LOTS DENOTED THUS:  ARE TO BE PROVIDED WITH A 100mm DIAMETER CLASS 6 PVC SOCKETED PIPE HOUSE DRAIN LOCATED 6.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN AND SHALL BE CONNECTED DIRECTLY TO UNDERGROUND DRAINS WHERE AVAILABLE.
- 44 HOUSE DRAINS ARE TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE AT THE LOT BOUNDARY UNLESS OTHERWISE SHOWN.
- 45 EASEMENT DRAIN CONNECTION TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE UNLESS OTHERWISE SHOWN.
- 46 WHEN USING 150mm DIAMETER UPVC PIPES ALL HOUSE DRAINS ARE TO BE CONNECTED USING STANDARD T-PIECE FITTINGS.
- 47 WHEN USING 225mm DIAMETER OR LARGER UPVC PIPES, HOUSE DRAINS ARE TO BE CONNECTED IN A SIMILAR WAY TO CONCRETE PIPES SUBJECT TO THE INLET BEING CORE DRILLED.
- 48 WATER AND GAS SERVICE CONDUITS SHALL BE LOCATED CLEAT OF ALL DRIVEWAY CROSSINGS AND SHALL EXTEND FROM THE POINT OF SUPPLY TO AT LEAST 500mm INSIDE THE HOUSE LOT TO BE SERVICED AND LEFT EXPOSED UNTIL INSPECTED BY COGG SUBDIVISIONS ENGINEER. WATER CONDUITS ARE TO BE LOCATED AT LEAST 5m FROM SIDE BOUNDARY, WHEREAS GAS CONDUITS ARE TO BE LOCATED 2m FROM "NON-DRIVEWAY" SIDE BOUNDARY OF LOT TO BE SERVICED. CONDUIT TRENCHES ARE TO BE BACKFILLED WITH CLASS 3 FCR.
- 49 THE LOCATION OF HOUSE DRAINS (H) AND SERVICE CONDUITS (W, G, T AND E) ARE TO BE NEATLY ETCHED ON THE KERB FACE WITH 50mm HIGH LETTERS.
- 50 IN ROAD RESERVE EXISTING OPEN DRAINS ARE TO BE CLEANED OUT TO AND APPROVED BASE AND ANY SPOIL IS TO BE REMOVED FROM THE SITE. STRUCTURAL FILL (CLASS 4 MINIMUM) IS TO BE PLACED IN NOT MORE THAN 150mm LAYERS AND COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION. COMPACTION TESTS ARE TO BE PROVIDED TO THE SATISFACTION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 51 WHERE DRAINAGE PITS ARE LESS THAN 1200mm DEEP NO HAUNCHING IS REQUIRED (REFER TO SD00302). WHERE DRAINAGE PITS ARE GREATER THAN 1200mm DEEP THEY WILL REQUIRE HAUNCHING TO FORM 900mm MIN WIDE BASE (REFER SD00301). IN THIS INSTANCE PARTICULAR NOTE OF WALL THICKNESSES IS TO BE MADE AND ADHERED TO.

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2	FACEPLAN AND SERVICES SCHEDULE.
3	FACEPLAN AND SERVICES SCHEDULE.
4	JANELLE WAY LONGITUDINAL SECTION (CH00-CH216.84)
5	JANELLE WAY LONGITUDINAL SECTION (CH216.84-CH497.74)
6	JANELLE WAY CROSS SECTIONS (CH00-CH171.84)
7	JANELLE WAY CROSS SECTIONS (CH171.84-CH290.00)
8	JANELLE WAY CROSS SECTIONS (CH307.56-CH468.96)
9	MOWBRAY DRIVE (5TH OF JANELLE WAY) LONG SECTION & CROSS SECTIONS.
10	MOWBRAY DRIVE (INTH OF JANELLE WAY) LONG SECTION & CROSS SECTIONS.

SHEET No.	DESCRIPTION
11	WOODCREST DRIVE LONGITUDINAL SECTION AND CROSS SECTIONS.
12	JANELLE WAY / WOODCREST DRIVE INTERSECTION DETAIL - (1:25)
13	JANELLE WAY / MOWBRAY DRIVE ROUNDABOUT DETAIL (1:25).
14	DRAINAGE LONGITUDINAL SECTION ('A7'-'A7' LINE).
15	DRAINAGE LONGITUDINAL SECTIONS ('A2'-'A7' & 'D' LINE).
16	DRAINAGE LONGITUDINAL SECTION ('B' LINE).
17	DRAINAGE LONGITUDINAL SECTION ('C' & 'E' LINES).
18	DRAINAGE LONGITUDINAL SECTIONS ('F'-'L' LINES INCLUSIVE).
19	DRAINAGE LONGITUDINAL SECTIONS ('M'-'O' LINES) INCL. & PIT SCHEDULE.

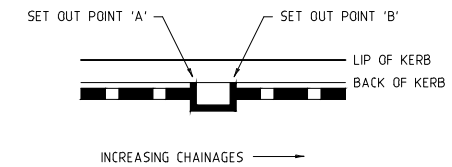
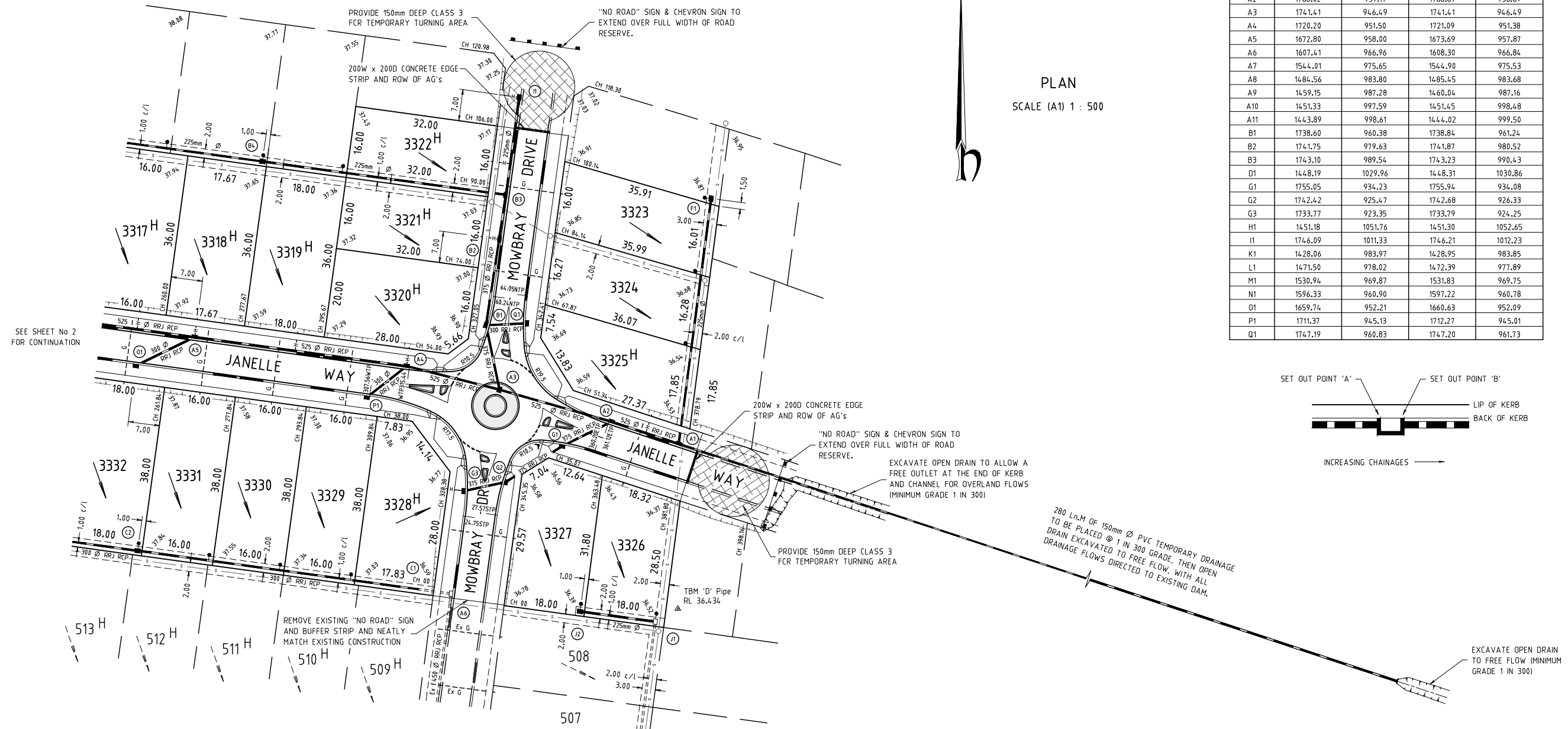
AMENDMENTS			 <b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799			
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			SURVEYED		GREATER GEELONG		
			DESIGNED P.J.B		REFERENCE		
			DRAWN C.S.		0211 E/33		
			CHECKED	SCALE AS SHOWN	DATUM AHD	DATE SEPT '16	SHEET 1 OF 19



PIT SETOUT SCHEDULE

PIT No	POINT 'A' E	POINT 'A' N	POINT 'B' E	POINT 'B' N
A1	1781.00	934.25	1781.85	933.96
A2	1766.02	939.17	1766.87	938.89
A3	1741.41	946.49	1741.41	946.49
A4	1720.20	951.50	1721.09	951.38
A5	1672.80	958.00	1673.69	957.87
A6	1607.41	966.96	1608.30	966.84
A7	1544.01	975.65	1544.90	975.53
A8	1484.56	983.80	1485.45	983.68
A9	1459.15	987.28	1460.04	987.16
A10	1451.33	997.59	1451.45	998.48
A11	1443.89	998.61	1444.02	999.50
B1	1738.60	960.38	1738.84	961.24
B2	1741.75	979.63	1741.87	980.52
B3	1743.10	989.54	1743.23	990.43
D1	1448.19	1029.96	1448.31	1030.86
G1	1755.05	934.23	1755.94	934.08
G2	1742.42	925.47	1742.68	926.33
G3	1733.77	923.35	1733.79	924.25
H1	1451.18	1051.76	1451.30	1052.65
I1	1746.09	1011.33	1746.21	1012.23
K1	1428.06	983.97	1428.95	983.85
L1	1471.50	978.02	1472.39	977.89
M1	1530.94	969.87	1531.83	969.75
N1	1596.33	960.90	1597.22	960.78
O1	1659.74	952.21	1660.63	952.09
P1	1711.37	945.13	1712.27	945.01
Q1	1747.19	960.83	1747.20	961.73

PLAN  
SCALE (A1) 1 : 500



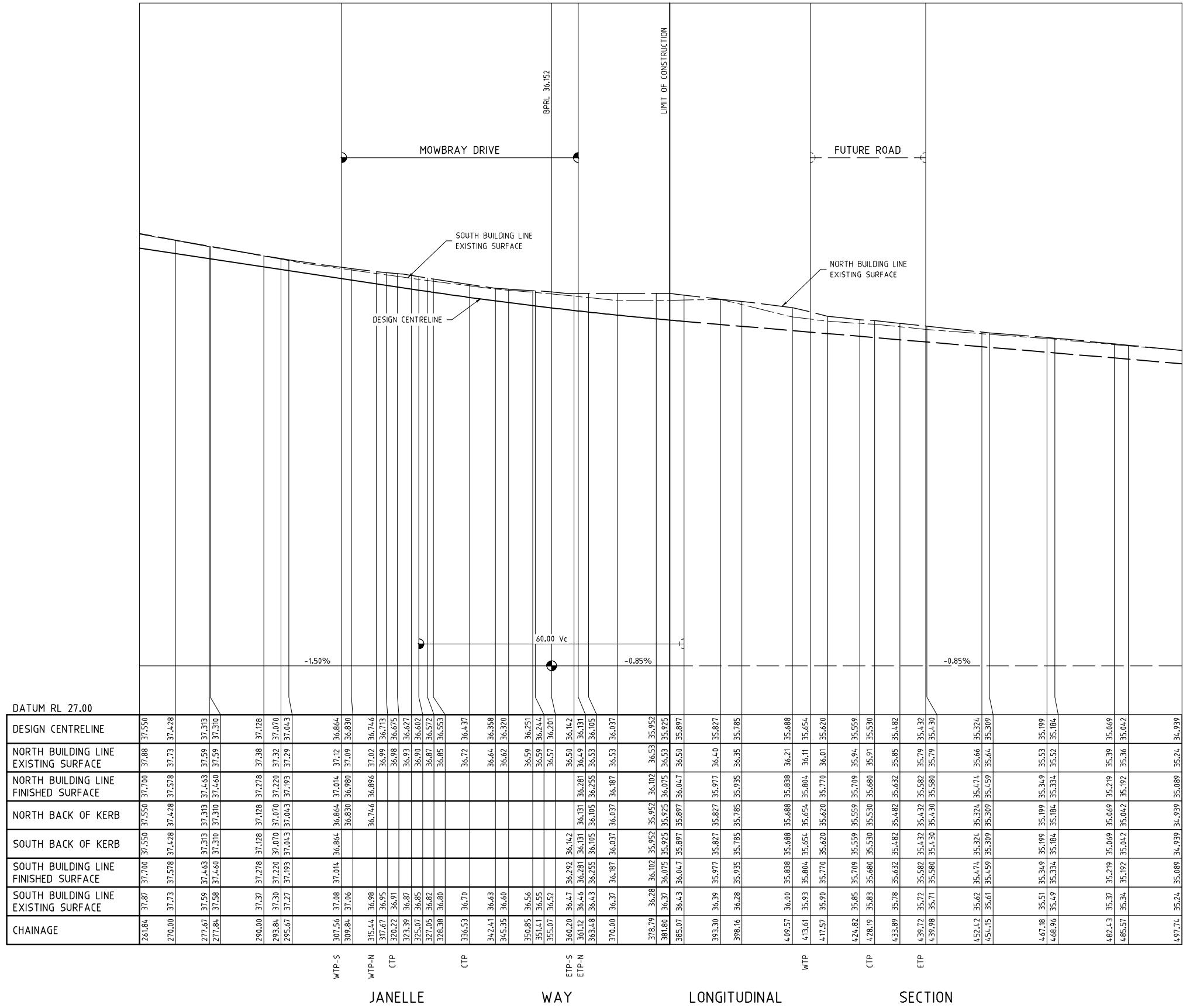
SEE SHEET No 2 FOR CONTINUATION

SERVICES LOCATION SCHEDULE

STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
JANELLE WAY	1.90 S	2.10 N	2.70 N	2.50 S	4.25
MOWBRAY DRIVE	1.90 E	2.10 W	2.70 W	2.50 E	4.25

AMENDMENTS	31.05.17	VERSION E (ADVISED FINAL DRIVEWAY LOCATIONS)	<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MUNICIPALITY GREATER GEELONG REFERENCE 0211 E/33 SHEET 3 OF 19
	21.02.17	VERSION D (DRIVEWAY CHANGE LOTS 3318, 3321)		
	20.01.17	VERSION C (DRIVEWAY CHANGE LOTS 3319, 3331)		
	22.11.16	VERSION B		
DATE	DESCRIPTION		MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 33
1:500			SURVEYED	
A1			DESIGNED P.J.B	
			DRAWN C.S.	
			CHECKED	SCALE AS SHOWN DATUM AHD DATE SEPT '16

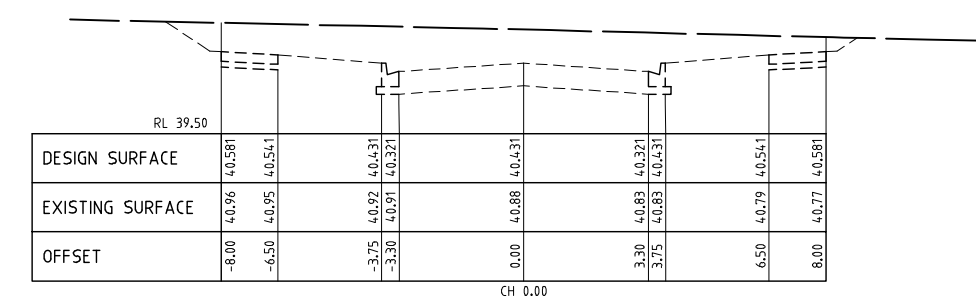
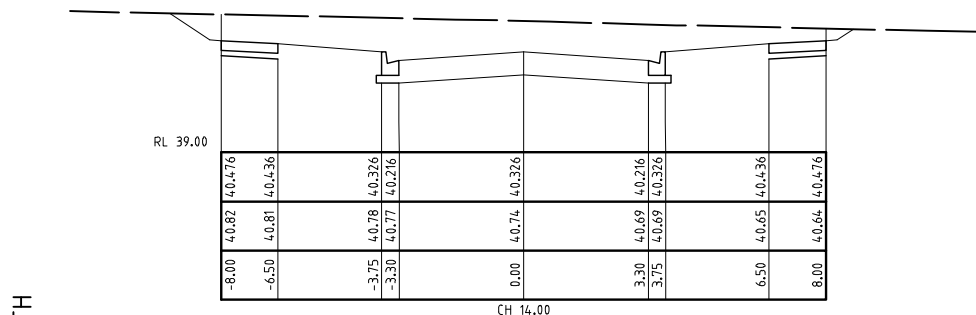
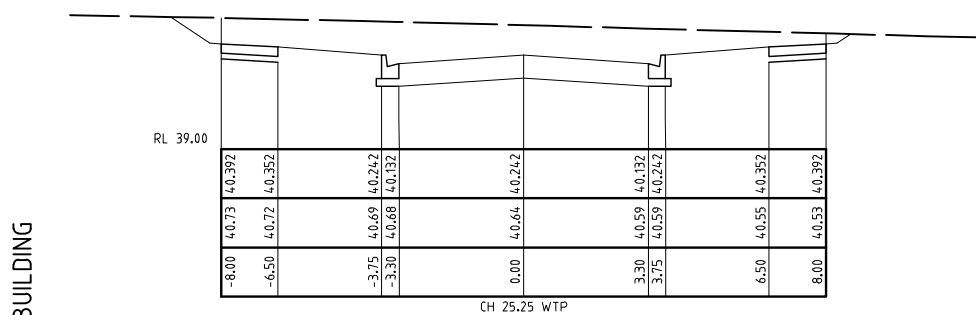
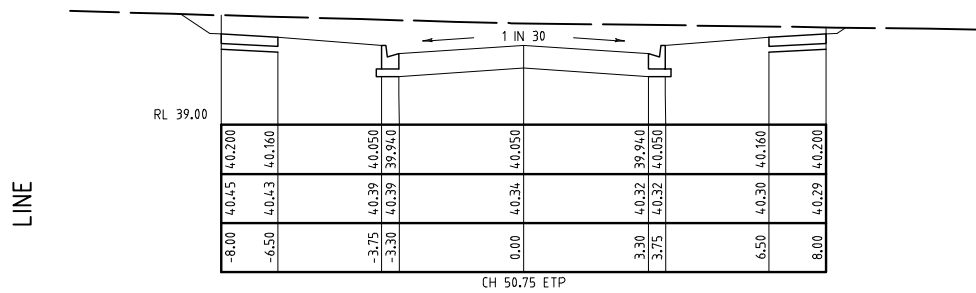




JANELLE WAY LONGITUDINAL SECTION

SCALES - HORIZ. 1 : 500  
VERT. 1 : 50

<b>A1</b>	AMENDMENTS	<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799
	DATE	DESCRIPTION	MELWAY REF.	MUNICIPALITY
	22.11.16	VERSION B		GREATER GEELONG
			DESIGNED P.J.B	REFERENCE
		DRAWN C.S.	<b>KINGSTON DOWNS ESTATE STAGE 33</b>	
		CHECKED		
			SCALE AS SHOWN	DATUM AHD
			DATE SEPT '16	SHEET 5 OF 19



JANELLE WAY CROSS SECTIONS

SCALES - HORIZ. 1 : 100  
VERT. 1 : 50

- PAVEMENT TO CONSIST OF:
- a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT
  - b) PRIME AS SPECIFIED
  - c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR
  - d) 170mm COMPACTED DEPTH 20mm CLASS 3 FCR

LINE

BUILDING

SOUTH

LINE

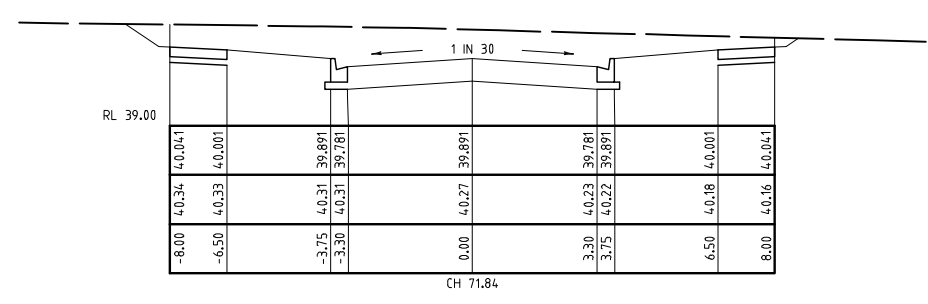
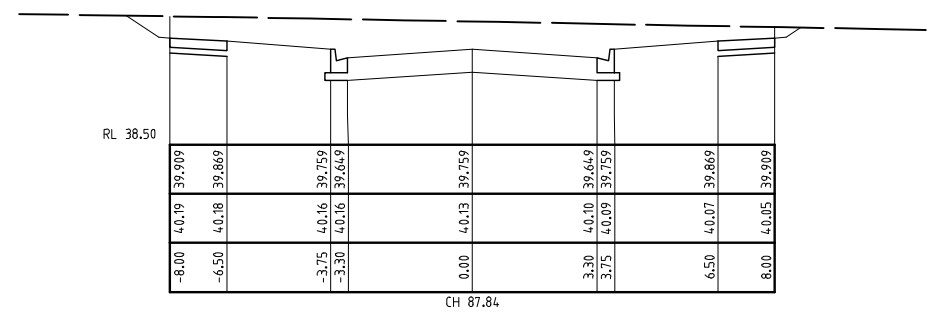
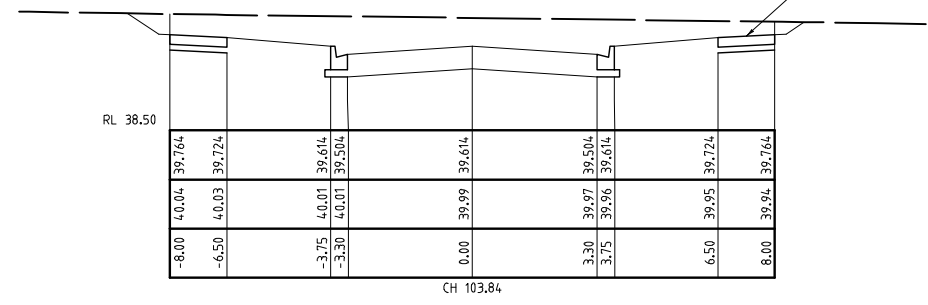
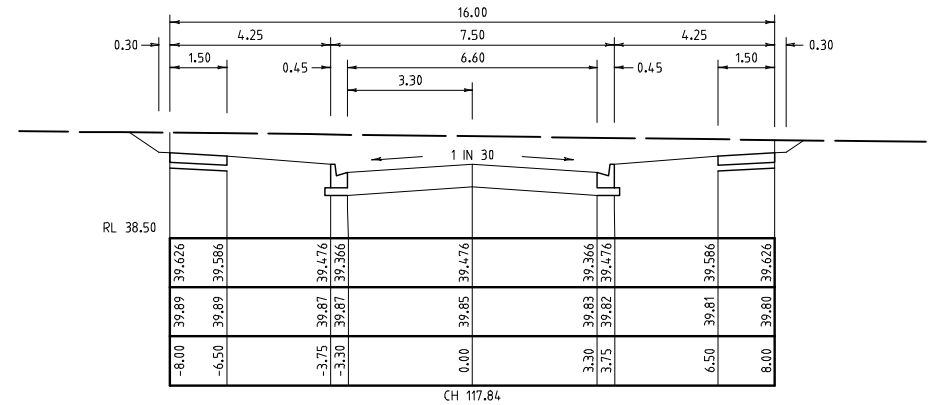
BUILDING

NORTH

LINE

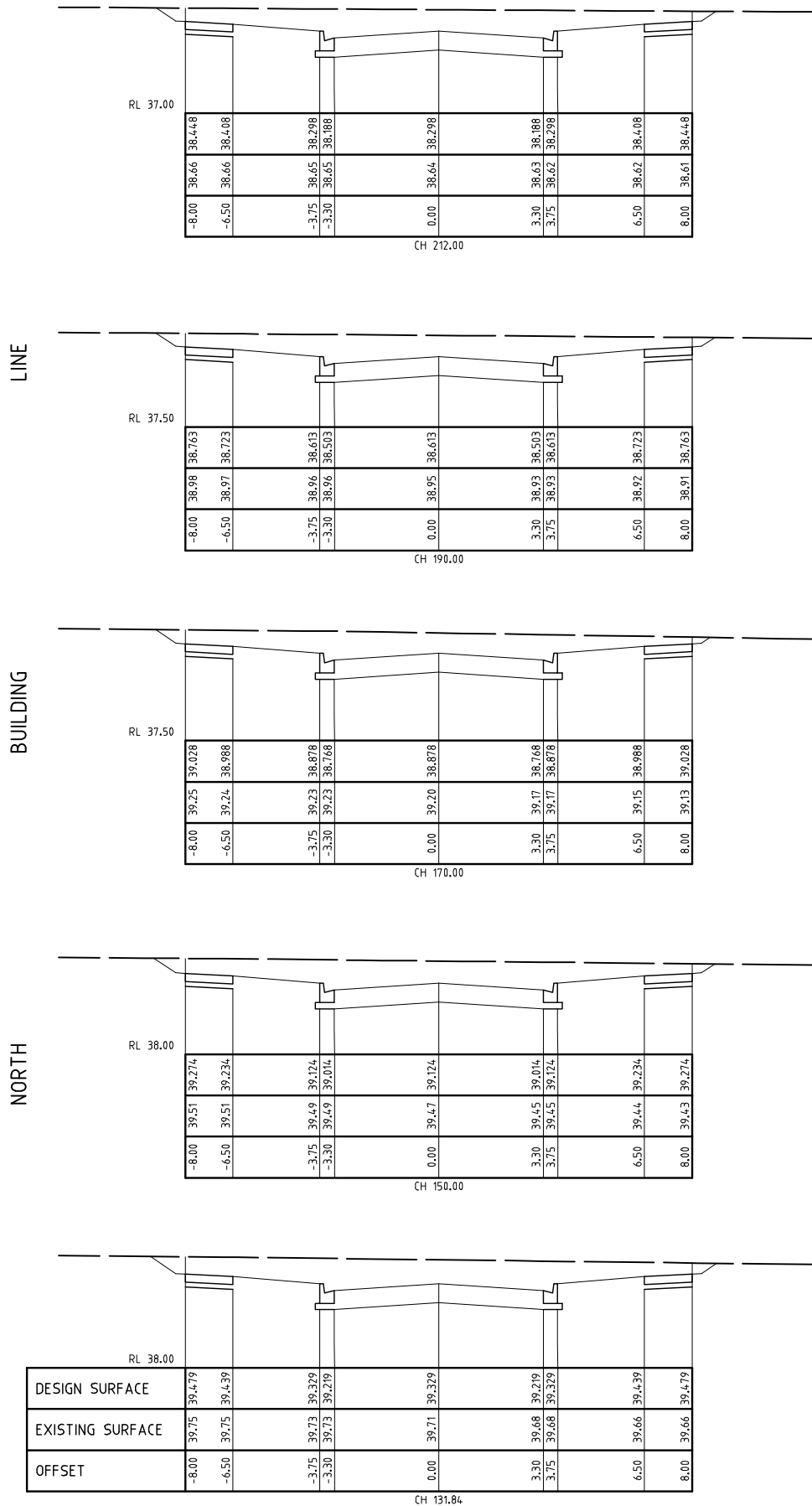
BUILDING

SOUTH



125mm F12 RC FOOTPATH ON  
50mm COMPACTED DEPTH  
20mm FCR BEDDING

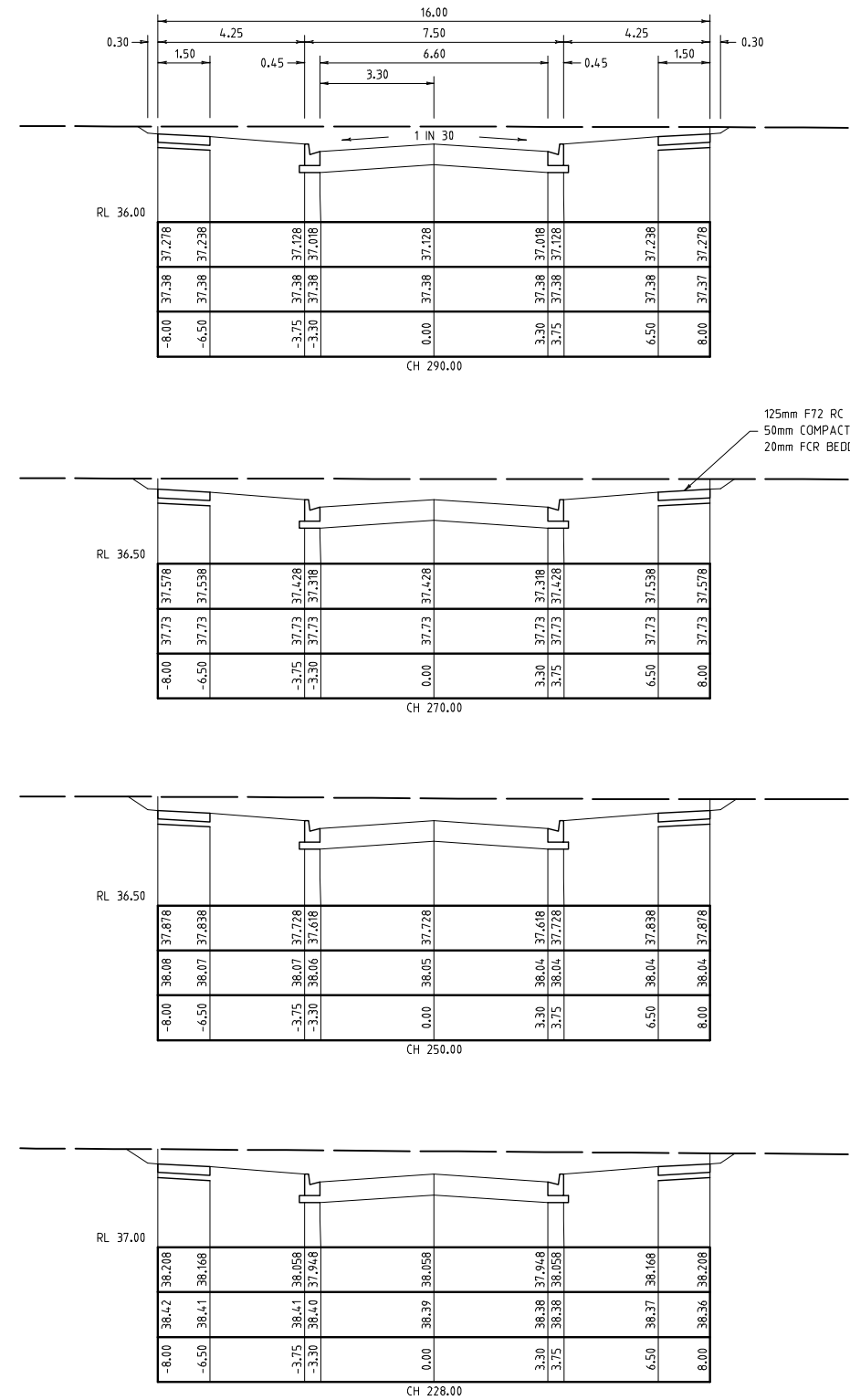
AMENDMENTS		<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799				
	22.11.16		VERSION B	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 33		
	DATE		DESCRIPTION	SURVEYED			
	DESIGNED		P.J.B	DESIGNED			
A1	1: 100	1: 50		DRAWN	C.S.	SCALE AS SHOWN DATUM AHD DATE SEPT '16	MUNICIPALITY GREATER GEELONG REFERENCE 0211 E/33 SHEET 6 OF 19

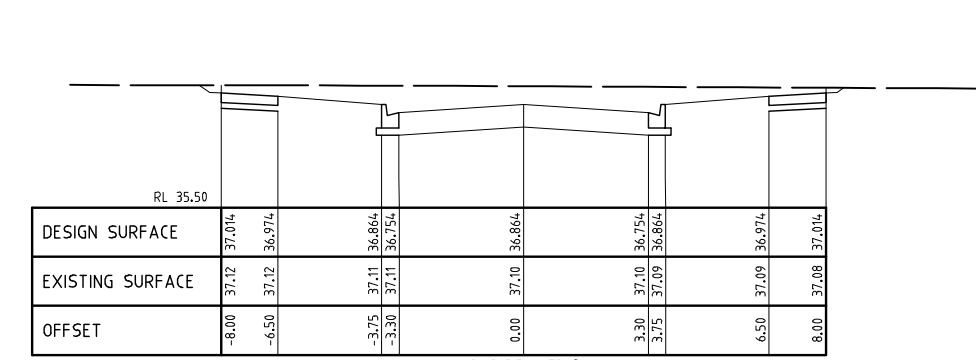
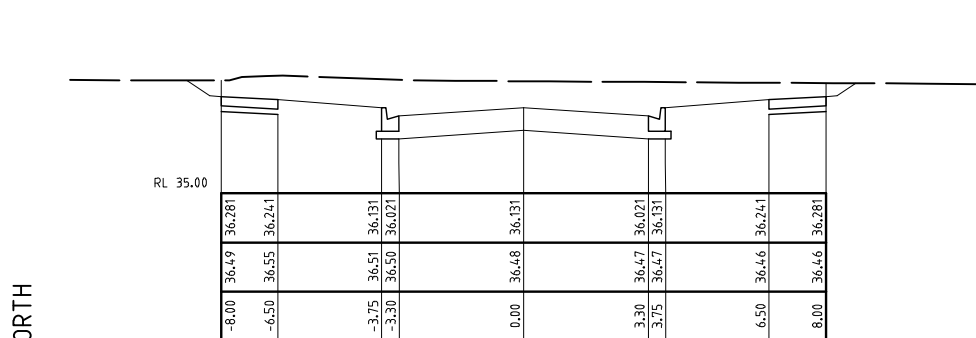
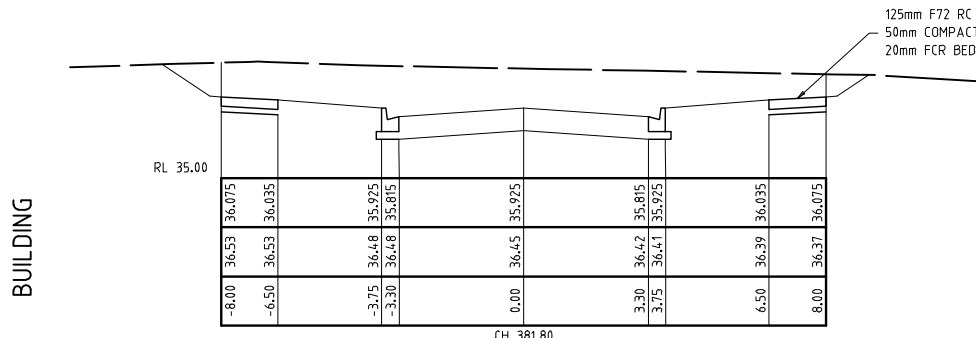
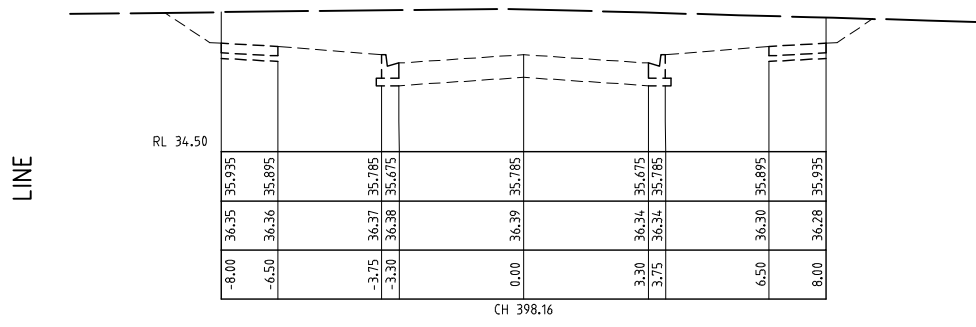


JANELLE WAY CROSS SECTIONS  
 SCALES - HORIZ. 1 : 100  
 VERT. 1 : 50

PAVEMENT TO CONSIST OF:  
 a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT  
 b) PRIME AS SPECIFIED  
 c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR  
 d) 170mm COMPACTED DEPTH 20mm CLASS 3 FCR

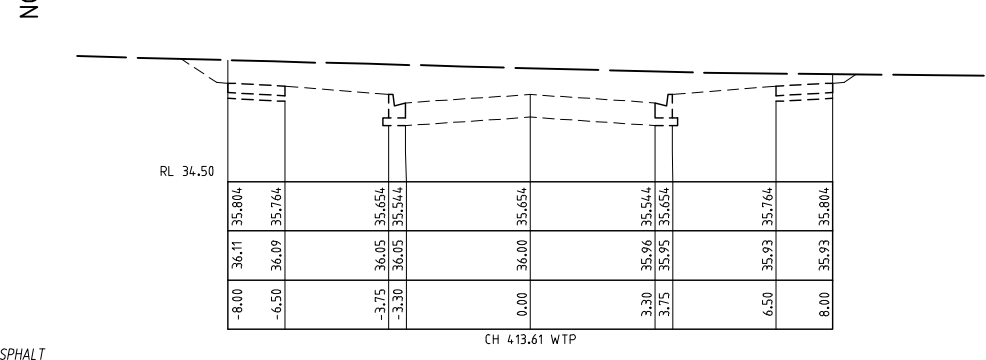
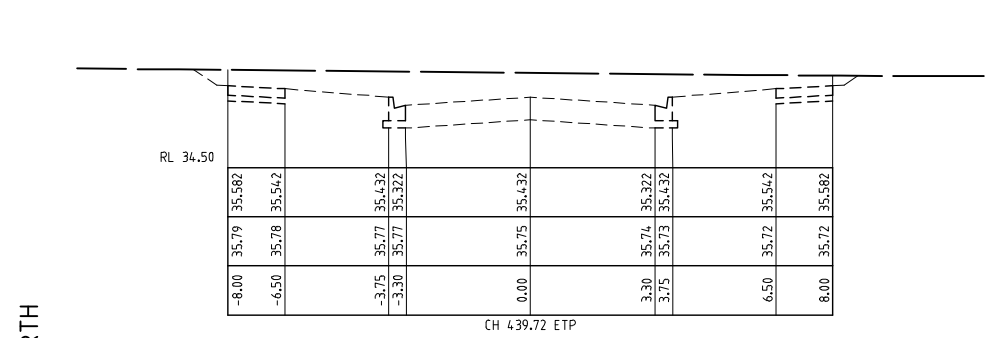
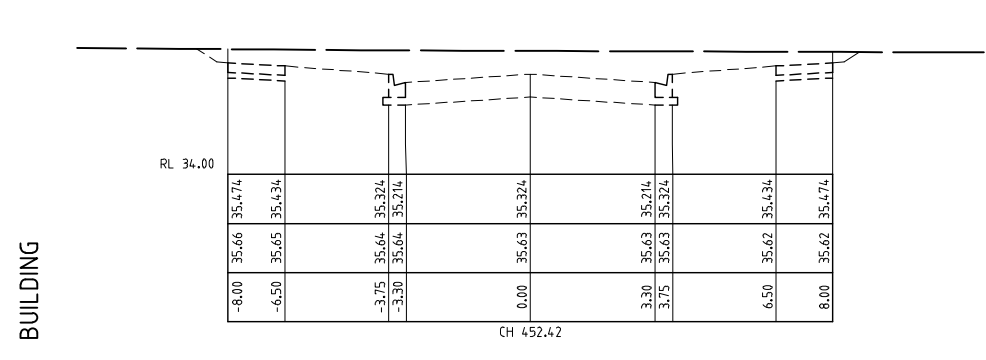
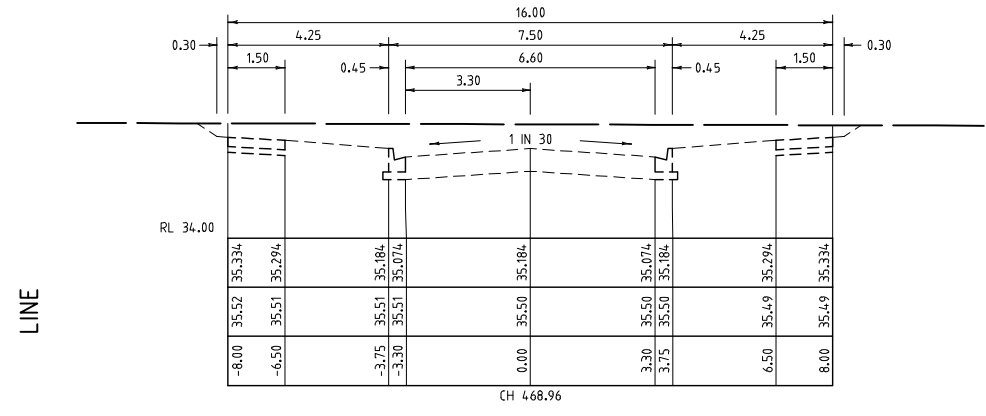
<b>AMENDMENTS</b> 22.11.16 VERSION B		<b>MELWAY REF.</b> SURVEYED DESIGNED P.J.B DRAWN C.S. CHECKED				153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	
<b>DATE</b> 22.11.16		<b>DESCRIPTION</b> KINGSTON DOWNS ESTATE STAGE 33		<b>MUNICIPALITY</b> GREATER GEELONG		<b>REFERENCE</b> 0211 E/33	
<b>SCALE AS SHOWN</b> 1:100 1 0.5 0 1 2 3 METRES 1:50 1 0.5 0 1 2 3 METRES		<b>DATUM</b> AHD		<b>DATE</b> SEPT '16		<b>SHEET</b> 7 OF 19	





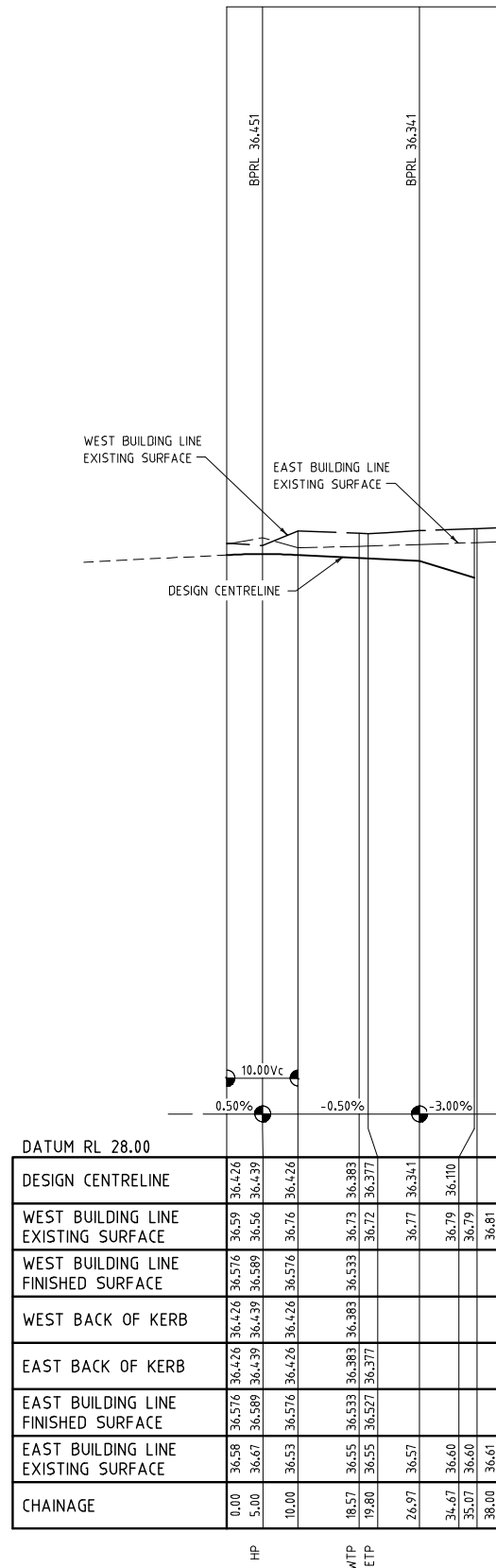
JANELLE WAY CROSS SECTIONS  
 SCALES - HORIZ. 1 : 100  
 VERT. 1 : 50

PAVEMENT TO CONSIST OF:  
 a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT  
 b) PRIME AS SPECIFIED  
 c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR  
 d) 170mm COMPACTED DEPTH 20mm CLASS 3 FCR



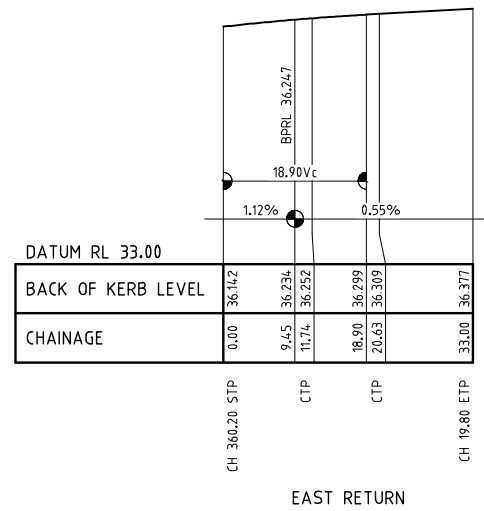
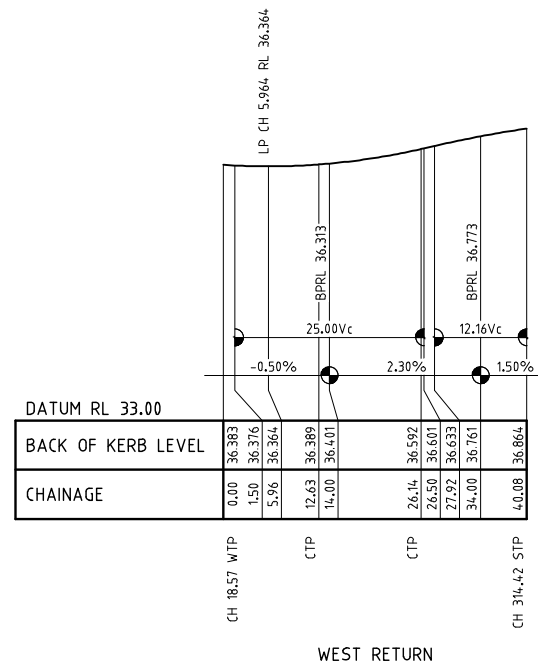
AMENDMENTS			153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
	22.11.16		VERSION B	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 33
	DATE		DESCRIPTION	SURVEYED	MUNICIPALITY GREATER GEELONG
	DESIGNED		P.J.B	DESIGNED	REFERENCE 0211 E/33
A1	1:100 1:50		DRAWN C.S.	SCALE AS SHOWN DATUM AHD DATE SEPT '16 SHEET 8 OF 19	



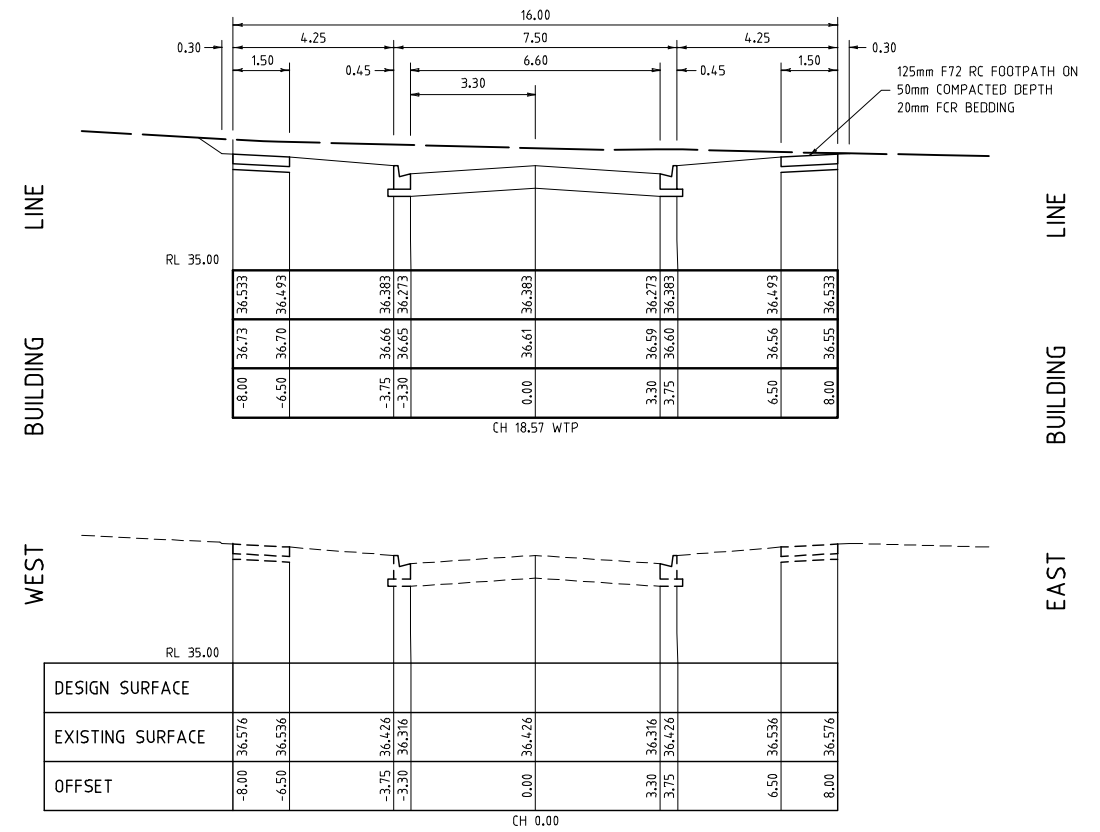


MOWBRAY DRIVE LONGITUDINAL SECTION  
(SOUTH OF JANELLE WAY)

SCALES - HORIZ. 1 : 500  
VERT. 1 : 50



EAST RETURN



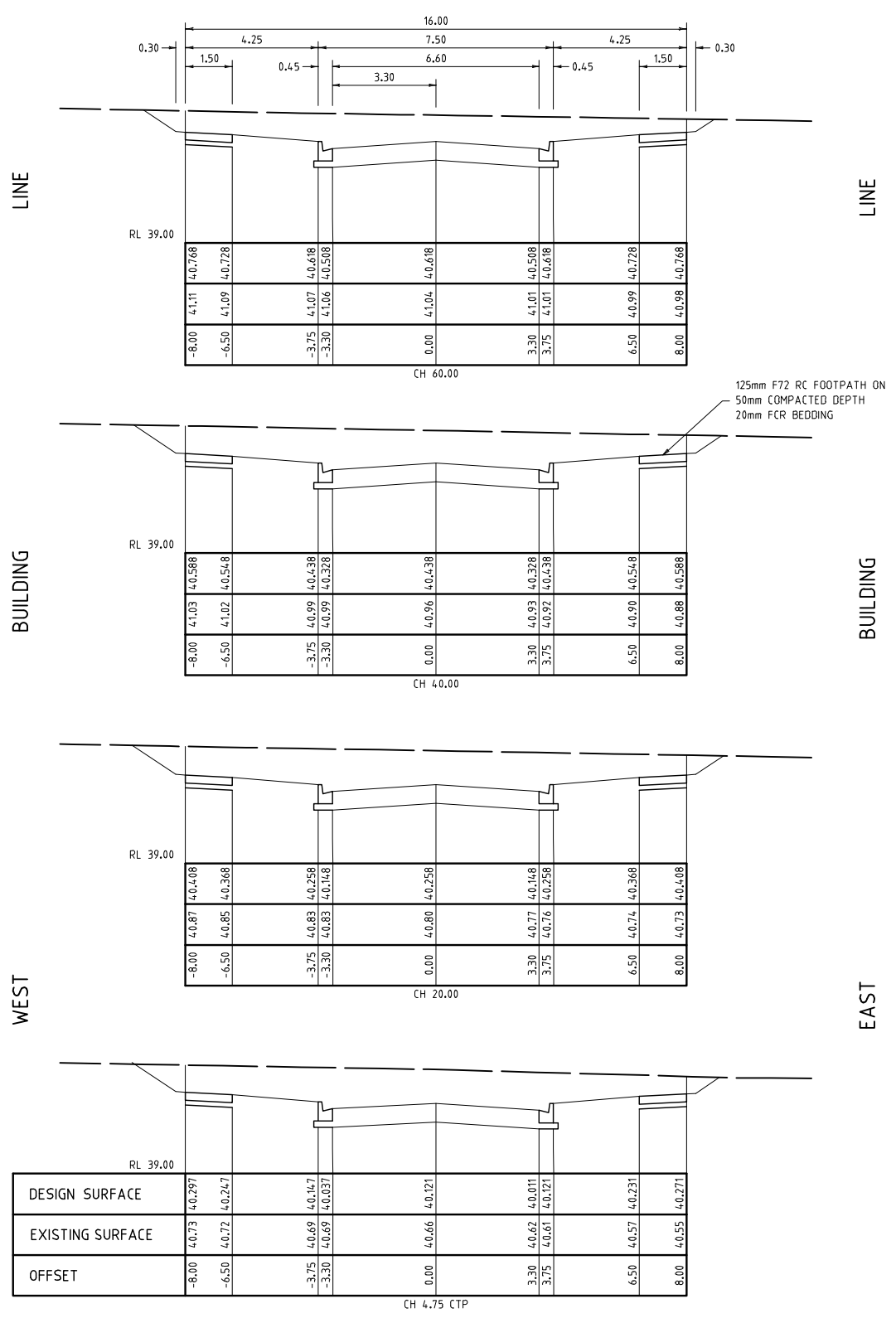
MOWBRAY DRIVE CROSS SECTIONS

SCALES - HORIZ. 1 : 100  
VERT. 1 : 50

- PAVEMENT TO CONSIST OF:
- 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT
  - PRIME AS SPECIFIED
  - 150mm COMPACTED DEPTH 20mm CLASS 2 FCR
  - 170mm COMPACTED DEPTH 20mm CLASS 3 FCR

AMENDMENTS		<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799						
	22.11.16		VERSION B	MELWAY REF.	MUNICIPALITY				
	DATE		DESCRIPTION	SURVEYED	GREATER GEELONG				
	DESIGNED		P.J.B.	KINGSTON DOWNS ESTATE STAGE 33	REFERENCE				
A1	1:100 2 1 0 2 4 6 1:50 1 0.5 0 1 2 3		DRAWN	C.S.	0211 E/33				
		CHECKED	SCALE AS SHOWN	DATUM	AHD	DATE	SEPT '16	SHEET	9 OF 19

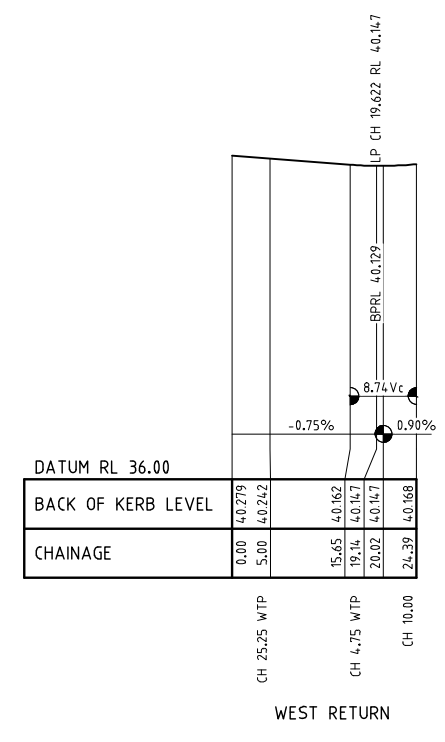




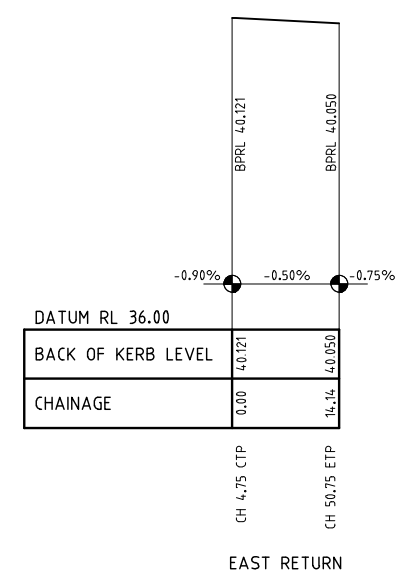
WOODCREST DRIVE CROSS SECTIONS

SCALES - HORIZ. 1 : 100  
VERT. 1 : 50

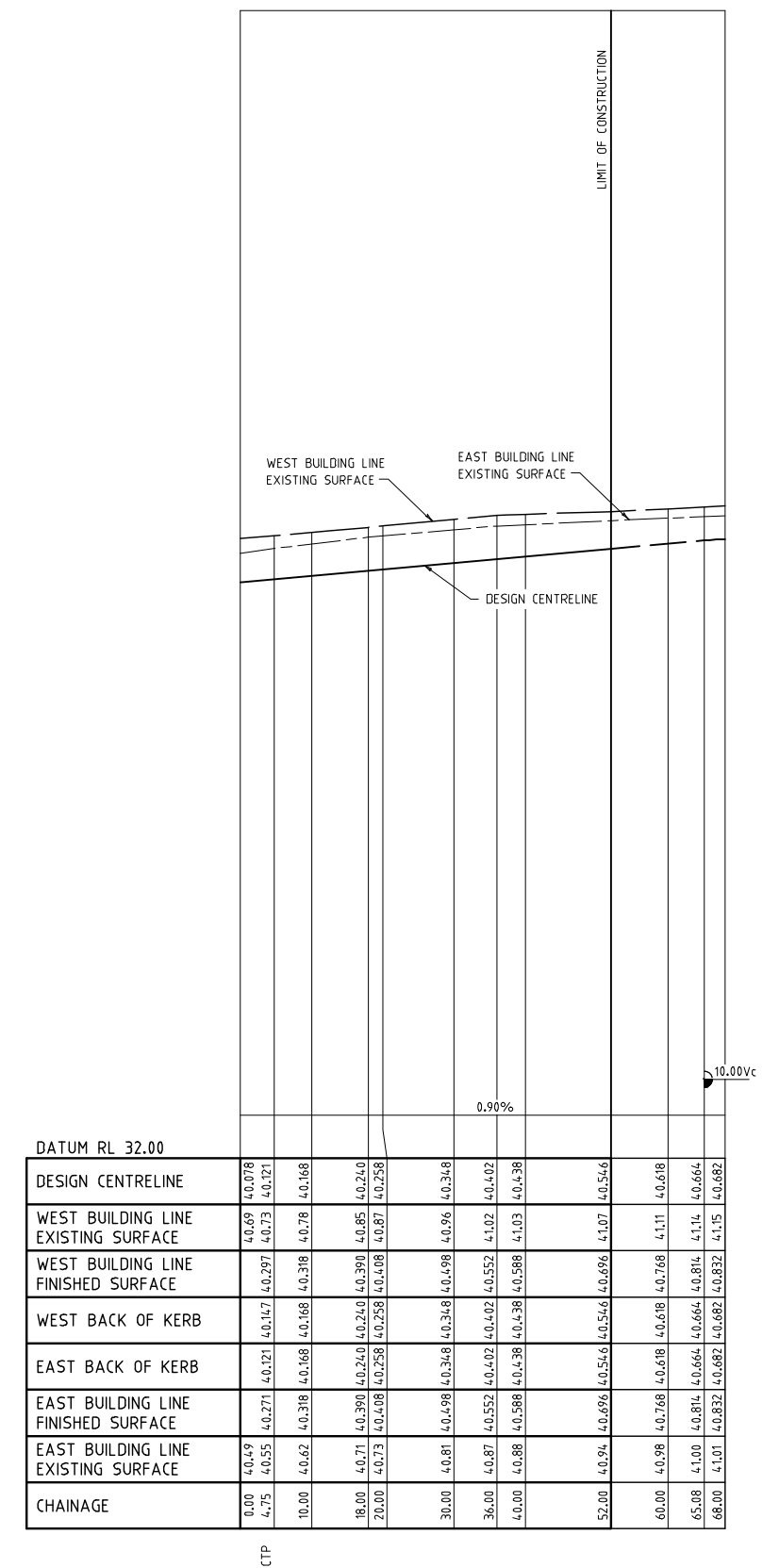
- PAVEMENT TO CONSIST OF:
- a) 30mm COMPACTED DEPTH 10mm TYPE N CLASS 170 ASPHALT
  - b) PRIME AS SPECIFIED
  - c) 150mm COMPACTED DEPTH 20mm CLASS 2 FCR
  - d) 170mm COMPACTED DEPTH 20mm CLASS 3 FCR



WEST RETURN



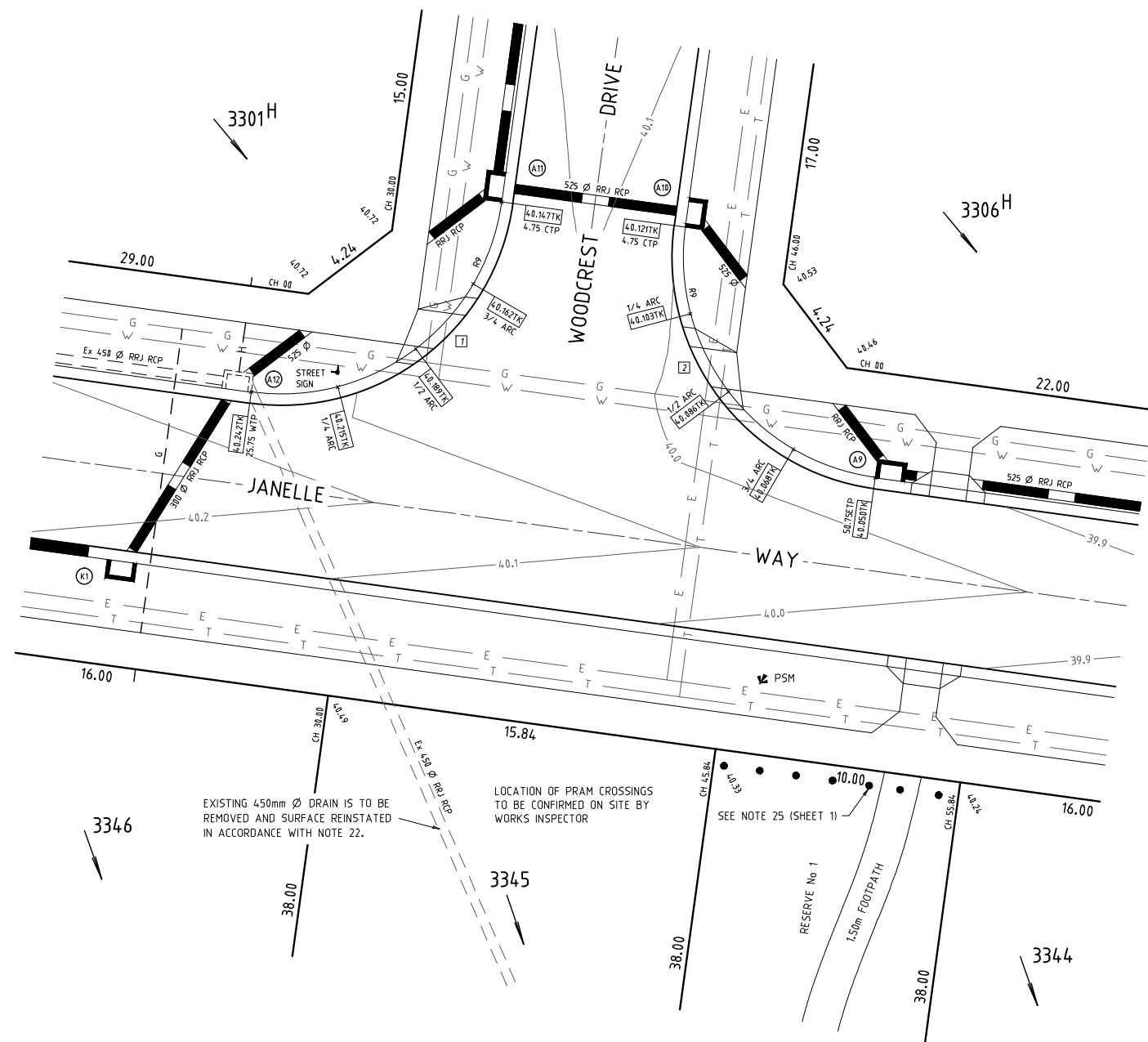
EAST RETURN



WOODCREST DRIVE LONGITUDINAL SECTION

SCALES - HORIZ. 1 : 500  
VERT. 1 : 50

AMENDMENTS		MELWAY REF.		Peter Berry & Associates Pty. Ltd. Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	
22.11.16 VERSION B		SURVEYED		KINGSTON DOWNS ESTATE STAGE 33		MUNICIPALITY GREATER GEELONG	
DATE DESCRIPTION		DESIGNED P.J.B				REFERENCE 0211 E/33	
A1 1:100 2 1 0 2 4 6 1:50 1 0.5 0 1 2 3 METRES		DRAWN C.S.		SCALE AS SHOWN DATUM AHD		DATE SEPT '16 SHEET 11 OF 19	
CHECKED							



INTERSECTION DETAIL  
 SCALE (A1) 1 : 125  
 CONTOUR INTERVAL 0.10 m

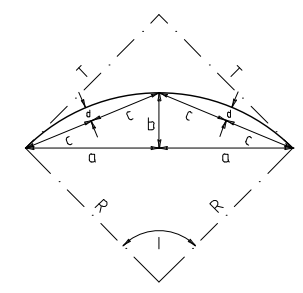
EXISTING 450mm Ø DRAIN IS TO BE REMOVED AND SURFACE REINSTATED IN ACCORDANCE WITH NOTE 22.

LOCATION OF PRAM CROSSINGS TO BE CONFIRMED ON SITE BY WORKS INSPECTOR

CURVE SETOUT TABLE

CURVE	RADIUS (m)	I	T	ARC	a	b	c	d
1	9.00	90°00'01"	9.000	14.137	6.364	2.636	3.444	0.685
2	9.00	89°59'59"	9.000	14.137	6.364	2.636	3.444	0.685

NOTE: ALL CURVE RADII LABELLED THIS - 1 ARE TO BACK OF KERB



CURVE SETOUT DETAIL  
 (NOT TO SCALE)

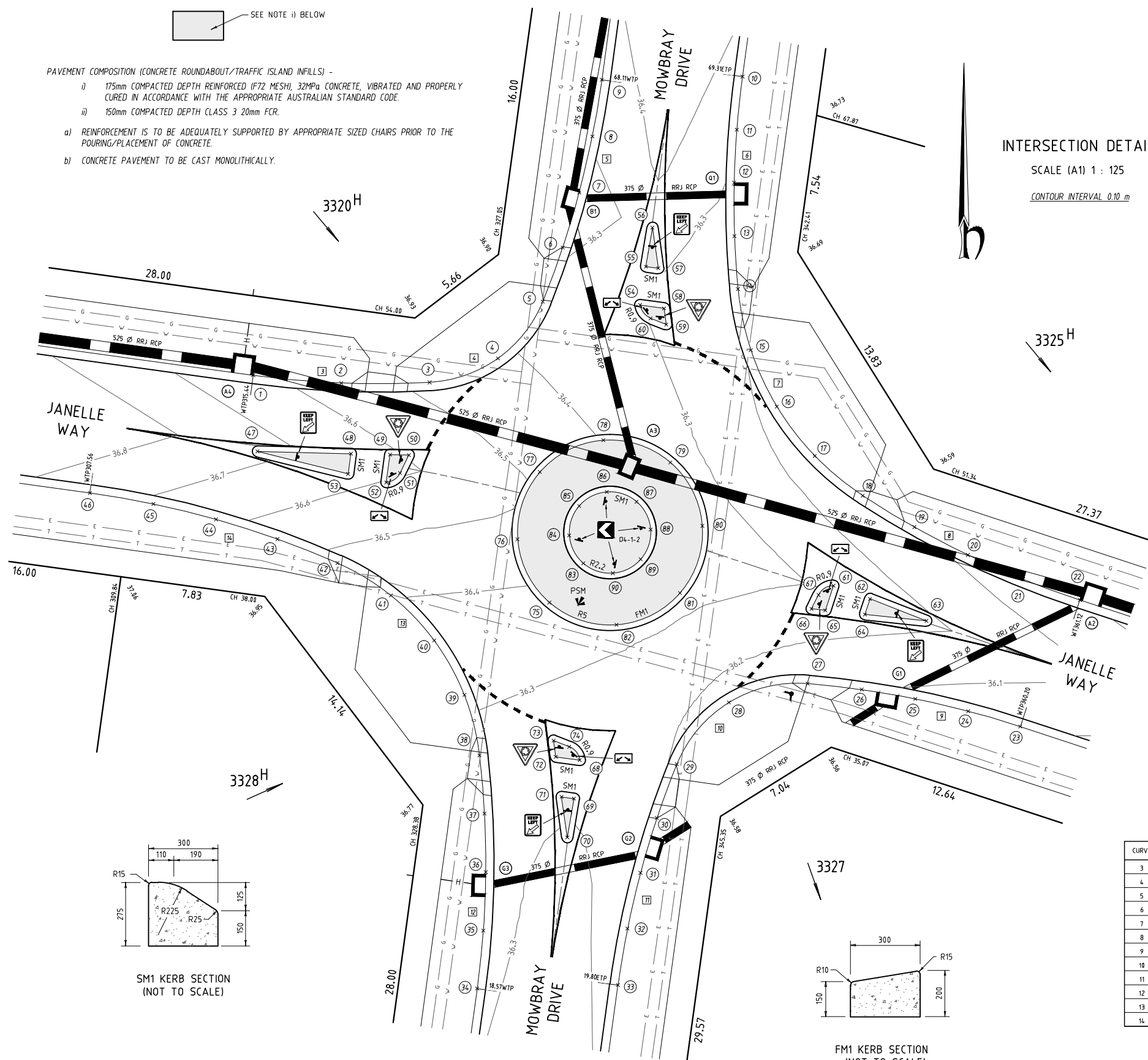
SERVICES LOCATION SCHEDULE

STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
JANELLE WAY	1.90 S	2.10 N	2.70 N	2.50 S	4.25
WOODCREST DRIVE	1.90 E	2.10 W	2.70 W	2.50 E	4.25

AMENDMENTS		<b>PB</b> Peter Berry & Associates Pty. Ltd. Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799							
	22.11.16		VERSION B	MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 33	MUNICIPALITY				
	DATE		DESCRIPTION	DESIGNED		P.J.B	GREATER GEELONG			
				DRAWN		C.S.	REFERENCE			
A1	1:125 2.5 1.25 0 2.5 5 7.5 METRES		CHECKED	SCALE AS SHOWN	DATUM	AHD	DATE	SEPT '16	SHEET	12 OF 19

SEE NOTE i) BELOW

- PAVEMENT COMPOSITION (CONCRETE ROUNDABOUT/TRAFFIC ISLAND INFILLS) -
- i) 175mm COMPACTED DEPTH REINFORCED (F72 MESH), 32MPa CONCRETE, VIBRATED AND PROPERLY CURED IN ACCORDANCE WITH THE APPROPRIATE AUSTRALIAN STANDARD CODE.
  - ii) 150mm COMPACTED DEPTH CLASS 3 20mm FCR.
- a) REINFORCEMENT IS TO BE ADEQUATELY SUPPORTED BY APPROPRIATE SIZED CHAIRS PRIOR TO THE POURING/PLACEMENT OF CONCRETE.
- b) CONCRETE PAVEMENT TO BE CAST MONOLITHICALLY.

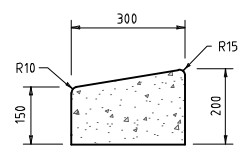
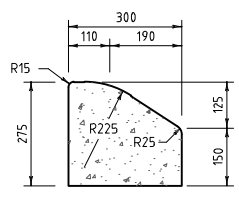
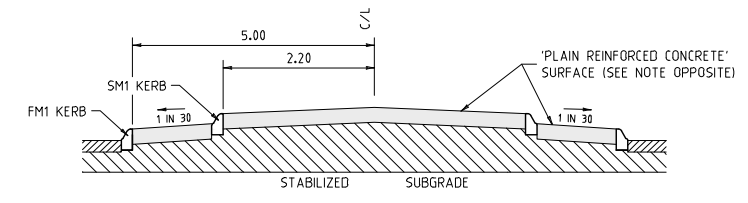


INTERSECTION DETAIL  
SCALE (A1) 1 : 125  
CONTOUR INTERVAL 0.10 m

KERB SETOUT SCHEDULE

POINT No	EASTING	NORTHING	ELEVATION
1	1721.235	951.354	36.746
2	1725.989	950.932	36.672
3	1730.761	950.965	36.594
4	1734.447	952.259	36.527
5	1736.866	955.327	36.460
6	1737.942	958.242	36.423
7	1738.836	961.217	36.411
8	1739.542	964.243	36.424
9	1740.860	967.306	36.461
10	1747.653	967.479	36.474
11	1747.345	964.619	36.442
12	1747.281	961.747	36.410
13	1747.223	958.871	36.377
14	1747.410	956.001	36.347
15	1748.899	952.709	36.317
16	1749.583	949.454	36.292
17	1751.553	946.988	36.271
18	1754.145	944.864	36.252
19	1756.932	943.154	36.229
20	1759.824	941.647	36.201
21	1762.808	940.331	36.168
22	1765.871	939.213	36.131
23	1762.450	932.377	36.142
24	1759.836	933.211	36.173
25	1756.978	933.878	36.202
26	1754.086	934.376	36.229
27	1751.170	934.784	36.252
28	1746.920	933.687	36.283
29	1744.101	930.349	36.309
30	1743.033	927.444	36.326
31	1742.145	924.483	36.343
32	1741.443	921.470	36.360
33	1740.928	918.420	36.377
34	1733.332	918.228	36.383
35	1733.662	921.367	36.369
36	1733.793	924.521	36.365
37	1733.724	927.678	36.372
38	1733.457	930.823	36.389
39	1732.636	934.090	36.421
40	1731.003	937.036	36.465
41	1728.668	939.463	36.523
42	1725.788	941.218	36.592
43	1722.552	942.503	36.672
44	1719.234	943.568	36.744
45	1715.850	944.399	36.888

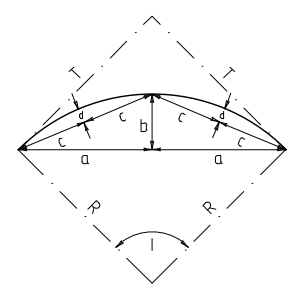
POINT No	EASTING	NORTHING	ELEVATION
46	1712.416	944.992	36.864
47	1712.469	947.236	36.841
48	1726.510	947.113	36.766
49	1728.622	947.061	36.740
50	1729.638	947.037	36.709
51	1729.161	946.864	36.725
52	1728.417	945.564	36.712
53	1726.361	946.827	36.752
54	1742.119	955.143	36.373
55	1742.434	957.220	36.408
56	1742.794	959.321	36.478
57	1743.106	957.128	36.401
58	1743.414	954.966	36.362
59	1743.539	954.091	36.358
60	1742.686	954.422	36.363
61	1752.562	939.984	36.390
62	1754.540	939.276	36.377
63	1757.581	938.888	36.331
64	1754.263	938.435	36.356
65	1752.126	938.658	36.372
66	1751.375	938.737	36.373
67	1751.751	939.487	36.410
68	1738.867	930.567	36.329
69	1738.552	928.491	36.381
70	1738.192	926.389	36.449
71	1737.880	928.583	36.393
72	1737.572	930.745	36.354
73	1737.447	931.620	36.344
74	1738.300	931.289	36.322
75	1737.223	939.073	36.500
76	1735.506	942.493	36.585
77	1736.710	946.125	36.687
78	1740.130	947.842	36.518
79	1743.763	946.638	36.443
80	1745.480	943.218	36.474
81	1744.276	939.586	36.451
82	1740.856	937.869	36.447
83	1739.854	941.191	36.654
84	1738.299	942.696	36.740
85	1738.299	944.294	36.762
86	1740.333	945.058	36.672
87	1741.932	944.528	36.618
88	1742.687	943.015	36.629
89	1742.157	941.417	36.605
90	1740.652	940.661	36.602



CURVE SETOUT TABLE

CURVE	RADIUS (m)	I	T	ARC	a	b	c	d
3	50	10°56'28"	4.789	9.548	4.767	0.228	2.386	0.057
4	7	64°48'58"	4.444	7.919	3.752	1.89	1.953	0.278
5	50	14°14'35"	6.247	12.429	6.199	0.386	3.105	0.097
6	50	13°11'85"	5.778	11.516	5.74	0.331	2.875	0.083
7	15	51°29'12"	7.233	13.479	6.515	1.489	3.342	0.377
8	50	14°56'55"	6.56	13.045	6.504	0.425	3.259	0.106
9	50	13°27'15"	5.898	11.741	5.857	0.344	2.934	0.086
10	7	72°44'43"	5.156	8.888	4.151	1.364	2.185	0.35
11	50	14°10'50"	6.219	12.375	6.172	0.382	3.092	0.096
12	50	14°28'20"	6.348	12.629	6.298	0.398	3.155	0.1
13	13	59°32'58"	7.438	13.511	6.456	1.716	3.34	0.436
14	50	15°58'42"	7.017	13.944	6.949	0.485	3.483	0.121

NOTE: ALL CURVE RADI LABELLED THUS - T ARE TO BACK OF KERB

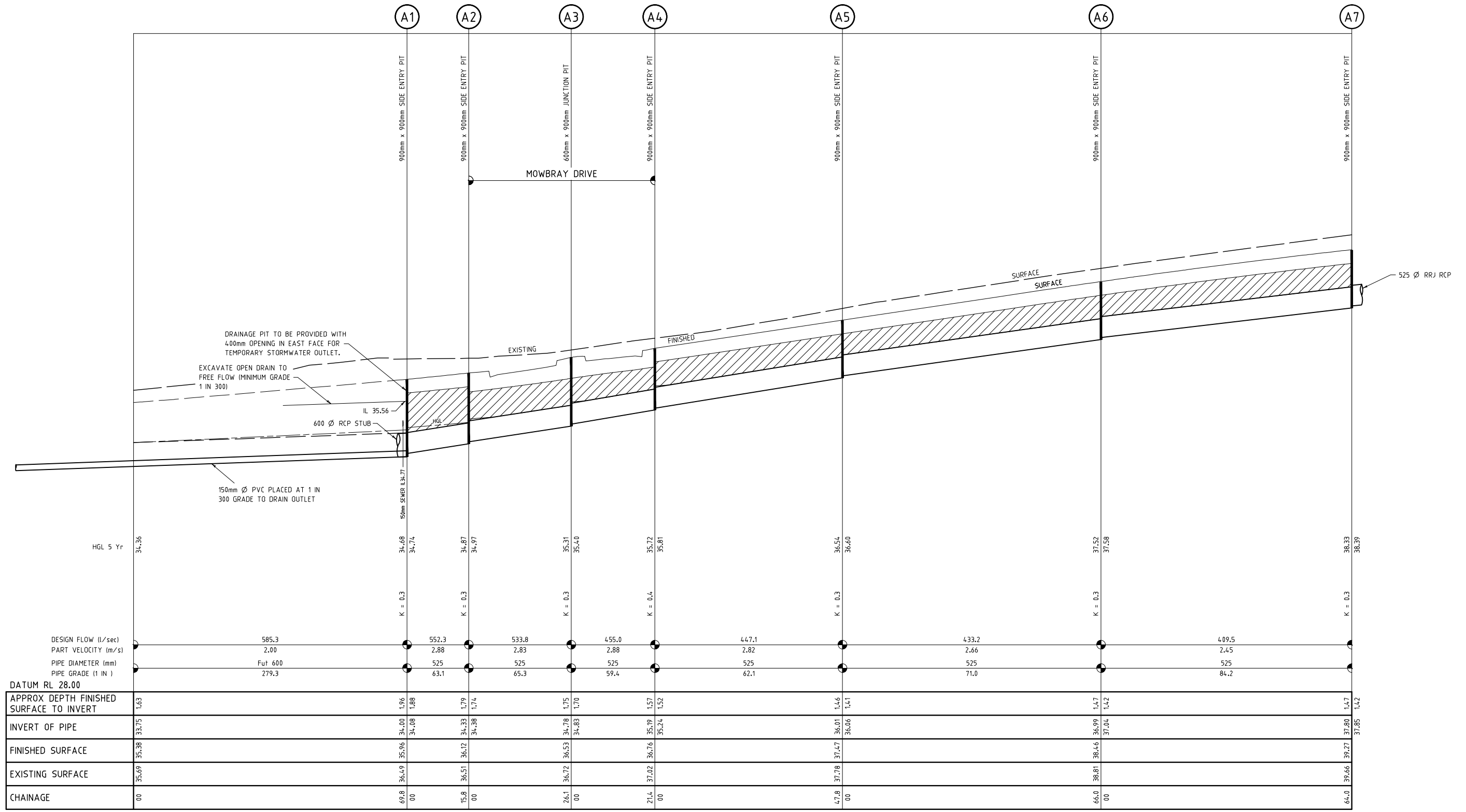


NOTE: LINE MARKING FOLLOWING ROUNDABOUT WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH VICROADS STANDARDS. THE DELINEATION OF THE INTERSECTION TREATMENT IS TO INCLUDE RRPMS ON ALL ROUNDABOUT APPROACHES.

SERVICES LOCATION SCHEDULE

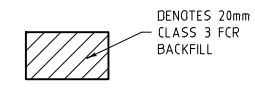
STREET NAME	TELECOM	GAS	WATER	ELECTRICITY	KERB
JANELLE WAY	1.90 S	2.10 N	2.70 N	2.50 S	4.25
MOWBRAY DRIVE	1.90 E	2.10 W	2.70 W	2.50 E	4.25

AMENDMENTS		<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MELWAY REF.	<b>KINGSTON DOWNS ESTATE</b> <b>STAGE 33</b>	MUNICIPALITY	
	22.11.16		VERSION B		SURVEYED	GREATER GEELONG
	DATE		DESCRIPTION		DESIGNED P.J.B	REFERENCE
	A1		1:125 2.5 1.25 0 2.5 5 7.5 METRES		DRAWN C.S.	0211 E/33
		CHECKED	SCALE AS SHOWN	DATUM AHD	DATE SEPT '16	SHEET 13 OF 19

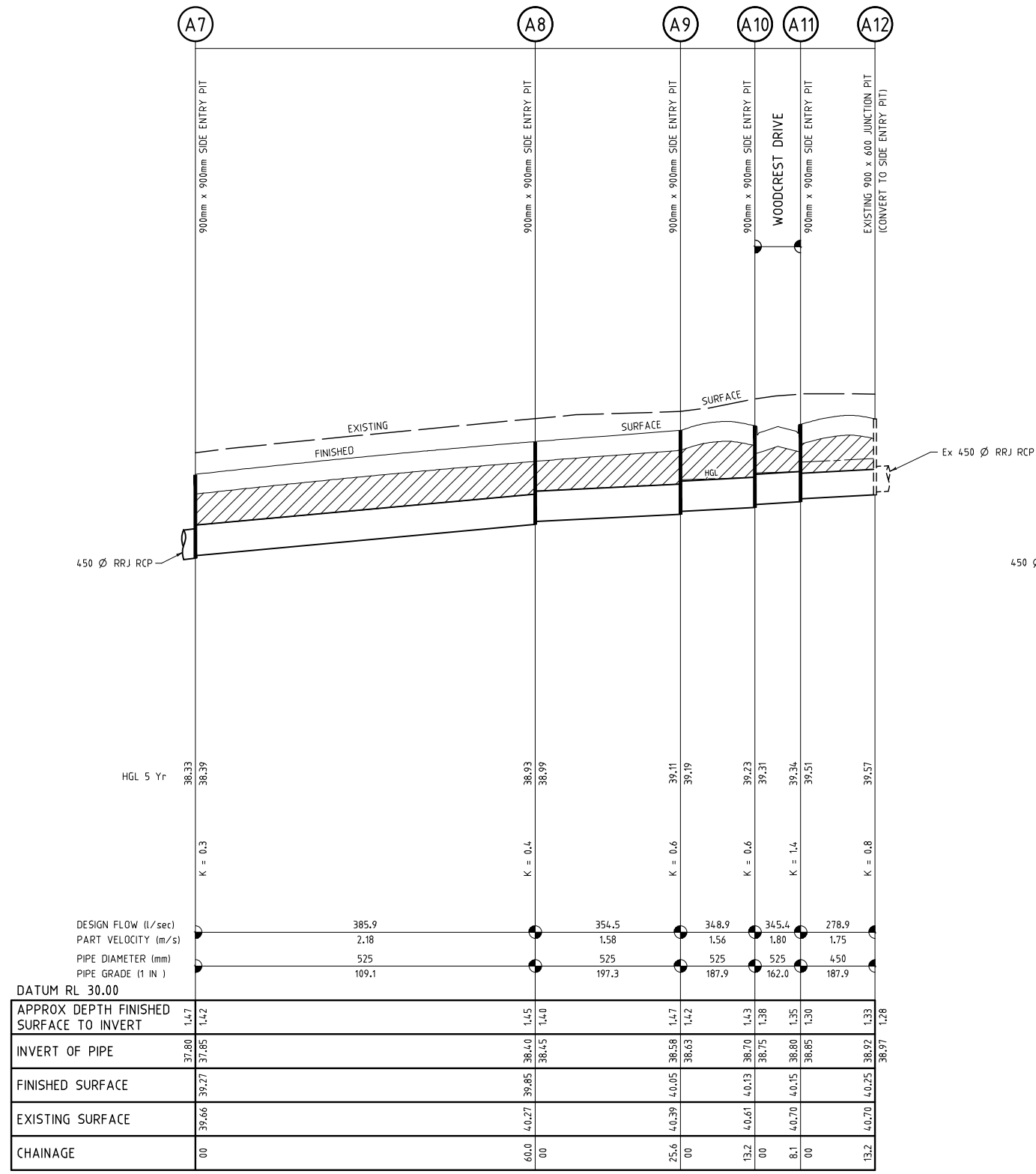


DRAINAGE LONGITUDINAL SECTION  
 SCALES - HORIZ. 1 : 500  
 VERT. 1 : 50

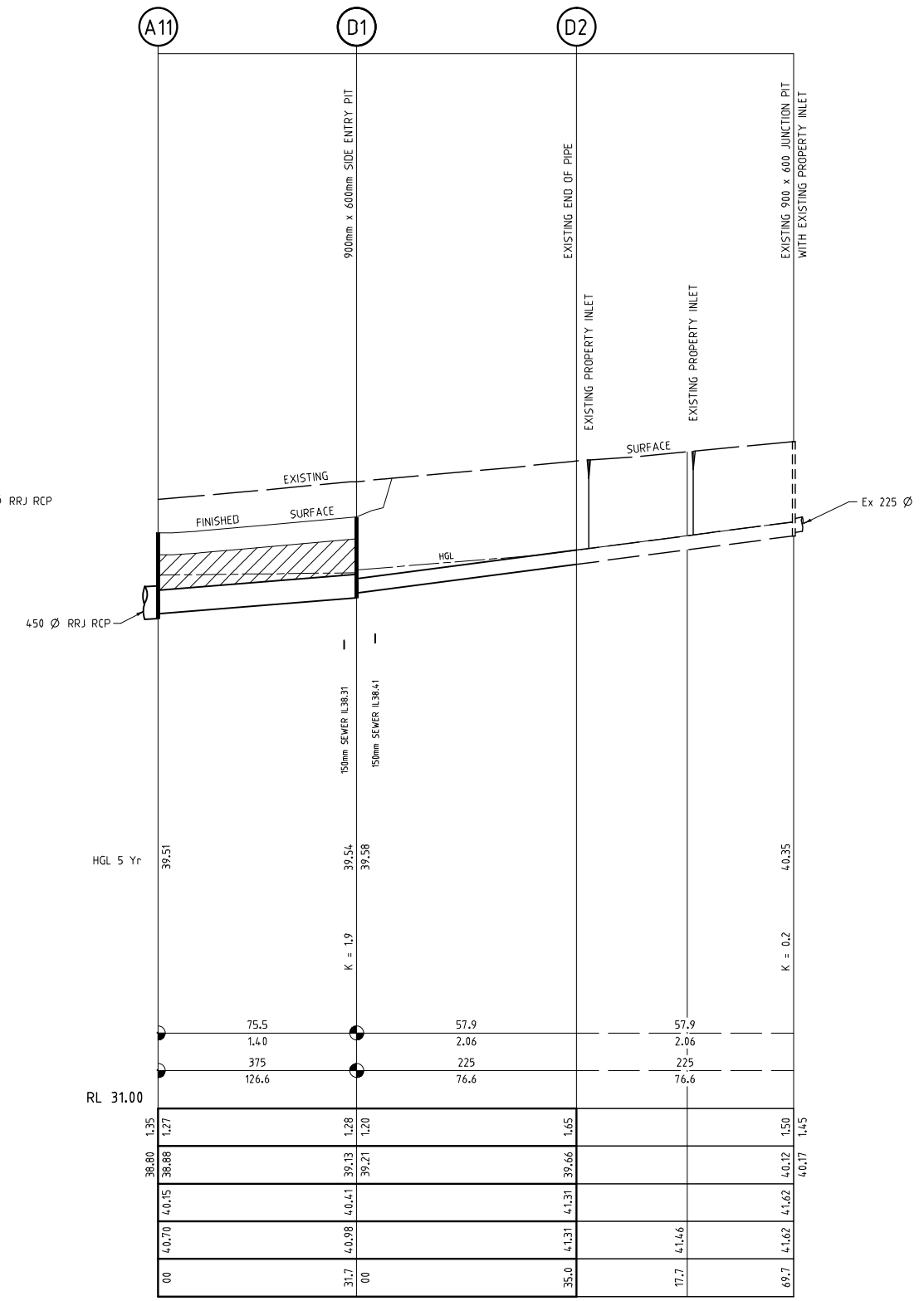
**NOTE**  
 ALL SUMPS IN PRECAST PITS ARE TO BE FILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE.



<b>AMENDMENTS</b> 22.11.16 VERSION B		<b>MELWAY REF.</b> SURVEYED		<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	<b>MUNICIPALITY</b> GREATER GEELONG
		<b>DATE</b> <b>DESCRIPTION</b>			
<b>A1</b>	1: 500 0 5 10 20 30 METRES	<b>DRAWN</b> C.S.		<b>SCALE AS SHOWN</b>	<b>DATUM</b> AHD
	1: 50 0 0.5 1 2 3 METRES	<b>CHECKED</b>			

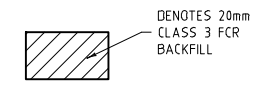


DRAINAGE

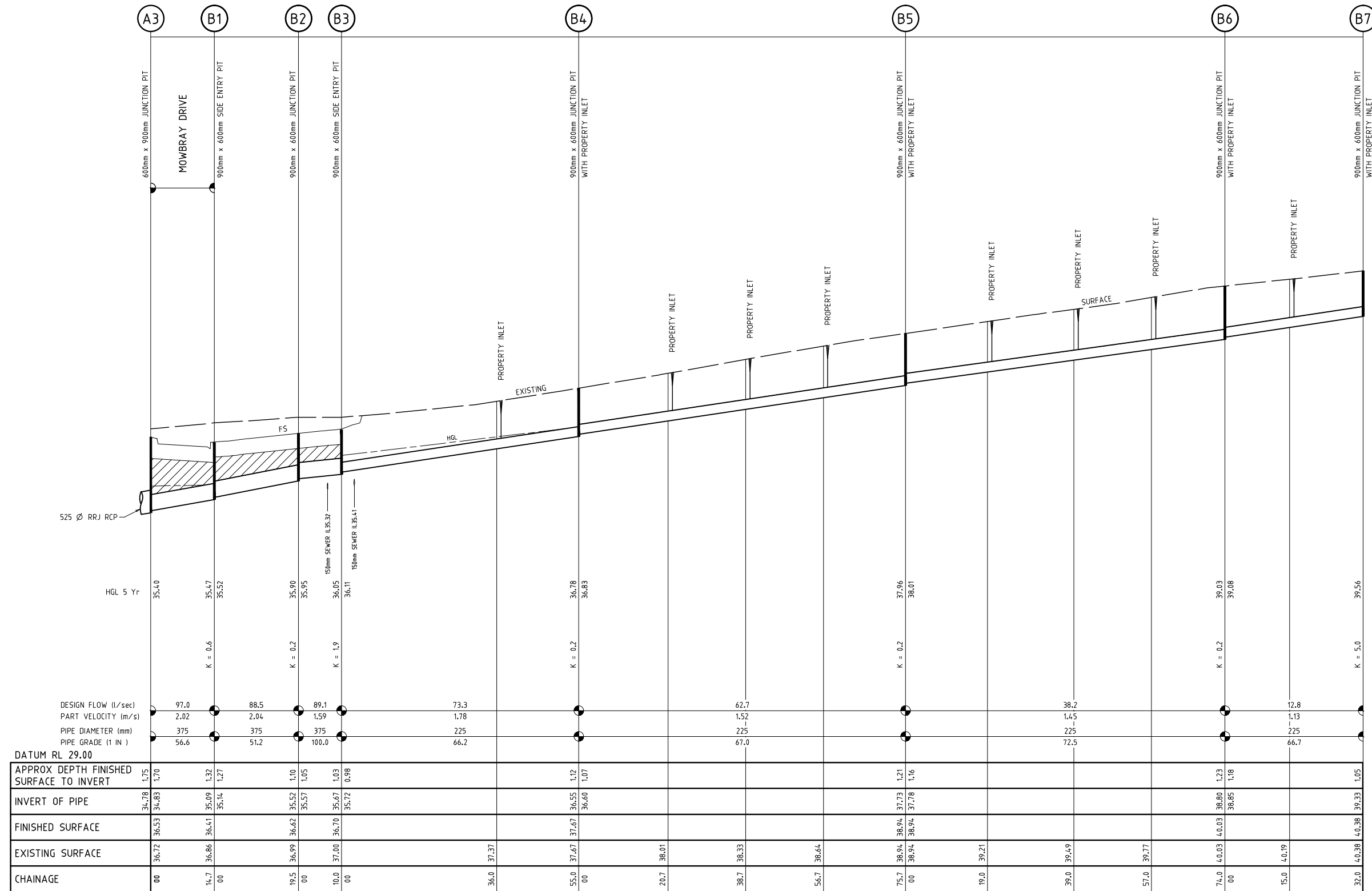


LONGITUDINAL SECTIONS  
 SCALES - HORIZ. 1 : 500  
 VERT. 1 : 50

NOTE  
 ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE.



AMENDMENTS	22.11.16	VERSION B	MELWAY REF.	<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MUNICIPALITY	GREATER GEELONG	
	DATE	DESCRIPTION	SURVEYED		REFERENCE	0211 E/33	
	1: 500	1: 50	0 5 10 20 30 METRES		DRAWN	C.S.	SHEET 15 OF 19
	1: 50	1: 50	0 0.5 1 2 3 METRES		CHECKED	SCALE AS SHOWN	DATUM AHD



CHAINAGE	00	14.7	00	19.5	00	10.0	00	36.0	37.37	55.0	00	20.7	38.7	56.7	75.7	00	19.0	39.0	57.0	74.0	00	15.0	32.0	
DESIGN FLOW (l/sec)		97.0		88.5		89.1		73.3					62.7							38.2			12.8	
PART VELOCITY (m/s)		2.02		2.04		1.59		1.78					1.52							1.45			1.13	
PIPE DIAMETER (mm)		375		375		375		225					225							225			225	
PIPE GRADE (1 IN 1)		56.6		51.2		100.0		66.2					67.0							72.5			66.7	
DATUM RL 29.00																								
APPROX DEPTH FINISHED SURFACE TO INVERT		1.75	1.70		1.10	1.05				1.12	1.07				1.21	1.16				1.23	1.18		1.05	
INVERT OF PIPE		34.78	34.83		35.57	35.57				36.55	36.60				37.73	37.78				38.80	38.85		39.33	
FINISHED SURFACE		36.53	36.41		36.62	36.62				37.67	37.67				38.94	38.94				40.03	40.03		40.38	
EXISTING SURFACE		36.72	36.86		36.99	36.99				37.67	37.67				38.94	38.94				40.03	40.03		40.38	

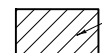
DRAINAGE

LONGITUDINAL

SECTION

SCALES - HORIZ. 1 : 50  
VERT. 1 : 50

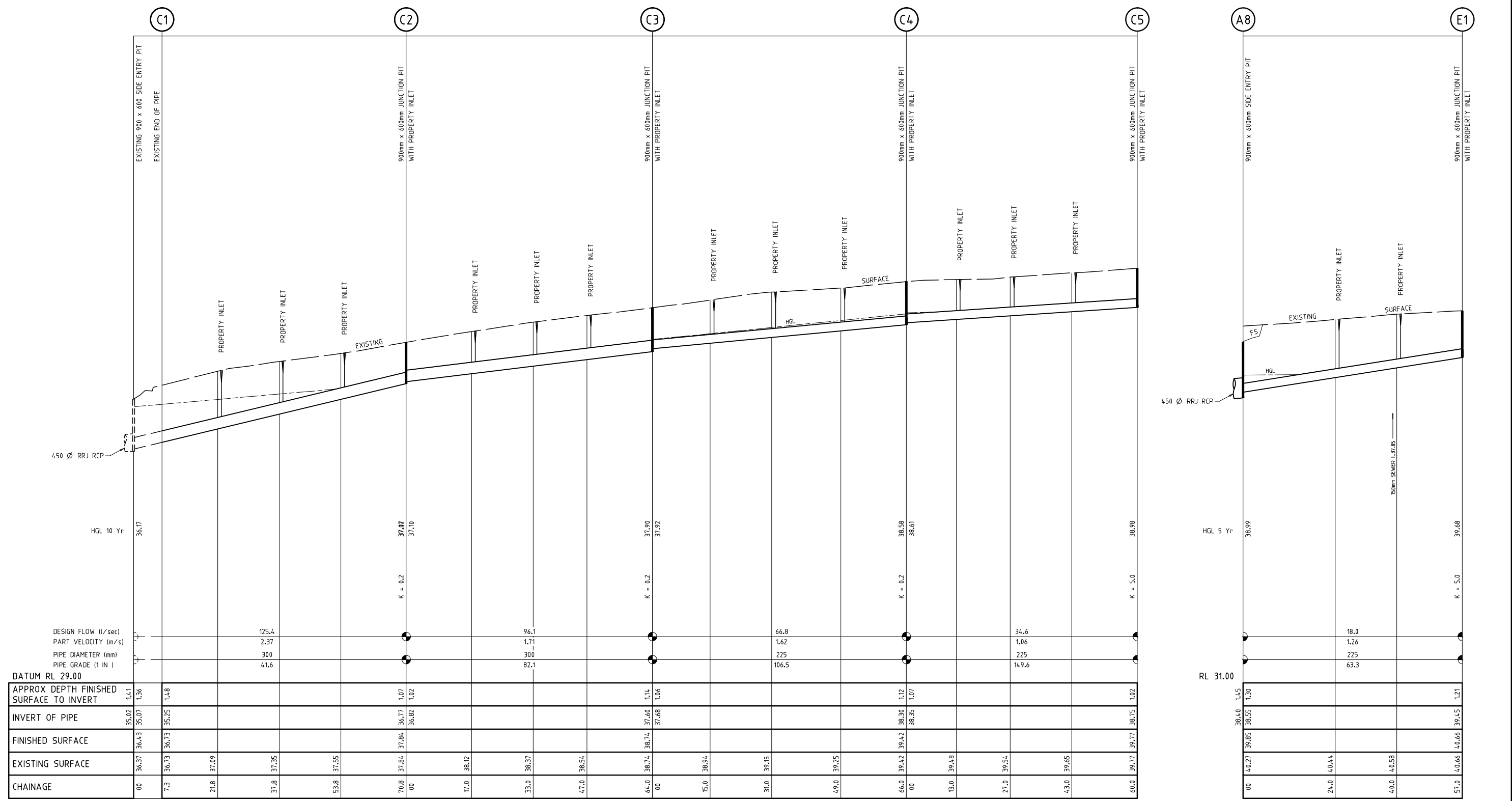
**NOTE**  
ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE.

 DENOTES 20mm CLASS 3 FCR BACKFILL

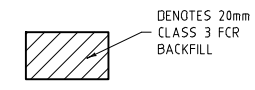
<b>AMENDMENTS</b>			<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799																				
	22.11.16	VERSION B		MELWAY REF.	KINGSTON DOWNS ESTATE STAGE 33	MUNICIPALITY GREATER GEELONG																		
				SURVEYED		REFERENCE 0211 E/33																		
				DESIGNED P.J.B		SCALE AS SHOWN	DATUM AHD	DATE SEPT '16	SHEET 16 OF 19															
<b>A1</b>																								



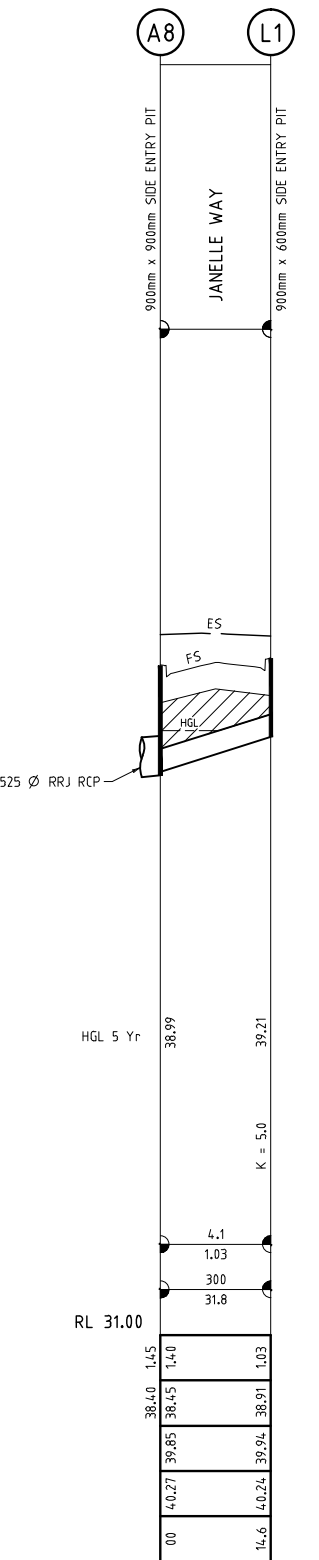
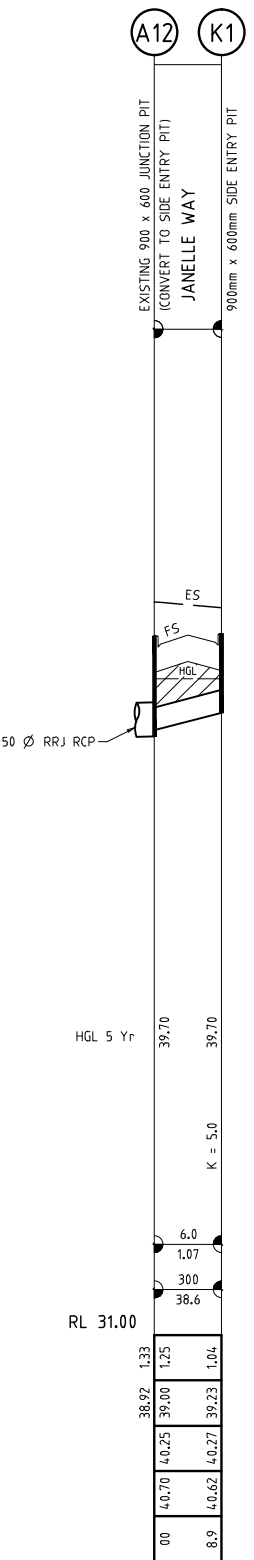
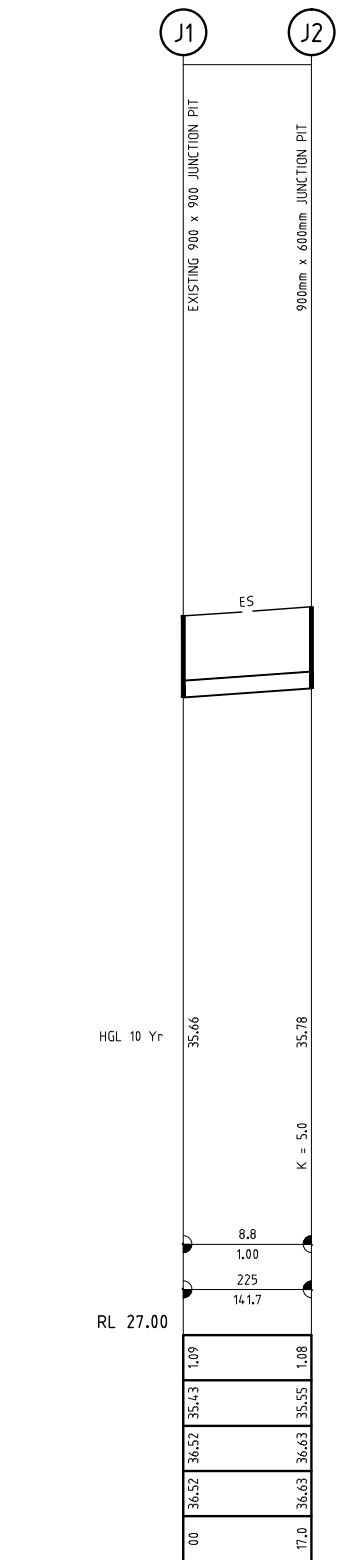
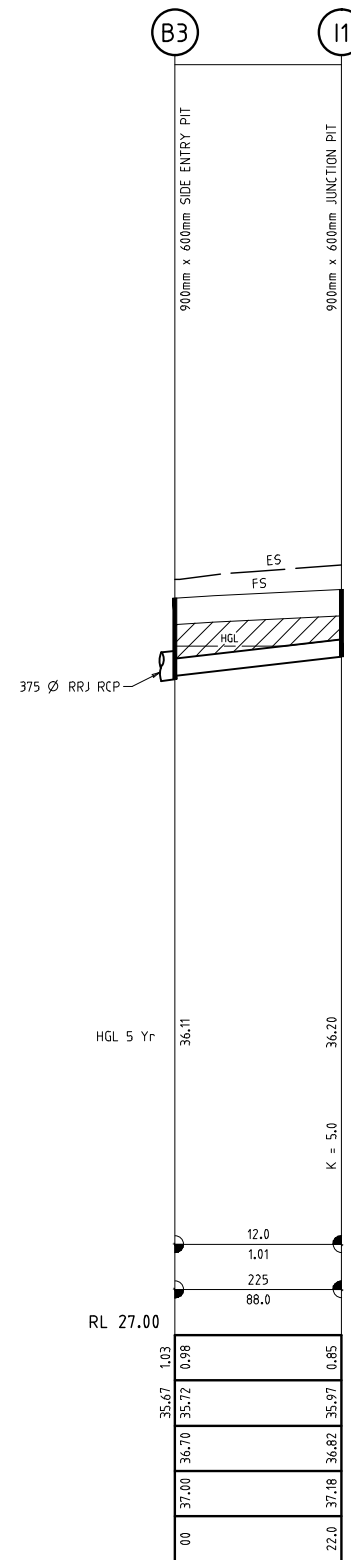
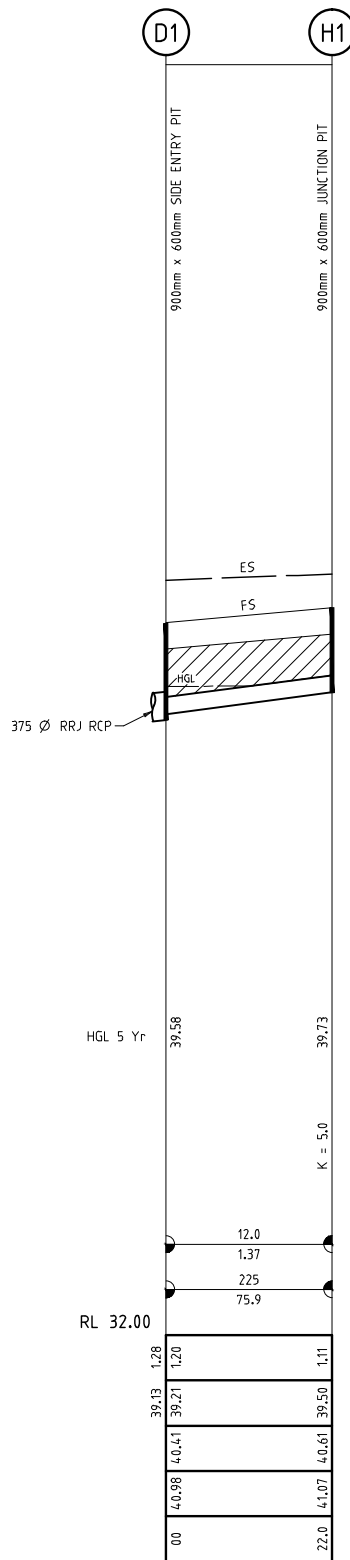
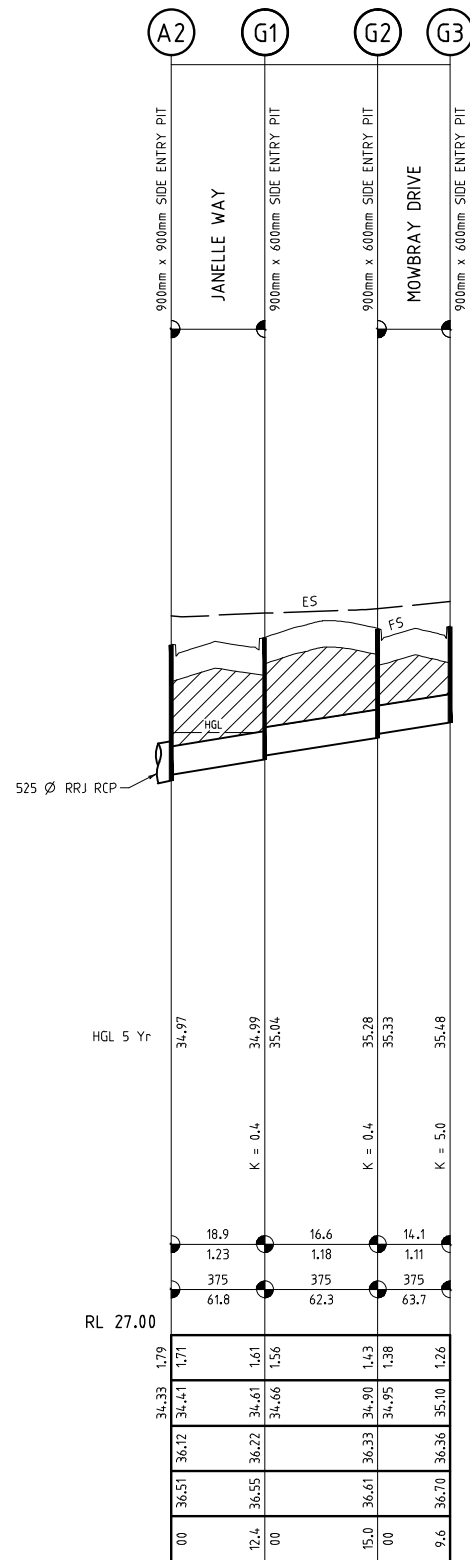
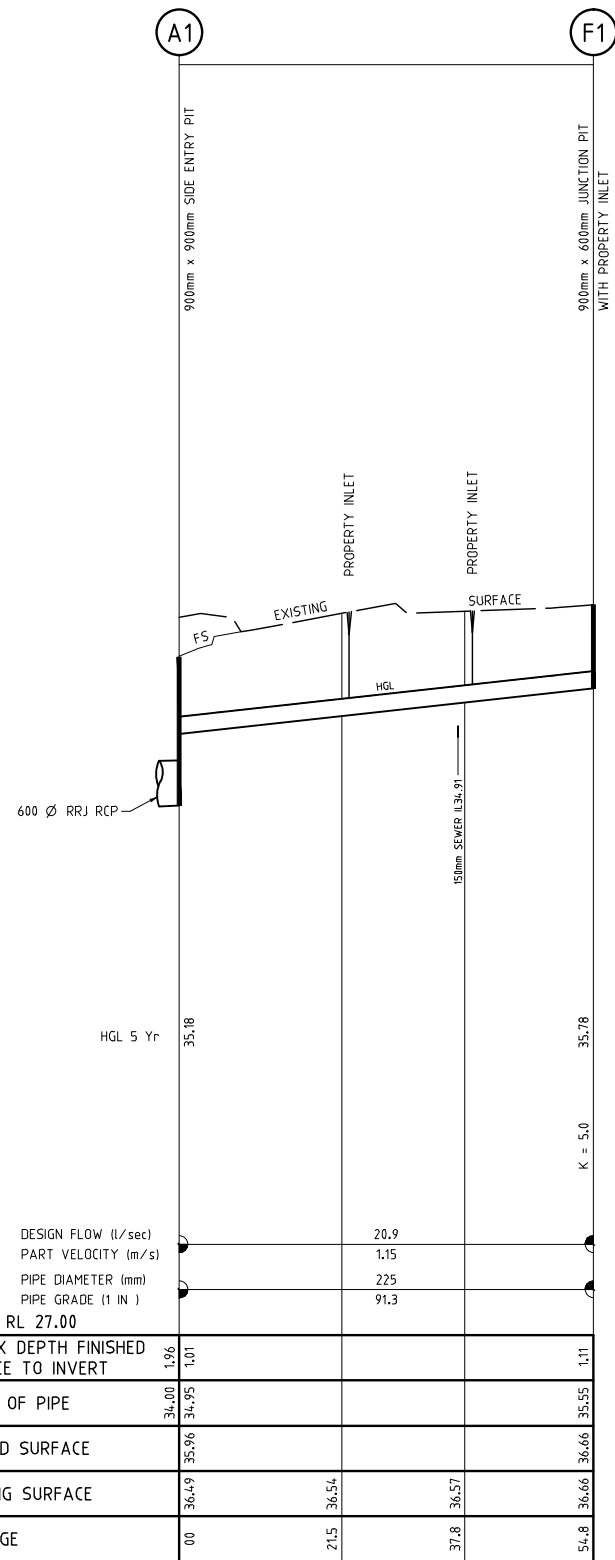




NOTE  
 ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE.



<b>AMENDMENTS</b> 22.11.16 VERSION B		<b>MELWAY REF.</b> SURVEYED		<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers		153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	
<b>DATE</b> 22.11.16		<b>DESCRIPTION</b> VERSION B		<b>DESIGNED</b> P.J.B		<b>MUNICIPALITY</b> GREATER GEELONG	
<b>DATE</b> 22.11.16		<b>DESCRIPTION</b> VERSION B		<b>DRAWN</b> C.S.		<b>REFERENCE</b> 0211 E/33	
<b>DATE</b> 22.11.16		<b>DESCRIPTION</b> VERSION B		<b>CHECKED</b>		<b>SCALE AS SHOWN</b>	
<b>DATE</b> 22.11.16		<b>DESCRIPTION</b> VERSION B		<b>DATUM</b> AHD		<b>DATE</b> SEPT '16	
<b>DATE</b> 22.11.16		<b>DESCRIPTION</b> VERSION B		<b>DATUM</b> AHD		<b>DATE</b> SEPT '16	
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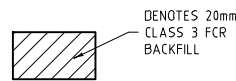
DRAINAGE

LONGITUDINAL

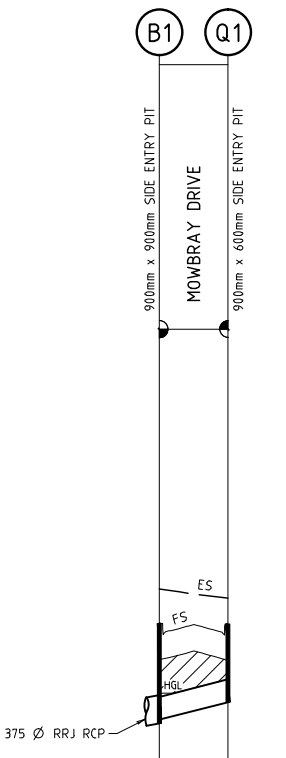
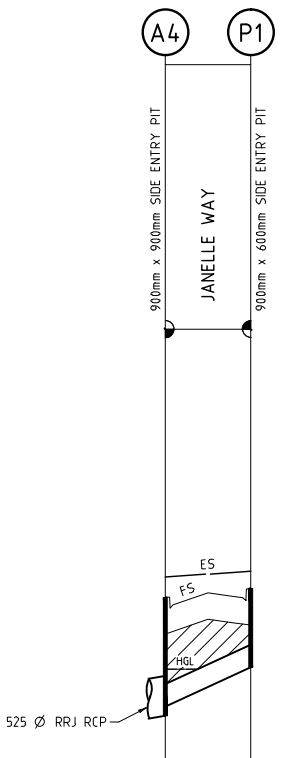
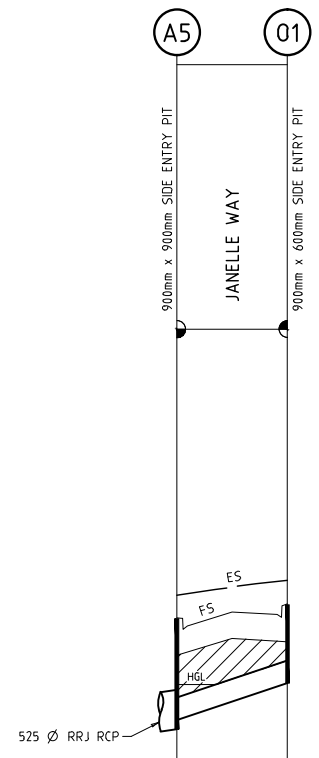
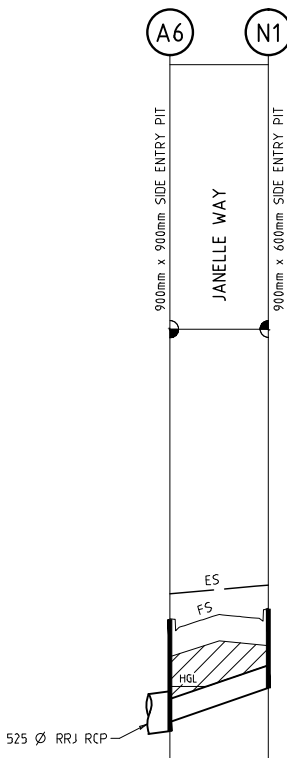
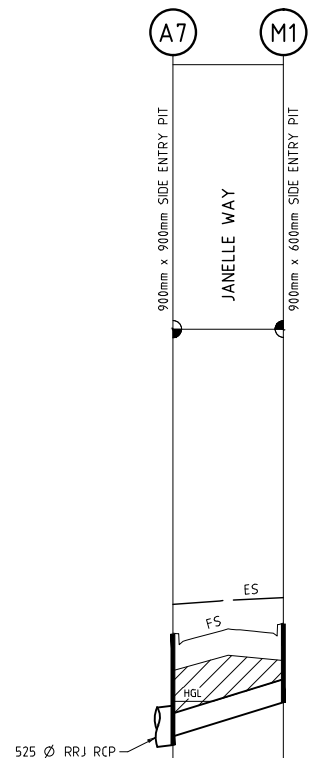
SCALES - HORIZ. 1 : 500  
VERT. 1 : 50

SECTIONS

NOTE ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE.



AMENDMENTS		<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers	153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799		
	22.11.16		VERSION B	MELWAY REF.	MUNICIPALITY
	DATE		DESCRIPTION	SURVEYED	GREATER GEELONG
				DESIGNED P.J.B	REFERENCE
A1	1:500	1:50	0 5 10 20 30 METRES	0211 E/33	
				SCALE AS SHOWN DATUM AHD DATE SEPT '16 SHEET 18 OF 19	



DESIGN FLOW (l/sec)	5.6
PART VELOCITY (m/s)	1.10
PIPE DIAMETER (mm)	300
PIPE GRADE (1 IN 1)	32.5
DATUM RL 30.00	
APPROX DEPTH FINISHED SURFACE TO INVERT	1.47
INVERT OF PIPE	37.80
FINISHED SURFACE	39.27
EXISTING SURFACE	39.66
CHAINAGE	00

**DRAINAGE**

**LONGITUDINAL**

**SECTIONS**

SCALES - HORIZ. 1 : 500  
VERT. 1 : 50

APPROX DEPTH FINISHED SURFACE TO INVERT	1.47
INVERT OF PIPE	37.80
FINISHED SURFACE	39.27
EXISTING SURFACE	39.66
CHAINAGE	00

APPROX DEPTH FINISHED SURFACE TO INVERT	1.35
INVERT OF PIPE	37.11
FINISHED SURFACE	38.46
EXISTING SURFACE	38.81
CHAINAGE	00

APPROX DEPTH FINISHED SURFACE TO INVERT	1.34
INVERT OF PIPE	36.13
FINISHED SURFACE	37.47
EXISTING SURFACE	37.78
CHAINAGE	00

APPROX DEPTH FINISHED SURFACE TO INVERT	1.45
INVERT OF PIPE	35.31
FINISHED SURFACE	36.76
EXISTING SURFACE	37.02
CHAINAGE	00

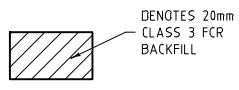
APPROX DEPTH FINISHED SURFACE TO INVERT	1.03
INVERT OF PIPE	35.44
FINISHED SURFACE	36.41
EXISTING SURFACE	36.86
CHAINAGE	00

**PIT SCHEDULE**

PIT No.	PIT TYPE	LENGTH	WIDTH	INLET	PIPE Ø	OUTLET	PIPE Ø	FINISHED SURFACE R.L.	PIT DEPTH
		mm	mm	L.L.	mm	L.L.	mm	m	
* A1	HAUNCHED SIDE ENTRY PIT	900	900	34.08	525	34.00	600	35.96	1.96
* A2	HAUNCHED SIDE ENTRY PIT	900	900	34.38	525	34.33	525	36.12	1.79
A3	JUNCTION PIT	600	900	34.83	525	34.78	525	36.53	1.75
* A4	HAUNCHED SIDE ENTRY PIT	900	900	35.24	525	35.19	525	36.76	1.57
* A5	HAUNCHED SIDE ENTRY PIT	900	900	36.06	525	36.01	525	37.47	1.46
* A6	HAUNCHED SIDE ENTRY PIT	900	900	37.04	525	36.99	525	38.46	1.47
* A7	HAUNCHED SIDE ENTRY PIT	900	900	37.85	525	37.80	525	39.27	1.47
* A8	HAUNCHED SIDE ENTRY PIT	900	900	38.45	525	38.40	525	39.85	1.45
* A9	HAUNCHED SIDE ENTRY PIT	900	900	38.63	525	38.58	525	40.05	1.47
* A10	HAUNCHED SIDE ENTRY PIT	900	900	38.75	525	38.70	525	40.13	1.43
* A11	HAUNCHED SIDE ENTRY PIT	900	900	38.88	375	38.80	525	40.15	1.35
A12	EXISTING SIDE ENTRY PIT	900	600	38.97	450	38.92	450	40.25	1.33
B1	SIDE ENTRY PIT	900	600	35.14	375	35.09	375	36.41	1.32
B2	JUNCTION PIT	900	600	35.57	375	35.52	375	36.62	1.10
B3	SIDE ENTRY PIT	900	600	35.72	225	35.67	375	36.70	1.03
B4	JUNCTION PIT	900	600	36.60	225	36.55	225	37.67	1.12
B5	JUNCTION PIT	900	600	37.78	225	37.73	225	38.94	1.21
B6	JUNCTION PIT	900	600	38.85	225	38.80	225	40.03	1.23
B7	JUNCTION PIT	900	600	-	-	39.33	225	40.38	1.05
C1	EXISTING END OF PIPE	-	-	35.25	300	35.25	300	36.73	1.48
C2	JUNCTION PIT	900	600	36.82	300	36.77	300	37.84	1.07
C3	JUNCTION PIT	900	600	37.68	225	37.60	300	38.74	1.14
C4	JUNCTION PIT	900	600	38.35	225	38.30	225	39.42	1.12
C5	JUNCTION PIT	900	600	-	-	38.75	225	39.77	1.02
D1	SIDE ENTRY PIT	900	600	39.21	225	39.13	375	40.41	1.28
D2	EXISTING END OF PIPE	-	-	40.17	225	40.12	225	41.62	1.50
E1	JUNCTION PIT	900	600	-	-	39.45	225	40.66	1.21
F1	JUNCTION PIT	900	600	-	-	35.55	225	36.66	1.11
G1	SIDE ENTRY PIT	900	600	34.66	375	34.61	375	36.22	1.61
G2	SIDE ENTRY PIT	900	600	34.95	375	34.90	375	36.33	1.43
G3	SIDE ENTRY PIT	900	600	-	-	35.10	375	36.36	1.26
H1	JUNCTION PIT	900	600	-	-	39.50	225	40.61	1.11
I1	JUNCTION PIT	900	600	-	-	35.97	225	36.82	0.85
J1	EXISTING JUNCTION PIT	900	600	35.43	225	35.38	225	36.52	1.09
J2	JUNCTION PIT	900	600	-	-	35.55	225	36.63	1.08
K1	SIDE ENTRY PIT	900	600	-	-	39.23	300	40.27	1.04
L1	SIDE ENTRY PIT	900	600	-	-	38.91	300	39.94	1.03
M1	SIDE ENTRY PIT	900	600	-	-	38.37	300	39.40	1.03
N1	SIDE ENTRY PIT	900	600	-	-	37.56	300	38.60	1.04
O1	SIDE ENTRY PIT	900	600	-	-	36.62	300	37.66	1.04
P1	SIDE ENTRY PIT	900	600	-	-	35.83	300	36.87	1.04
Q1	SIDE ENTRY PIT	900	600	-	-	35.37	300	36.40	1.03

NOTE: PIT DENOTED THUS "\*" IS TO BE HAUNCHED TO AN OPENING OF 900mm x 600mm (INTERNAL DIMENSIONS) WITH APPROPRIATE COVER.

NOTE: ALL SUMPS IN PRECAST PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE.



AMENDMENTS		<b>Peter Berry &amp; Associates Pty. Ltd.</b> Civil Engineers 153 Yarra Street Geelong Victoria 3220 Telephone: 5223 2799	MELWAY REF.	<b>KINGSTON DOWNS ESTATE</b> <b>STAGE 33</b>	MUNICIPALITY						
	22.11.16		VERSION B		SURVEYED	GREATER GEELONG					
	DATE		DESCRIPTION		DESIGNED	REFERENCE					
	1: 500		0 5 10 20 30		P.J.B	0211 E/33					
A1	1: 50	0 0.5 1 2 3	DRAWN	C.S.	SCALE AS SHOWN	DATUM	AHD	DATE	SEPT '16	SHEET	19 OF 19