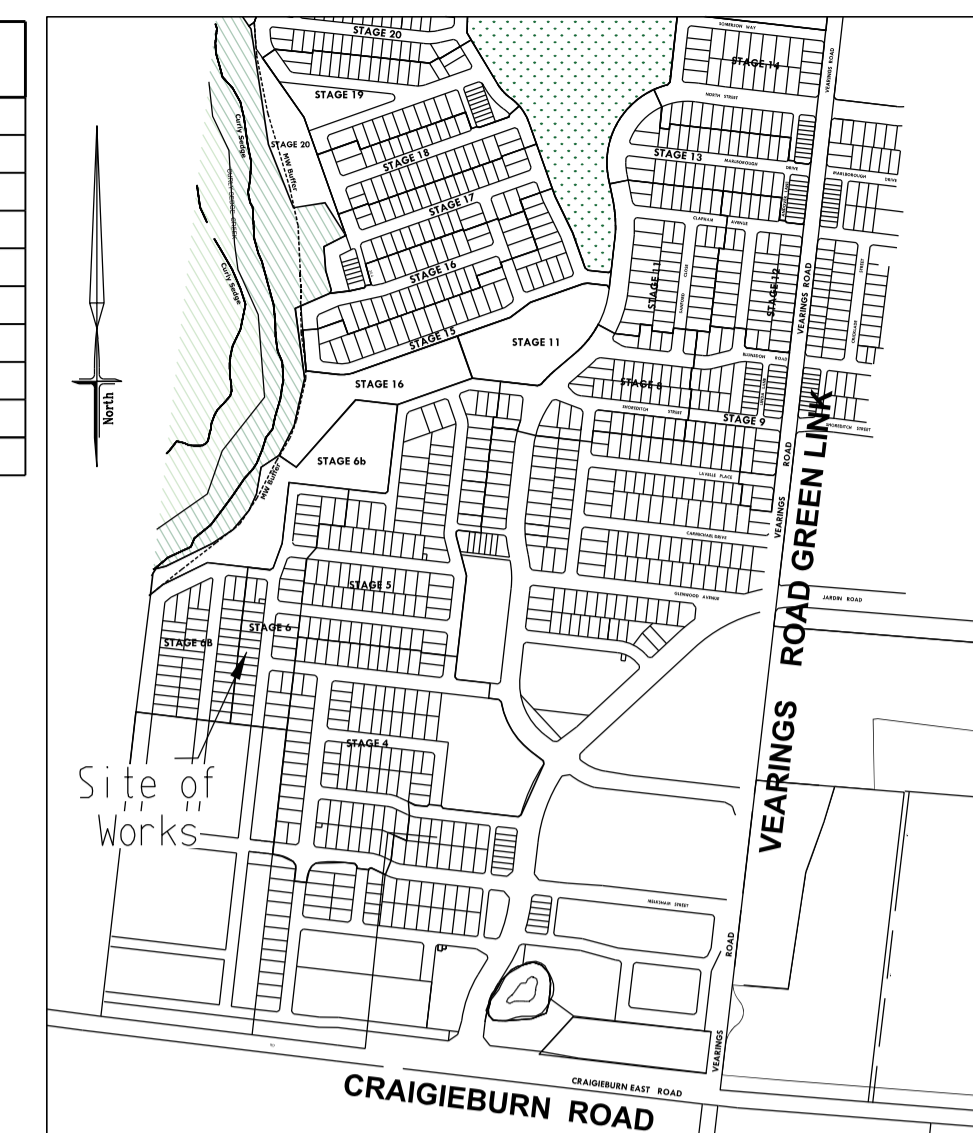


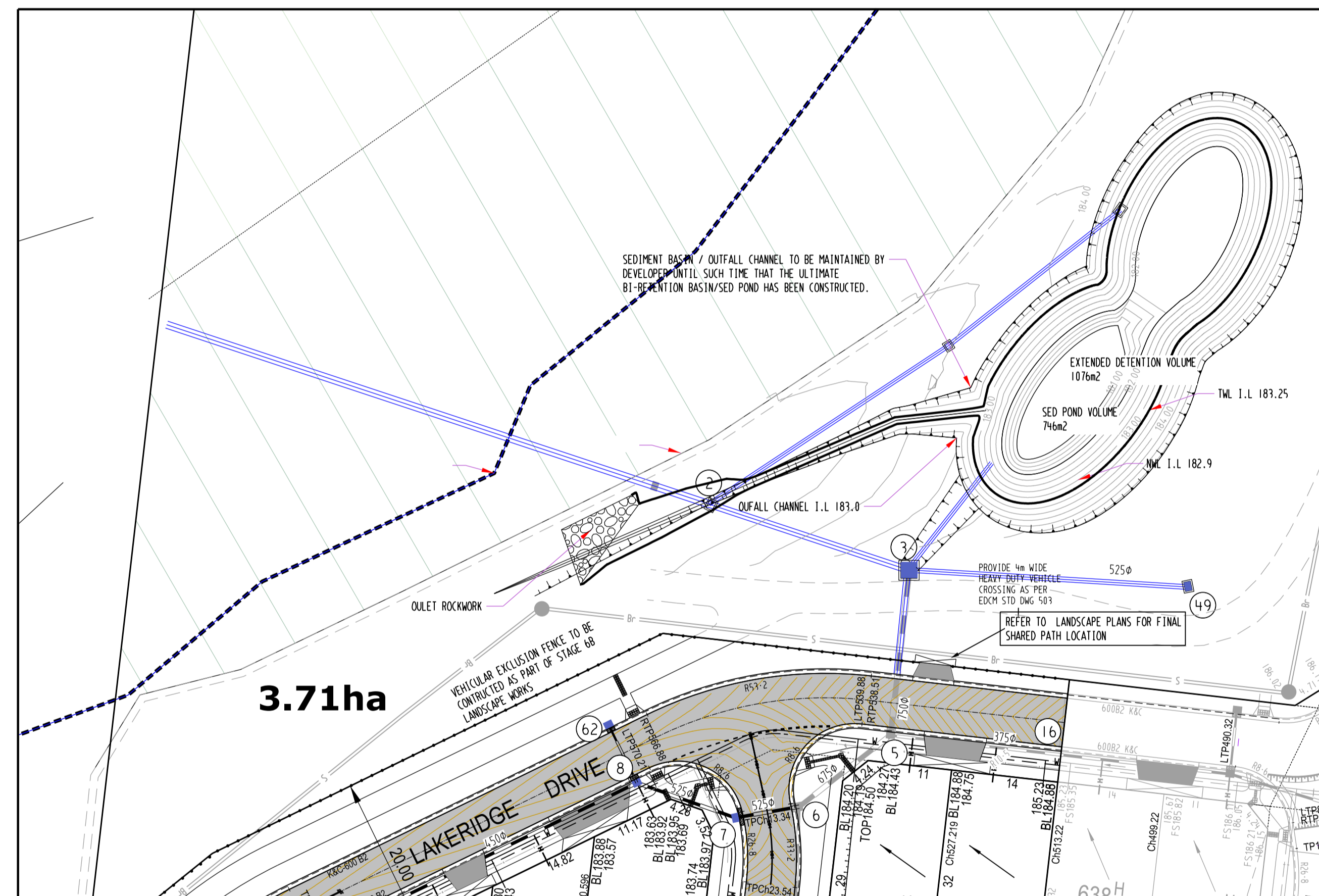
FOR CONTINUATION REFER TO INSET RIGHT

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	B	DETAIL PLAN SHEET 1
2	A	NOTES AND TYPICAL SECTIONS
3	A	INTERSECTION DETAILS 1
4	A	LAKERIDGE DRIVE - LONGITUDINAL SECTIONS
5	A	LAKERIDGE DRIVE - CROSS SECTIONS
6	A	OAKVILLE PLACE - LONGITUDINAL SECTION
7	A	OAKVILLE PLACE - CROSS SECTIONS
8	B	DRAINAGE LONGITUDINAL SECTIONS 1
9	B	DRAINAGE LONGITUDINAL SECTIONS 2, PIT SCHEDULE
10	A	SIGNAGE AND LINEMARKING PLAN



LOCALITY PLAN
N.T.S.
MELWAYS: 388 C 10



FOR CONTINUATION REFER TO ABOVE LEFT

ALL PRISM CROSSING SPLAYS TO BE 600mm FROM EDGE OF PATH
FACILITIES TO BE INSTALLED IN ACCORDANCE WITH CITY OF WHITTLESEA SD320

SEDIMENT BASIN / OUTFALL CHANNEL TO BE MAINTAINED BY DEVELOPER UNTIL SUCH TIME THAT THE ULTIMATE BI-RETENTION BASIN/SED POND HAS BEEN CONSTRUCTED.

3.71ha

SERVICES OFFSETS AND LOCATIONS

Location	Gas	Water		Telecommunications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
OAKVILLE PLACE	2.25 E	2.70 E	3.20 E	1.85 W	1.80 E/W	2.80 W	1.00 BOK	4.35 E 4.05 W	16.00	G&W,FTTH&E	LEVEL 1
LAKERIDGE DRIVE	2.25 S/E	2.70 S/E	3.20 S/E	6.4 N/W	1.80 S/E	6.90 N/W	1.00 BOK	8.05 N/W 4.35 S/E	20.00	G&W,FTTH&E	LEVEL 1

NOTE: a) At the court bowl where water and gas mains pass, the watermain offset is to be increased by 0.5 metres.
b) * Indicates offsets from back of kerb where services do not run parallel to title boundary.
c) * Indicates Telecommunication pits placed within concrete footpath.

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.



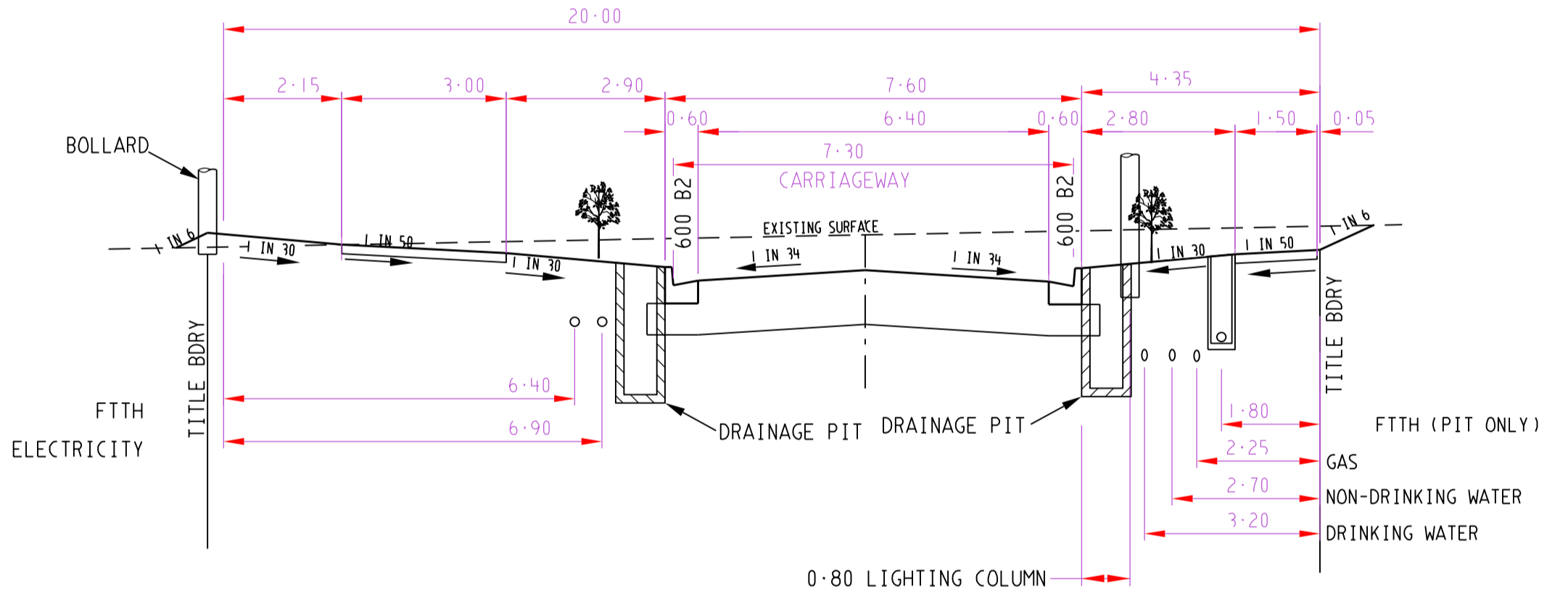
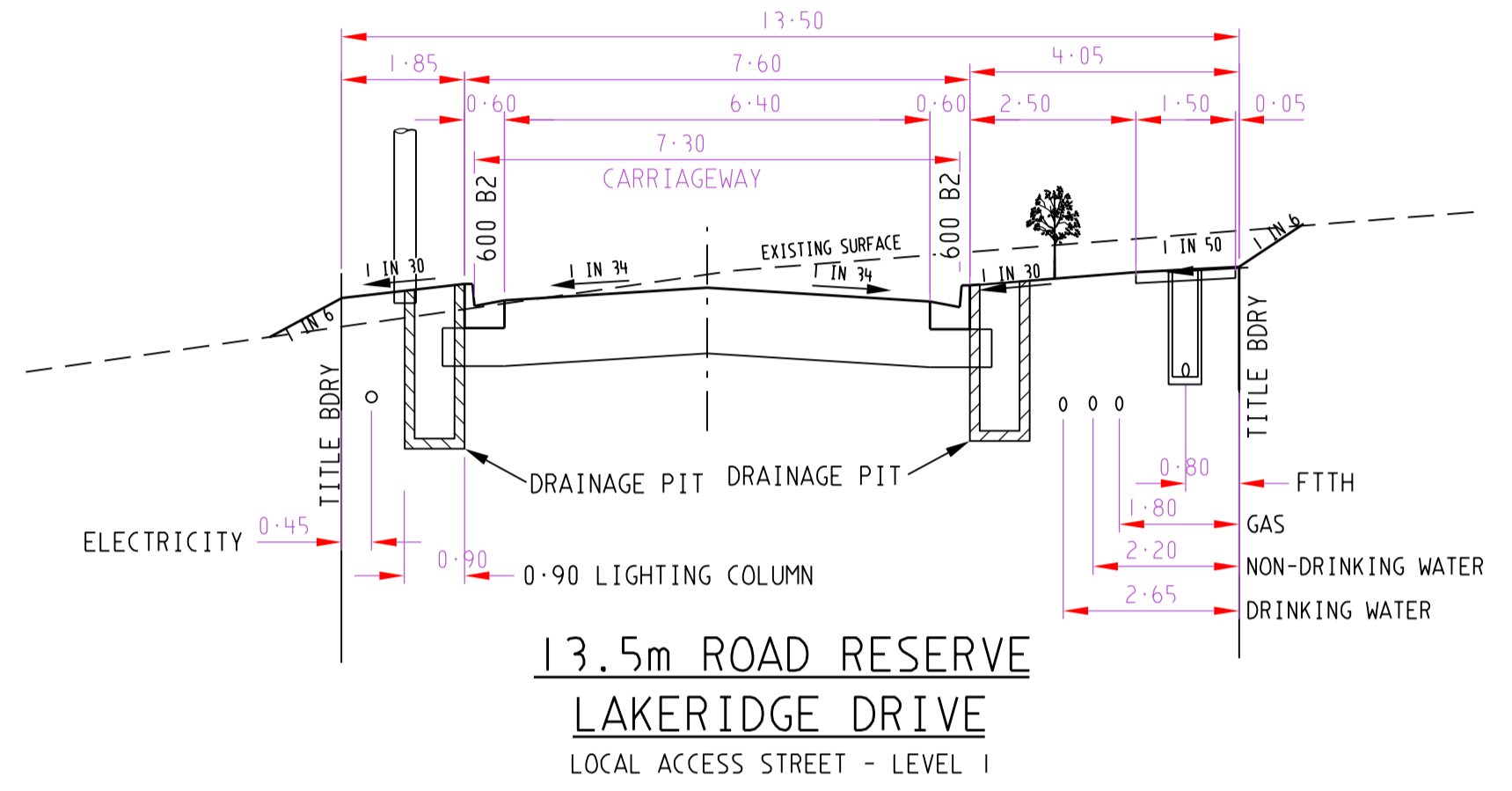
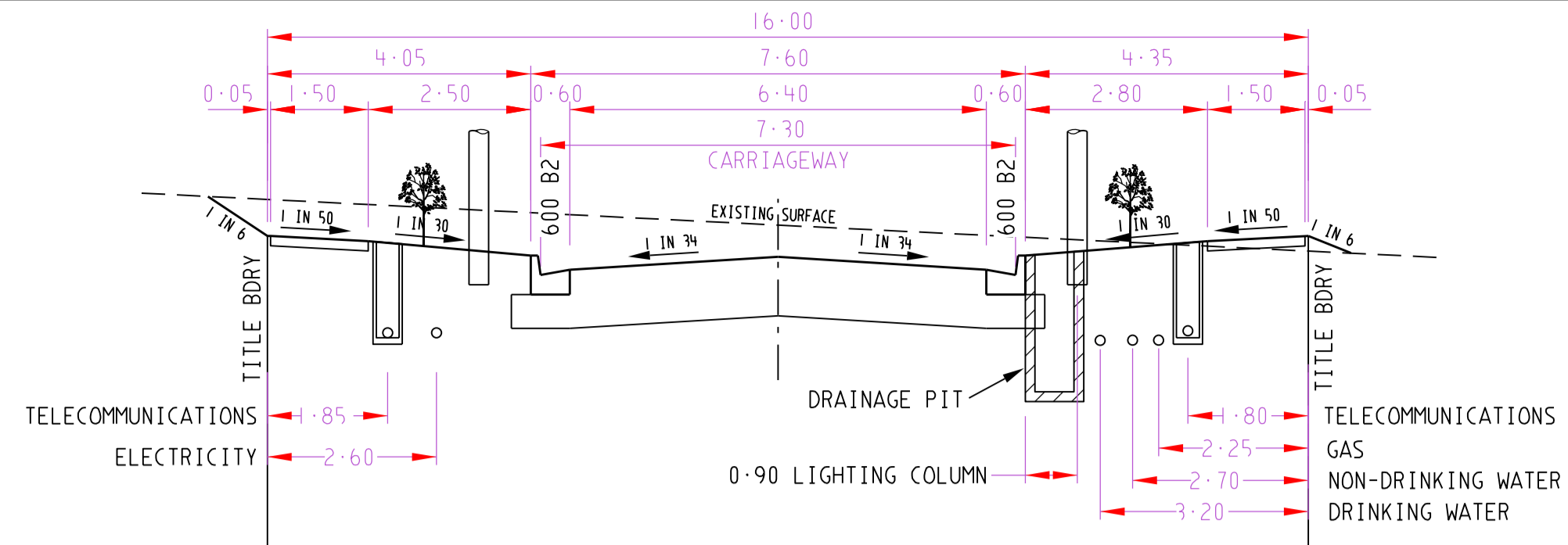
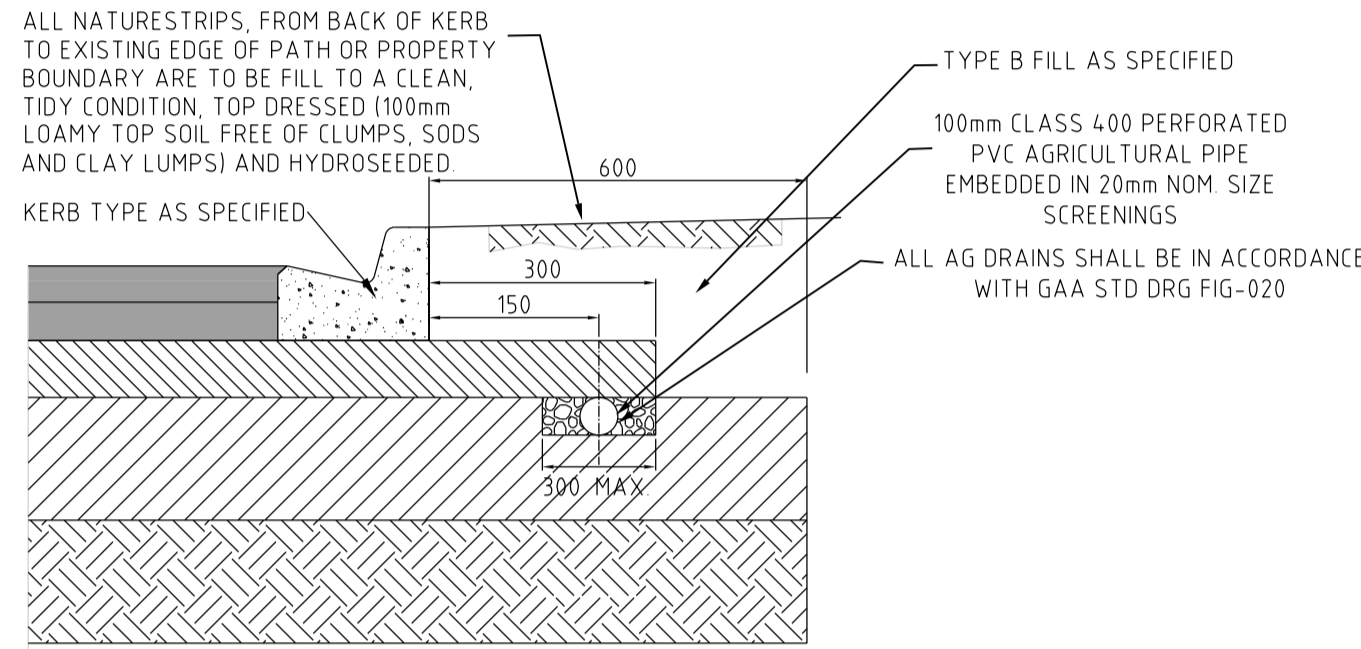
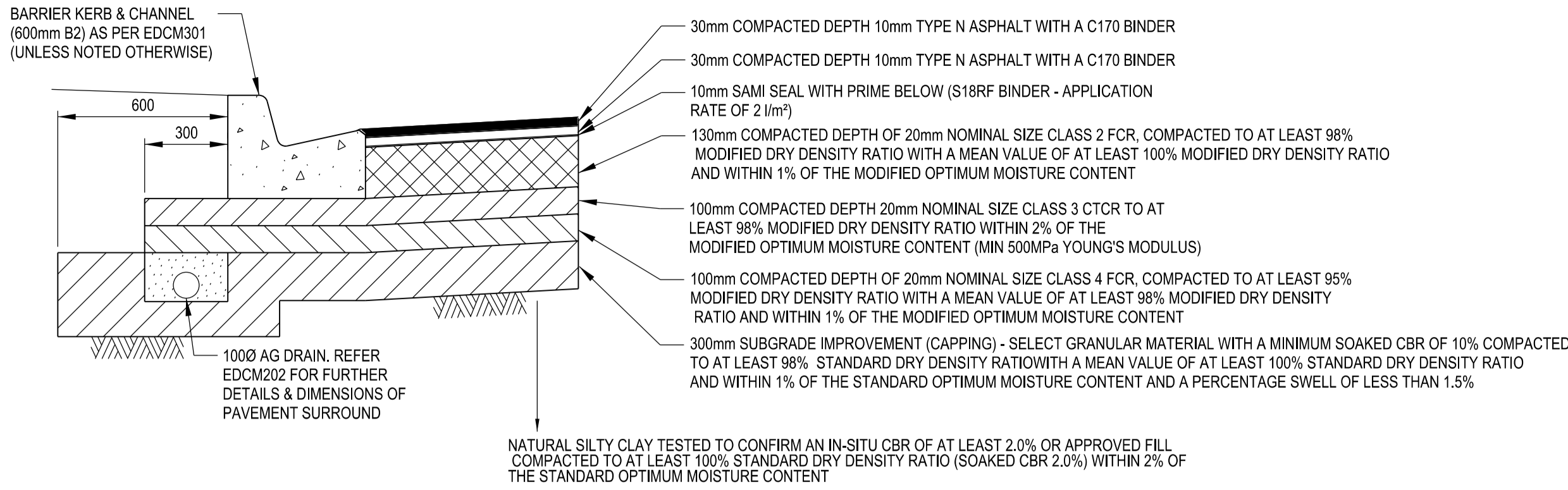
SYMBOL LEGEND

Drains <300	Prop	Exist	Ex/Natural/FS Level	28.57	12.50
Sewer >300	Prop	Exist	FS @ Building Line	BL 27.57	10.25
Water	Prop	Exist	Top/Toe of Batter	10.25	10.25
House Drain	Prop	Exist	Top Ret. Wall Level	10.25	10.25
Property Inlet	Prop	Exist	100yr Flood Level	11.25	11.25
Street Sign	Prop	Exist	Fill Prop/Ex	11.25	11.25
PSM	Prop	Exist	Cut Prop/Ex	11.25	11.25
Retaining Wall	Prop	Exist			
Conduits 50mm	Prop	Exist			
Conduits 100mm	Prop	Exist			
Ex Gas/Elect/Tel	Prop	Exist			

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF. 388-C-10		RATHDOWNE ESTATE STAGE 6B DETAIL PLAN		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/6B
AMENDMENTS B 13-10-20 VARIOUS PIT AMENDMENTS, BATTER DETAILED 601	SURVEY BPD	DESIGN RGW	DRAWN RGW	DATE SEP'20
VER DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD

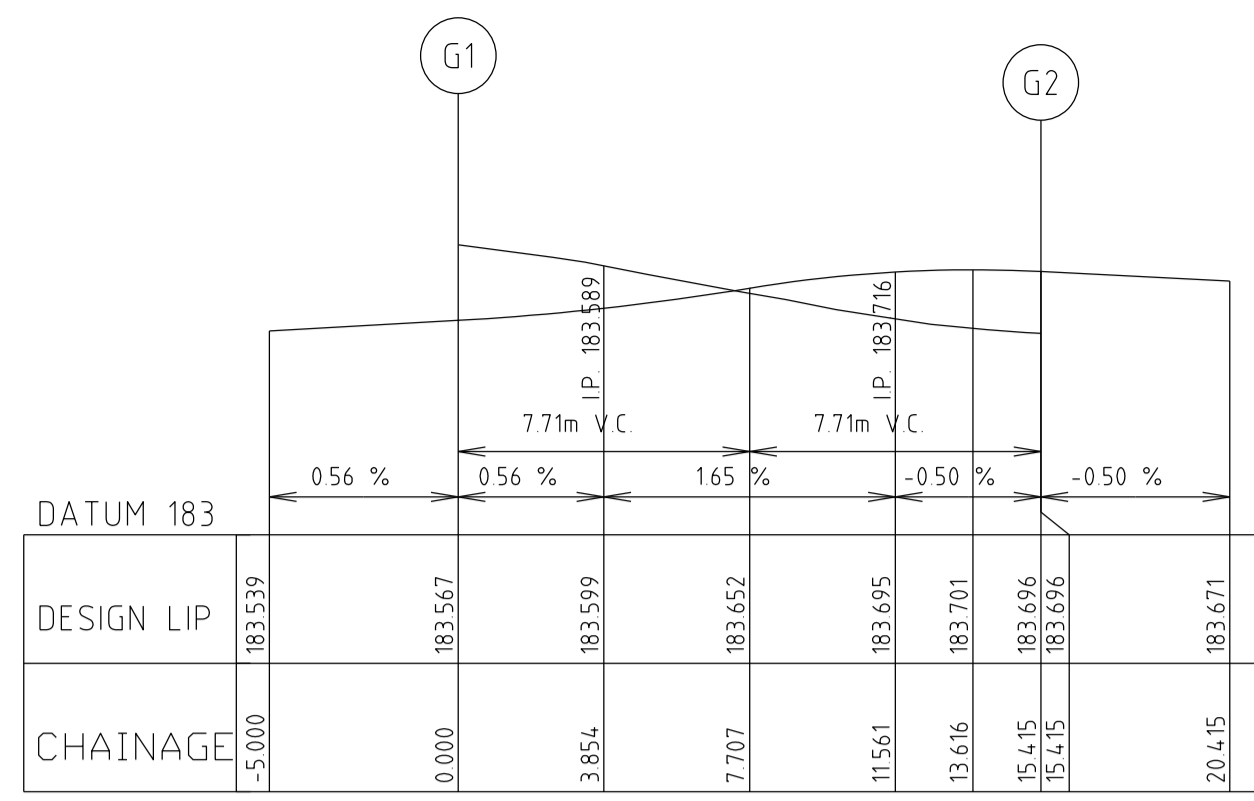
NOTES

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANS AND CURRENT CITY OF WHITTLESEA SPECIFICATIONS AND STANDARD DRAWINGS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCES OF QUARRY MATERIAL
 - N.A.T.A. APPROVED TEST RESULTS FOR THE F.C.R. THAT IS TO BE USED.
 - IF THE SOURCE THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
- COUNCIL TO BE NOTIFIED 2 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE
- ALL LEVELS ARE TO BE AUSTRALIAN HEIGHT DATUM (AHD)
- DRAINAGE AND PITS TO BE SETOUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES.
- ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE RRJ UP TO AND INCLUDING 750mm DIAMETER. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE RRJ CLASS 4 R.C.P.
- JOINING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (RRJ'S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES)
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.
- LOTS DENOTED THUS 416H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN PLACED 7.00m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. HOUSE DRAINS TO BE CONNECTED TO STREET DRAINAGE WITH 27A & CAP. CLEAR OF ANY PAVING. IF CONNECTION IS WITHIN PAVING A PIT MUST BE USED.
- APPROVED GRANULAR BACKFILL TO BE PROVIDED WHERE PIPE TRENCHES ENROACH UNDER ROADWAY DUE TO DEEP EXCAVATIONS IN ROCK.
- SHALLOW CUT OFF DRAINS ARE TO BE PROVIDED ON SUBDIVISION BOUNDARY WHERE NECESSARY.
- WHERE CONCRETE PAVING CROSSES SERVICE TRENCHES, SEWERAGE AND DRAINAGE. TRENCHES SHALL BE BACKFILL WITH COMPACTED FINE CRUSH ROCK.
- ALL CROSSOVERS MUST BE 0.75m FROM THE DRAINAGE PITS AND PRAM CROSSINGS. IN ADDITION, THE PRAM CROSSING MUST BE 2m FROM THE DRAINAGE PITS.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- AGRICULTURAL PIPE DRAINS 100mm PVC CLASS 4 TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER (REFER TO COUNCIL STANDARD DRAWINGS). WHERE KERB AND CHANNEL IS LOCATED ON TITLE BOUNDARY AG'S ARE TO BE PLACED BENEATH KERB AND 750mm BELOW TOP OF KERB.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 2 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289.5.2.1-2003. EXCEPT WHERE DRAINS UP TO AND INCLUDING 450mm DIA. PIPES ARE LOCATED BEHIND KERB, THESE TRENCHES ARE TO BE BACKFILLED WITH SCREENINGS IN LIEU OF AG'S.
- AGRICULTURAL DRAINS ARE TO BE 760mm BELOW TOP OF KERB.
- BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF RUBBISH AND SPOIL FROM SITE.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO COMMENCEMENT OF WORKS.
- ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA PRIOR TO THE CONSTRUCTION OF FOOTPATH BAYS ADJACENT TO THESE PITS.
- THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETE MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- ALL GAS AND WATER CONDUIT TYPES ARE PVC CLASS 12 WITH A 50mm DIAMETER FOR RESIDENTIAL LOTS.
- TELSTRA/BNB Co TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE BEING PLACED.
- CONDUITS ARE TO BE EXTENDED 450mm BEHIND FACE OF KERB AND TO BE REFERENCED ON FACE OF KERB.
- ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF WHITTLESEA STANDARDS. STREET NAME PLATES TO BE IN ACCORDANCE WITH STANDARD DRAWING SDB12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.
- ALL DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. REFER EDM STD. DWG 601 FOR DETAILS.
- ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 6.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. FILLING TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.2.1-1993. TESTING TO COMPLY WITH AS3798-1996 APPENDIX B, LEVEL 1.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION No. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- FILL REQUIRED UNDER ROADWAY KERB AND CHANNEL AND FOOTPATH TO BE APPROVED GRANULAR MATERIAL COMPACTED TO 95% AASHO IN 150mm LAYERS.



- PAVEMENT DEPTH MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
- ALL 125mm THICK FOOTPATH CONCRETE PAVING TO BE REINFORCED WITH SL72 MESH AND MUST BE CONSTRUCTED WITH A 50mm UNDERLAYER OF 20mm COMPACTED CLASS 3 FCR IN ACCORDANCE WITH EDM STANDARD DRAWING 401.
- THE CONTRACTOR IS TO ORGANISE AND PAY FOR TESTING OF PAVEMENT BASE COURSE MATERIAL AND FINAL LAYER OF CRUSHED ROCK. A COPY OF RESULTS IS TO BE FORWARDED TO THE DIRECTOR OF ENGINEERING OR HIS REPRESENTATIVE. THE RESULTS MUST MEET THE REQUIREMENTS OF THE CITY OF WHITTLESEA SPECIFICATION BEFORE ANY FURTHER WORKS ARE REQUIRED.
- THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTANTMENT AT THE CONTRACTORS EXPENSE.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MM SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- ALL FOOTPATHS IN ROADS TO BE OFFSET 50mm FROM PROPERTY BOUNDARY. FOOTPATHS CONSTRUCTED ABOVE EXISTING LEVEL TO BE CONSTRUCTED ON APPROVED FILL (TO AS-3798) OF F.C.R. INTO NATURAL GROUND.
- REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS OF VEHICLE EXCLUSION FENCING AROUND PERIMETER OF WORKS.
- PRIOR TO COMMENCEMENT OF WORKS A RINGLOCK WIRE MESH FENCE, APPROX 1.8m HIGH, SHALL BE ERECTED AROUND TREES NOTED "TO BE RETAINED". CORNER POSTS TO BE TREATED PINE WITH TREATED PINE STAYS. INTERMEDIATE POSTS TO BE STAR PICKETS AT 3m INTERVALS. EVERY THIRD POST TO BE TREATED PINE. NO CONCRETE IS TO BE USED TO SECURE POSTS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY TREE UNTIL APPROVAL IS GIVEN BY THE ENGINEER.
- ALL FENCES ADJOINING ALL RESERVES (OTHER THAN ROAD RESERVES) ARE TO BE ERECTED BY THE DEVELOPER (OR OWNER) AT NO COST TO COUNCIL AND SHALL BE CONSTRUCTED PRIOR TO STATEMENT OF COMPLIANCE IN ACCORDANCE WITH CONDITION 43 OF THE PERMIT.
- EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.
- TACTILE GROUND SURFACE INDICATORS (TGS1) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH AS1428 AND SD320.
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE WHITTLESEA CITY COUNCIL SPECIFICATIONS.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURE / FENCES AND OR ANY RETAINING WALLS 600mm IN HEIGHT.
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER / OR THEIR REPRESENTATIVE.
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER / OR THEIR REPRESENTATIVE.
- ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIRE-FIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A., M.F.E.S.B. & N.R.E.). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.

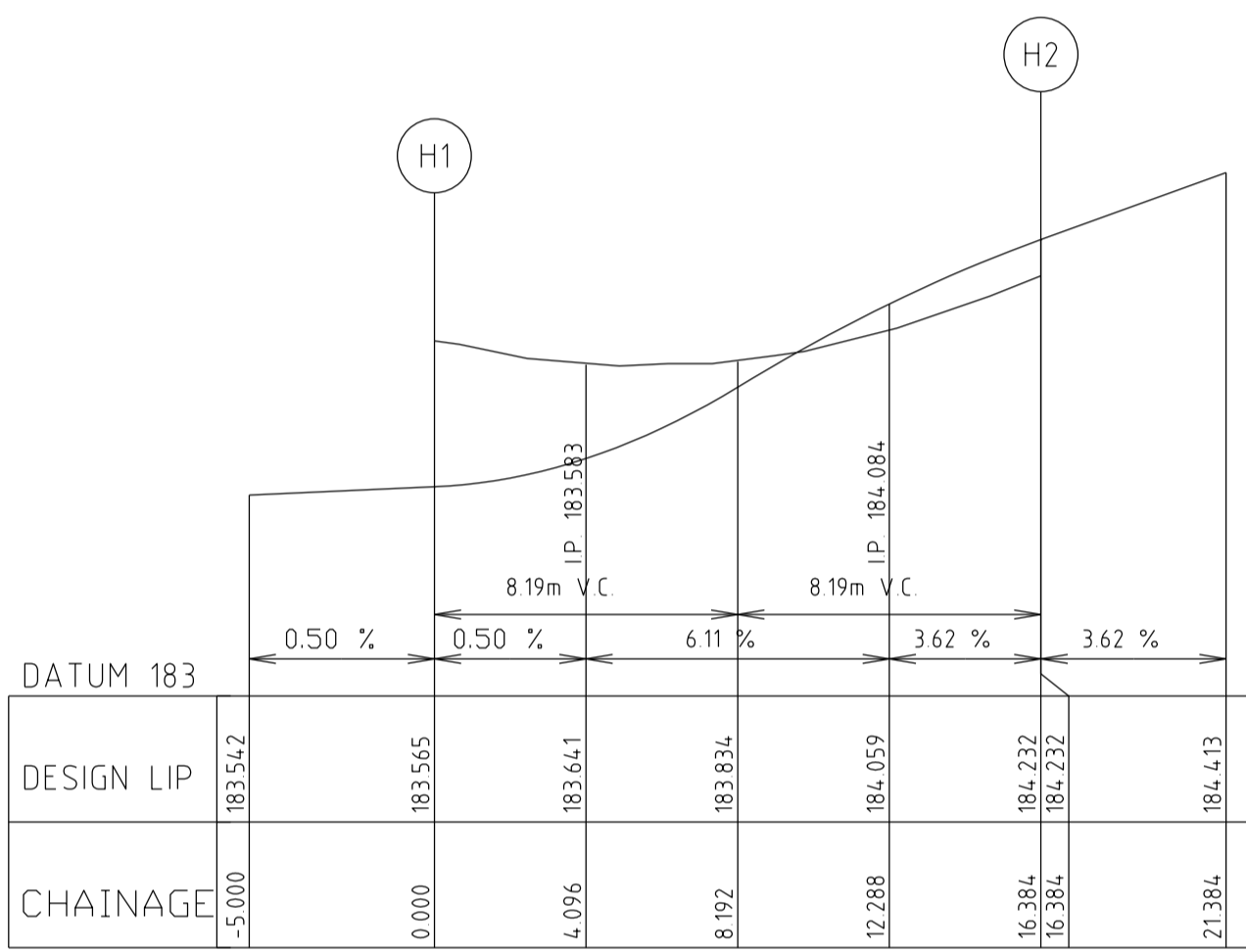
AMENDMENTS				<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p> <p>1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310</p>	
			<p>MELWAY REF. 388-C-10</p> <p>SURVEY BPD</p> <p>DESIGN RGW</p> <p>DRAWN RGW</p> <p>CHECKED</p>	<p>RATHDOWNE ESTATE STAGE 6B</p> <p>NOTES AND TYPICAL SECTIONS</p>	<p>MUNICIPALITY WHITTLESEA</p> <p>REFERENCE 9365 E/6B</p>
A	23-09-20	ISSUE FOR CONSTRUCTION		<p>SCALE AS SHOWN DATUM AHD DATE SEP'20</p> <p>SHEET 2 OF 10</p>	



Alignment G

Point no	Easting	Northing	RL
G 1	321950.966	5836823.957	183.567
G 2	321938.824	5836829.703	183.696
G 3	321949.281	5836827.387	183.599
G 4	321946.276	5836829.748	183.652
G 5	321942.544	5836830.575	183.699

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
G 1	2	-102.697	-8.600	15.415	3.229	2.380	2.990	3.726	183.652



Alignment H

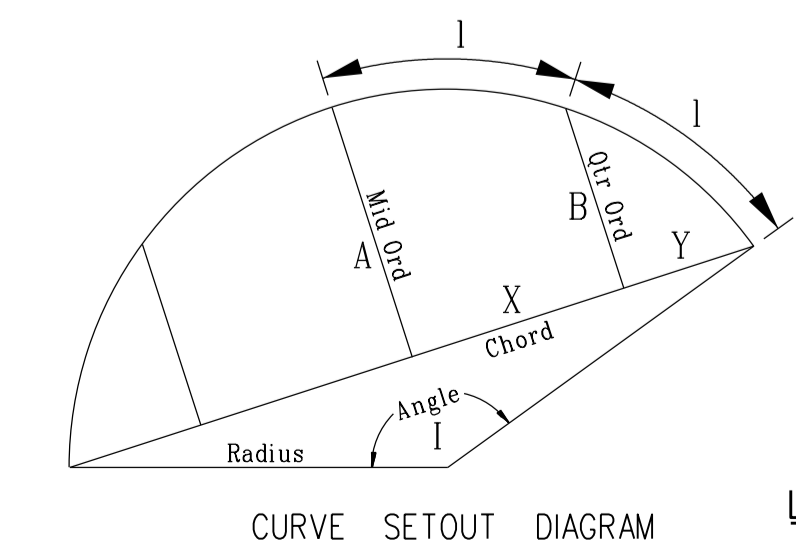
Point no	Easting	Northing	RL
H 1	321957.293	5836824.997	183.565
H 2	321966.657	5836835.426	184.232
H 3	321957.363	5836829.054	183.641
H 4	321959.285	5836832.627	183.834
H 5	321962.632	5836834.921	184.059

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
H 1	2	109.152	8.600	16.384	3.615	2.658	3.065	3.943	183.834

Alignment C

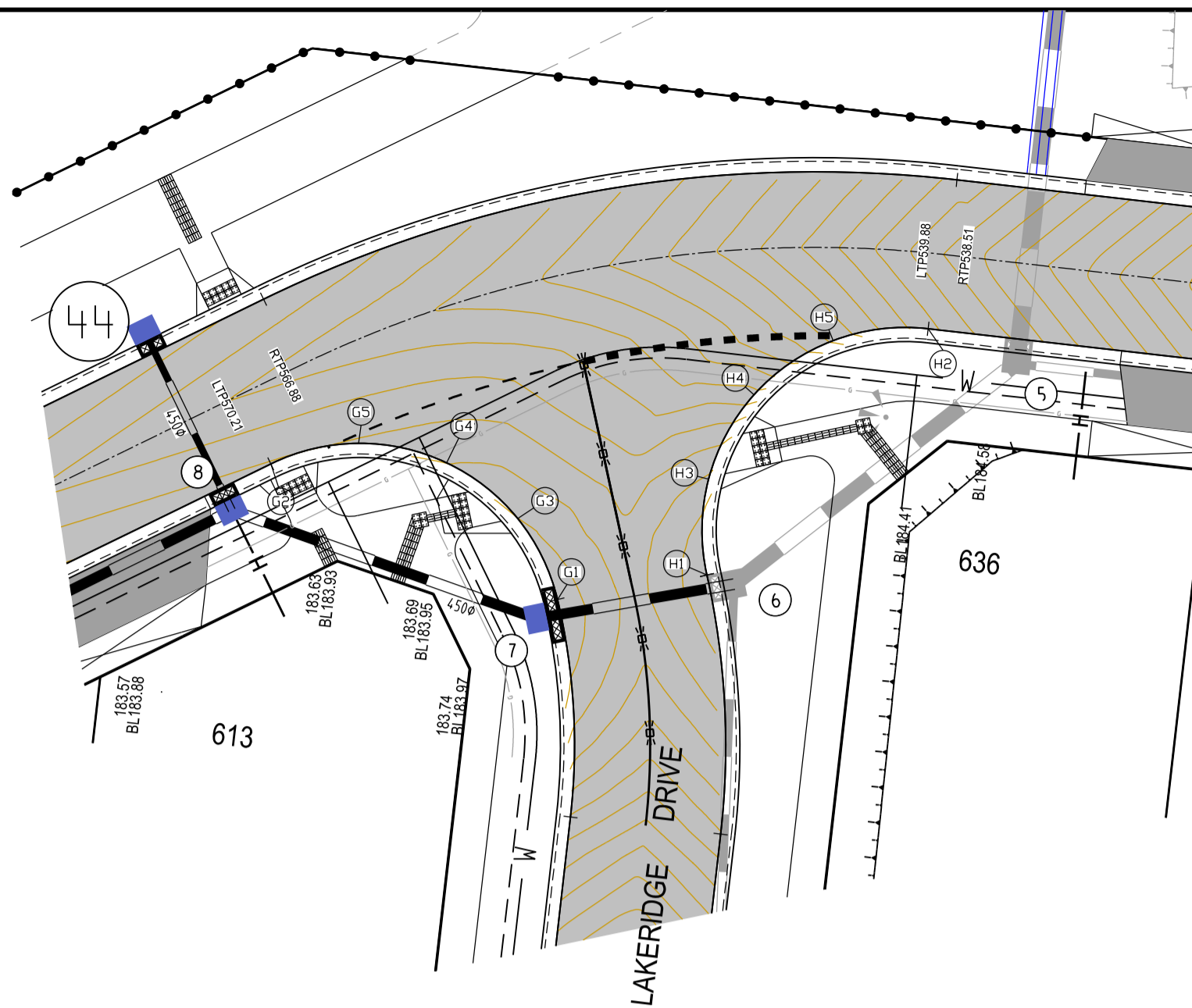
Point no	Easting	Northing	RL
C 1	321940.129	583658.181	185.960
C 2	321939.447	583652.188	185.408
C 3	321938.715	583649.518	185.876
C 4	321938.139	583644.247	185.802
C 5	321938.254	583644.716	185.769
C 6	321939.342	583651.501	185.900
C 7	321939.184	583650.825	185.892
C 8	321938.475	583650.162	185.884
C 9	321938.261	583648.251	185.858
C 10	321938.010	583646.828	185.810
C 11	321937.969	583645.582	185.820
C 12	321938.243	583644.819	185.793
C 13	321938.296	583642.486	185.785
C 14	321938.101	583642.350	185.777

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
C 2	3	17.693	9.000	2.779	0.107	0.080	0.690	0.694	185.892
C 4	5	-35.915	-8.600	5.391	0.419	0.314	1.309	1.342	185.840
C 5	5	18.222	8.000	2.544	0.101	0.076	0.631	0.635	185.785



LIP OF KERB PROFILES
SCALE: HORIZONTAL 1:200
VERTICAL 1:20

INTERSECTION DETAILS
SCALE 1:200
SCALE 1:200
LENGTHS ARE IN METRES



1) HAZARD / DIRECTIONAL TGS1'S SHOWN THUS [] / [] AND FOOTPATH RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGS1'S SHALL CONFORM TO AS1428.4

Alignment A

Point no	Easting	Northing	RL
A 1	321864.478	5836667.071	185.900
A 2	321872.006	5836657.554	185.499
A 3	321864.753	5836663.738	185.826
A 4	321866.279	5836660.762	185.688
A 5	321868.825	5836658.531	185.555

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
A 1	2	-89.701	-8.600	13.464	2.503	1.853	2.785	3.281	185.688

Alignment B

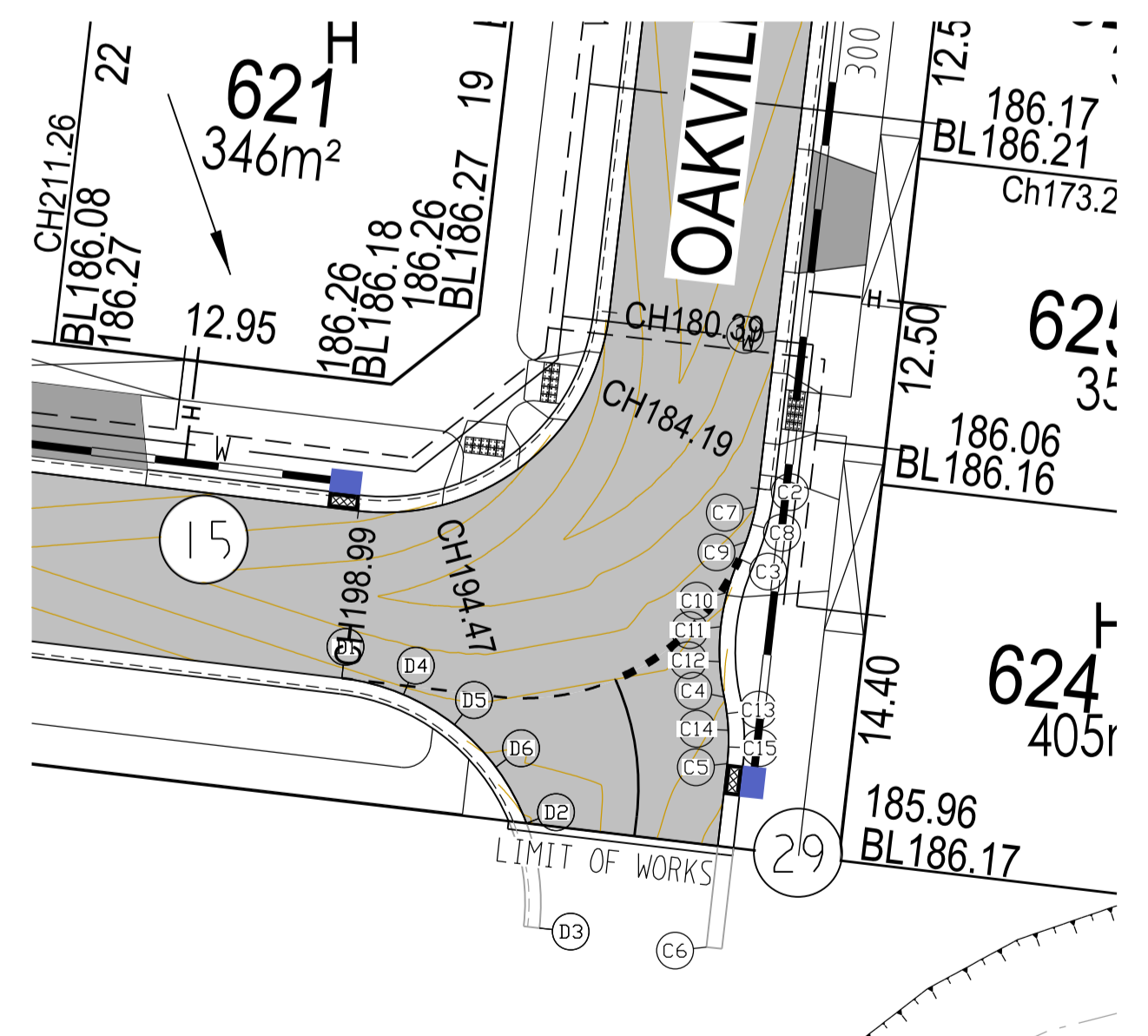
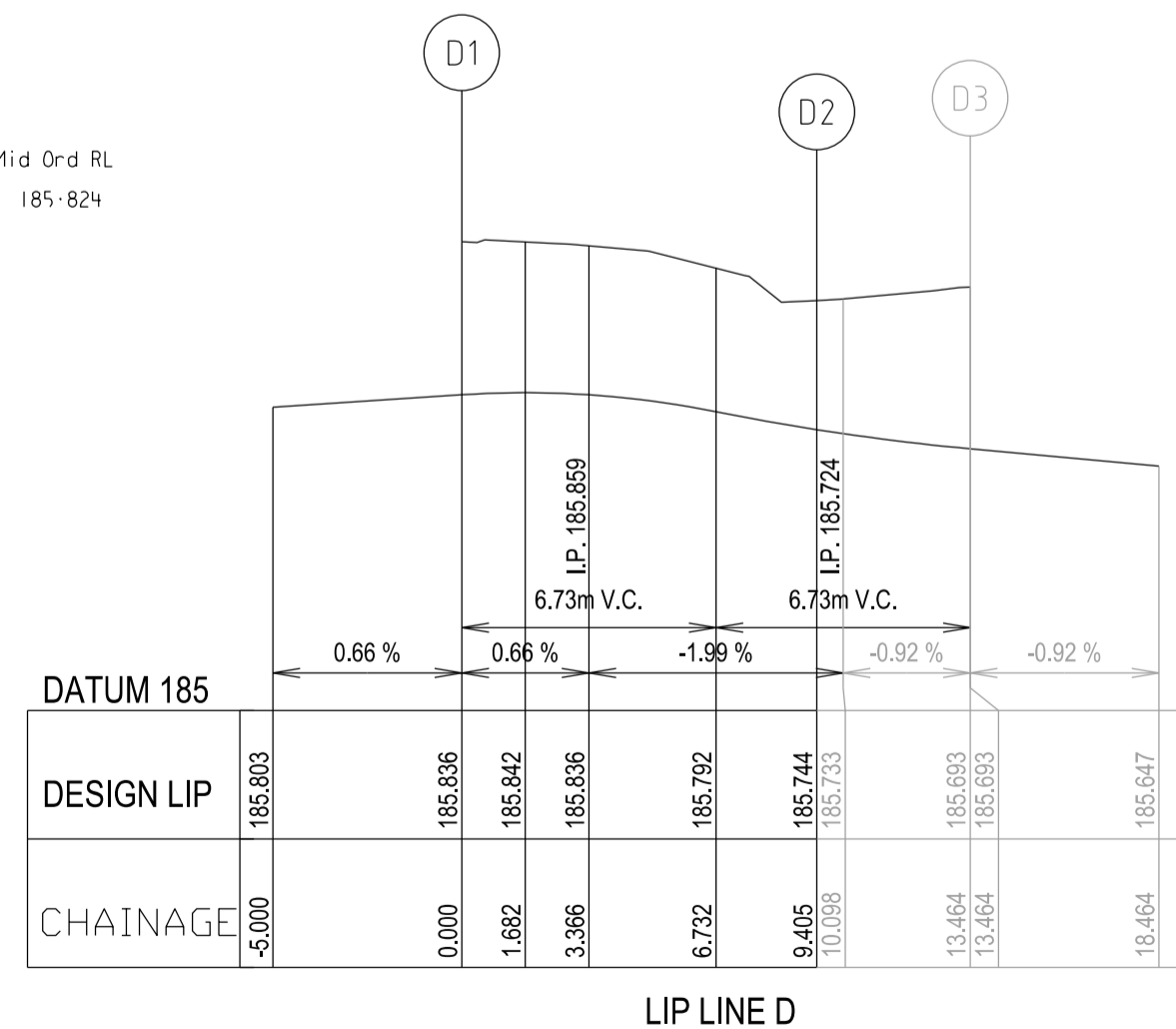
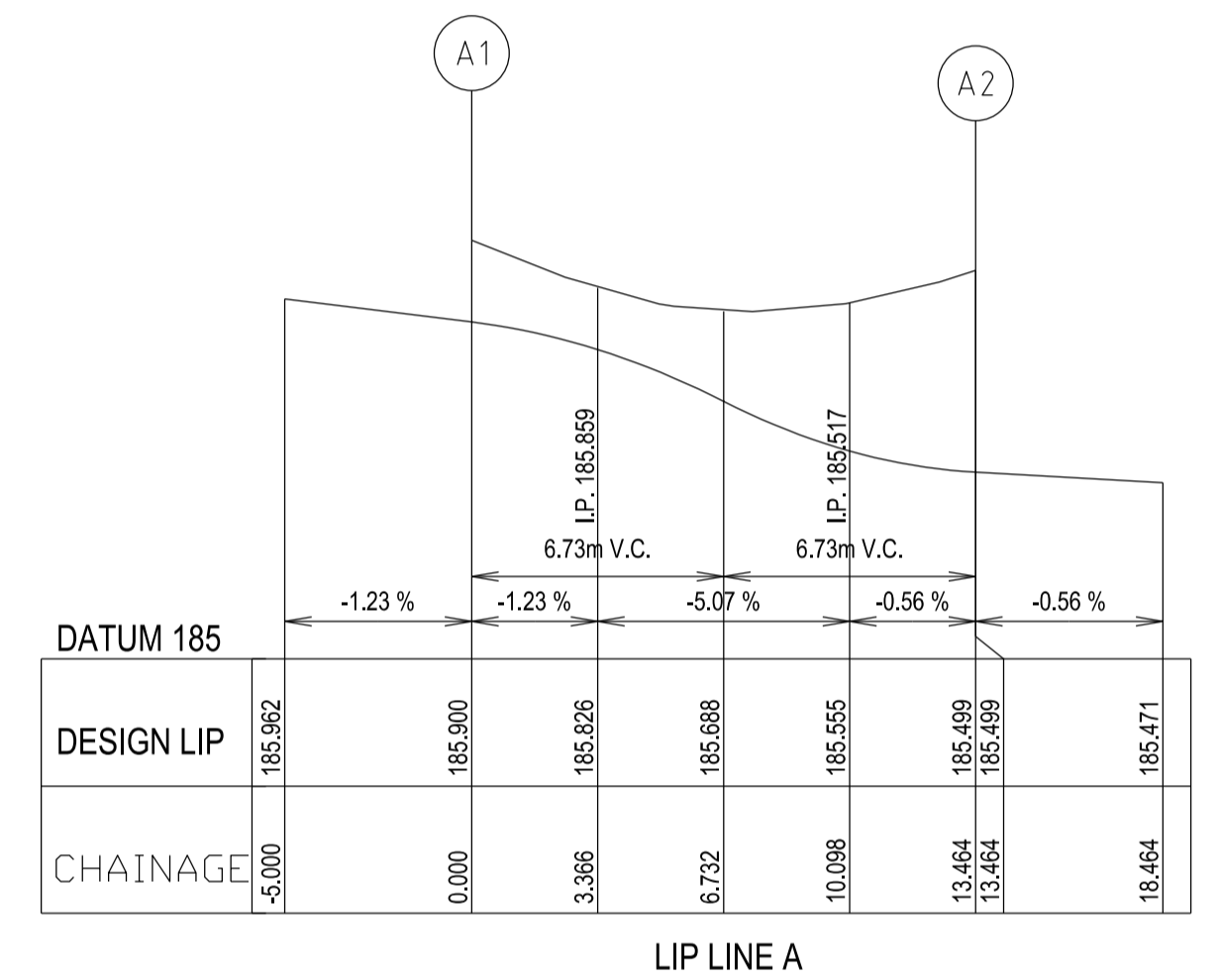
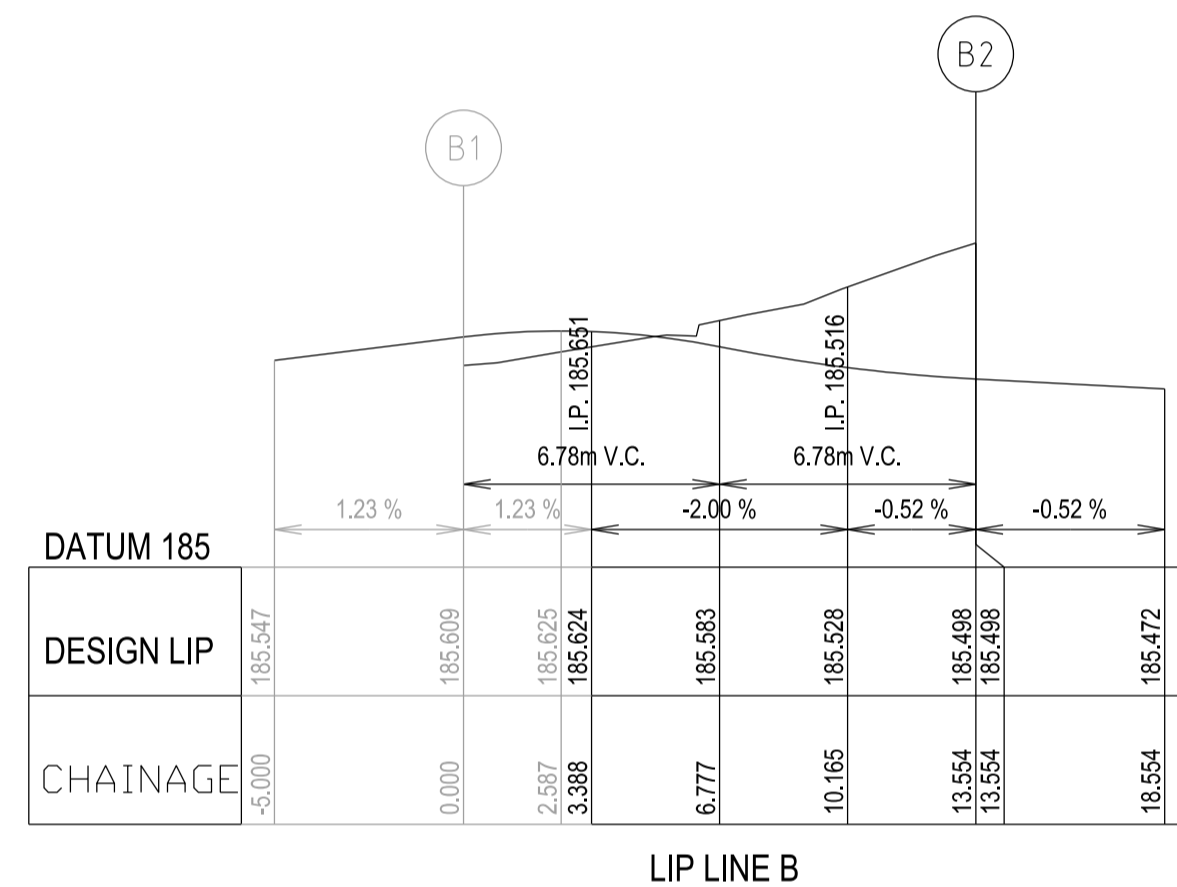
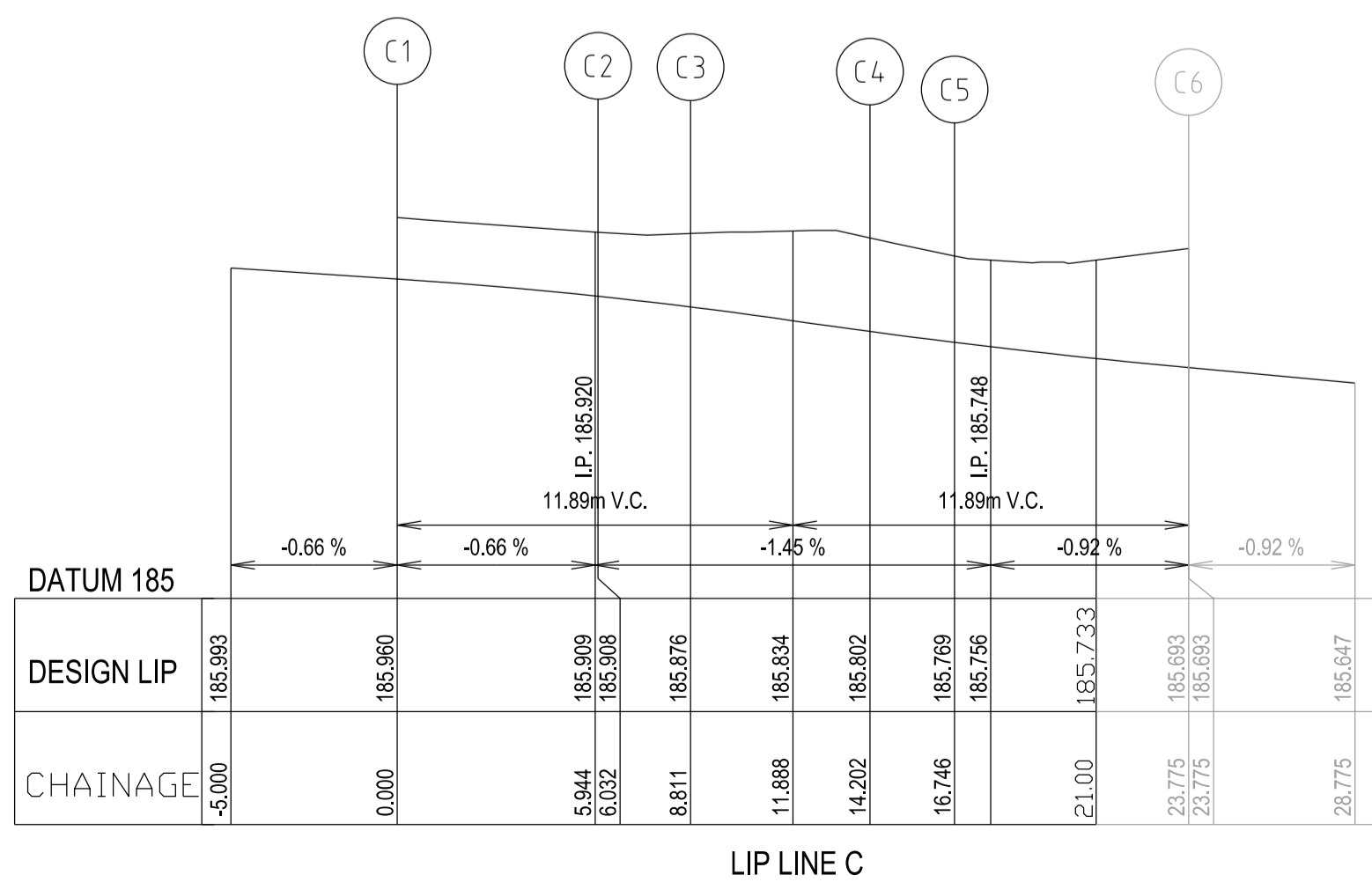
Point no	Easting	Northing	RL
B 2	321871.371	5836651.191	185.498
B 3	321862.837	5836646.830	185.624
B 4	321865.017	5836649.394	185.583
B 5	321868.015	5836650.927	185.526

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
B 1	2	90.298	8.600	13.554	2.535	1.876	2.796	3.301	185.583

Alignment D

Point no	Easting	Northing	RL
D 1	321921.574	5836644.968	185.836
D 2	321930.609	5836639.447	185.744
D 4	321925.892	5836644.376	185.841
D 5	321927.865	5836643.194	185.824
D 6	321929.495	5836641.509	185.785

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
D 1	2	62.658	8.600	9.405	1.254	0.934	2.150	2.322	185.824



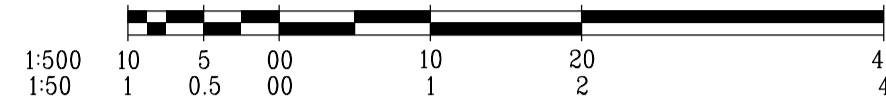
		breese pitt dixon pty. ltd. land surveyors civil engineers	
1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310		MUNICIPALITY WHITTLESEA	
RATHDOWNE ESTATE STAGE 6B INTERSECTION DETAILS		REFERENCE 9365 E/6B	
AMENDMENTS A 23.09.20 ISSUE FOR CONSTRUCTION	MELWAY REF. 388-C-10 SURVEY BPD DESIGN RGW	SCALE AS SHOWN DATUM AHD DATE SEP'20	CHECKED RGW DATE SEP'20 SHEET 3 OF 10

PROPOSED STAGE 6 WORKS

LAKERIDGE DRIVE

LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50

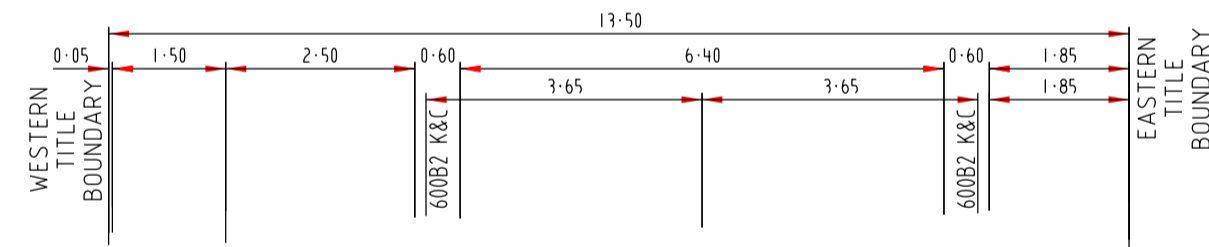


FUTURE DEVELOPMENT

LIMIT OF CONSTRUCTION

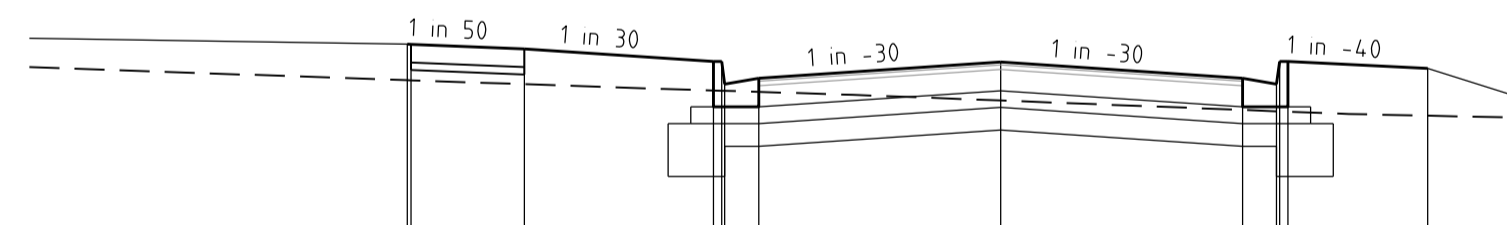
LIMIT OF CONSTRUCTION

VC LENGTH	DESIGN GRADELINE	DATUM 181
	-3.39%	
	20.00VC	
	-0.50%	
	4.00VC	
	178%	
	30.00VC	
	3.19%	
	4.00VC	
	-12.3%	
ES LEFT TITLE BDY		
FS LEFT TITLE BDY		
LEFT LIP OF KERB		
DESIGN CL		
RIGHT LIP OF KERB		
FS RIGHT TITLE BDY		
ES RIGHT TITLE BDY		
CHAINAGE CENTRE LINE		



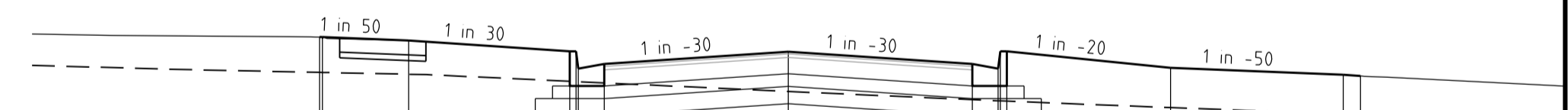
DATUM RL183.0	
DESIGN SURFACE	185.23 185.35 185.32
EXISTING SURFACE	185.23 185.23 185.23
OFFSET	-7.85 -7.80 -6.30

513.22



DATUM RL182.0	
DESIGN SURFACE	184.49 184.49 184.46
EXISTING SURFACE	184.26 184.26 184.23
OFFSET	-7.85 -7.80 -6.30

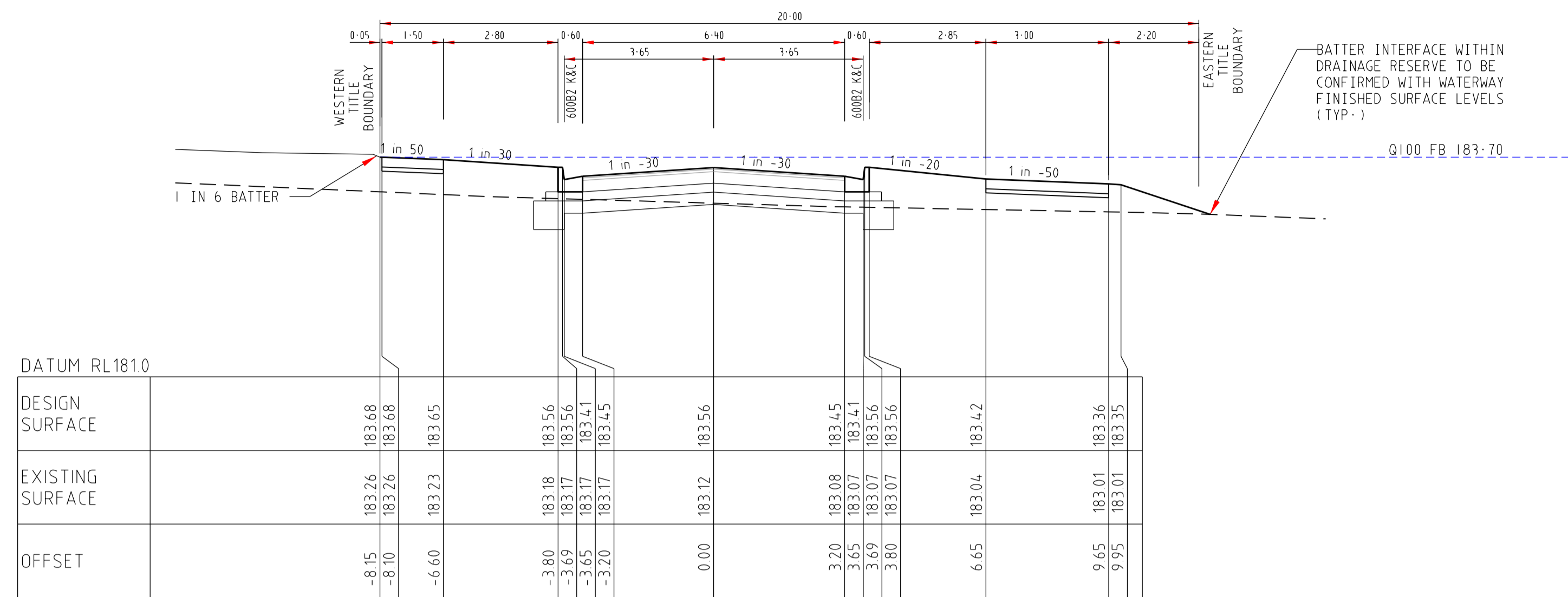
538.51



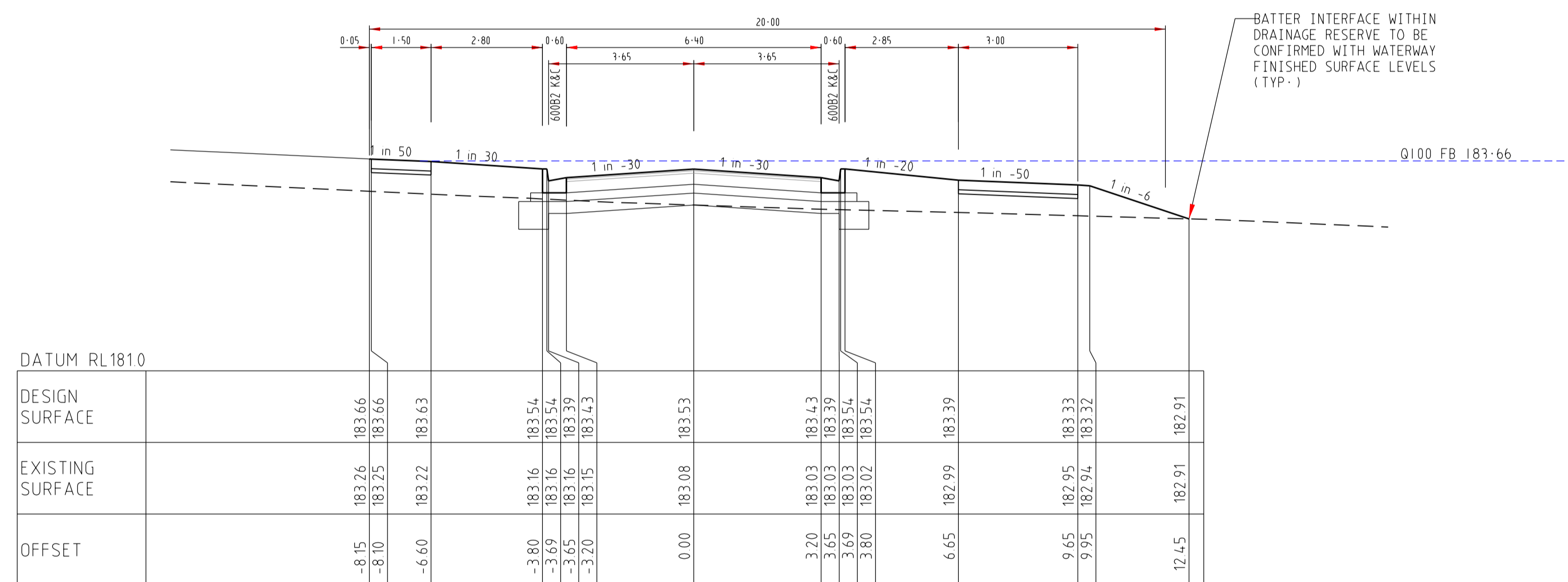
DATUM RL182.0	
DESIGN SURFACE	183.93 183.93 183.81
EXISTING SURFACE	183.62 183.62 183.62
OFFSET	-8.15 -8.10 -6.60

570.21

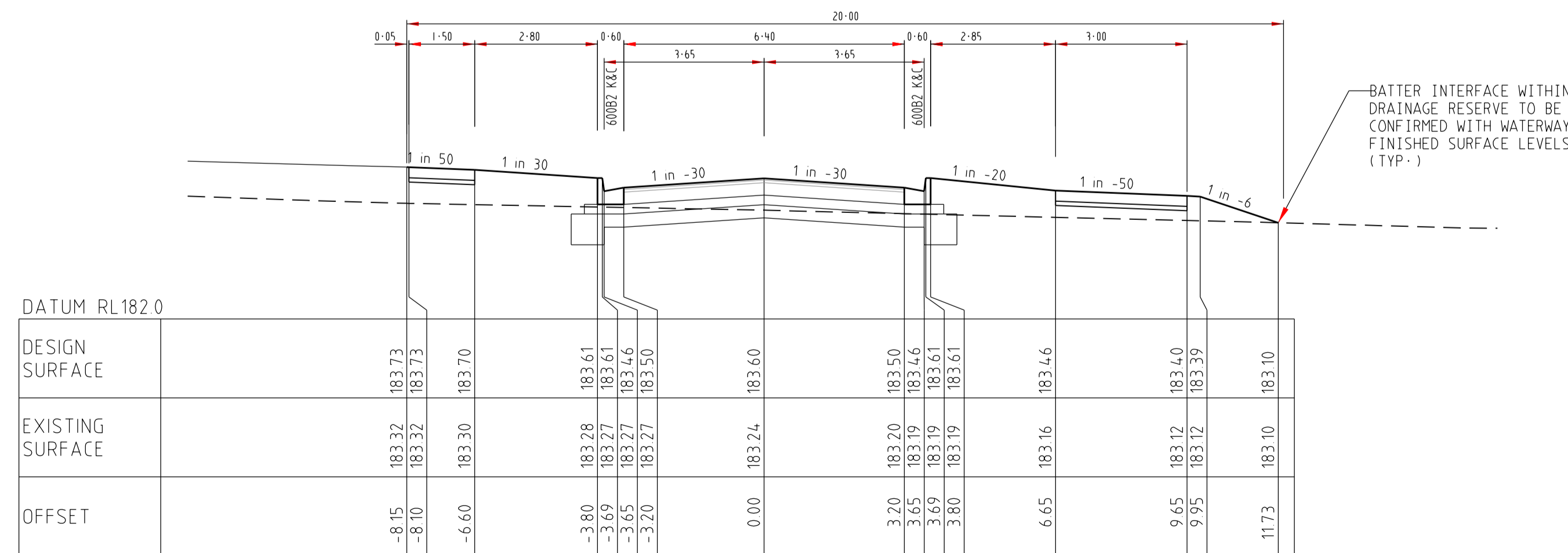
		breese pitt dixon Pty. Ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS A 23.09.20 ISSUE FOR CONSTRUCTION		MELWAY REF. 388-C-10 SURVEY BPD DESIGN RGW DRAWN RGW		RATHDOWNE ESTATE STAGE 6B LAKERIDGE DRIVE LONGITUDINAL SECTION	
VER DATE REMARKS		CHECKED SCALE AS SHOWN DATUM AHD DATE SEP'20		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/6B SHEET 4 OF 10	



619.53



633.93

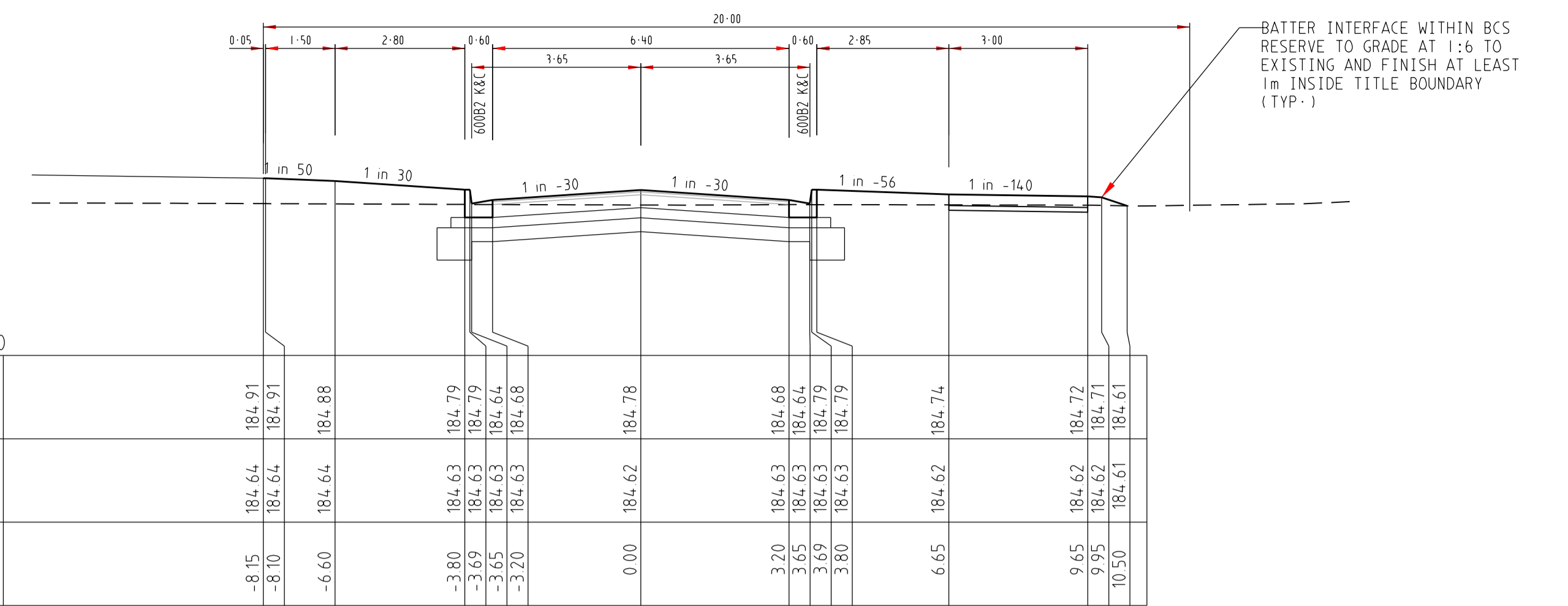


645.46

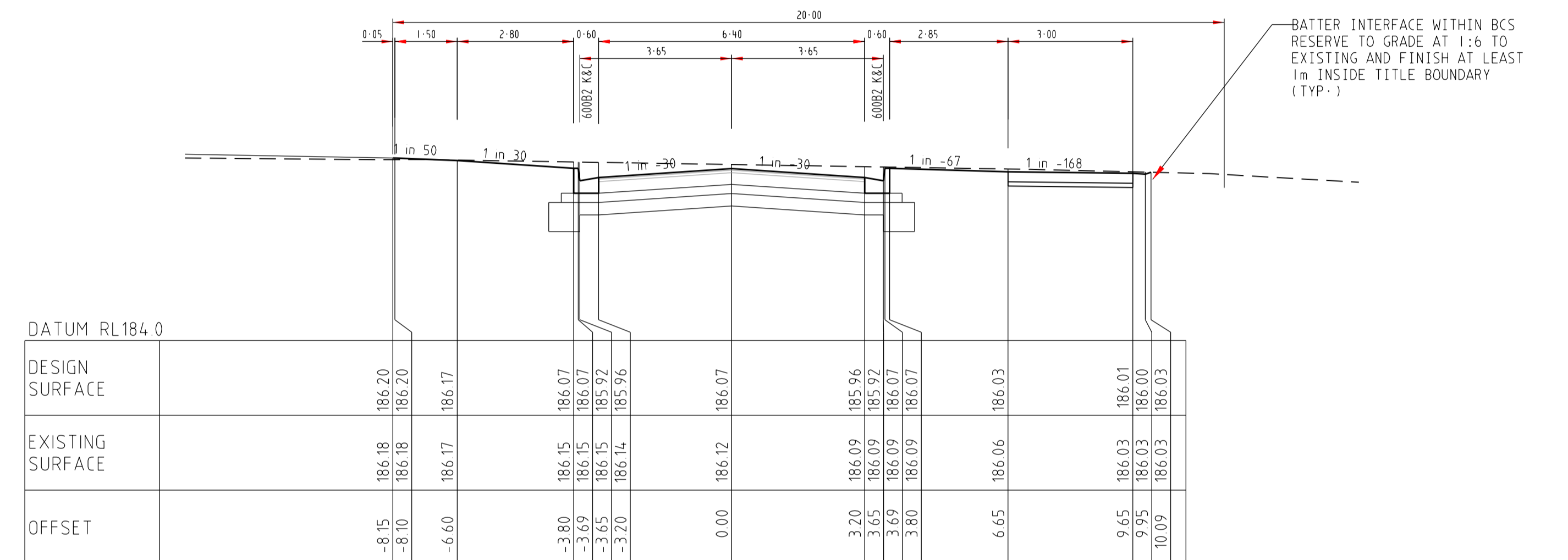
LAKERIDGE DRIVE

CROSS SECTION

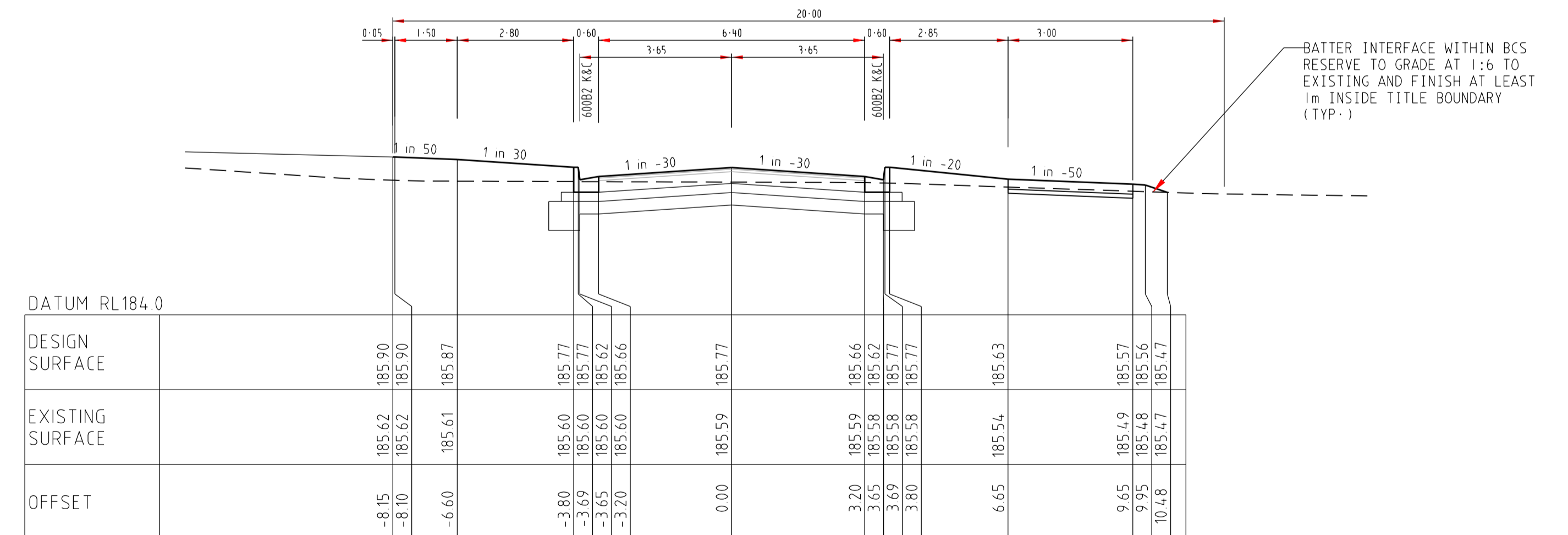
SCALE HORIZONTAL 1:100
VERTICAL 1:50



704.66

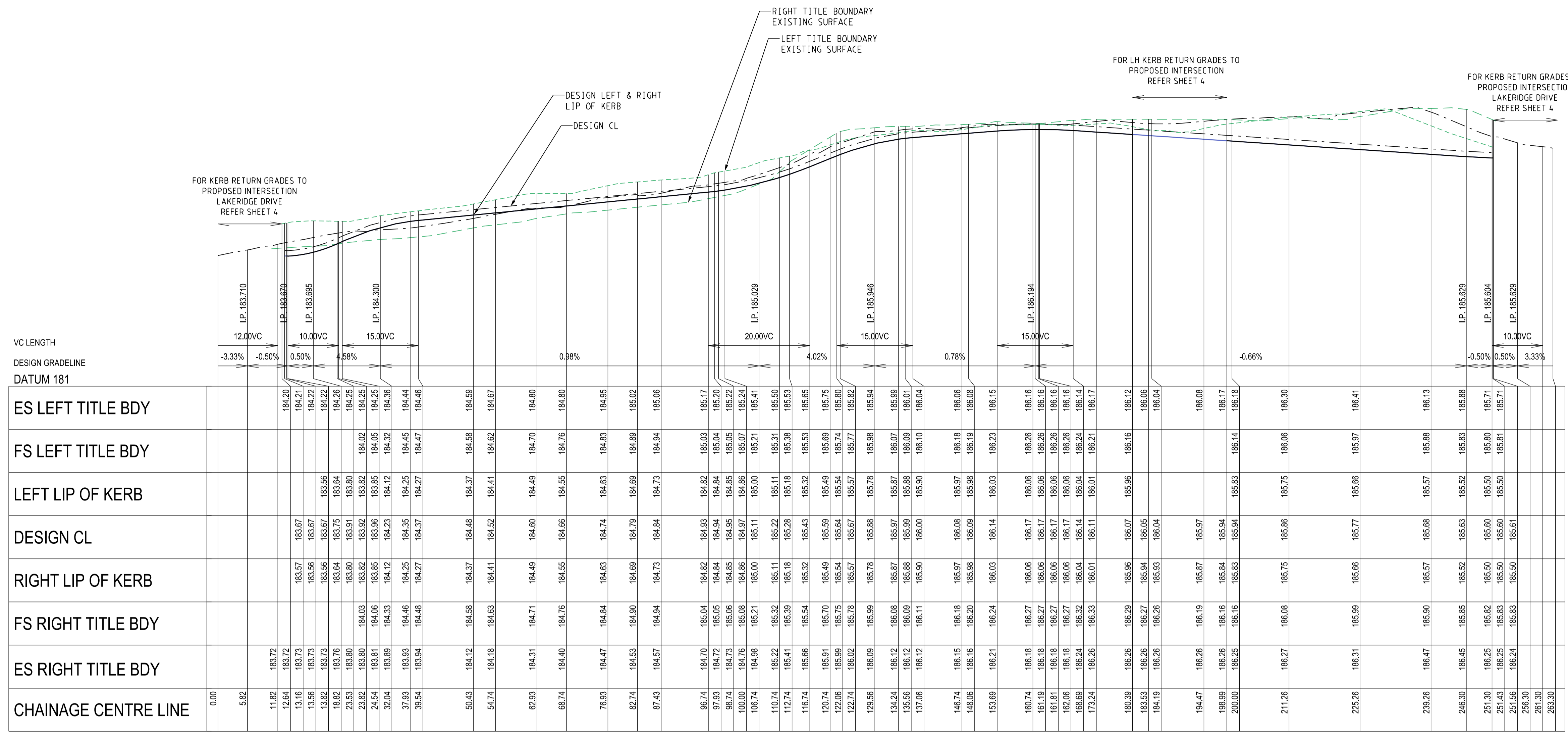


754.16



791.26

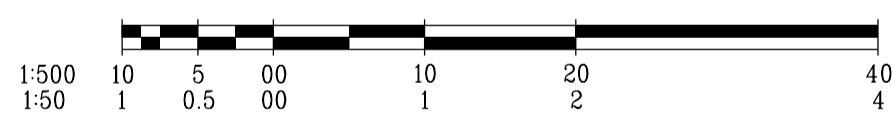
AMENDMENTS		MELWAY REF. 388-C-10		breese pitt dixon Pty. Ltd. land surveyors		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		SURVEY BPD		RATHDOWNE ESTATE STAGE 6B		MUNICIPALITY WHITTLESEA	
		DESIGN RGW		DRAWN RGW		REFERENCE 9365 E/6B	
A 23-09-20 ISSUE FOR CONSTRUCTION		CHECKED		SCALE AS SHOWN		DATE SEP'20	
VER DATE REMARKS		DATE		DATUM AHD		SHEET 5 OF 10	



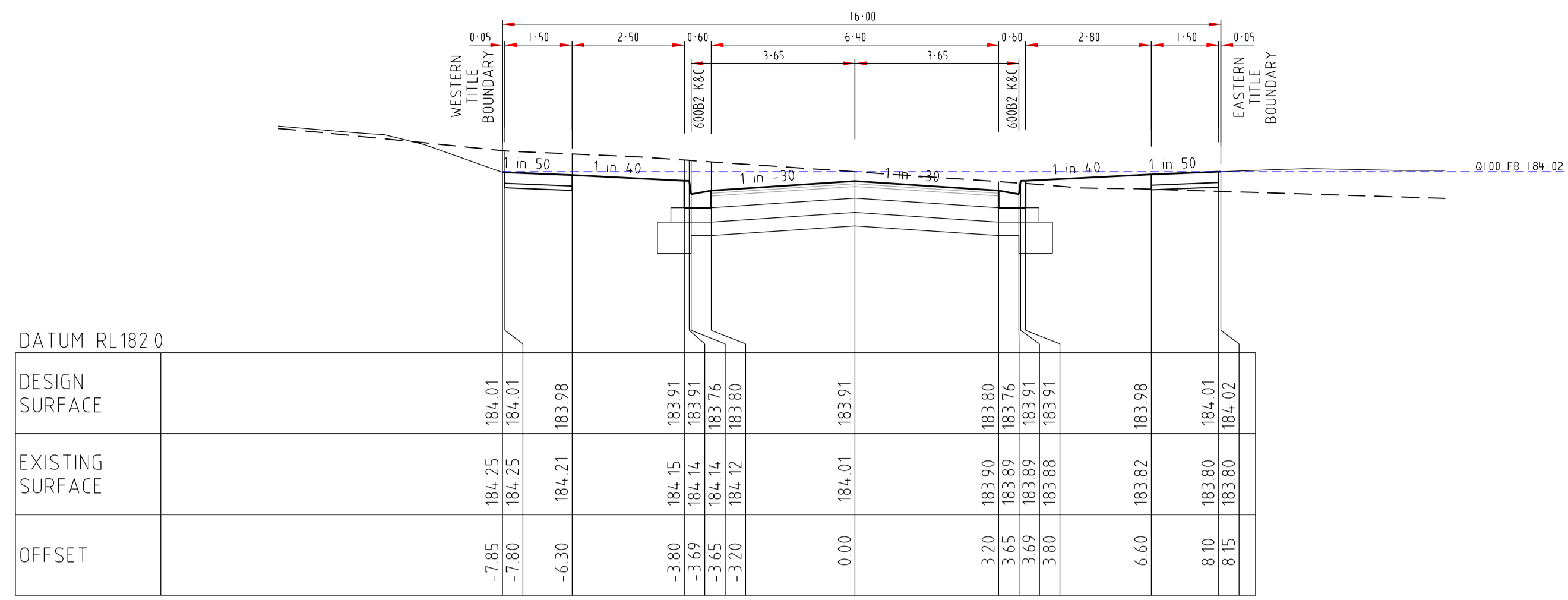
OAKVILLE PLACE

LONGITUDINAL SECTION

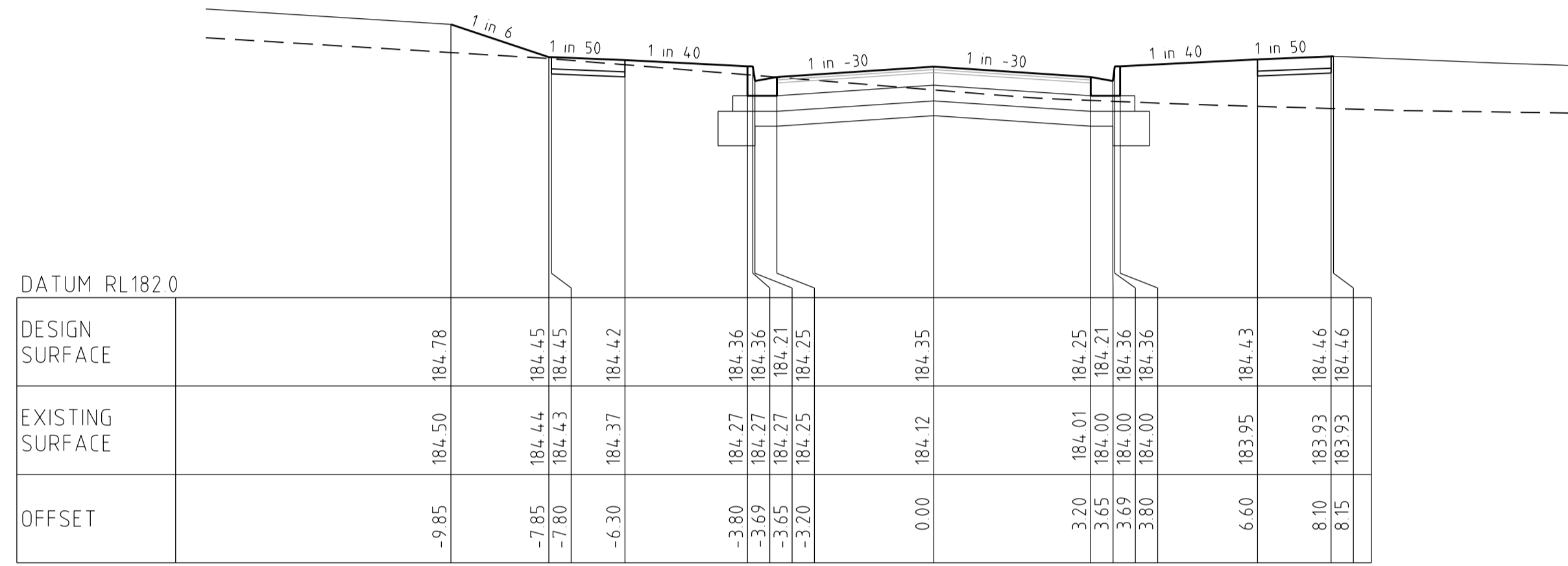
SCALE HORIZONTAL 1:500
VERTICAL 1:50



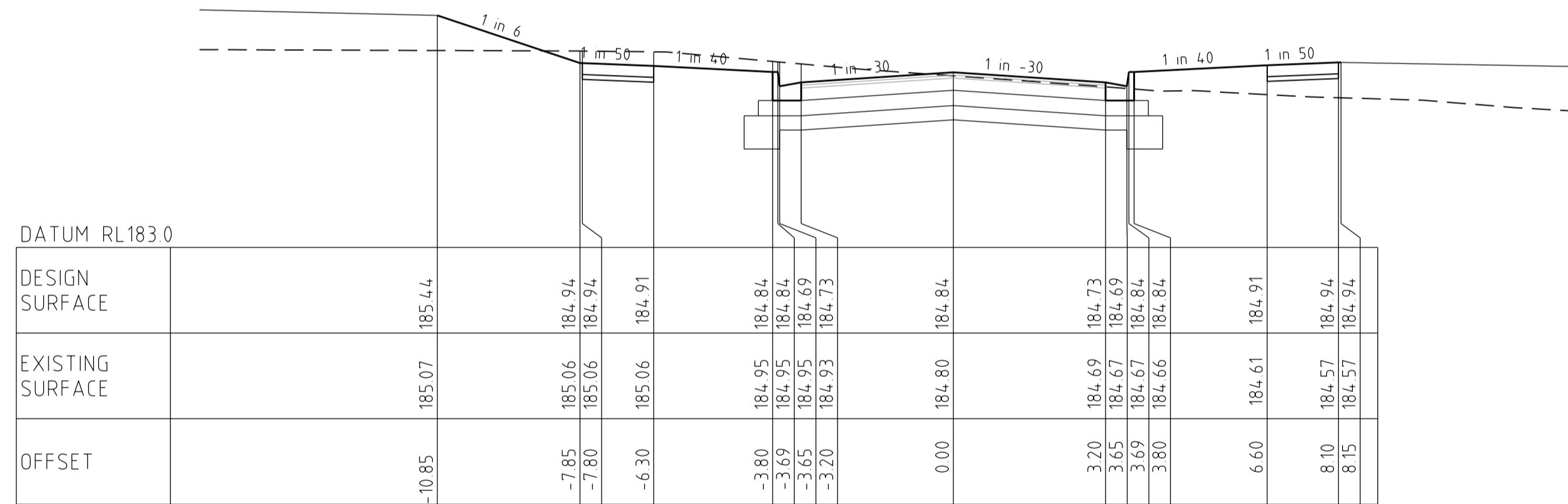
AMENDMENTS		 breese pitt dixon Pty. Ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310				
				MELWAY REF. 388-C-10 SURVEY BPD DESIGN RGW				
A 23-09-20 ISSUE FOR CONSTRUCTION		RATHDOWNE ESTATE STAGE 6B		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/6B				
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE SEP'20	SHEET 6 OF 10	A



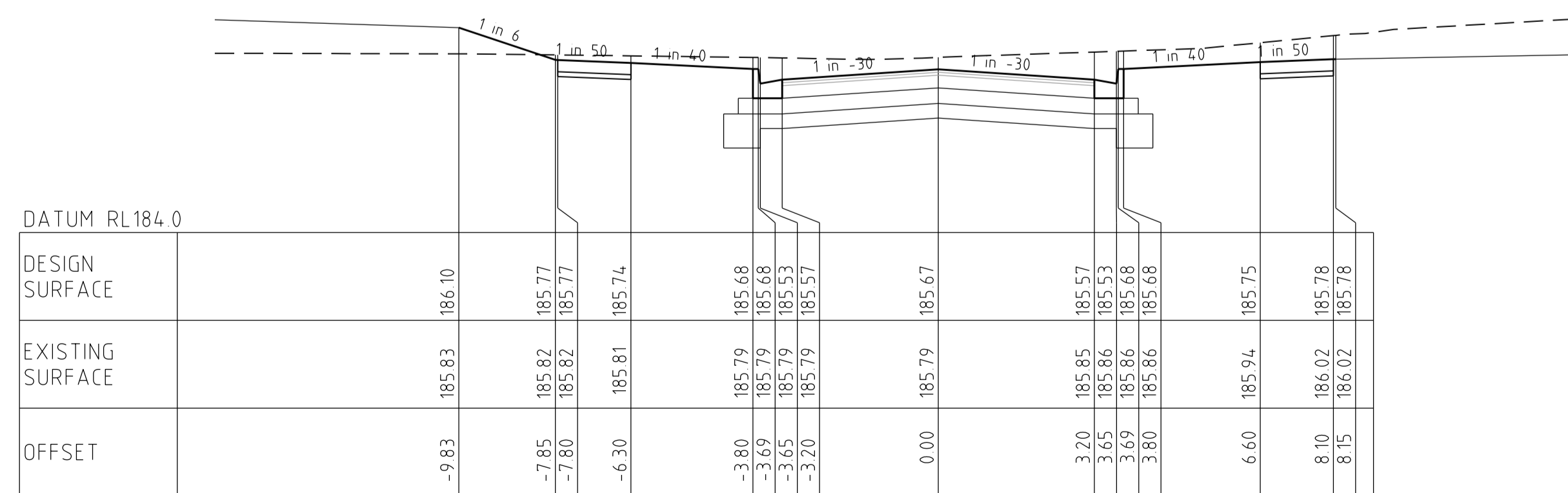
2354



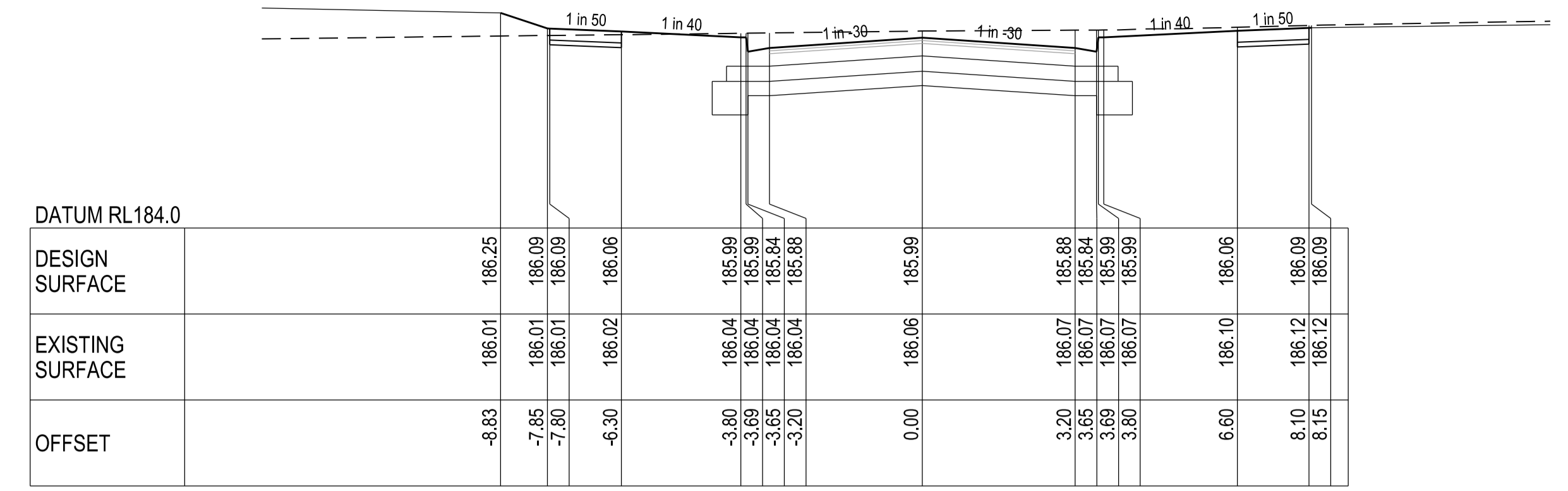
37.93



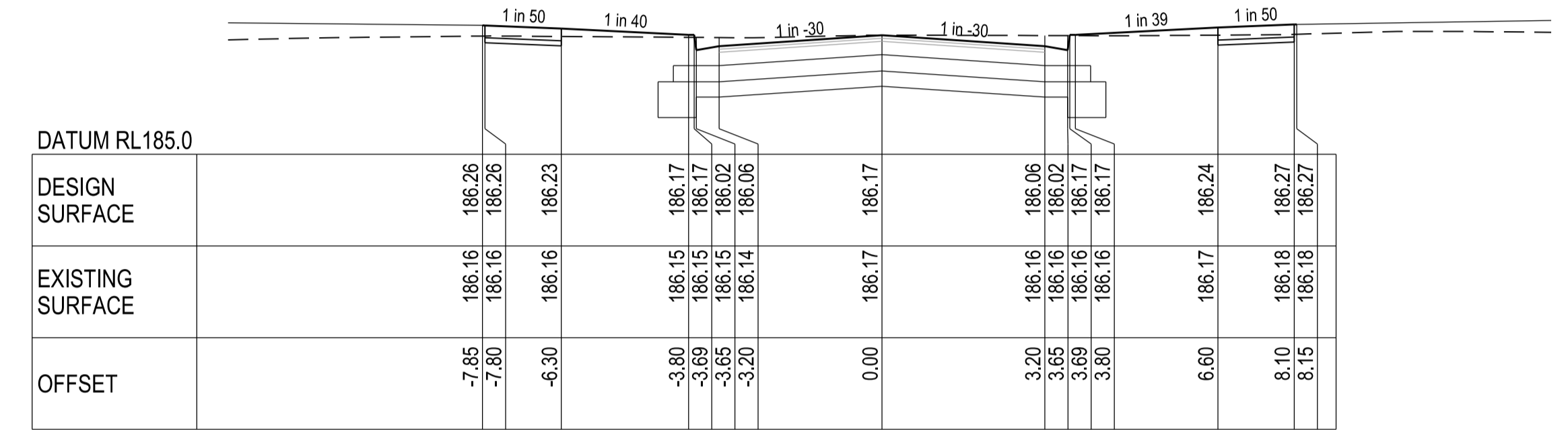
87.43



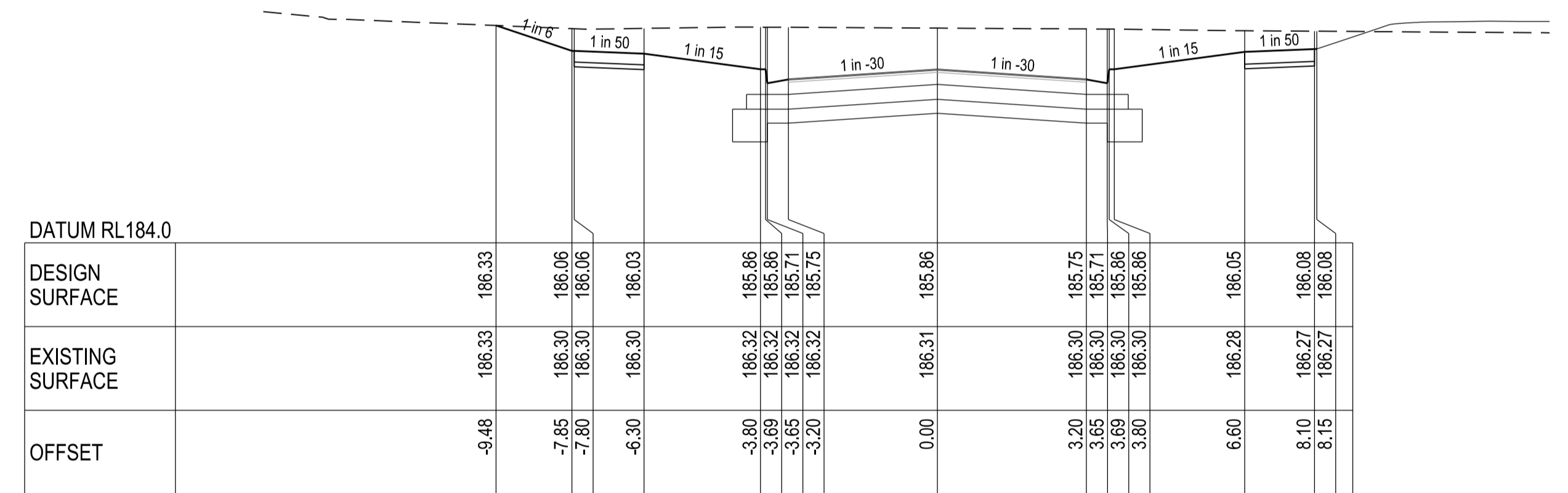
122.74



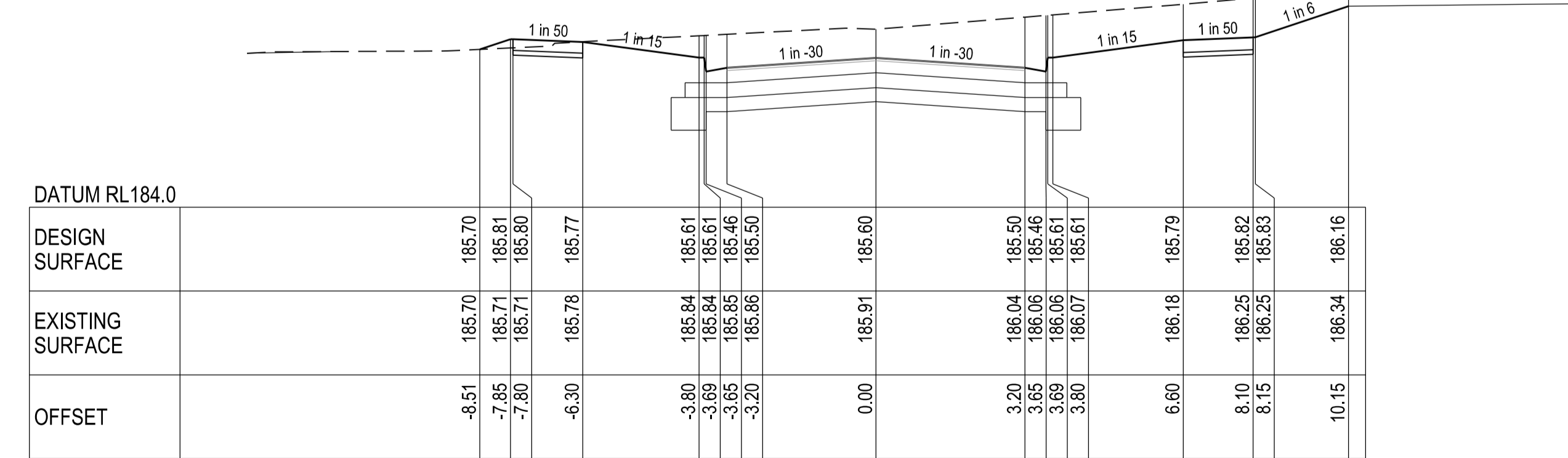
135.56



162.06



211.26

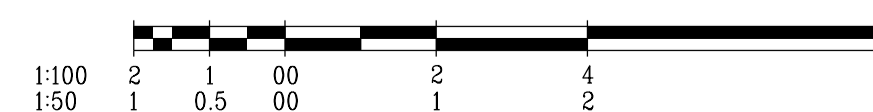


251.43

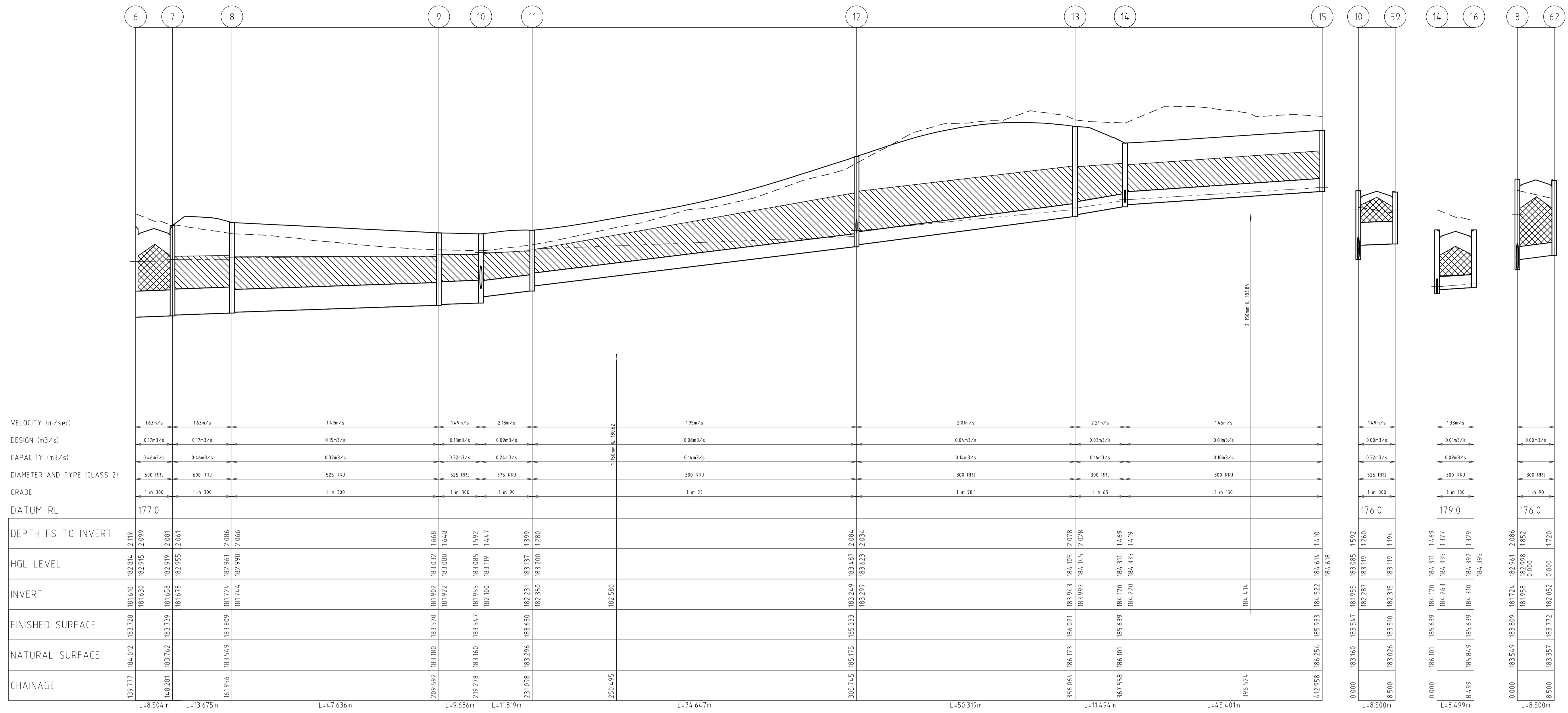
OAKVILLE PLACE

CROSS SECTION

SCALE HORIZONTAL 1:100
VERTICAL 1:50

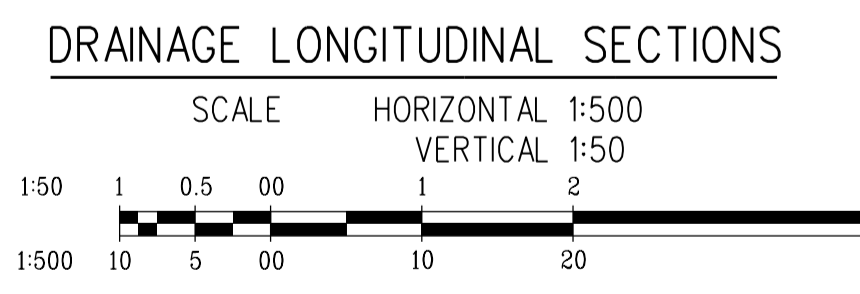


		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C-110 SURVEY BPD DESIGN RGW		RATHDOWNE ESTATE STAGE 6B		MUNICIPALITY WHITTLESEA	
DRAWN RGW		OAKVILLE PLACE CROSS SECTIONS		REFERENCE 9365 E/6B	
AMENDMENTS A 23-09-20 ISSUE FOR CONSTRUCTION	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE SEP'20	SHEET 7 OF 10

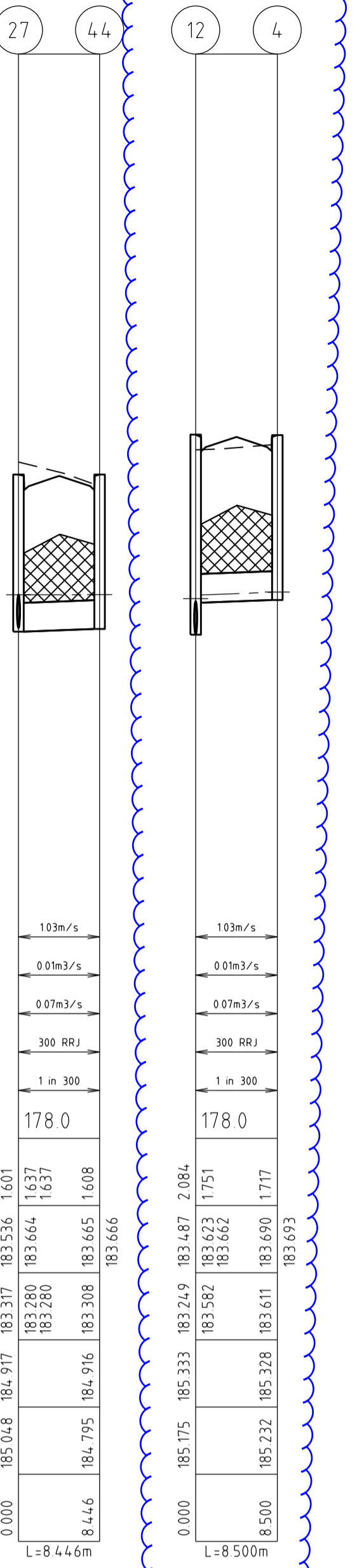
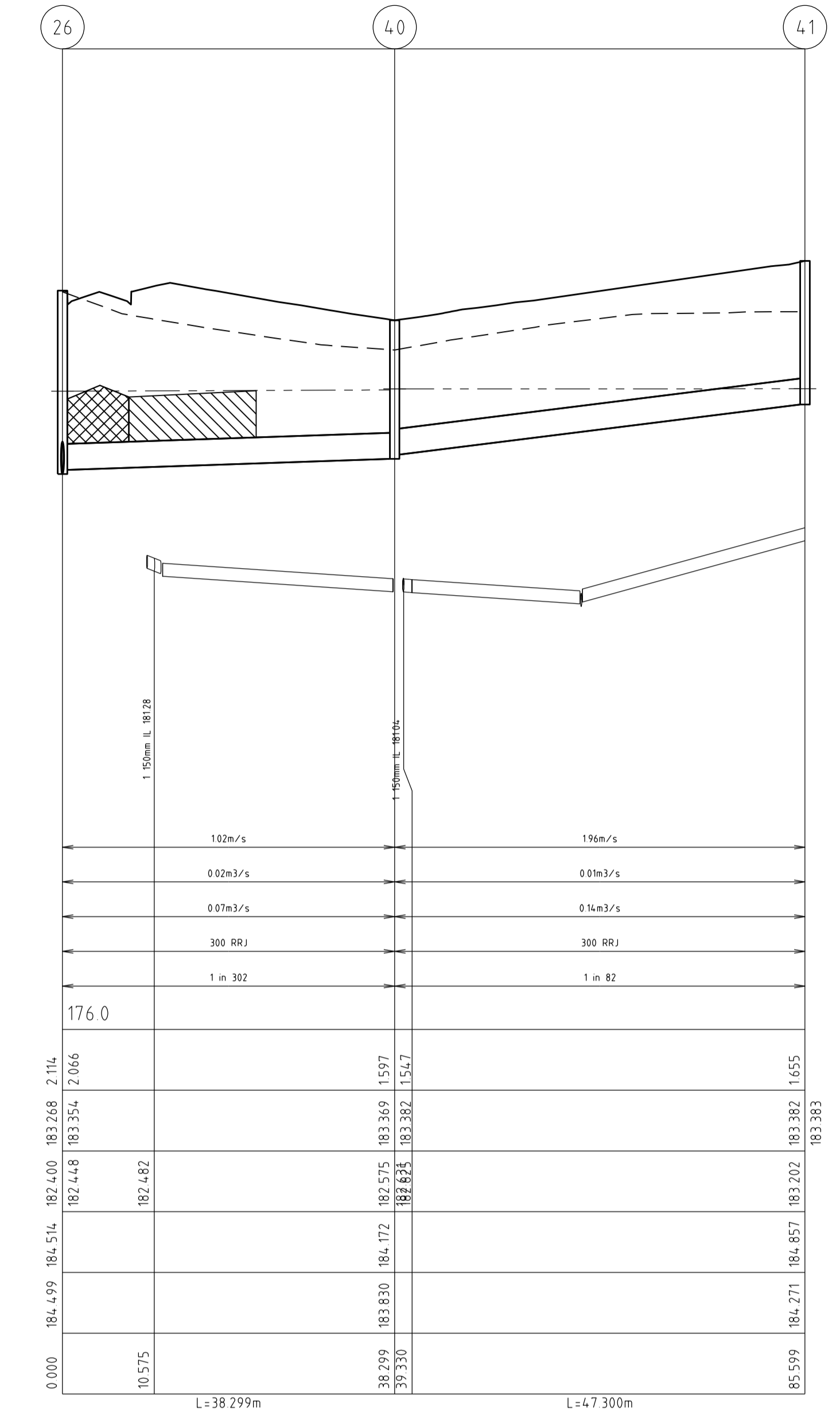
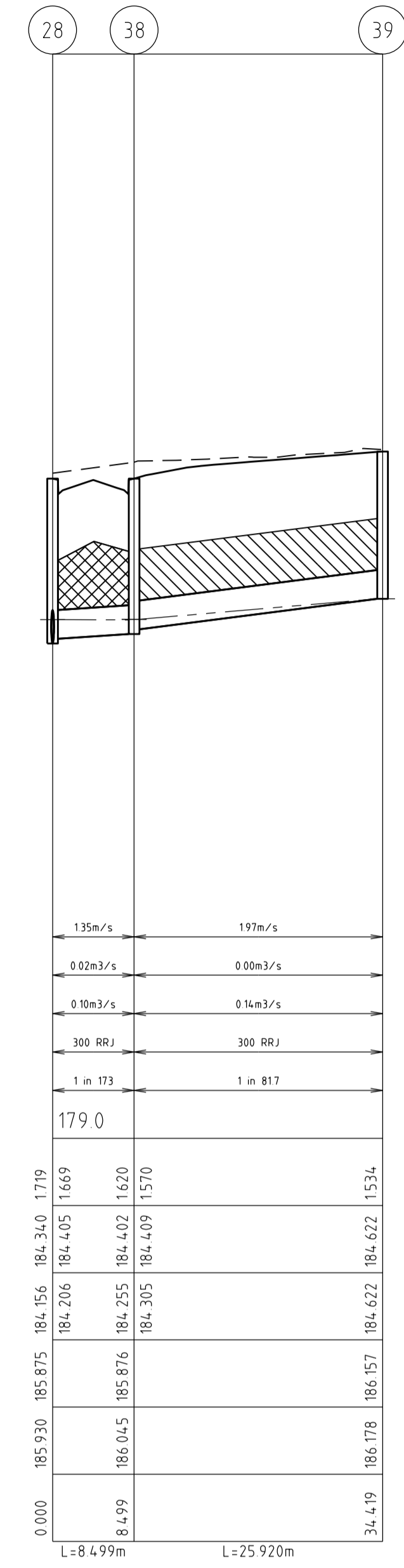
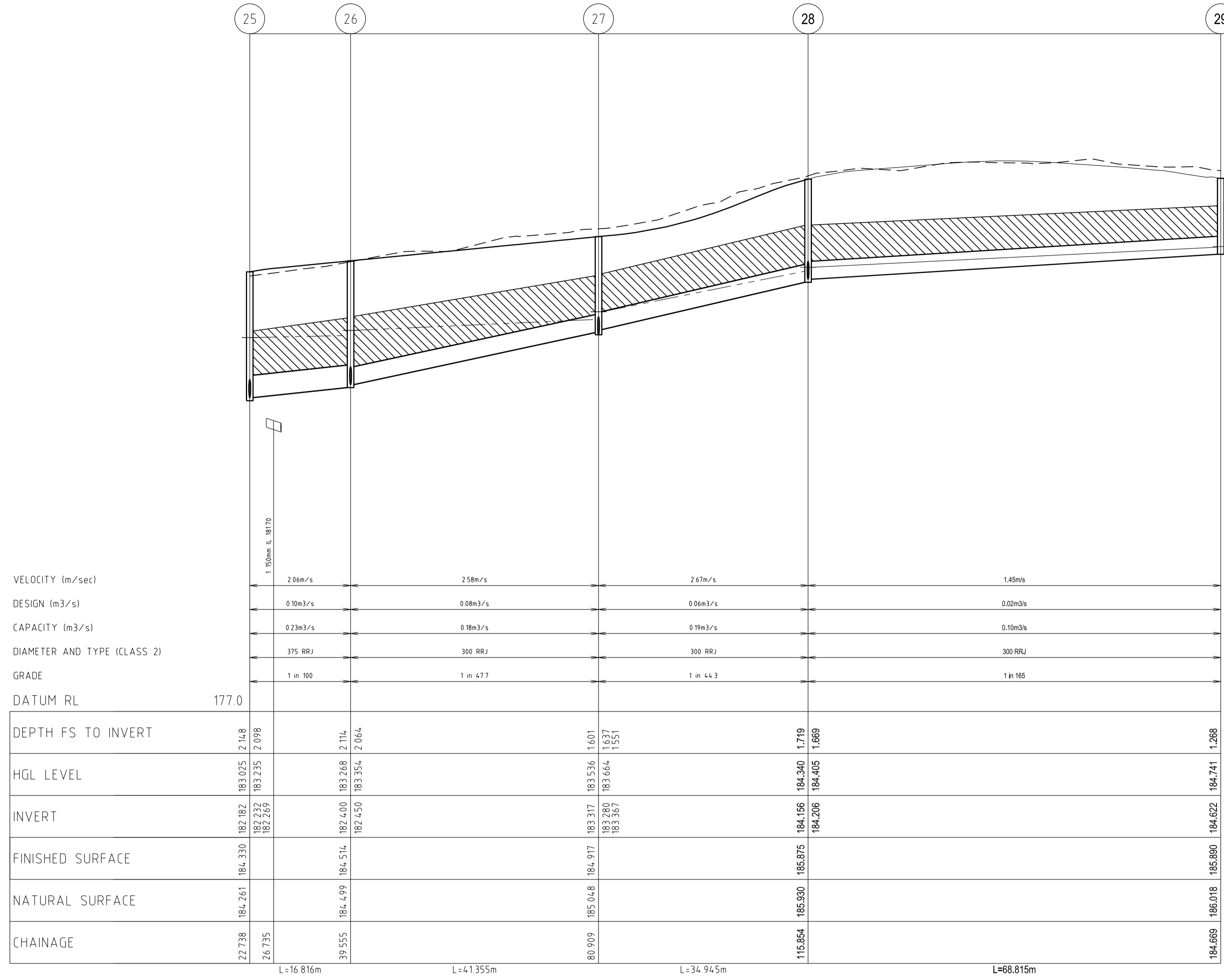


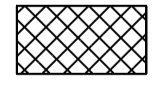

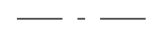
PIT SCHEDULE										
PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP PIT RL	DEPTH	REMARKS
				INVERT	DIA	INVERT	DIA			
4	GRATED ENTRY PIT	900	600	183.611	300	183.611	300	185.328	1.72	GAA STD DWG EDCM601
5	END PIPE			181.630	600	181.630	675	183.702	2.09	GRADE TO FREE OUTLET
7	GRATED ENTRY PIT	900	900	181.977	375	181.977	375	183.739	2.081	GAA STD DWG EDCM601&607 (HAUNCHED)
8	GRATED ENTRY PIT	900	900	181.744	525	181.744	600	183.809	2.086	GAA STD DWG EDCM601&607 (HAUNCHED)
9	JUNCTION PIT	900	900	181.958	300	181.958	300	183.570	1.668	GAA STD DWG EDCM607 (HAUNCHED)
10	DBL GR ENTRY PIT	1800	900	181.922	525	181.922	375	183.547	1.592	GAA STD DWG EDCM604&607 (HAUNCHED)
11	JUNCTION PIT	900	600	182.287	525	182.287	525	183.630	1.399	GAA STD DWG EDCM605
12	GRATED ENTRY PIT	900	600	182.350	300	182.350	300	183.249	2.084	GAA STD DWG EDCM601
13	GRATED ENTRY PIT	900	600	183.582	300	183.582	300	186.021	2.078	GAA STD DWG EDCM601
14	GRATED ENTRY PIT	900	600	183.993	300	183.993	300	184.17	1.469	GAA STD DWG EDCM601
15	GRATED ENTRY PIT	900	600	184.22	300	184.22	300	185.639	1.469	GAA STD DWG EDCM601
16	GRATED ENTRY PIT	900	600	184.263	300	184.263	300	185.933	1.41	GAA STD DWG EDCM601
26	GRATED ENTRY PIT	900	600	182.45	300	182.45	375	184.51	2.11	GAA STD DWG EDCM601
27	GRATED ENTRY PIT	900	600	182.45	300	182.45	300	183.32	1.60	GAA STD DWG EDCM601
28	GRATED ENTRY PIT	900	600	183.37	300	183.37	300	184.16	1.72	GAA STD DWG EDCM601
29	GRATED ENTRY PIT	900	600	184.21	300	184.21	300	185.88	1.67	GAA STD DWG EDCM601
38	GRATED ENTRY PIT	900	600	184.62	300	184.62	300	185.89	1.27	GAA STD DWG EDCM601
39	GRATED ENTRY PIT	900	600	184.255	300	184.255	300	185.876	1.62	GAA STD DWG EDCM601
39	JUNCTION PIT	900	600	184.622	300	184.622	300	186.157	1.534	GAA STD DWG EDCM605
40	JUNCTION PIT	900	600	182.575	300	182.575	300	184.172	1.597	GAA STD DWG EDCM605
41	JUNCTION PIT	900	600	183.202	300	183.202	300	184.857	1.655	GAA STD DWG EDCM605
44	GRATED ENTRY PIT	900	600	183.31	300	183.31	300	184.92	1.61	GAA STD DWG EDCM601
59	DBL GR ENTRY PIT	1800	900	182.32	525	182.32	525	183.51	1.19	GAA STD DWG EDCM604&607 (HAUNCHED)
62	GRATED ENTRY PIT	900	600	182.052	300	182.052	300	183.772	1.72	GAA STD DWG EDCM601

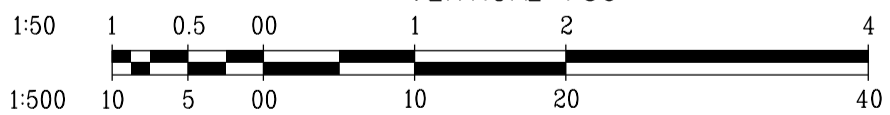
INDICATES CRUSHED ROCK BACKFILL CLASS 2
 INDICATES CRUSHED ROCK BACKFILL CLASS 3
 INDICATES 5YR HGL

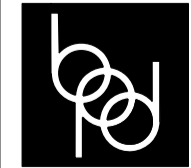


breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
RATHDOWNE ESTATE STAGE 6B DRAINAGE LONG SECTIONS I		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/6B	
AMENDMENTS B 13.10.20 PIT 4 ADDED TO SCHEDULE A 23.09.20 ISSUE FOR CONSTRUCTION	MELWAY REF. 388-C-10 SURVEY BPD DESIGN RGW DRAWN RGW	SCALE AS SHOWN DATUM AHD DATE SEP'20	SHEET 8 OF 10 B



 INDICATES CRUSHED ROCK BACKFILL CLASS 2
 INDICATES CRUSHED ROCK BACKFILL CLASS 3
 INDICATES 5YR HGL

DRAINAGE LONGITUDINAL SECTIONS
 SCALE HORIZONTAL 1:500
 VERTICAL 1:50


		breese pitt dixon Pty. Ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS		MELWAY REF. 388-C-10 SURVEY BPD DESIGN RGW		RATHDOWNE ESTATE STAGE 6B DRAINAGE LONG SECTIONS 2	
B 13-10-20 PIT LS 12-4 ADDED A 23-09-20 ISSUE FOR CONSTRUCTION		DRAWN RGW CHECKED		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/6B	
VER DATE REMARKS		SCALE AS SHOWN DATUM AHD DATE SEP'20		SHEET 9 OF 10 B	

SIGNAGE & LINEMARKING LEGEND

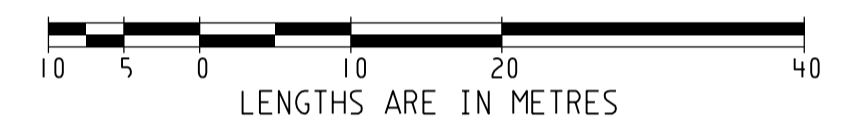
S1	"STREET NAME" SIGN	
S2	"GIVE WAY" SIGN (R1-2A)	R1-2
S3	"NO ROAD" SIGN & "HAZARD" SIGN (G9-18)	
S4	ROUNDABOUT SIGN	R1-3
S5	"KEEP LEFT" SIGN (R2-3L)	R2-3(L)
S6	HAZARD BOARD (D4-1-1)	
S7	"RAISED PAVEMENT AHEAD" WARNING SIGN	W3-4
S8	ROAD HUMP SIGN & ADVISORY SPEED SIGN (20km/h)	W5-10 W8-2

NOTE:
 • STREET NAME SIGN TO MOUNT ON LIGHTING POLE WHERE POSSIBLE
 • STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE POLE SLEEVES
 • REFER HCC SD407 FOR "NO ROAD SIGN"

PLAN

SCALE 1:500

SCALE 1 : 500



		breese pitt dixon Pty. Ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C-10 SURVEY BPD DESIGN RGW		RATHDOWNE ESTATE STAGE 6B SIGNAGE AND LINEMARKING PLAN		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/6B	
AMENDMENTS		DATE	REMARKS	CHECKED	SCALE AS SHOWN
A	23-09-20	ISSUE FOR CONSTRUCTION			DATUM AHD
VER	DATE	REMARKS	CHECKED	DATE	SEP '20
				SHEET	10 OF 10

FUTURE DEVELOPMENT