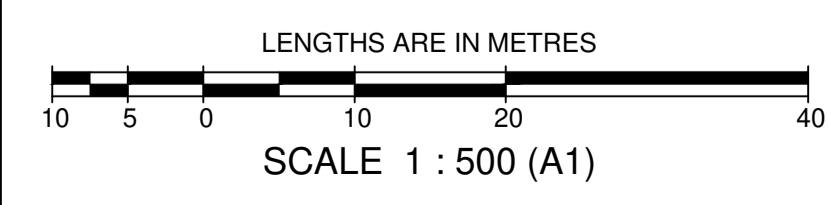
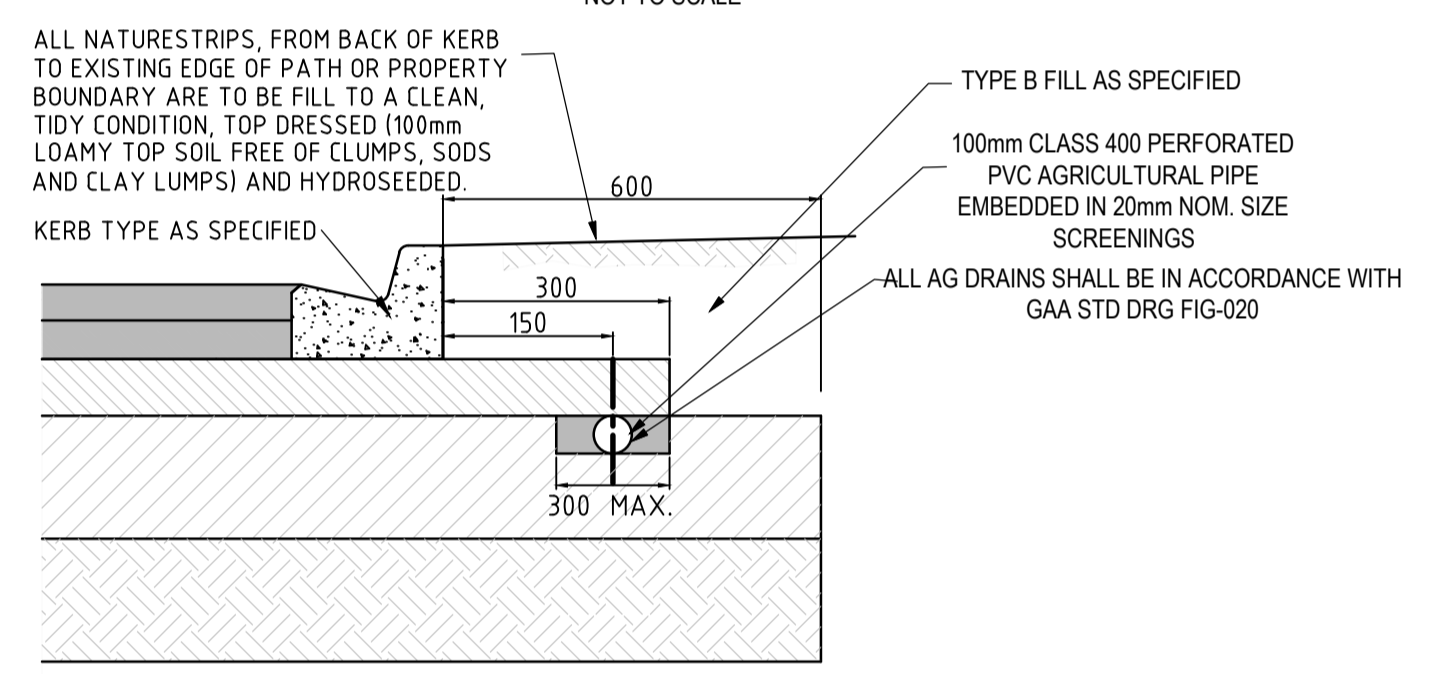
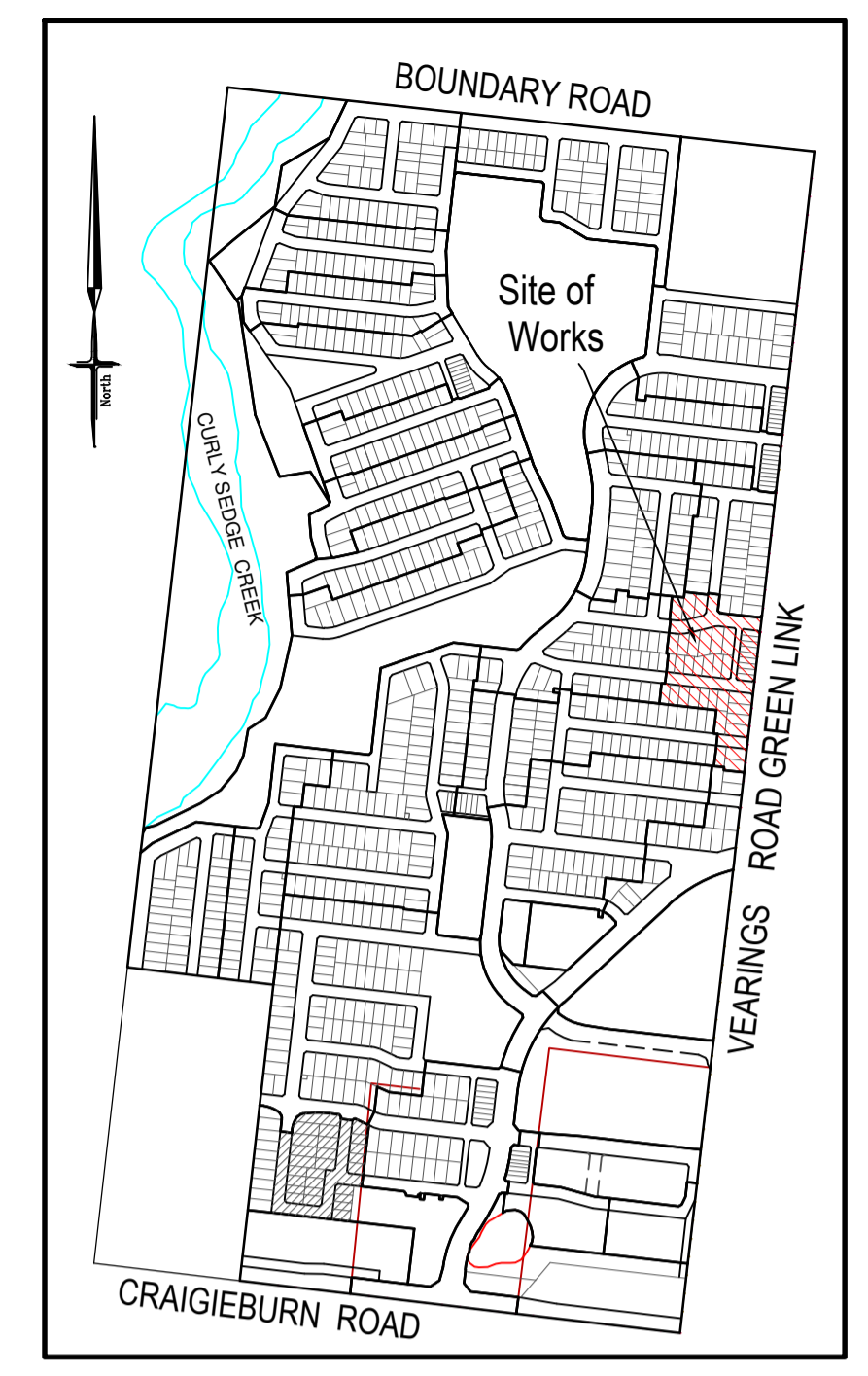




DRAWING INDEX		
Sheet No.	Version	Description
1	A	LAYOUT PLAN & SERVICE OFFSETS TABLE
2	A	GENERAL NOTES, PAVEMENT COMPOSITIONS & TYPICAL CROSS SECTIONS
3	A	ROAD LONGITUDINAL SECTION & CROSS SECTIONS - VEERINGS ROAD
4	A	ROAD LONGITUDINAL SECTION & CROSS SECTIONS - RUNGRADO VIEW
5	A	ROAD LONGITUDINAL SECTION & CROSS SECTIONS - LAKOYA AVENUE
6	A	ROAD LONGITUDINAL SECTION & CROSS SECTIONS - LAVELLE PLACE
7	A	ROAD LONGITUDINAL SECTION & CROSS SECTIONS - ANAMUDI ROAD & LINDALANE
8	A	INTERSECTION DETAILS - SHEET 1 OF 2
9	A	INTERSECTION DETAILS - SHEET 2 OF 2
10	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 2
11	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 2 & PIT SCHEDULE
12	A	SIGNAGE & LINEMARKING PLAN



AS CONSTRUCTED



PAVEMENT COMPOSITION
NOT TO SCALE

SERVICE OFFSETS AND LOCATION TABLE

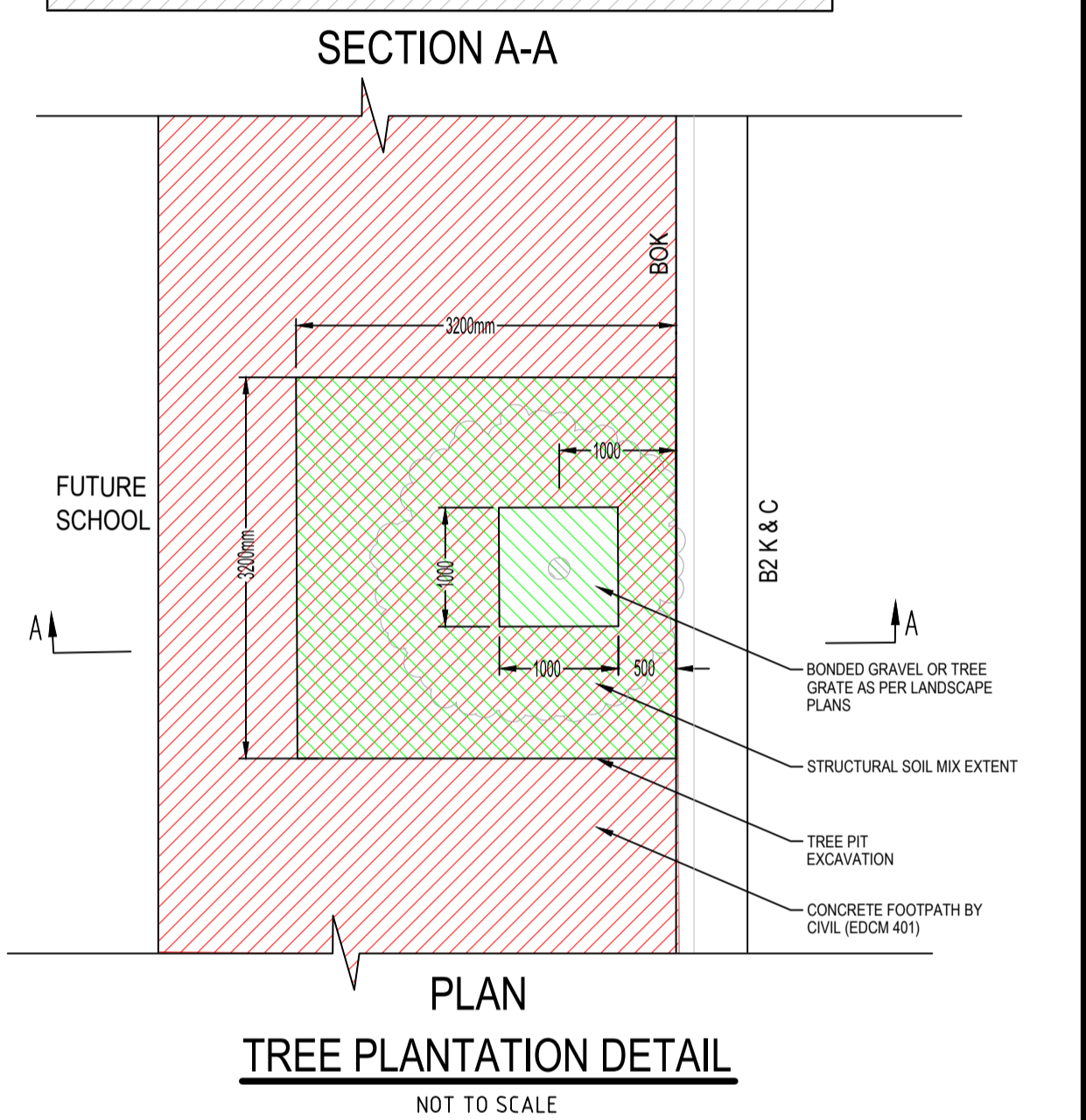
ROAD NAME	ROAD RESERVE	SIDE	POTABLE WATER		NON-POTABLE WATER		GAS		ELECTRICITY				TELECOMMUNICATIONS		BOK	
			OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE	U/G CABLE		SIDE	OFFSET	SIDE	OFFSET		
								SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	
VEERINGS ROAD	20.6m	W	2.80	W	2.30	W	1.80		0.90*	W	4.00	W	3.50	4.65 E	6.05 W	
LAKOYA AVENUE	18m	S	3.20	S	2.70	S	2.20		0.90*	N	2.60	N	1.80	5.20 N	5.20 S	
RUNGRADO VIEW	16m	S	3.10	S	2.60	S	2.10		0.90*	N	2.60	N	1.80	4.05 N	4.35 S	
ANAMUDI ROAD	16m	E	3.20	E	2.70	E	2.20		0.90*	W	2.60	W	1.80	4.35 E	4.05 W	
LAVELLE PLACE	16m	S	3.20	S	2.70	S	2.20		0.90*	N	2.60	N	1.85	4.05 N	4.35 S	
LOTS 932 TO 940	-	E	Ex 2.55	E	Ex 2.10	E	Ex 1.70		-	E	Ex 3.55	E	Ex 3.10	-	-	

1. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS
 2. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH
 3. * DENOTES OFFSET FROM BACK OF KERB

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 by a licenced surveyor and/or set out checked by a licenced surveyor 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		ELECTRICITY		TELECOMMUNICATIONS		BOK	
Drains	Prop	Prop	Prop	Prop	Prop	Prop	Prop
Sewer < 3000	---	---	---	---	---	---	---
Sewer > 3000	---	---	---	---	---	---	---
Water (DW)	---	---	---	---	---	---	---
Water (NDW)	---	---	---	---	---	---	---
House Drain	---	---	---	---	---	---	---
Property Inlet	---	---	---	---	---	---	---
Street Sign	---	---	---	---	---	---	---
PSM	---	---	---	---	---	---	---
Rock Ret Wall	---	---	---	---	---	---	---
Sleeper Ret Wall	---	---	---	---	---	---	---
Conduits 50mm	---	---	---	---	---	---	---
Conduits 100mm	---	---	---	---	---	---	---
Street Tree without/with Passive Irrigation (Refer Detail)	---	---	---	---	---	---	---
Ex Drains	---	---	---	---	---	---	---
Ex Water/DW/NDW	---	---	---	---	---	---	---
Ex Sewer/Gas	---	---	---	---	---	---	---
Ex Elect/Comm	---	---	---	---	---	---	---
Ex/Natural/FS Level	---	---	---	---	---	---	---
FS @ Building Line	---	---	---	---	---	---	---
Top/Toe of Batter	---	---	---	---	---	---	---
Top Ret. Wall Level	---	---	---	---	---	---	---
100yr Flood Level	---	---	---	---	---	---	---
Fill Proposed (<0.3m)±0.3m	---	---	---	---	---	---	---
Cut Proposed	---	---	---	---	---	---	---
Asphalt Surface Prop	---	---	---	---	---	---	---
Concrete Surface Prop (Paths/Driveways/Slabs)	---	---	---	---	---	---	---
Tree To Be Removed	---	---	---	---	---	---	---
Tree To Be Retained with Tree Protection Zone (TPZ)	---	---	---	---	---	---	---



breese pitt dixon pty. ltd.
 land surveyors civil engineers
 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

RATHDOWNE ESTATE STAGE 9
 LAYOUT PLAN & SERVICE OFFSET TABLE

MELWAY REF. 388 C-10
 SURVEY BPD
 DESIGN M.A.
 DRAWN M.A.

AMENDMENTS

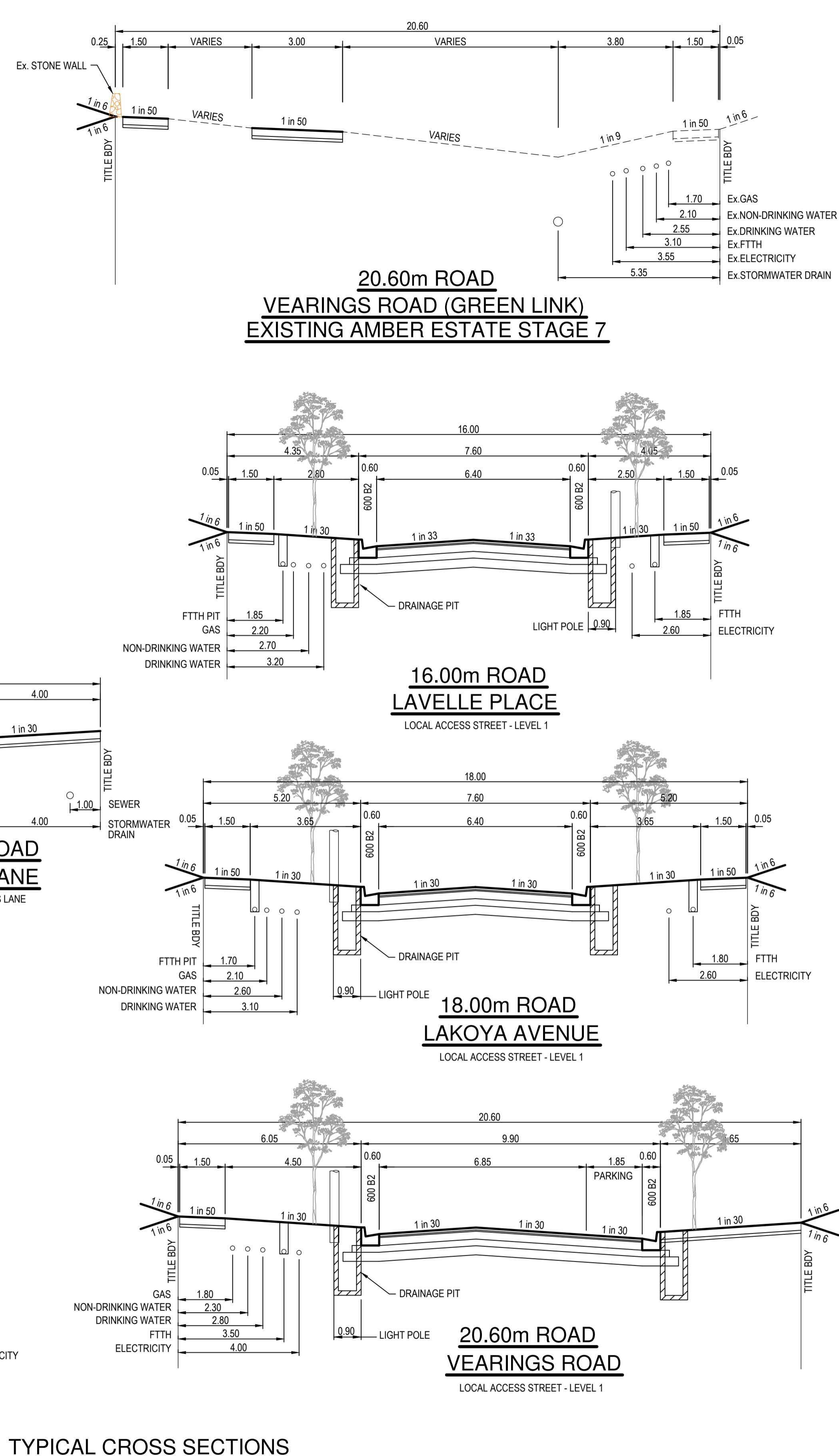
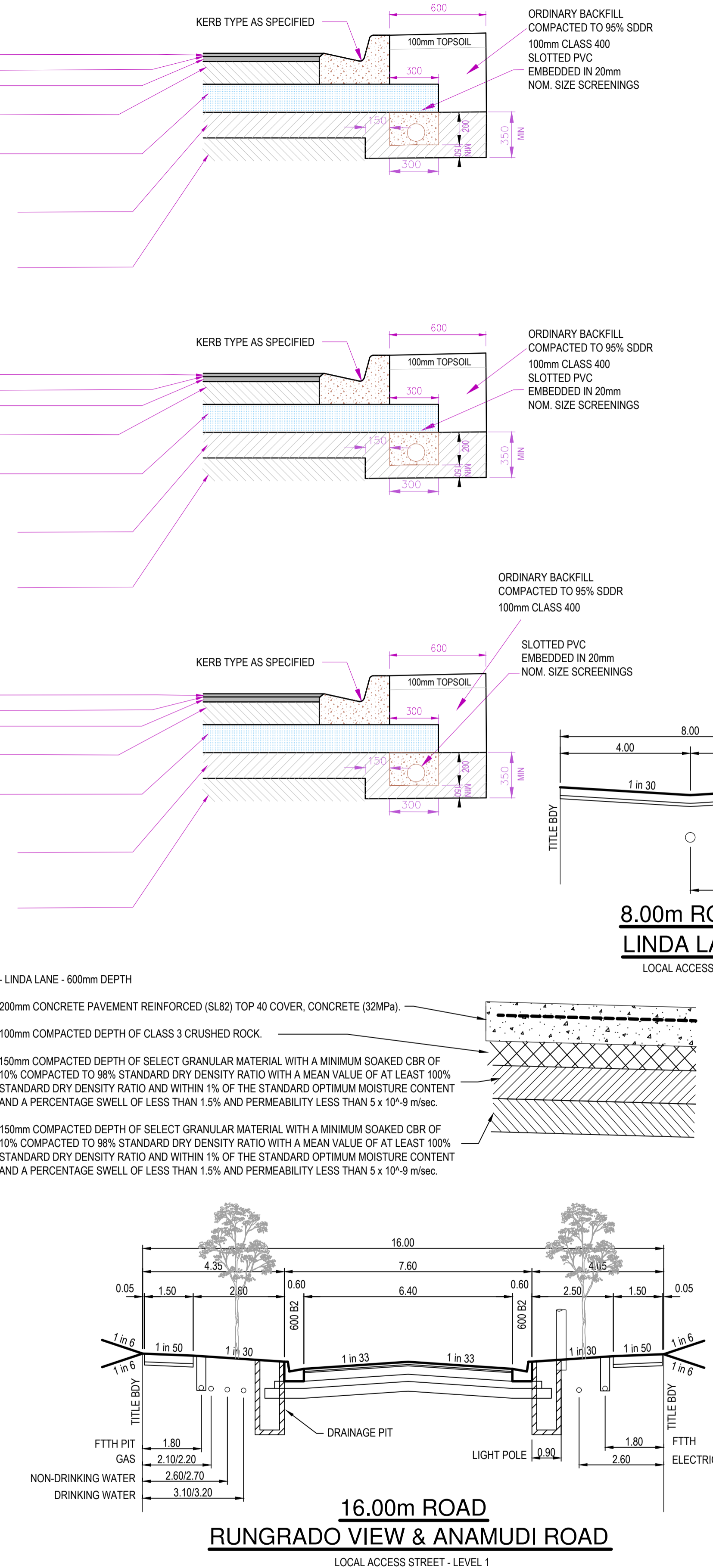
NO.	DATE	REMARKS
A	07-07-21	ISSUED FOR CONSTRUCTION

SCALE AS SHOWN DATUM AHD DATE NOV '20 SHEET 1 OF 12 A

NOTES

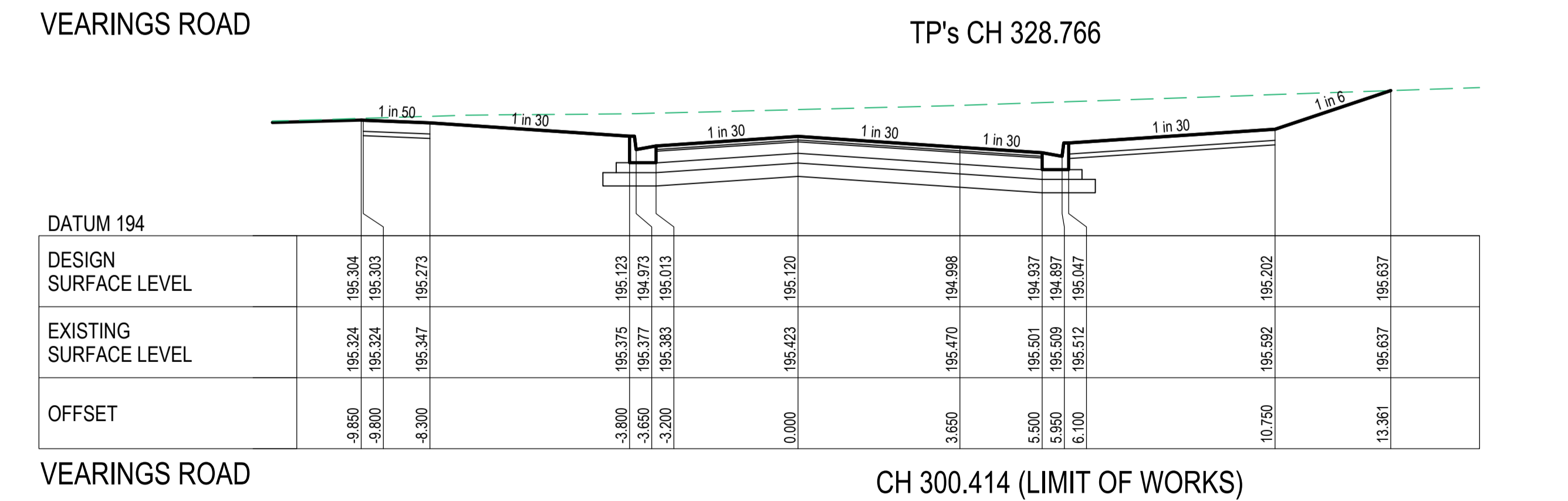
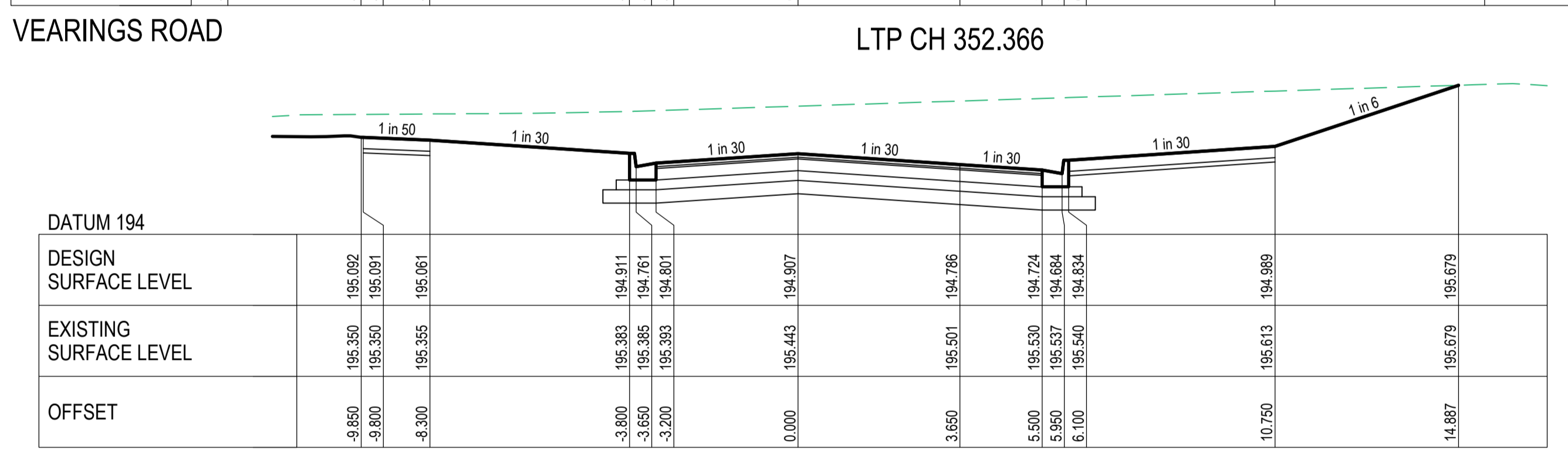
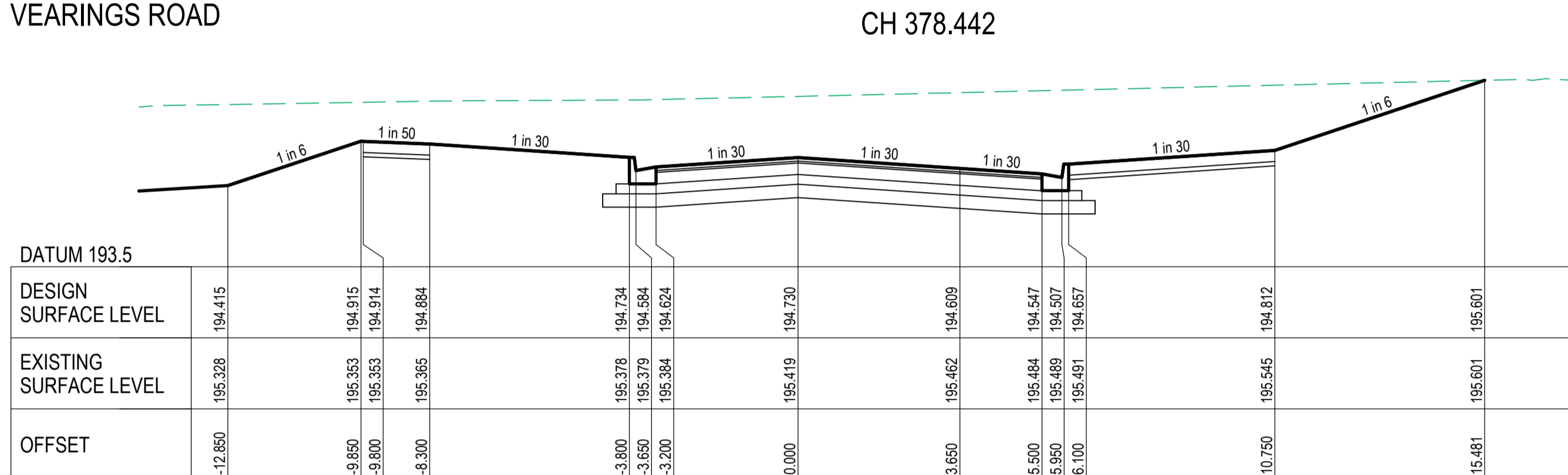
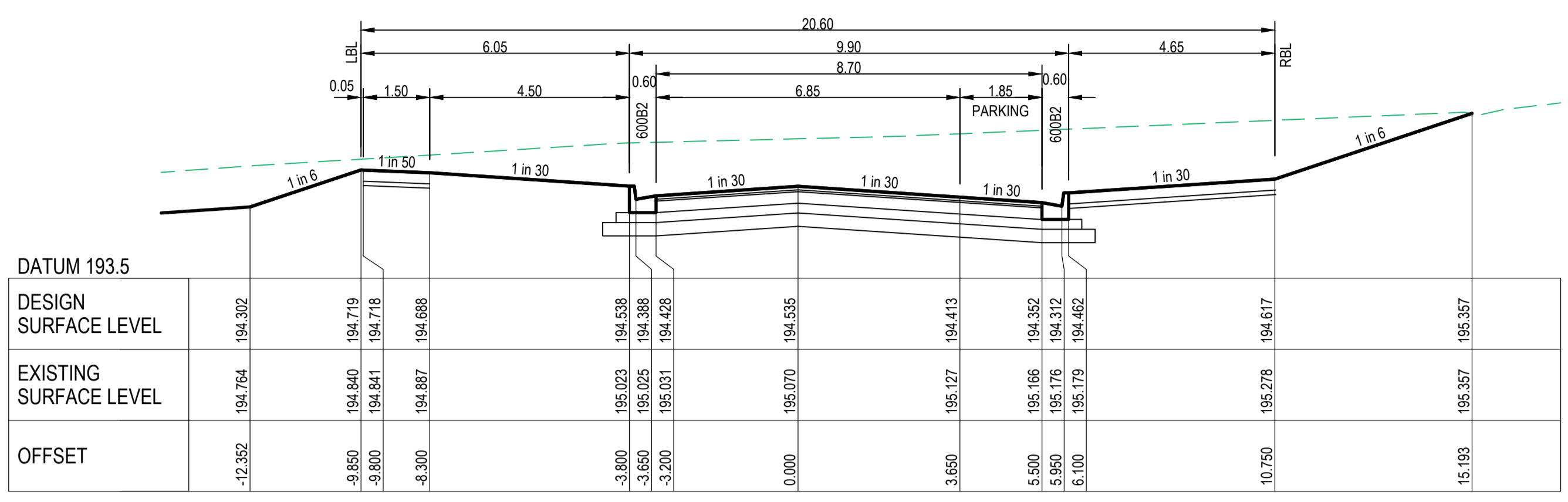
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANS AND CURRENT CITY OF WHITTLESEA SPECIFICATIONS AND STANDARD DRAWINGS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE ENGINEER. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCES OF QUARRY MATERIAL
 - N.A.T.A. APPROVED TEST RESULTS FOR THE F.C.R. THAT IS TO BE USED.
 - IF THE SOURCE OF 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 SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES.
- ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE R.R.J UP TO AND INCLUDING 750mm DIAMETER. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE R.R.J CLASS 2 R.C.P.
- JOINTING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (R.R.JS 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 5.50m 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 ENCR OACH 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 AGs 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 AGS.
- 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.
- TELSTRANBN 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 SD812, 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 (REFER EDCM501) UNLESS OTHERWISE SHOWN.
- 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 TO CONSIST OF: LAKOYA AVENUE (600mm DEPTH)
 - 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH A C320 BINDER
 - 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH A C320 BINDER
 - 10mm SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINUS PRIME
 - 130mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY AND RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT
 - 100mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 3 FCR, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 98% MODIFIED DRY DENSITY AND RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT
 - 150mm COMPACTED DEPTH OF SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 1.5%.
 - 150mm COMPACTED DEPTH OF SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 1.5%.
 - SUBGRADE TO CONSIST OF SILTY CLAY COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR_{3.0}) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT
- PAVEMENT TO CONSIST OF: ANAMUDI ROAD, LAVELLE PLACE AND VEARINGS ROAD (600mm DEPTH)
 - 20mm COMPACTED DEPTH SIZE 7 TYPE L ASPHALT WITH A C320 BINDER
 - 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH A C320 BINDER
 - 10mm SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINUS PRIME
 - 140mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY AND RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT
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 - SUBGRADE TO CONSIST OF SILTY CLAY COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR_{3.0}) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT
- PAVEMENT TO CONSIST OF: RUNGRADO VIEW (640mm DEPTH)
 - 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH A C320 BINDER
 - 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH A C320 BINDER
 - 10mm SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINUS PRIME
 - 130mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 FCR, COMPACTED TO AT LEAST 100% CHARACTERISTIC MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
 - 140mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 3 FCR, COMPACTED TO AT LEAST 98% CHARACTERISTIC MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
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 - SUBGRADE TO CONSIST OF SILTY CLAY COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR_{3.0}) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT
- 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 EDCM 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-INSTALLMENT 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 ENVIRONMENTAL PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW 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 REQUIRE LEVEL 1 SUPERVISION 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 (TGSi) 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.

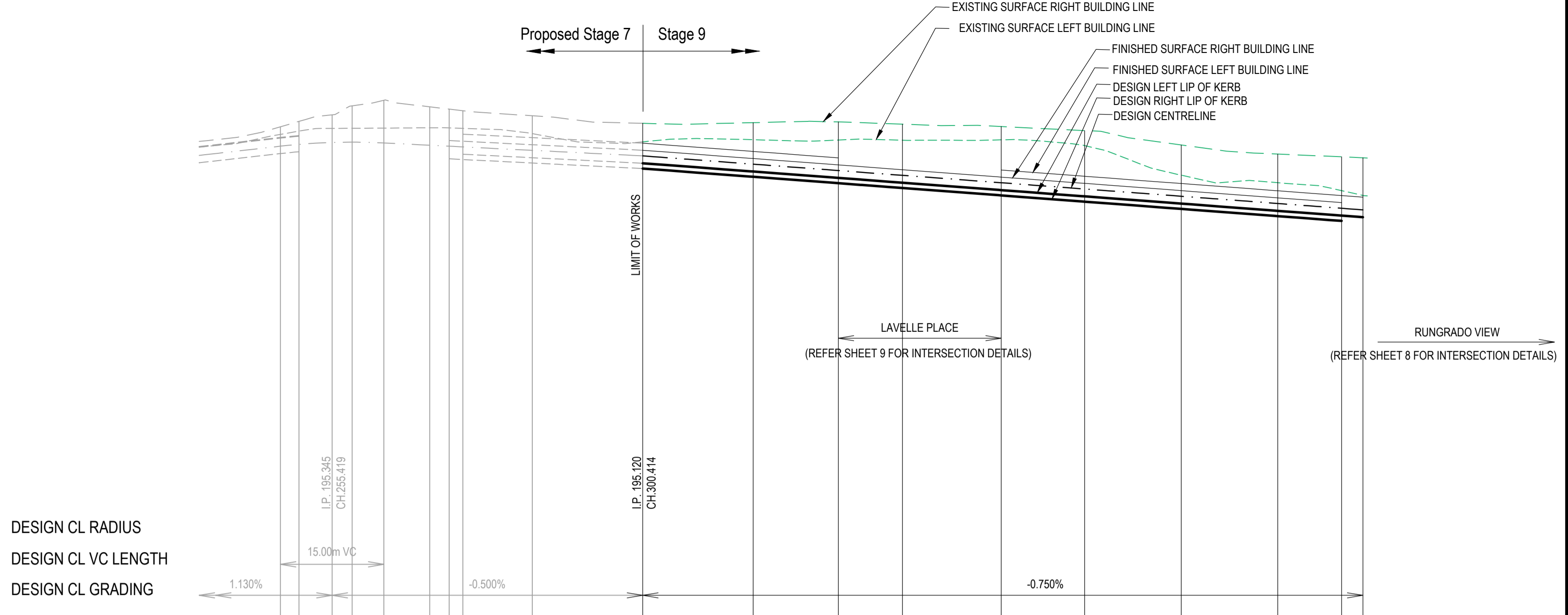


AS CONSTRUCTED

AMENDMENTS				 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 M.A.		
			RATHDOWNE ESTATE STAGE 9 GENERAL NOTES, PAVEMENT COMPOSITIONS & TYPICAL CROSS SECTIONS	MUNICIPALITY WHITTLESEA REFERENCE 9365 E/9
	A 07-07-21	ISSUED FOR CONSTRUCTION	CHECKED	SCALE AS SHOWN
				DATUM AHD
				DATE NOV '20
				SHEET 2 OF 12

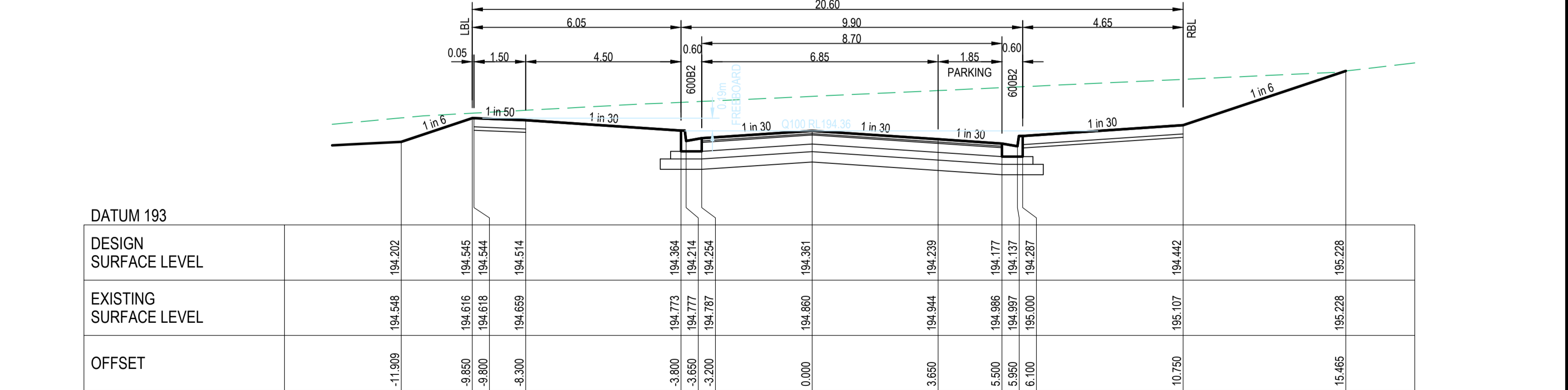


VEARINGS ROAD CROSS SECTIONS
SCALE: H 1:100, V 1:50

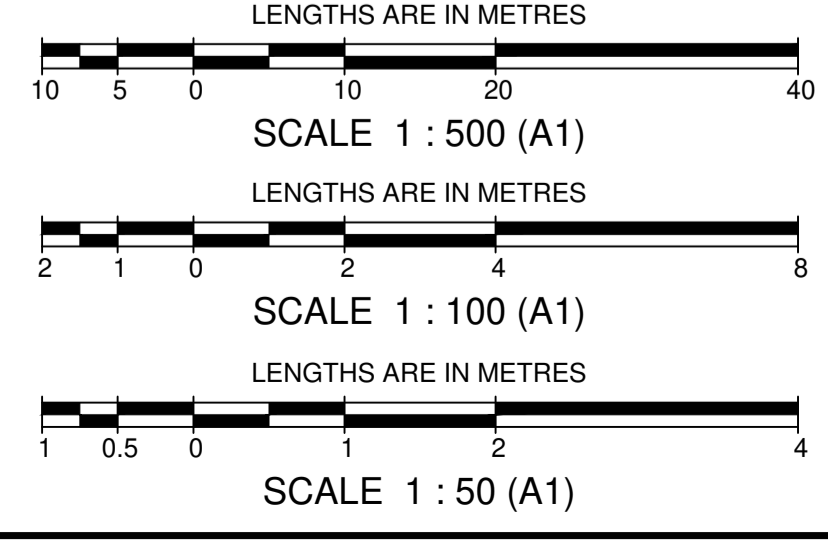


EXISTING SURFACE LEFT BUILDING LINE	FINISHED SURFACE LEFT BUILDING LINE	LEFT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL	RIGHT DESIGN LIP OF KERB	FINISHED SURFACE RIGHT BUILDING LINE	EXISTING SURFACE RIGHT BUILDING LINE	CHAINAGE
195.432	195.378	195.154	195.260	195.194	195.388	195.542	247.919
195.479	195.404	195.180	195.287	195.180	195.414	195.614	250.614
195.526	195.506	195.314	195.314	195.314	195.712	195.419	255.419
195.574	195.574	195.319	195.319	195.319	195.845	195.319	258.319
195.612	195.612	195.307	195.307	195.307	195.925	195.202	262.919
195.655	195.655	195.274	195.274	195.274	195.823	195.564	269.564
195.698	195.698	195.260	195.260	195.260	195.342	195.798	272.367
195.741	195.741	195.250	195.250	195.250	195.332	195.175	274.368
195.784	195.784	195.093	195.200	195.093	195.282	195.701	284.414
195.824	195.824	195.013	195.120	195.013	195.202	195.592	300.414
195.864	195.864	194.893	195.000	194.893	195.082	195.602	316.414
195.902	195.902	194.801	194.907	194.801	194.989	195.613	328.766
195.947	195.947	194.731	194.638	194.731	194.919	195.679	338.047
195.983	195.983	194.624	194.730	194.624	194.812	195.545	352.366
196.024	196.024	194.533	194.640	194.533	194.722	195.487	364.442
196.069	196.069	194.428	194.535	194.428	194.617	195.278	378.442
196.114	196.114	194.323	194.430	194.323	194.512	195.146	392.442
196.159	196.159	194.254	194.361	194.254	194.442	195.107	401.679
196.204	196.204	194.231	194.337	194.231	194.442	195.092	404.766

VEARINGS ROAD LONGITUDINAL SECTION
SCALE: H 1:500, V 1:50



VEARINGS ROAD
RTP CH 401.679

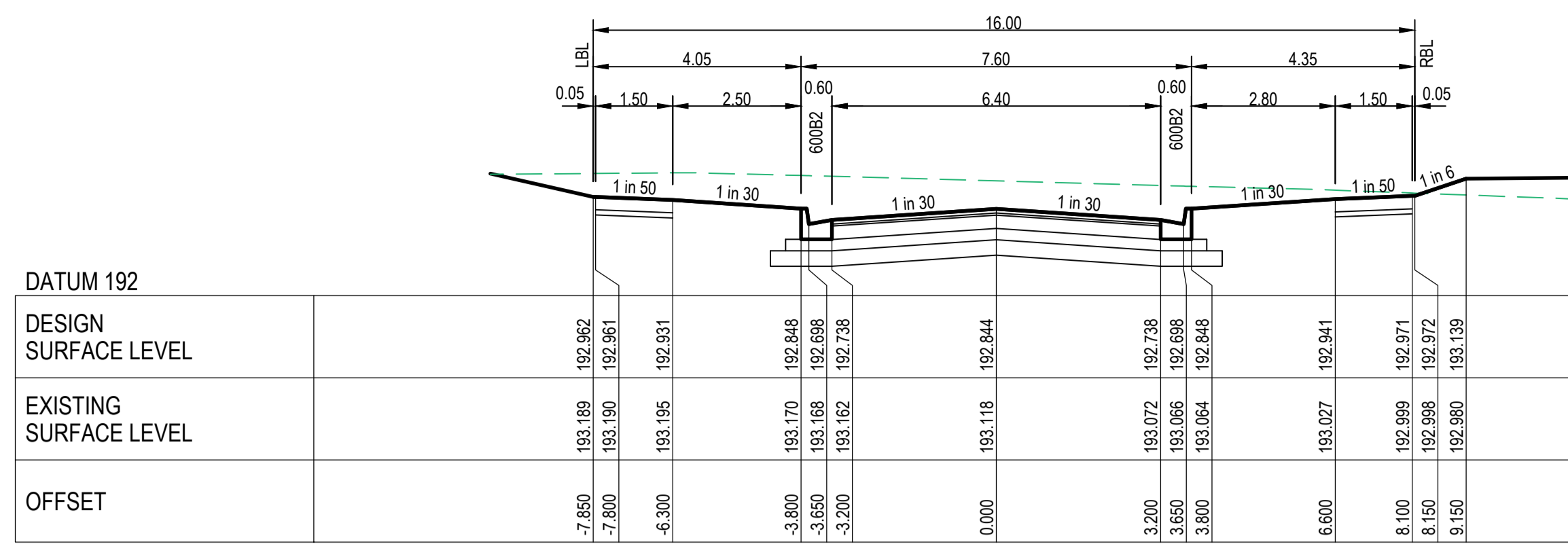


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

SELECT GRANULAR MATERIAL
COMPACTED AS PER NOTE 34, SHEET 2

AS CONSTRUCTED

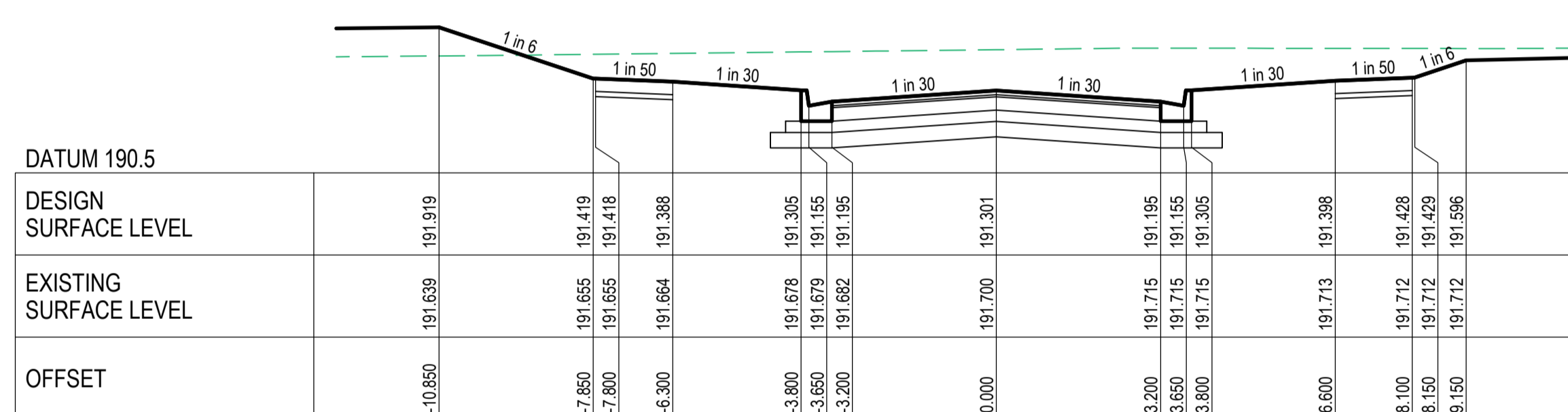
<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>		<p>1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310</p>						
<p>MELWAY REF. 388 C-10</p> <p>SURVEY BPD</p> <p>DESIGN M.A.</p> <p>DRAWN M.A.</p>		<p>RATHDOWNE ESTATE STAGE 9 ROAD LONGITUDINAL SECTION & CROSS SECTIONS VEARINGS ROAD</p>						
<p>AMENDMENTS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>ISSUED FOR CONSTRUCTION</th> </tr> <tr> <td>A</td> <td>07-07-21</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </table>	NO.	DATE	ISSUED FOR CONSTRUCTION	A	07-07-21	ISSUED FOR CONSTRUCTION	<p>CHECKED</p>	<p>MUNICIPALITY WHITTLESEA</p> <p>REFERENCE 9365 E/9</p>
NO.	DATE	ISSUED FOR CONSTRUCTION						
A	07-07-21	ISSUED FOR CONSTRUCTION						
<p>SCALE AS SHOWN</p> <p>DATUM AHD</p> <p>DATE NOV '20</p>	<p>SHEET 3 OF 12</p>	<p>A</p>						



RUNGRADO VIEW CH 276.966

OFFSET	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL
-10.171	191.932	192.163
-7.850	191.958	191.776
-7.800	191.959	191.775
-6.300	191.985	191.745
-3.800	192.008	191.661
-3.650	192.009	191.511
-3.200	192.014	191.551
0.000	192.043	191.658
3.200	192.072	191.551
3.650	192.074	191.511
3.800	192.074	191.661
6.600	192.086	191.755
8.100	192.092	191.785
8.150	192.092	191.786
9.150	192.104	191.952

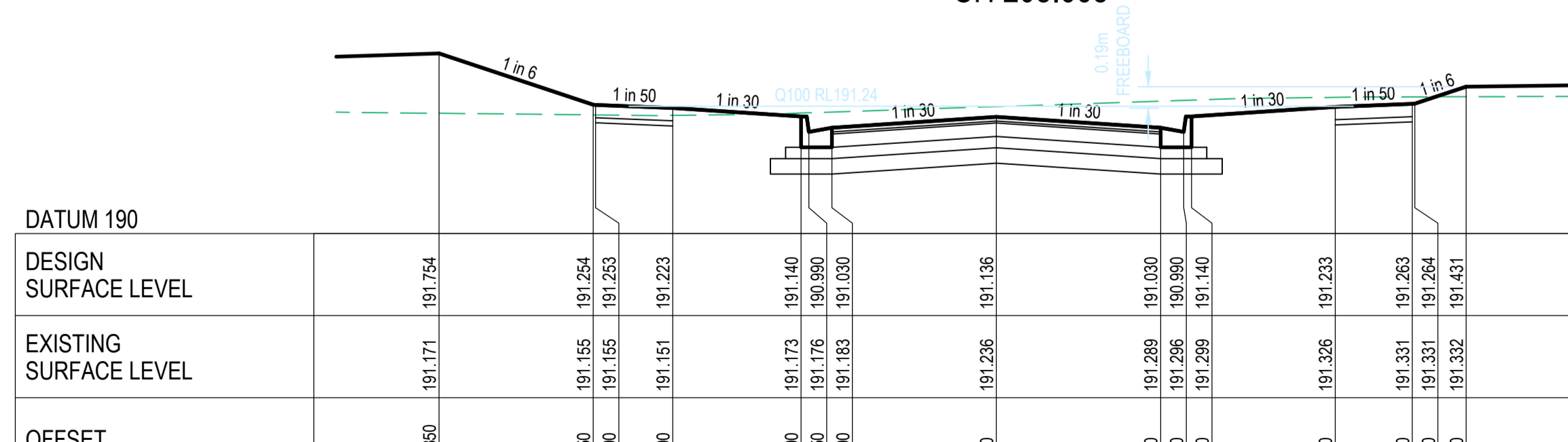
RUNGRADO VIEW CH 249.168



RUNGRADO VIEW CH 223.931

OFFSET	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL
-10.850	191.639	191.919
-7.850	191.655	191.419
-7.800	191.655	191.418
-6.300	191.664	191.388
-3.800	191.678	191.305
-3.650	191.679	191.155
-3.200	191.682	191.195
0.000	191.700	191.301
3.200	191.715	191.195
3.650	191.715	191.155
3.800	191.715	191.305
6.600	191.713	191.388
8.100	191.712	191.428
8.150	191.712	191.429
9.150	191.712	191.596

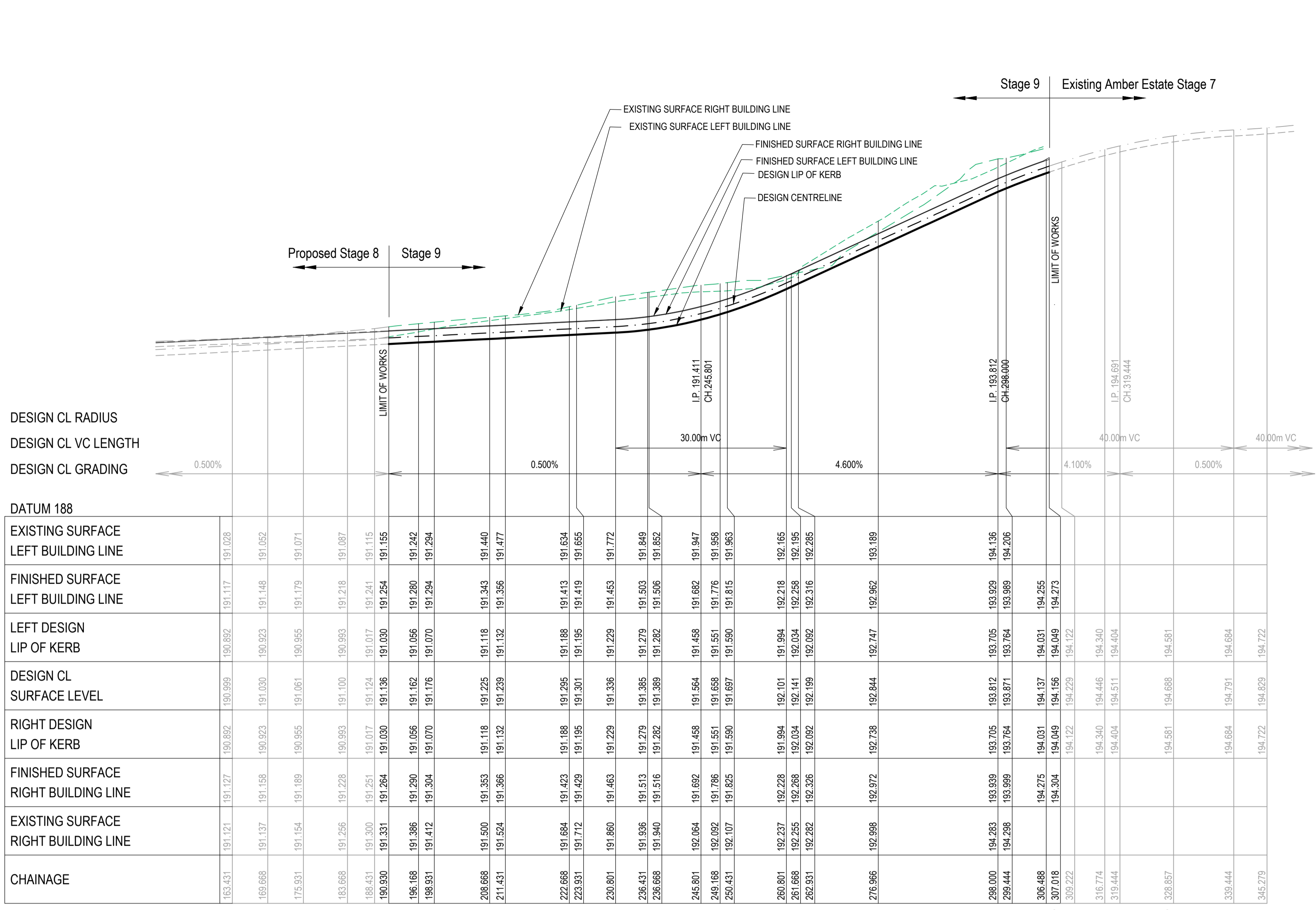
RUNGRADO VIEW CH 208.668



RUNGRADO VIEW CH 190.931 (LIMIT OF WORKS)

OFFSET	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL
-10.850	191.171	191.754
-7.850	191.155	191.254
-7.800	191.155	191.253
-6.300	191.151	191.223
-3.800	191.173	191.140
-3.650	191.176	190.990
-3.200	191.183	191.030
0.000	191.226	191.136
3.200	191.289	191.030
3.650	191.296	190.990
3.800	191.299	191.140
6.600	191.326	191.233
8.100	191.331	191.263
8.150	191.331	191.264
9.150	191.332	191.431

RUNGRADO VIEW CH 190.931 (LIMIT OF WORKS)



RUNGRADO VIEW LONGITUDINAL SECTION SCALE: H 1:500, V 1:50

CHAINAGE	EXISTING SURFACE LEFT BUILDING LINE	FINISHED SURFACE LEFT BUILDING LINE	LEFT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL	RIGHT DESIGN LIP OF KERB	FINISHED SURFACE RIGHT BUILDING LINE	EXISTING SURFACE RIGHT BUILDING LINE
163.431	191.121	191.127	190.892	190.999	190.892	191.117	191.028
169.668	191.137	191.158	190.923	191.030	190.923	191.148	191.052
175.931	191.154	191.189	190.955	191.061	190.955	191.179	191.071
183.668	191.256	191.228	190.993	191.100	190.993	191.218	191.087
188.431	191.300	191.251	191.017	191.124	191.017	191.241	191.115
190.930	191.331	191.264	191.030	191.136	191.030	191.254	191.155
196.168	191.386	191.290	191.056	191.162	191.056	191.280	191.242
198.931	191.412	191.304	191.070	191.176	191.070	191.294	191.294
206.668	191.500	191.353	191.118	191.225	191.118	191.343	191.440
211.431	191.524	191.366	191.132	191.239	191.132	191.356	191.477
222.668	191.684	191.423	191.188	191.295	191.188	191.413	191.634
223.931	191.712	191.428	191.195	191.301	191.195	191.419	191.655
230.801	191.860	191.463	191.229	191.336	191.229	191.453	191.772
236.431	191.936	191.513	191.279	191.385	191.279	191.503	191.849
236.668	191.940	191.516	191.282	191.389	191.282	191.506	191.852
245.801	192.064	191.692	191.458	191.594	191.458	191.682	191.947
249.168	192.092	191.786	191.551	191.658	191.551	191.776	191.958
250.431	192.107	191.825	191.590	191.697	191.590	191.815	191.963
260.801	192.237	192.228	191.994	192.101	191.994	192.218	192.165
261.668	192.255	192.268	192.034	192.141	192.034	192.258	192.195
262.931	192.282	192.328	192.082	192.189	192.082	192.316	192.285
275.966	192.998	192.972	192.738	192.844	192.747	192.962	193.189
296.000	194.283	193.939	193.705	193.812	193.705	193.929	194.136
298.444	194.298	193.999	193.764	193.871	193.764	193.989	194.206
306.488	194.275	194.031	194.137	194.137	194.031	194.255	194.255
307.018	194.304	194.049	194.156	194.156	194.049	194.273	194.273
316.774	194.340	194.446	194.340	194.446	194.340	194.446	194.340
319.444	194.404	194.511	194.404	194.511	194.404	194.511	194.404
326.657	194.681	194.688	194.681	194.688	194.681	194.688	194.681
339.444	194.684	194.781	194.684	194.781	194.684	194.684	194.684
345.279	194.722	194.722	194.722	194.722	194.722	194.722	194.722

OFFSET	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL
-7.850	194.526	194.273
-7.800	194.526	194.272
-6.300	194.537	194.242
-3.800	194.556	194.159
-3.650	194.557	194.093
-3.200	194.560	194.049
0.000	194.537	194.156
3.200	194.510	194.049
3.650	194.506	194.009
3.800	194.504	194.159
6.600	194.491	194.262
9.131	194.482	194.303
9.181	194.482	194.304

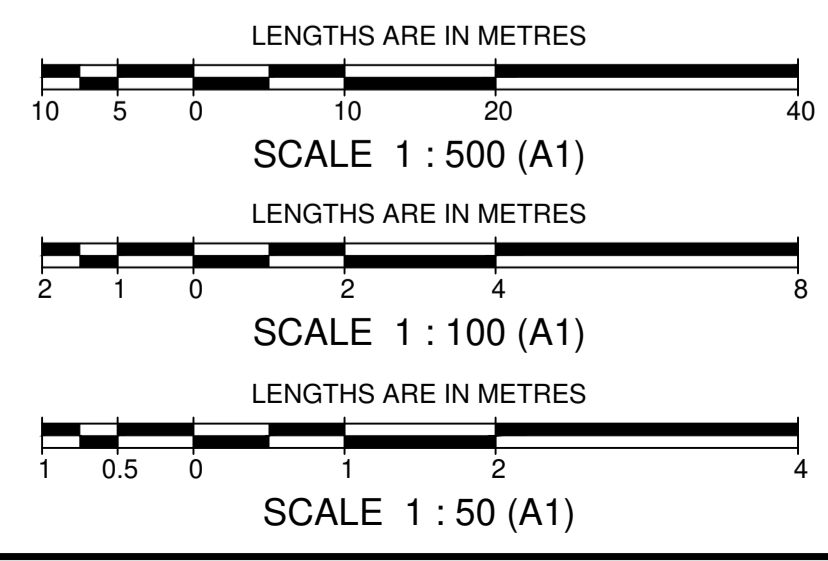
RUNGRADO VIEW RTP CH 307.018 (LIMIT OF WORKS)

AS CONSTRUCTED

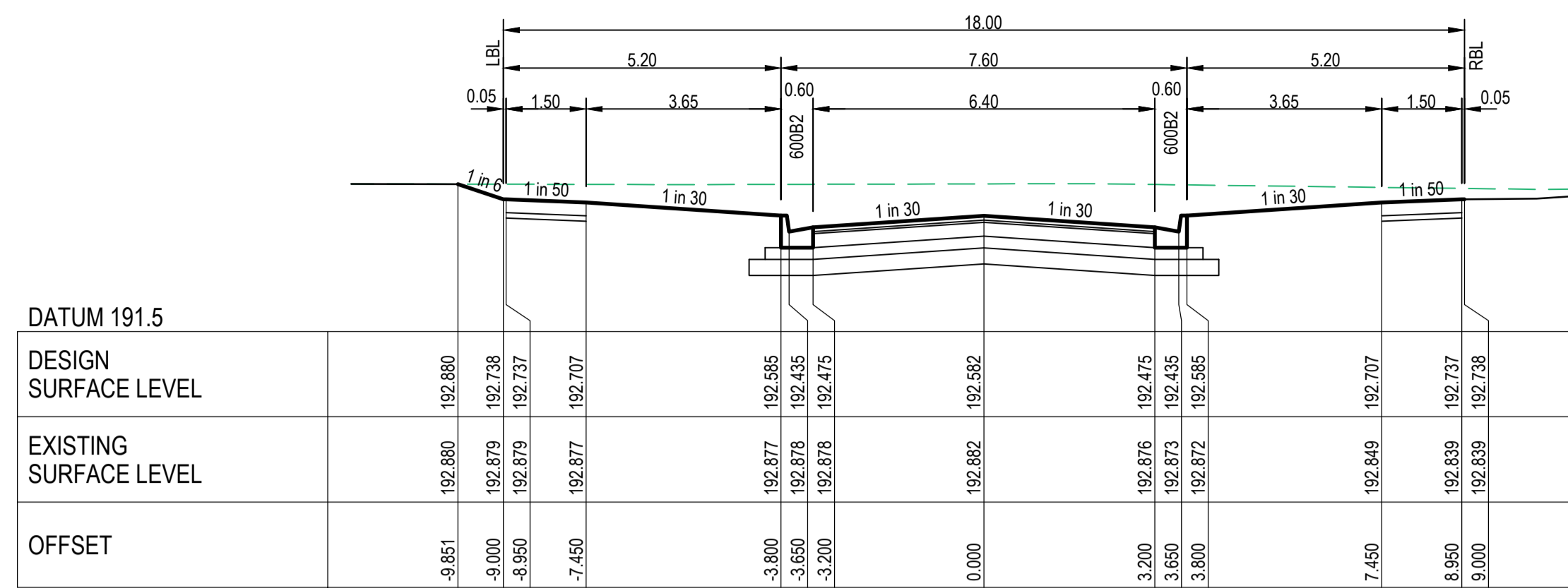
WARNING
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RUNGRADO VIEW CROSS SECTIONS
SCALE: H 1:100, V 1:50

SELECT GRANULAR MATERIAL COMPACTED AS PER NOTE 34, SHEET 2



 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 M.A. DRAWN M.A.		RATHDOWNE ESTATE STAGE 9 ROAD LONGITUDINAL SECTION & CROSS SECTIONS RUNGRADO VIEW
MUNICIPALITY WHITTLESEA REFERENCE 9365 E/9		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/9
SCALE AS SHOWN DATUM AHD DATE NOV '20		SHEET 4 OF 12



LAKOYA AVENUE CH 228.233

DATUM 191.5	
DESIGN SURFACE LEVEL	192.880 192.738 192.737 192.707 192.685 192.435 192.435 192.392 192.707 192.737 192.738
EXISTING SURFACE LEVEL	192.880 192.879 192.879 192.877 192.878 192.878 192.878 192.882 192.849 192.839 192.839
OFFSET	-9.851 -9.000 -8.950 -7.450 -3.800 -3.650 -3.200 0.000 3.200 3.650 3.800 7.450 8.950 9.000

LAKOYA AVENUE LTP CH 200.398

DATUM 191	
DESIGN SURFACE LEVEL	192.394 192.288 192.287 192.257 192.135 191.985 191.985 192.025 192.257 192.287 192.288
EXISTING SURFACE LEVEL	192.394 192.391 192.391 192.383 192.363 192.362 192.362 192.346 192.294 192.287 192.288
OFFSET	-9.639 -9.000 -8.950 -7.450 -3.800 -3.650 -3.200 0.000 3.200 3.650 3.800 7.450 8.950 9.000

LAKOYA AVENUE LTP CH 179.513

DATUM 190.5	
DESIGN SURFACE LEVEL	191.970 191.870 191.869 191.839 191.717 191.607 191.607 191.714 191.839 191.869 191.870
EXISTING SURFACE LEVEL	191.870 191.872 191.872 191.869 191.860 191.867 191.867 191.882 191.839 191.869 191.870
OFFSET	-9.800 -9.000 -8.950 -7.450 -3.800 -3.650 -3.200 0.000 3.200 3.650 3.800 7.450 8.950 9.000

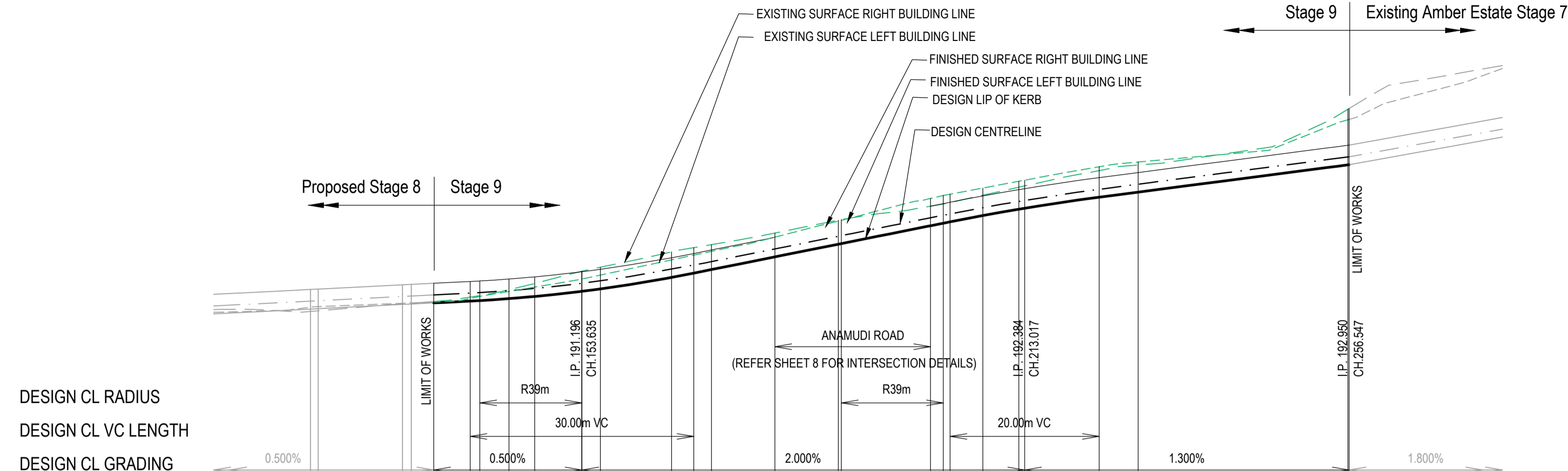
LAKOYA AVENUE CH 156.096

DATUM 190	
DESIGN SURFACE LEVEL	191.541 191.441 191.440 191.410 191.288 191.178 191.178 191.285 191.410 191.440 191.441
EXISTING SURFACE LEVEL	191.357 191.363 191.363 191.376 191.376 191.376 191.376 191.419 191.376 191.441 191.441
OFFSET	-9.600 -9.000 -8.950 -7.450 -3.800 -3.650 -3.200 0.000 3.200 3.650 3.800 7.450 8.950 9.000

LAKOYA AVENUE CH 133.755 (LIMIT OF WORKS)

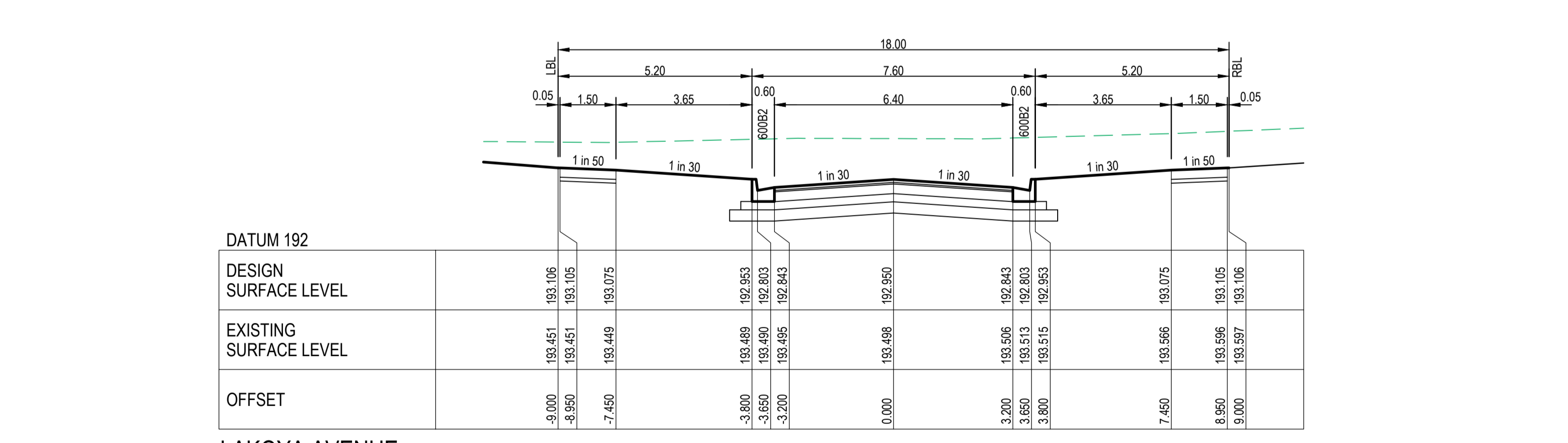
DATUM 190	
DESIGN SURFACE LEVEL	191.353 191.253 191.252 191.222 191.100 190.950 190.950 191.097 191.222 191.252 191.253
EXISTING SURFACE LEVEL	191.001 191.001 191.001 191.000 190.995 190.995 190.994 190.990 191.001 190.995 190.995
OFFSET	-9.600 -9.000 -8.950 -7.450 -3.800 -3.650 -3.200 0.000 3.200 3.650 3.800 7.450 8.950 9.000

LAKOYA AVENUE CH 133.755 (LIMIT OF WORKS)



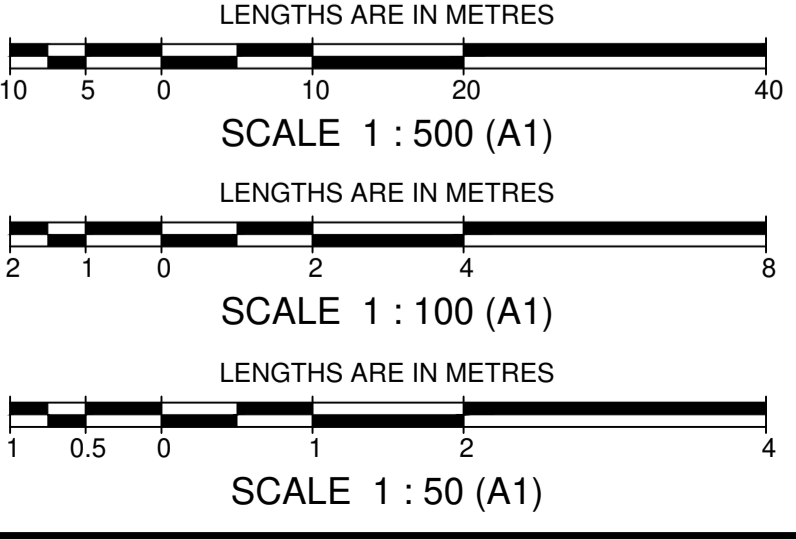
DATUM 188	
EXISTING SURFACE LEFT BUILDING LINE	190.933 190.941 190.965 191.001 191.050 191.078 191.144 191.202 191.309 191.310 191.363 191.567 191.681 191.872 192.085 192.094 192.391 192.431 192.448 192.531 192.621 192.636 192.815 192.879 193.446 193.451
FINISHED SURFACE LEFT BUILDING LINE	191.170 191.176 191.232 191.253 191.277 191.284 191.310 191.340 191.408 191.409 191.441 191.595 191.652 191.681 191.872 192.085 192.094 192.391 192.431 192.448 192.531 192.621 192.636 192.815 192.879 193.446 193.451
LEFT DESIGN LIP OF KERB	191.014 191.008 191.015 191.022 191.028 191.048 191.104 191.146 191.146 191.146 191.178 191.333 191.333 191.437 191.437 191.607 191.607 191.778 191.778 191.884 191.884 192.025 192.025 192.059 192.077 192.162 192.162 192.247 192.247 192.407 192.407 192.841 192.841
DESIGN CL SURFACE LEVEL	191.014 191.014
RIGHT DESIGN LIP OF KERB	191.014 191.014
FINISHED SURFACE RIGHT BUILDING LINE	191.170 191.176 191.232 191.253 191.277 191.284 191.310 191.340 191.408 191.409 191.441 191.595 191.652 191.681 191.872 192.085 192.094 192.391 192.431 192.448 192.531 192.621 192.636 192.815 192.879 193.446 193.451
EXISTING SURFACE RIGHT BUILDING LINE	190.933 190.941 190.965 191.001 191.050 191.078 191.144 191.202 191.309 191.310 191.363 191.567 191.681 191.872 192.085 192.094 192.391 192.431 192.448 192.531 192.621 192.636 192.815 192.879 193.446 193.451
CHAINAGE	117.212 118.252 129.562 130.752 133.755 138.635 139.939 143.856 147.293 153.601 153.635 156.086 165.561 168.635 170.988 179.513 188.032 188.437 200.398 202.089 203.017 207.423 212.233 213.017 223.017 228.233 256.366 256.547

LAKOYA AVENUE LONGITUDINAL SECTION SCALE: H 1:500, V 1:50



LAKOYA AVENUE CROSS SECTIONS SCALE: H 1:100, V 1:50

AS CONSTRUCTED



SELECT GRANULAR MATERIAL COMPACTED AS PER NOTE 34, SHEET 2

WARNING
BEWARE OF UNDERGROUND SERVICES
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brees pitt dixon pty. ltd.
land surveyors civil engineers

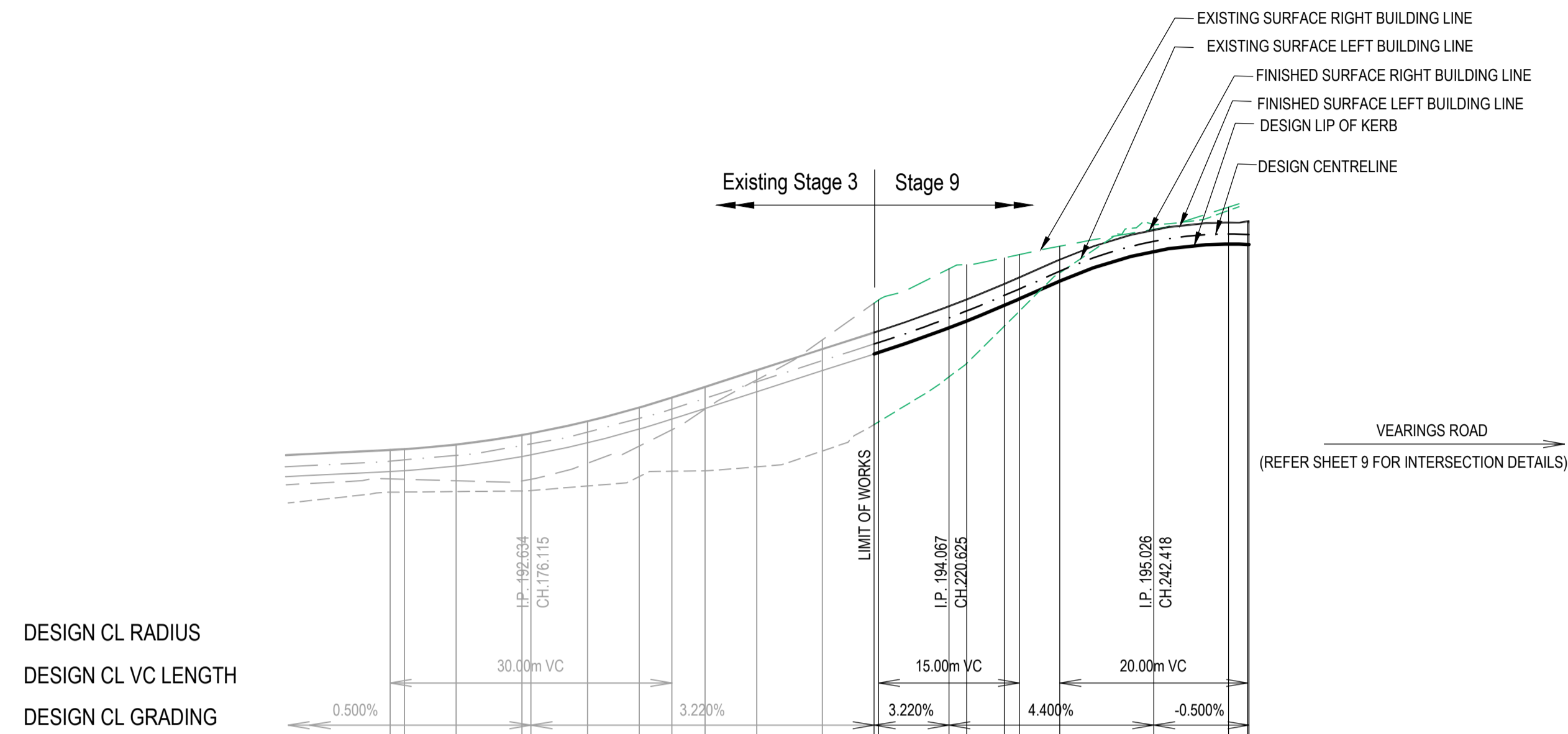
MELWAY REF. 388 C-10
SURVEY BPD
DESIGN M.A.
DRAWN M.A.

RATHDOWNE ESTATE STAGE 9
ROAD LONGITUDINAL SECTION & CROSS SECTIONS
LAKOYA AVENUE

MUNICIPALITY WHITTLESEA
REFERENCE 9365 E/9
SHEET 5 OF 12

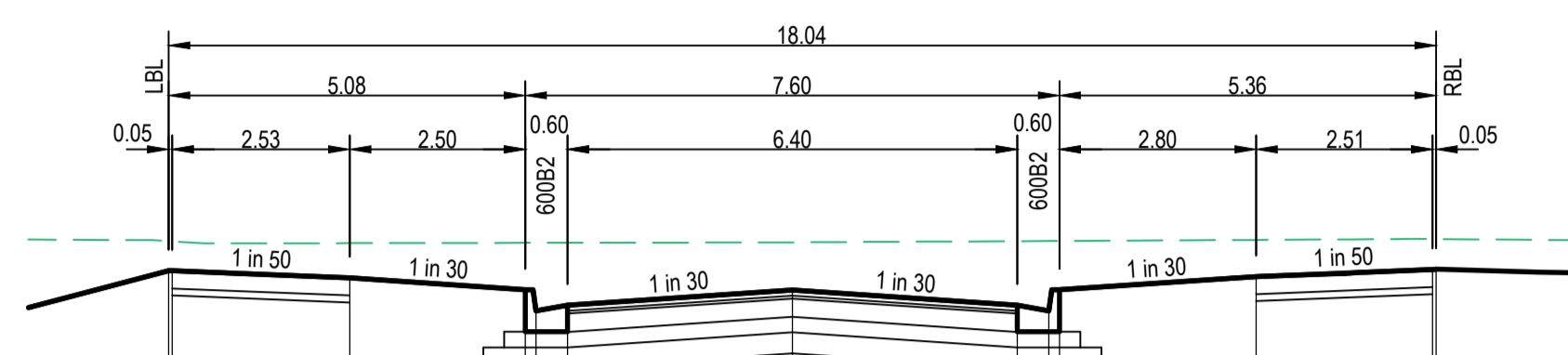
1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

NOV '20



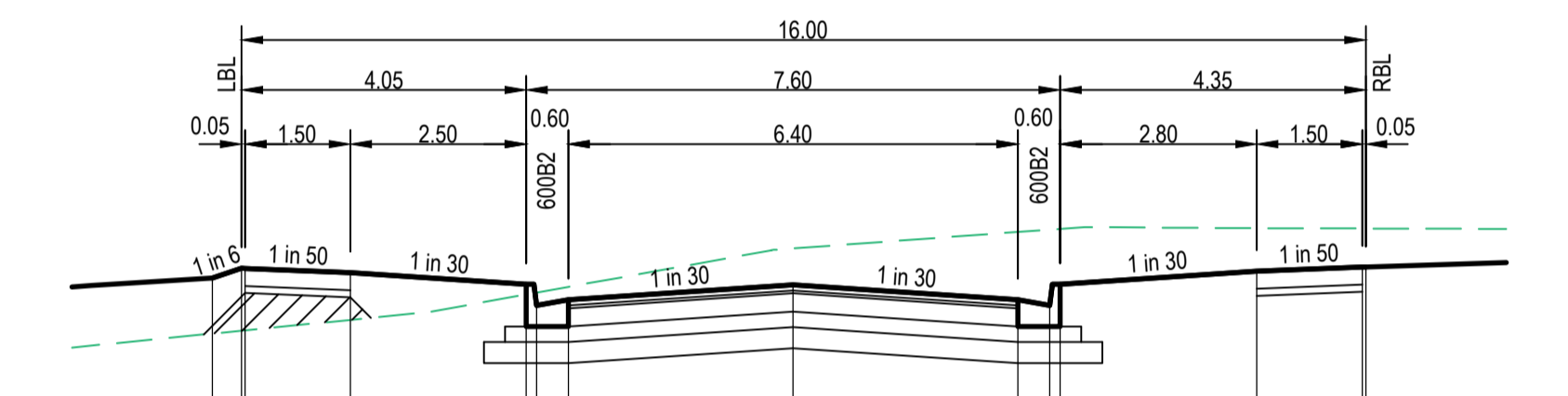
DATUM 189	161.115	162.650	168.150	175.150	176.115	182.150	187.650	191.115	194.650	200.150	207.150	212.650	213.125	220.625	226.515	228.125	232.418	242.418	250.377	252.418	252.546	252.567
EXISTING SURFACE LEFT BUILDING LINE	192.232	192.233	192.238	192.244	192.248	192.258	192.298	192.454	192.459	192.502	192.671	192.852	192.981	193.400	194.001	194.160	194.568	195.062	195.230	195.111	195.113	
FINISHED SURFACE LEFT BUILDING LINE	192.452	192.461	192.474	192.488	192.498	192.510	192.594	193.010	193.124	193.201	193.526	193.703	193.719	194.089	194.220	194.290	194.479	194.792	194.981	194.869	194.868	194.975
LEFT DESIGN LIP OF KERB	192.452	192.461	192.474	192.488	192.498	192.510	192.594	193.010	193.124	193.201	193.526	193.703	193.719	194.089	194.220	194.290	194.479	194.792	194.981	194.869	194.868	194.975
DESIGN CL SURFACE LEVEL	192.559	192.567	192.580	192.594	192.603	192.616	192.700	193.117	193.230	193.307	193.633	193.810	193.826	194.196	194.327	194.397	194.586	194.903	194.981	194.869	194.868	194.975
RIGHT DESIGN LIP OF KERB	192.452	192.461	192.474	192.488	192.498	192.510	192.594	193.010	193.124	193.201	193.526	193.703	193.719	194.089	194.220	194.290	194.479	194.792	194.981	194.869	194.868	194.975
FINISHED SURFACE RIGHT BUILDING LINE	192.686	192.689	192.702	192.716	192.725	192.738	192.822	193.239	193.353	193.430	193.756	193.933	193.949	194.319	194.450	194.520	194.709	195.026	195.108	195.021	195.023	195.123
EXISTING SURFACE RIGHT BUILDING LINE	192.373	192.389	192.353	192.350	192.368	192.340	192.323	192.286	192.244	192.202	191.855	191.425	191.218	190.810	190.428	190.154	190.000	190.032	190.267	190.521	190.723	190.888
CHAINAGE	161.115	162.650	168.150	175.150	176.115	182.150	187.650	191.115	194.650	200.150	207.150	212.650	213.125	220.625	226.515	228.125	232.418	242.418	250.377	252.418	252.546	252.567

LAVELLE PLACE LONGITUDINAL SECTION
SCALE: H 1:500, V 1:50



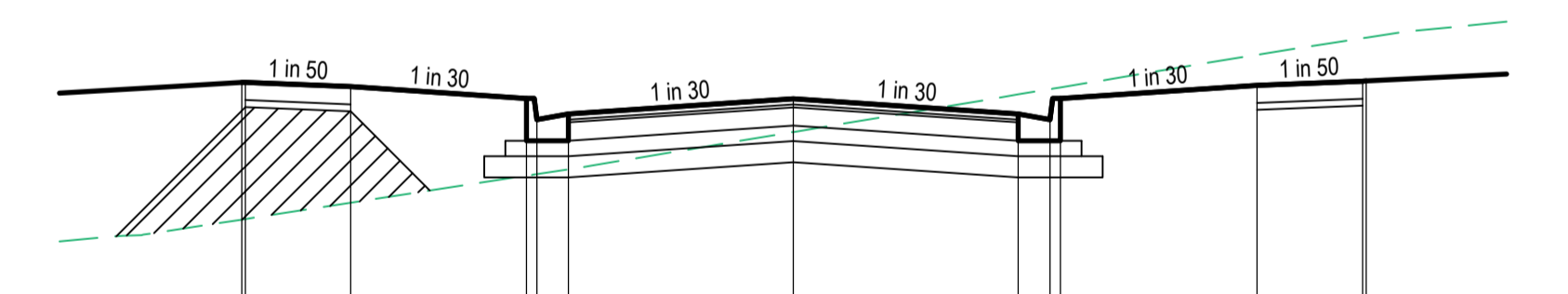
DATUM 194	195.113	195.112	195.062	194.976	194.828	194.868	194.976	195.072	195.122	195.123
DESIGN SURFACE LEVEL	195.323	195.321	195.062	195.311	195.311	195.324	195.325	195.332	195.339	195.338
EXISTING SURFACE LEVEL	-8.676	-8.626	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800
OFFSET										

LAVELLE PLACE LTP CH 252.546



DATUM 193	194.375	194.445	194.444	194.414	194.330	194.180	194.220	194.180	194.330	194.424	194.454	194.455
DESIGN SURFACE LEVEL	193.980	194.001	194.003	194.078	194.256	194.272	194.312	194.220	194.330	194.730	194.728	194.728
EXISTING SURFACE LEVEL	-7.850	-7.800	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	6.600	8.100	8.150
OFFSET												

LAVELLE PLACE CH 226.515



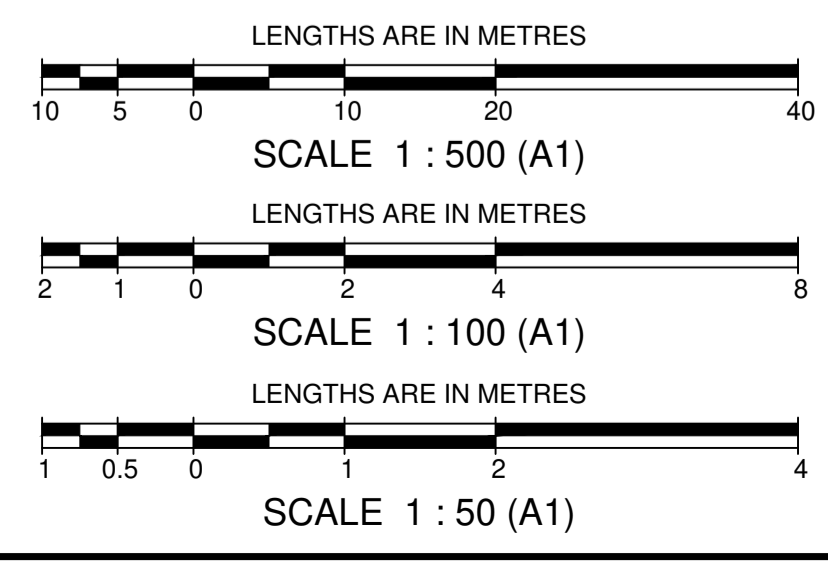
DATUM 192	193.928	193.927	193.897	193.813	193.663	193.703	193.813	193.907	193.937	193.938
DESIGN SURFACE LEVEL	193.952	193.956	193.971	193.264	193.275	193.310	193.310	193.575	193.841	193.879
EXISTING SURFACE LEVEL	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800
OFFSET										

LAVELLE PLACE CH 212.650 (LIMIT OF WORKS)

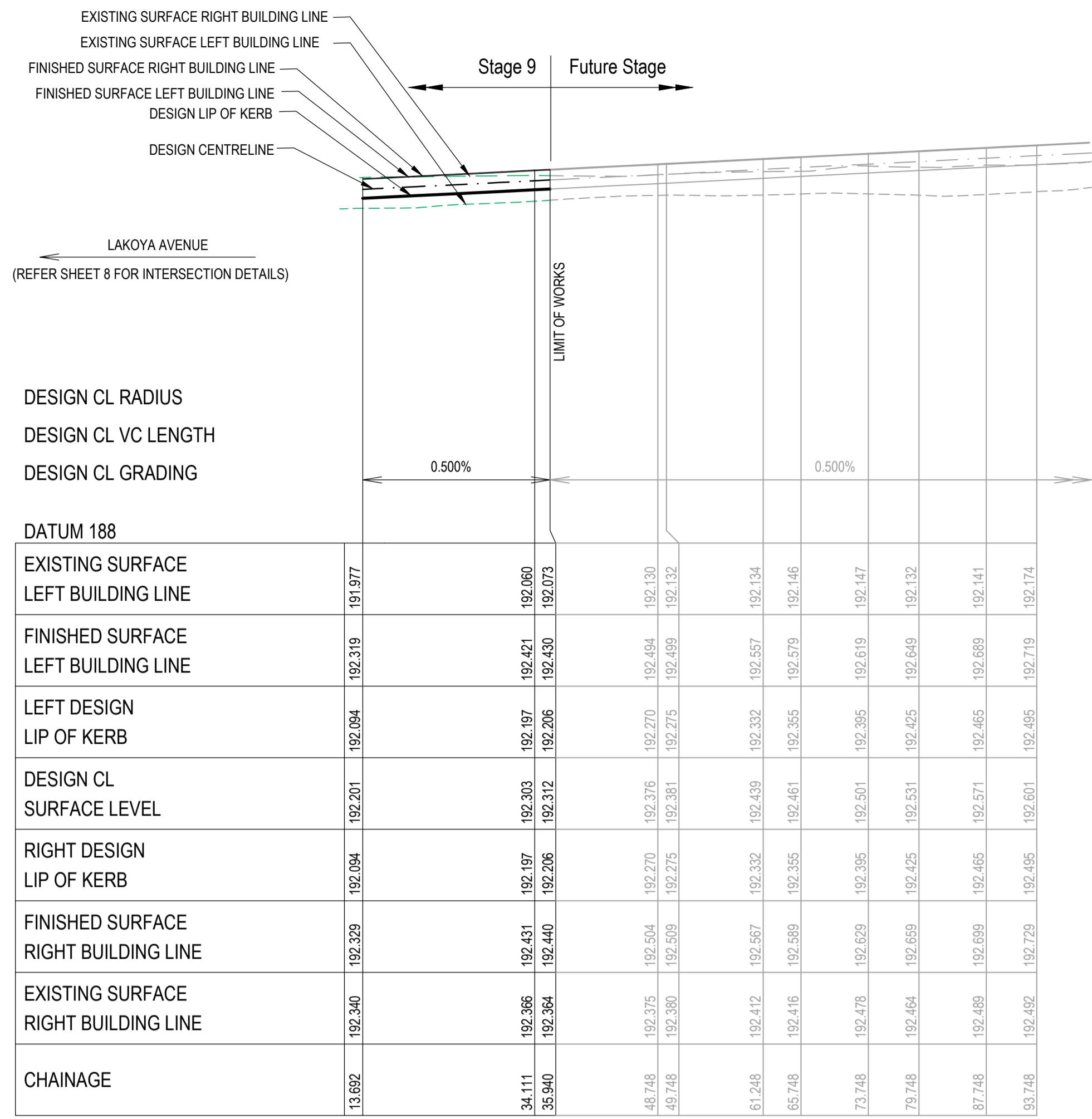
AS CONSTRUCTED

WARNING
BEWARE OF UNDERGROUND SERVICES
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SELECT GRANULAR MATERIAL
COMPACTED AS PER NOTE 34, SHEET 2

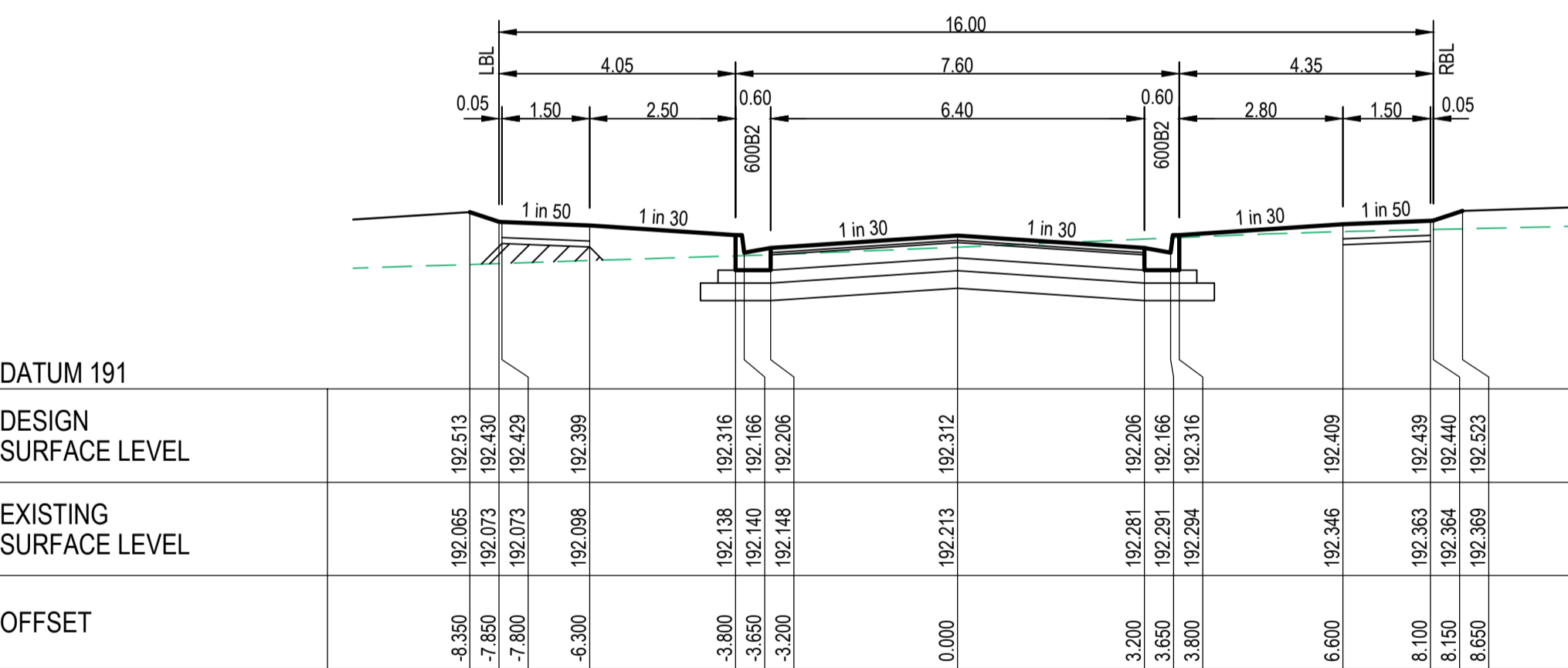


		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388 C-10 SURVEY BPD DESIGN M.A. DRAWN M.A.		RATHDOWNE ESTATE STAGE 9 ROAD LONGITUDINAL SECTION & CROSS SECTIONS LAVELLE PLACE		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/9	
AMENDMENTS A 07-07-21 ISSUED FOR CONSTRUCTION	VER DATE REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE NOV '20
			SHEET 6 OF 12	A	



ANAMUDI ROAD LONGITUDINAL SECTION

SCALE: H 1:500, V 1:50



ANAMUDI ROAD CROSS SECTIONS

SCALE: H 1:100, V 1:50

CHAINAGE	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL	OFFSET
13.692	192.094	191.977	-0.117
34.111	192.319	192.060	-0.259
35.940	192.312	192.073	-0.239
48.748	192.276	192.494	0.218
49.748	192.381	192.499	0.117
61.248	192.332	192.134	-0.202
65.748	192.361	192.579	0.218
73.748	192.395	192.619	0.224
79.748	192.425	192.132	-0.293
87.748	192.465	192.689	0.224
93.748	192.495	192.719	0.224

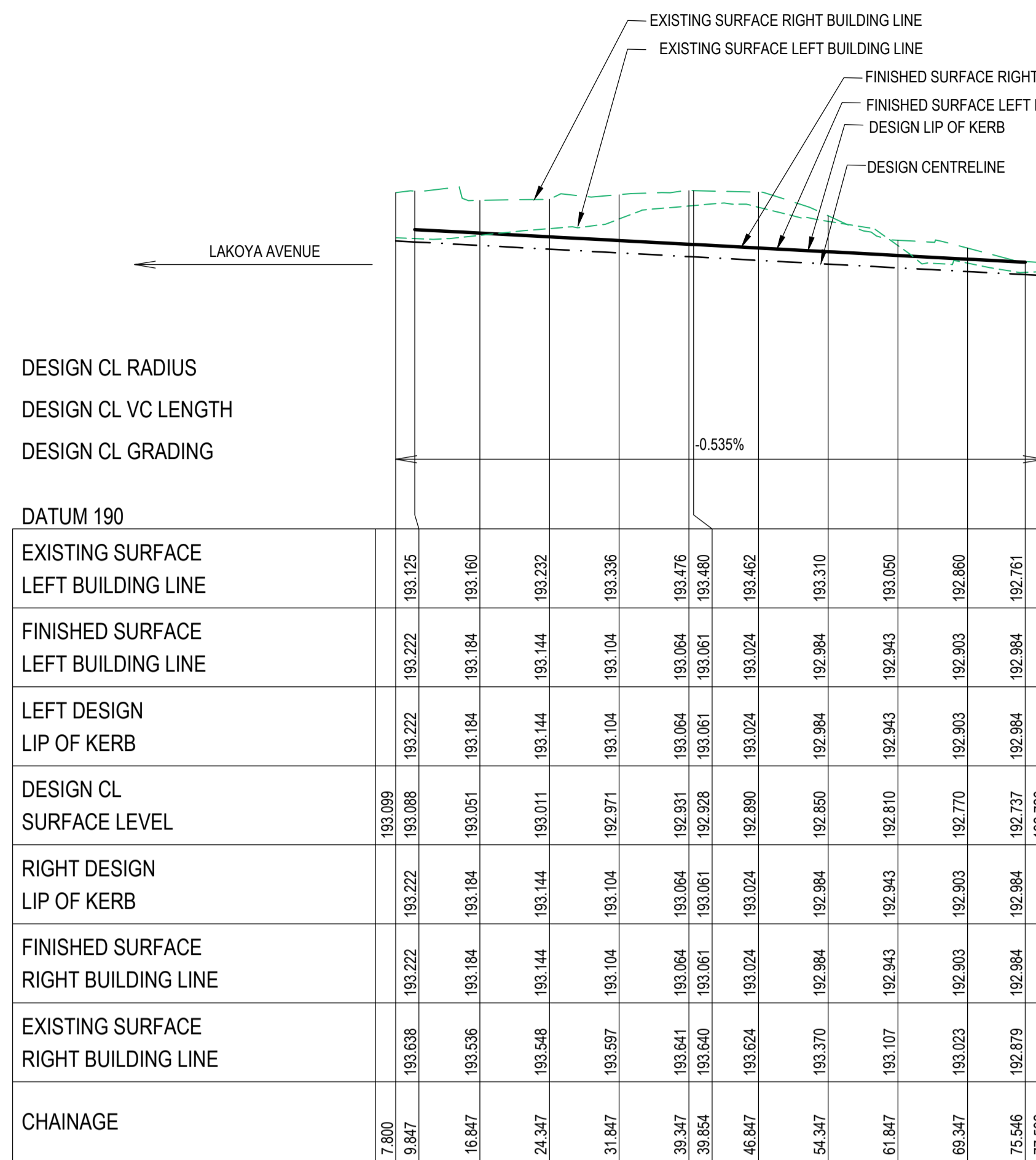
RTP CH 13.692

ANAMUDI ROAD CROSS SECTIONS

SCALE: H 1:100, V 1:50

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SELECT GRANULAR MATERIAL COMPACTED AS PER NOTE 34, SHEET 2



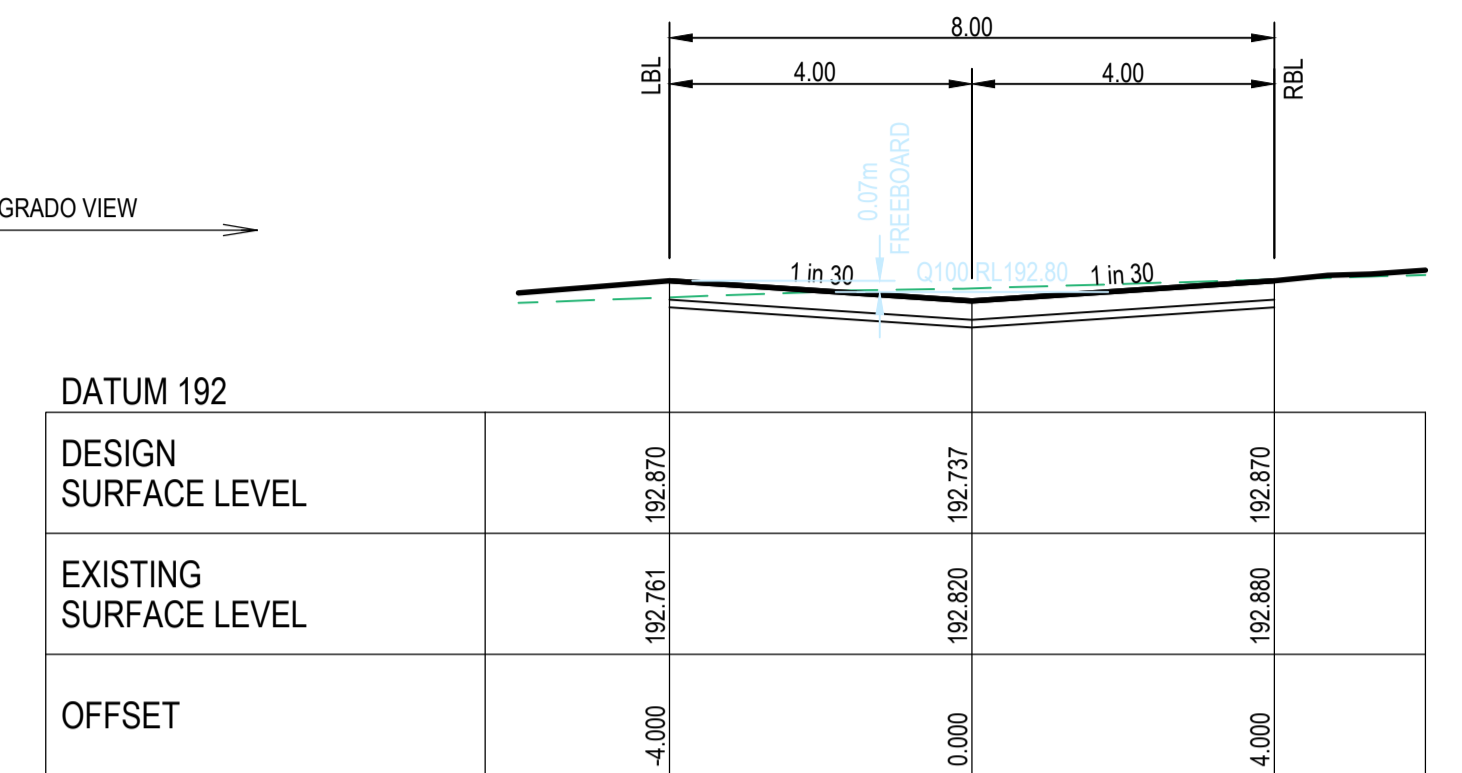
LINDA LANE LONGITUDINAL SECTION

SCALE: H 1:500, V 1:50

CHAINAGE	EXISTING SURFACE LEFT BUILDING LINE	FINISHED SURFACE LEFT BUILDING LINE	LEFT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL	RIGHT DESIGN LIP OF KERB	FINISHED SURFACE RIGHT BUILDING LINE	EXISTING SURFACE RIGHT BUILDING LINE
7.800	193.059	193.222	193.222	193.059	193.104	193.310	193.310
9.847	193.088	193.222	193.222	193.088	193.104	193.310	193.310
16.847	193.051	193.184	193.184	193.051	193.104	193.310	193.310
24.347	193.011	193.144	193.144	193.011	193.104	193.310	193.310
31.847	192.971	193.104	193.104	192.971	193.104	193.310	193.310
39.347	192.931	193.064	193.064	192.931	193.104	193.310	193.310
39.854	192.928	193.061	193.061	192.928	193.104	193.310	193.310
46.847	192.890	193.024	193.024	192.890	193.104	193.310	193.310
54.347	192.850	192.984	192.984	192.850	193.104	193.310	193.310
61.847	192.810	192.943	192.943	192.810	193.104	193.310	193.310
69.347	192.770	192.903	192.903	192.770	193.104	193.310	193.310
75.546	192.737	192.864	192.864	192.737	193.104	193.310	193.310
77.592	192.726	192.854	192.854	192.726	193.104	193.310	193.310

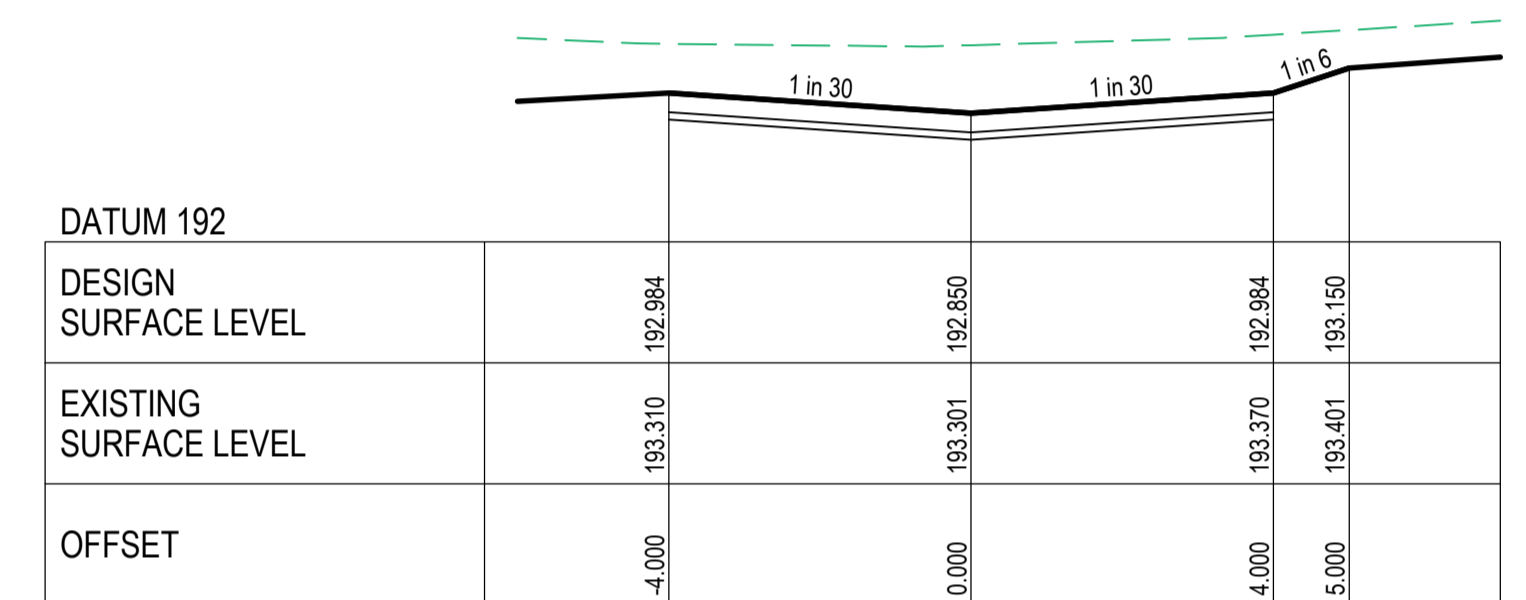
LINDA LANE CROSS SECTIONS

SCALE: H 1:100, V 1:50



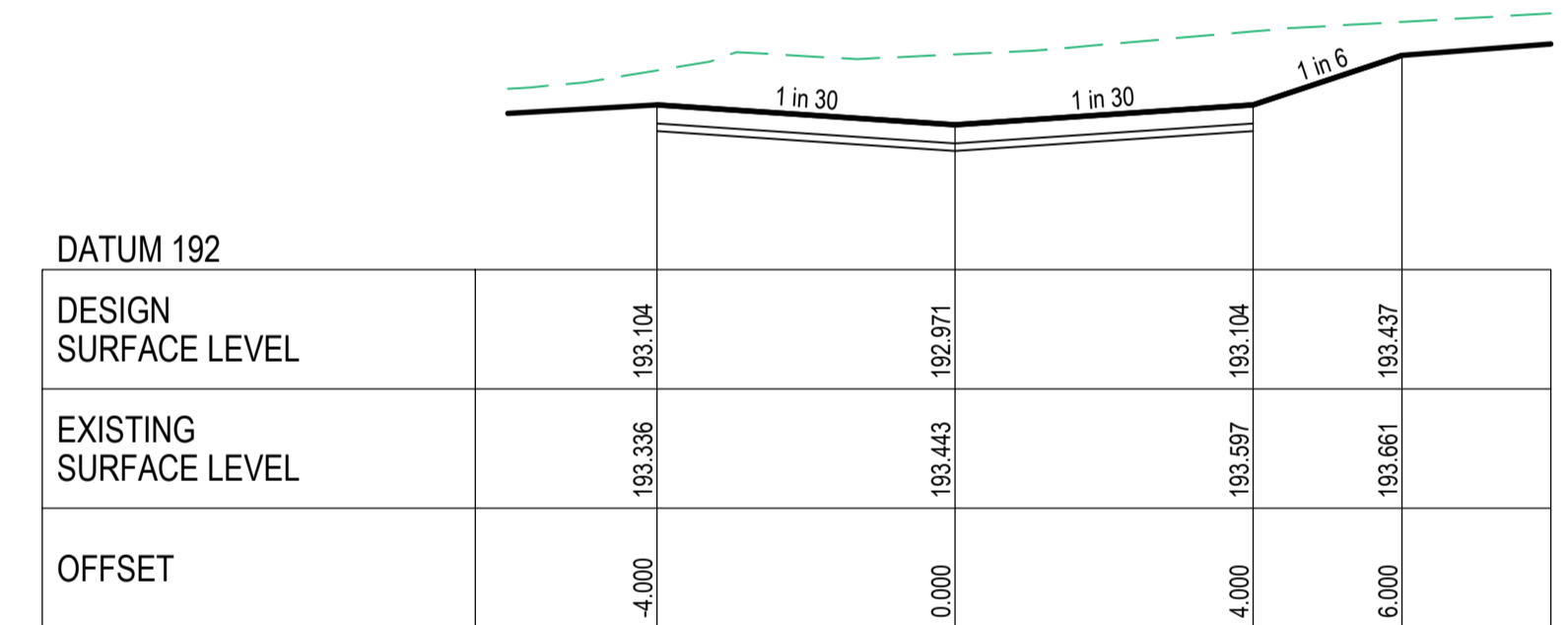
LINDA LANE

SPLAY CH 75.542



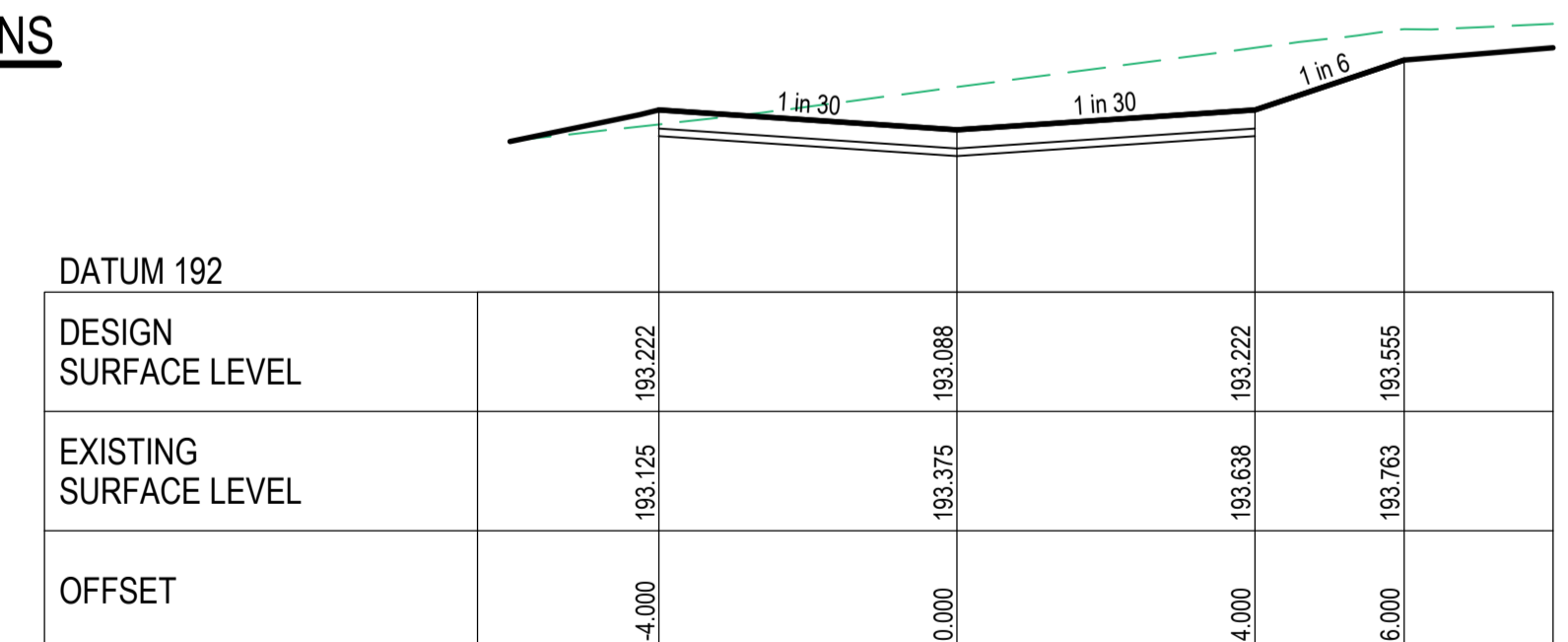
LINDA LANE

CH 54.347



LINDA LANE

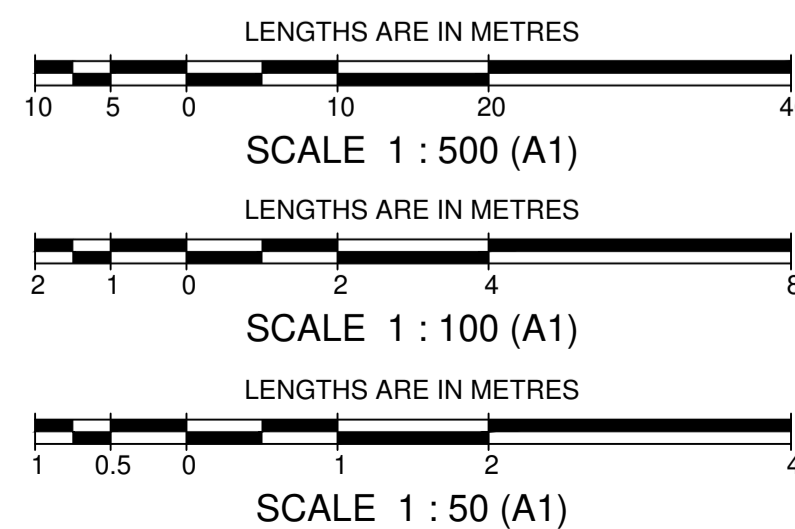
CH 31.847



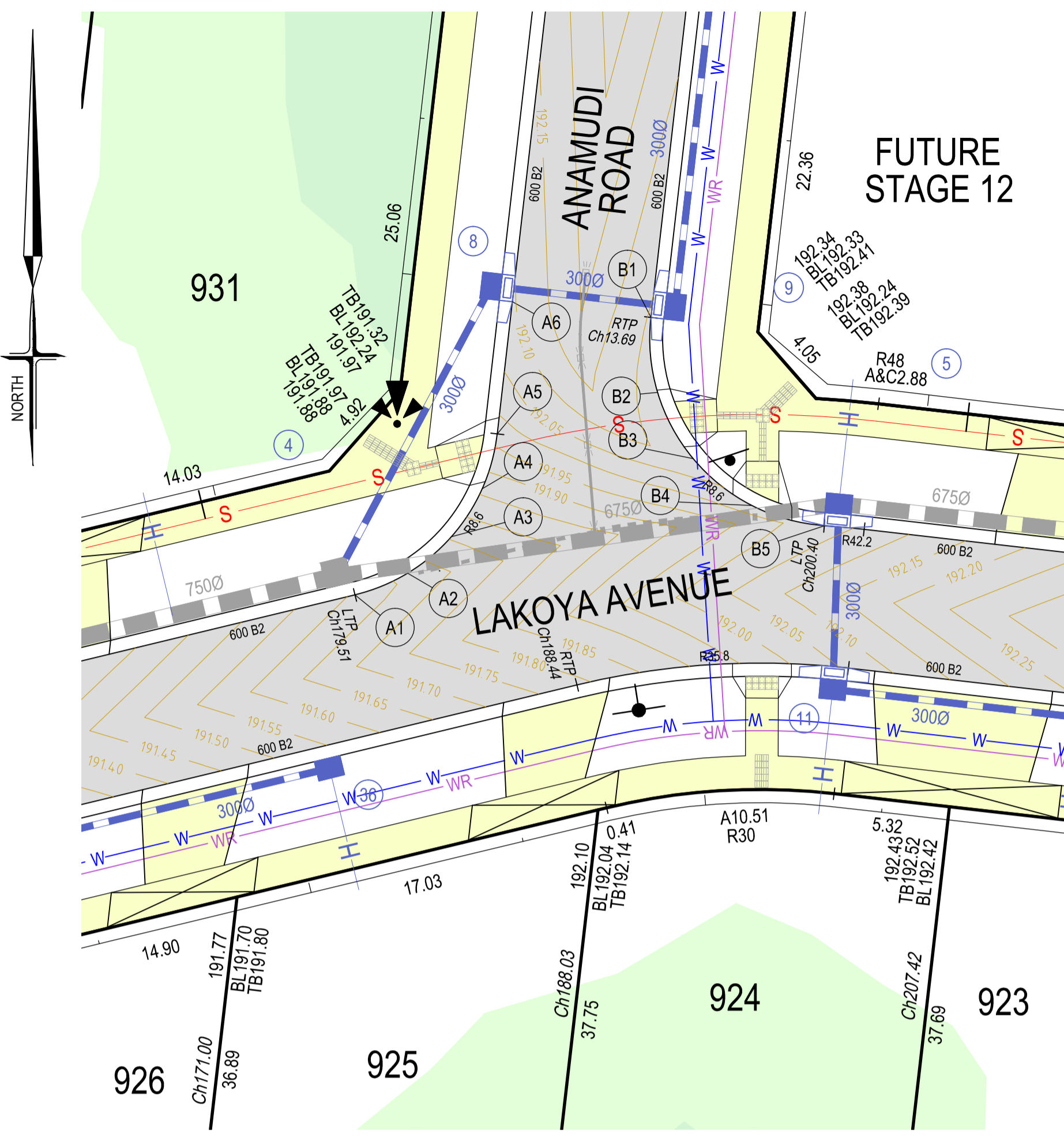
LINDA LANE

SPLAY CH 9.850

AS CONSTRUCTED

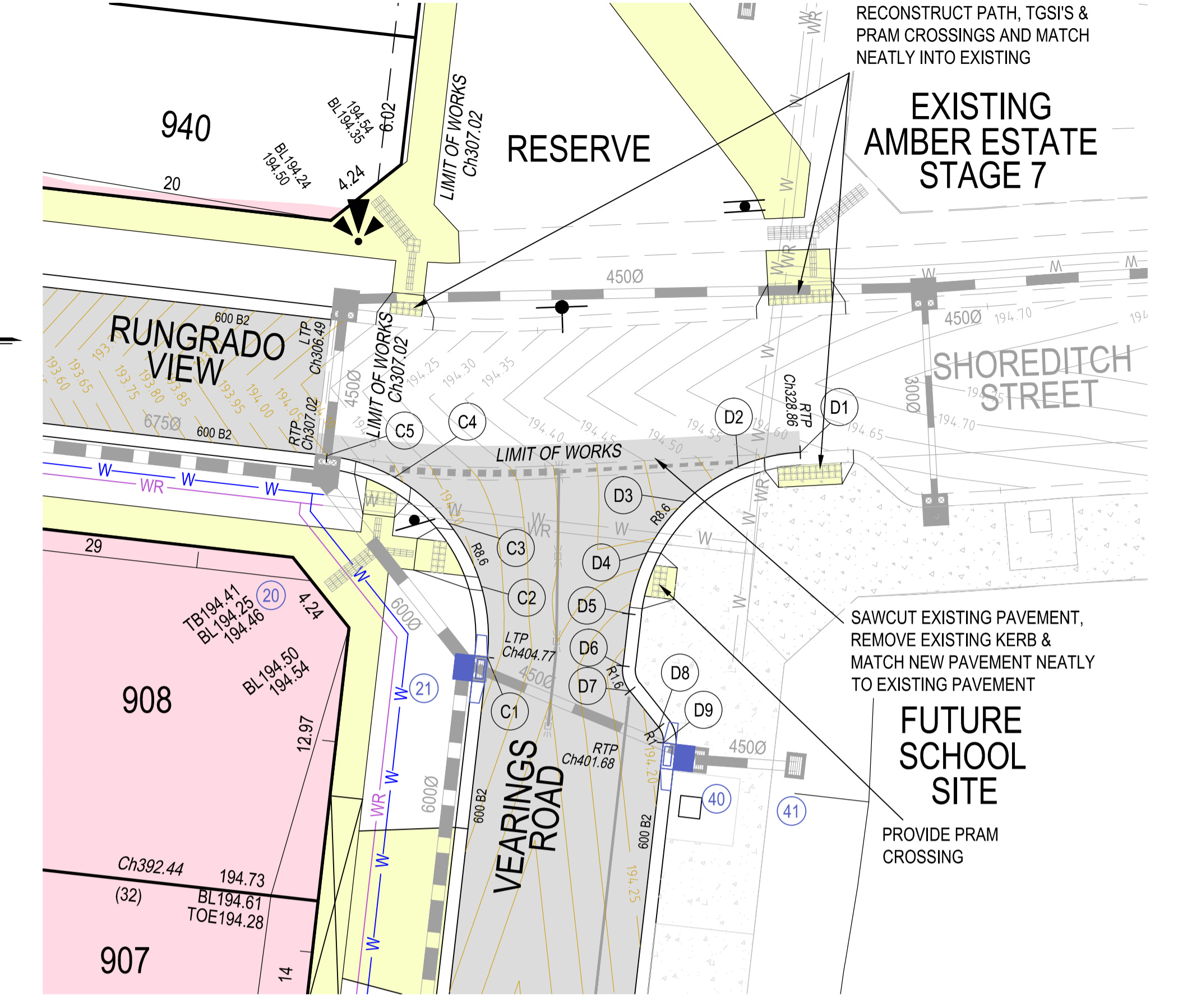


AMENDMENTS		bpd breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388 C-10		RATHDOWNE ESTATE STAGE 9		MUNICIPALITY WHITTLESEA	
SURVEY BPD		ROAD LONGITUDINAL SECTION & CROSS SECTIONS ANAMUDI ROAD & LINDA LANE		REFERENCE 9365 E/9	
DESIGN M.A.		SCALE AS SHOWN		DATUM AHD	
DRAWN M.A.		DATE NOV '20		SHEET 7 OF 12	
VER	DATE	ISSUED FOR CONSTRUCTION	CHECKED	DATE	NOV '20



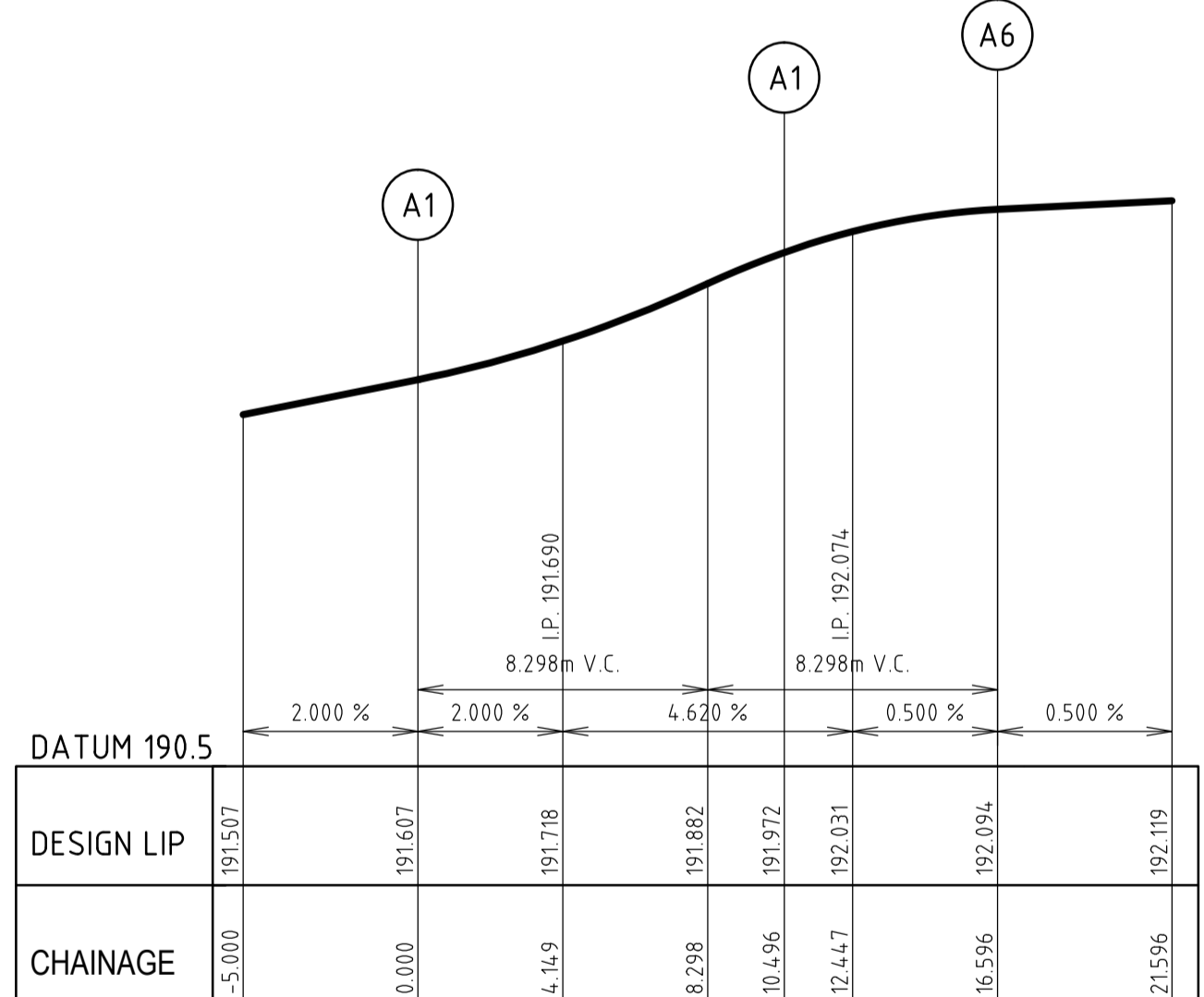
LAKOYA AVENUE/ANAMUDI ROAD INTERSECTION DETAIL

SCALE 1:200 AT A1 SIZE



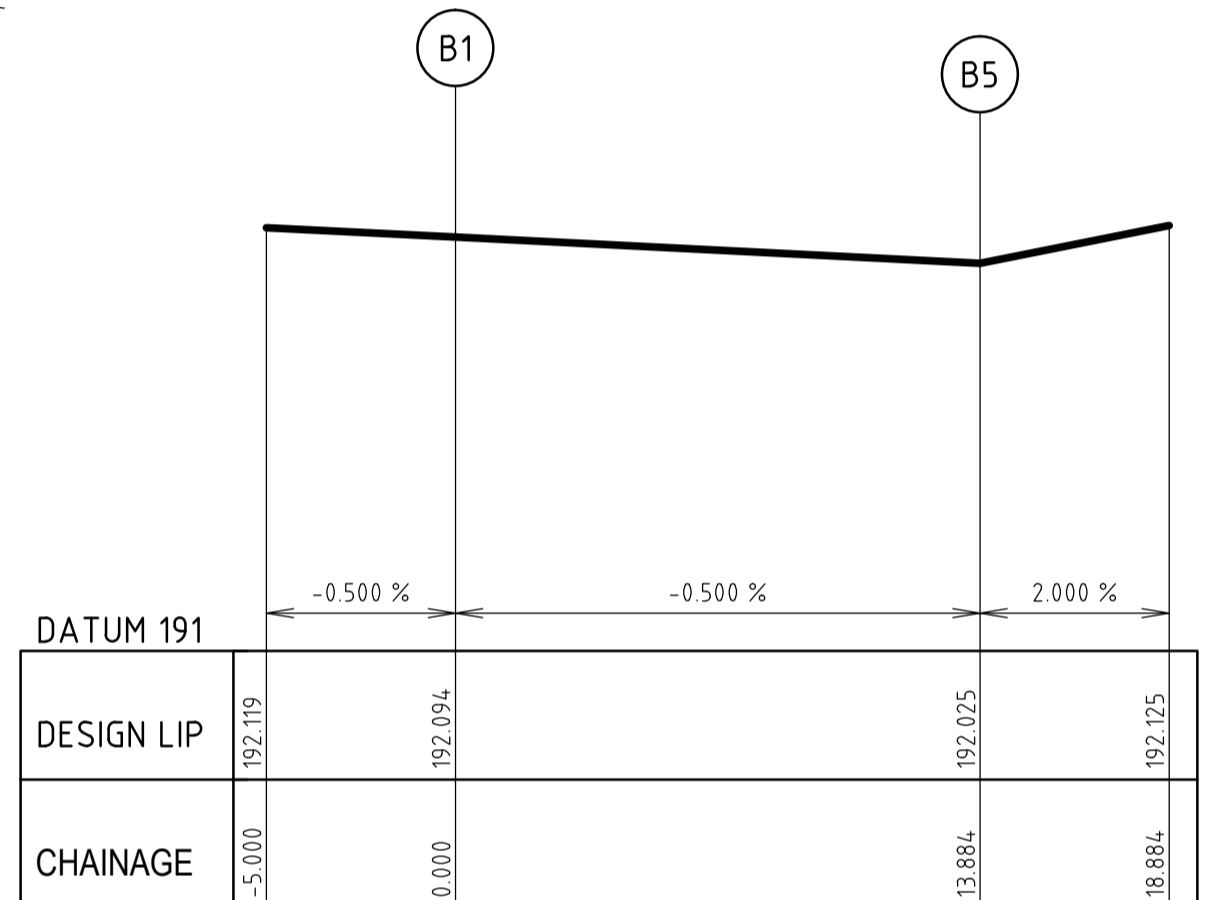
RUNGRADO VIEW/SHORDITCH STREET/VEARINGS ROAD INTERSECTION DETAIL

SCALE 1:200 AT A1 SIZE



LIP LINE A

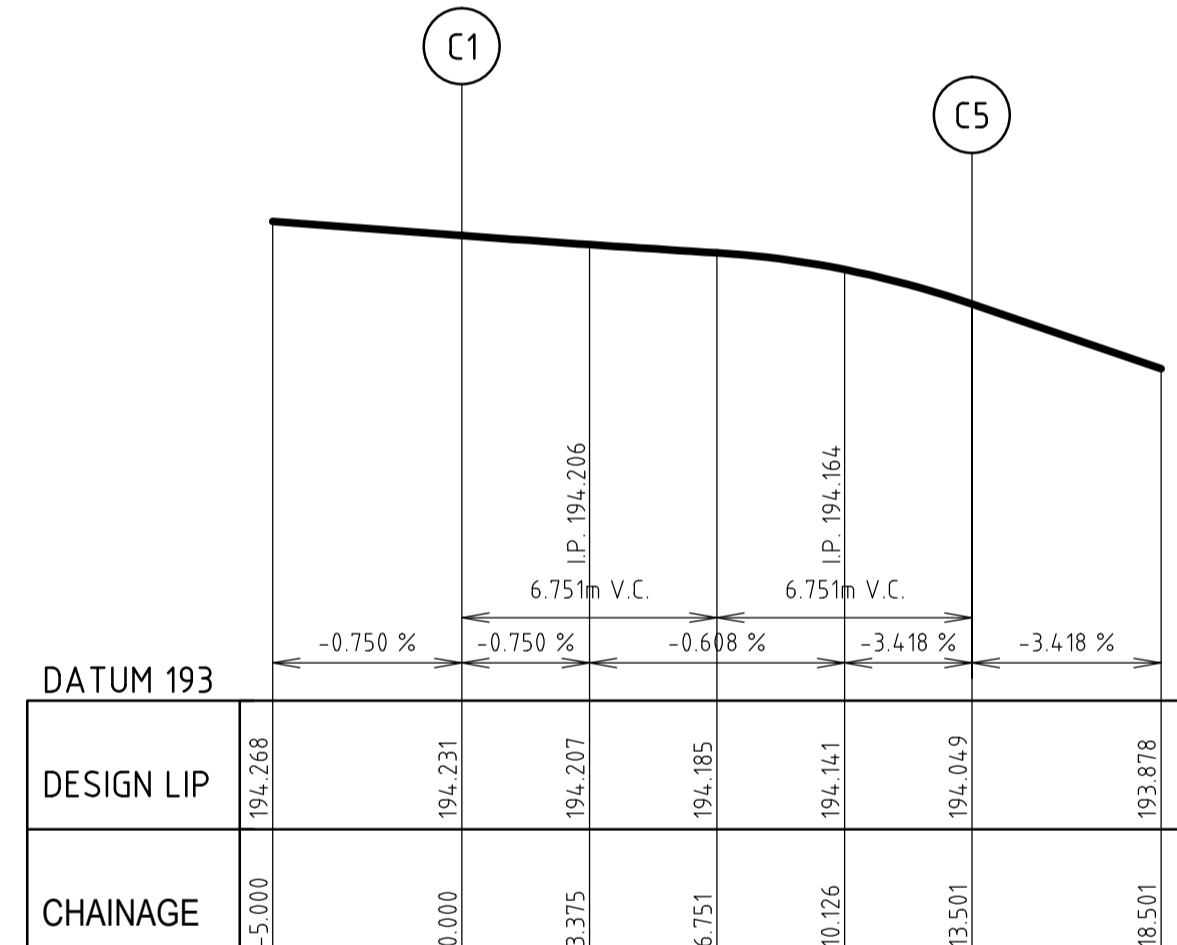
Point	Easting	Northing	RL
A1	322632.279	5837122.214	191.607
A2	322634.697	5837123.206	191.671
A3	322636.705	5837124.879	191.756
A4	322638.118	5837127.078	191.863
A5	322638.805	5837129.600	191.972
A6	322639.495	5837135.661	192.094



LIP LINE B

Point	Easting	Northing	RL
B1	322645.854	5837134.937	192.094
B2	322646.158	5837131.503	192.077
B3	322647.787	5837128.464	192.060
B4	322650.478	5837126.309	192.042
B5	322653.799	5837125.385	192.025

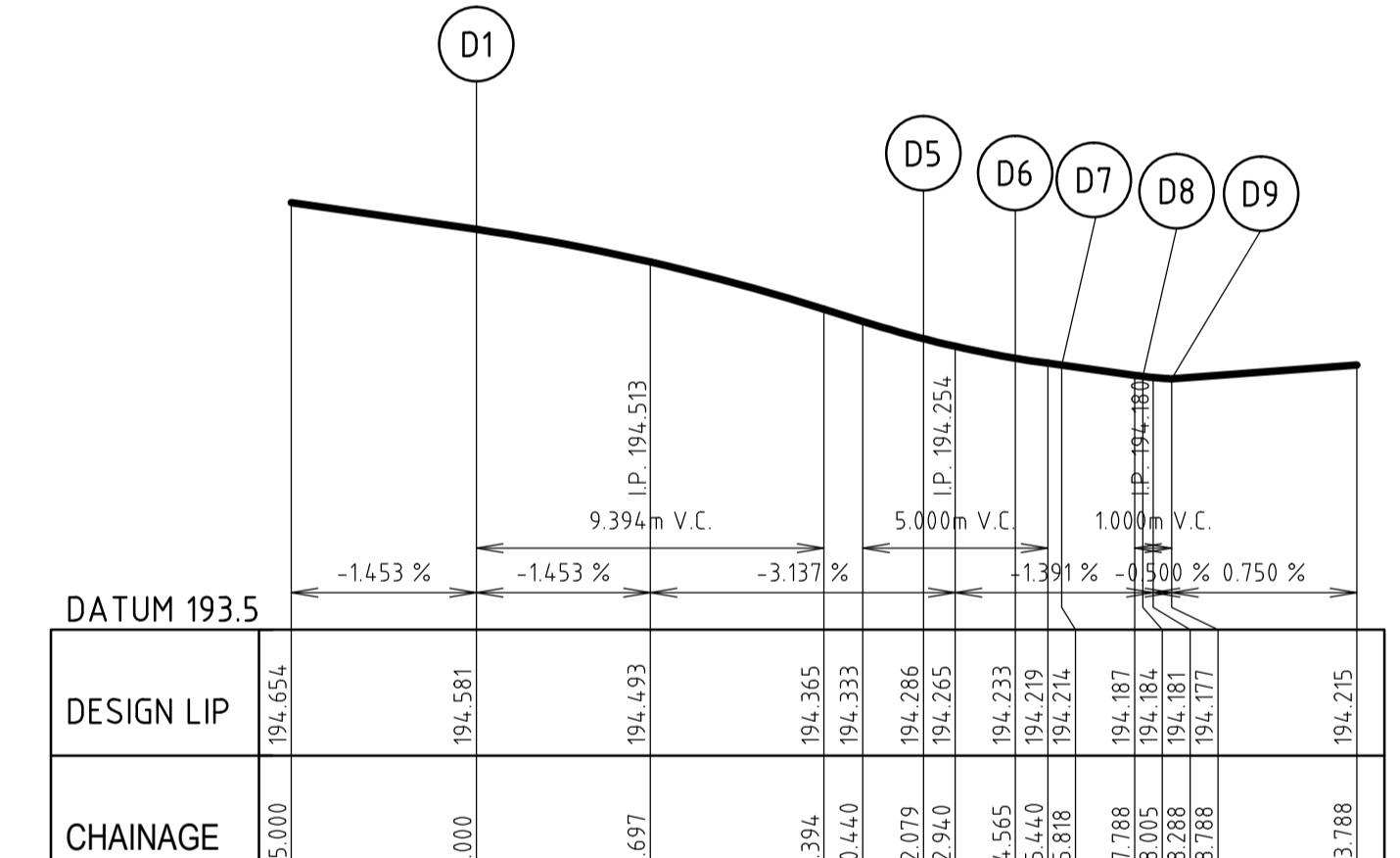
Point	Easting	Northing	RL
B1	322645.854	5837134.937	192.094
B2	322646.158	5837131.503	192.077
B3	322647.787	5837128.464	192.060
B4	322650.478	5837126.309	192.042
B5	322653.799	5837125.385	192.025



LIP LINE C

Point	Easting	Northing	RL
C1	322704.766	5837017.431	194.231
C2	322704.486	5837020.773	194.207
C3	322702.948	5837023.754	194.185
C4	322700.388	5837025.919	194.141
C5	322697.194	5837026.941	194.049

Point	Easting	Northing	RL
C1	322704.766	5837017.431	194.231
C2	322704.486	5837020.773	194.207
C3	322702.948	5837023.754	194.185
C4	322700.388	5837025.919	194.141
C5	322697.194	5837026.941	194.049



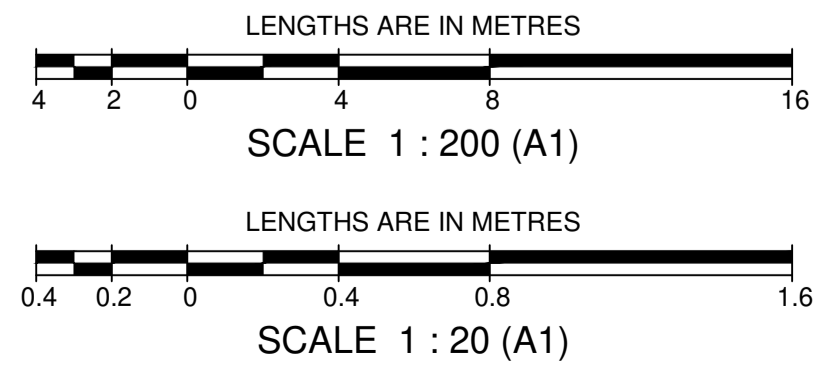
LIP LINE D

Point	Easting	Northing	RL
D1	322719.522	5837027.100	194.581
D2	322716.596	5837026.417	194.529
D3	322714.084	5837024.769	194.461
D4	322712.292	5837022.358	194.376
D5	322711.438	5837019.477	194.286
D6	322711.159	5837017.007	194.233
D7	322711.495	5837015.834	194.214
D8	322712.854	5837014.120	194.184
D9	322713.065	5837013.386	194.177

Point	Easting	Northing	RL
D1	322719.522	5837027.100	194.581
D2	322716.596	5837026.417	194.529
D3	322714.084	5837024.769	194.461
D4	322712.292	5837022.358	194.376
D5	322711.438	5837019.477	194.286
D6	322711.159	5837017.007	194.233
D7	322711.495	5837015.834	194.214
D8	322712.854	5837014.120	194.184
D9	322713.065	5837013.386	194.177

- NOTES:**
- ALL KERB AND CHANNEL TO BE AS SPECIFIED.
 - ALL CHAINAGES ARE SQUARE TO CENTERLINE OF ROAD PAVEMENT.
 - ALL SETOUT TO LIP OF KERB UNLESS OTHERWISE SHOWN.
 - KERB LEVELS ARE TO LIP OF KERB.
 - CONDUITS NOT SHOWN FOR CLARITY.

WARNING
BEWARE OF UNDERGROUND SERVICES
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SYMBOL LEGEND

- Drains: S (Prop), S (Prev Stage)
- Sewer < 3000: S (Prop), S (Prev Stage)
- Sewer ≥ 3000: S (Prop), S (Prev Stage)
- Water (DW): W (Prop), W (Prev Stage)
- Water (NDW): W (Prop), W (Prev Stage)
- House Drain: H (Prop), H (Prev Stage)
- Property Inlet: P (Prop), P (Prev Stage)
- Street Sign: S (Prop), S (Prev Stage)
- PSM: PSM (Prop), PSM (Prev Stage)
- Rock Ret Wall: R (Prop), R (Prev Stage)
- Sleeper Ret Wall: S (Prop), S (Prev Stage)
- Conduits 50mm: C (Prop), C (Prev Stage)
- Conduits 100mm: C (Prop), C (Prev Stage)
- GW: GW (Prop), GW (Prev Stage)
- W100: W100 (Prop), W100 (Prev Stage)
- Street Tree without/with Passive Irrigation (Refer Detail): T (Prop), T (Prev Stage)
- Ex Drains: Ex W (Prop), Ex W (Prev Stage)
- Ex Water D/WNDW: Ex W (Prop), Ex W (Prev Stage)
- Ex Sewer/Gas: Ex S (Prop), Ex S (Prev Stage)
- Ex Elect/Comm: Ex E (Prop), Ex E (Prev Stage)
- Ex Natural/FS Level: Ex N (Prop), Ex N (Prev Stage)
- FS @ Building Line: FS (Prop), FS (Prev Stage)
- Top/Toe of Batter: Top (Prop), Top (Prev Stage)
- Top Ret. Wall Level: Top (Prop), Top (Prev Stage)
- 100yr Flood Level: FL (Prop), FL (Prev Stage)
- Fill Proposed (<0.3m/≥0.3m): F (Prop), F (Prev Stage)
- Cut Proposed: C (Prop), C (Prev Stage)
- Asphalt Surface Prop: A (Prop), A (Prev Stage)
- Concrete Surface Prop (Paths/Driveways/Slabs): C (Prop), C (Prev Stage)
- Tree To Be Removed: X (Prop), X (Prev Stage)
- Tree To Be Retained with Tree Protection Zone (TPZ): T (Prop), T (Prev Stage)

AS CONSTRUCTED

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

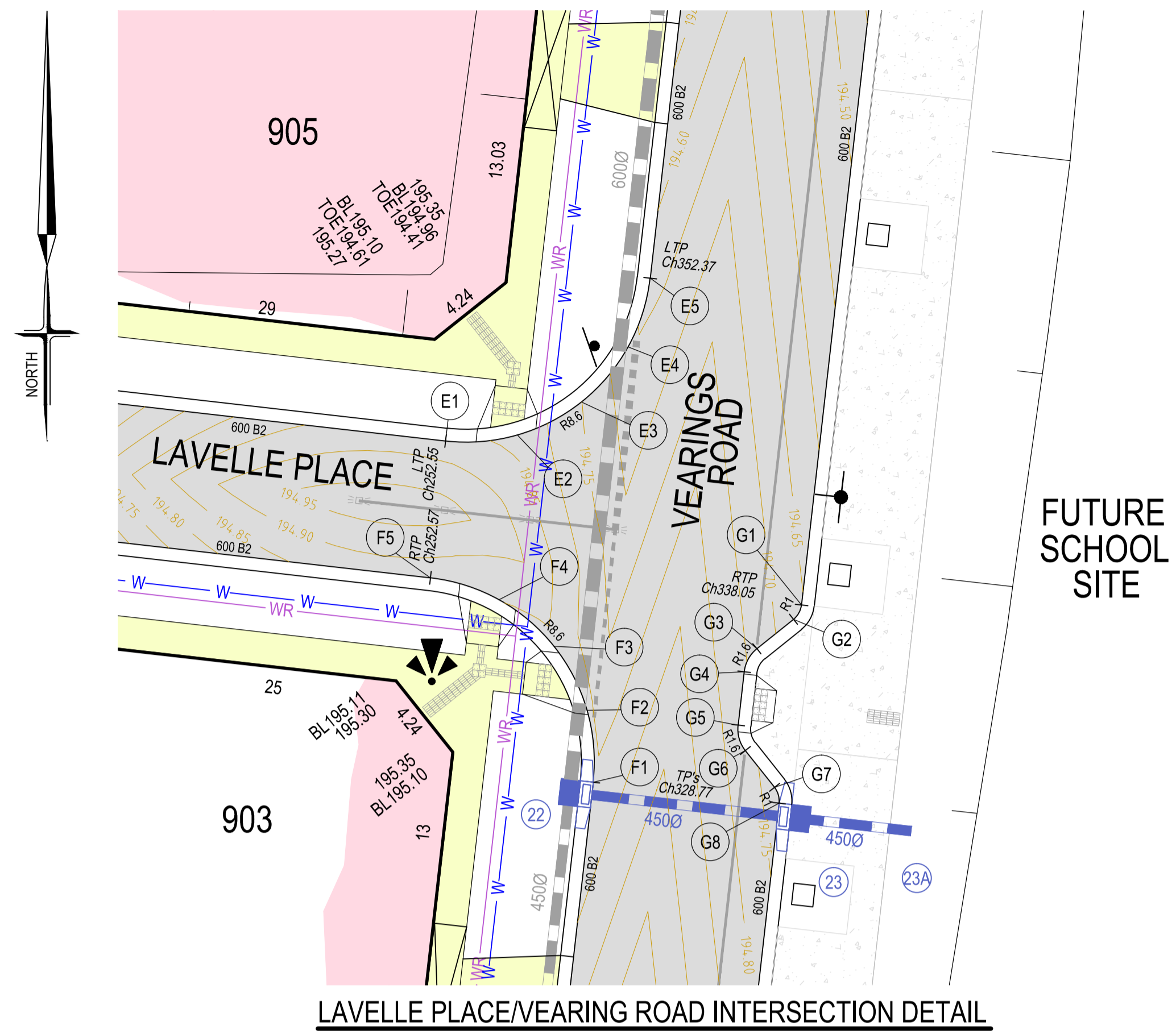
RATHDOWNE ESTATE STAGE 9
INTERSECTION DETAILS - SHEET 1 OF 2

MELWAY REF. 388 C-10
SURVEY BPD
DESIGN M.A.
DRAWN M.A.

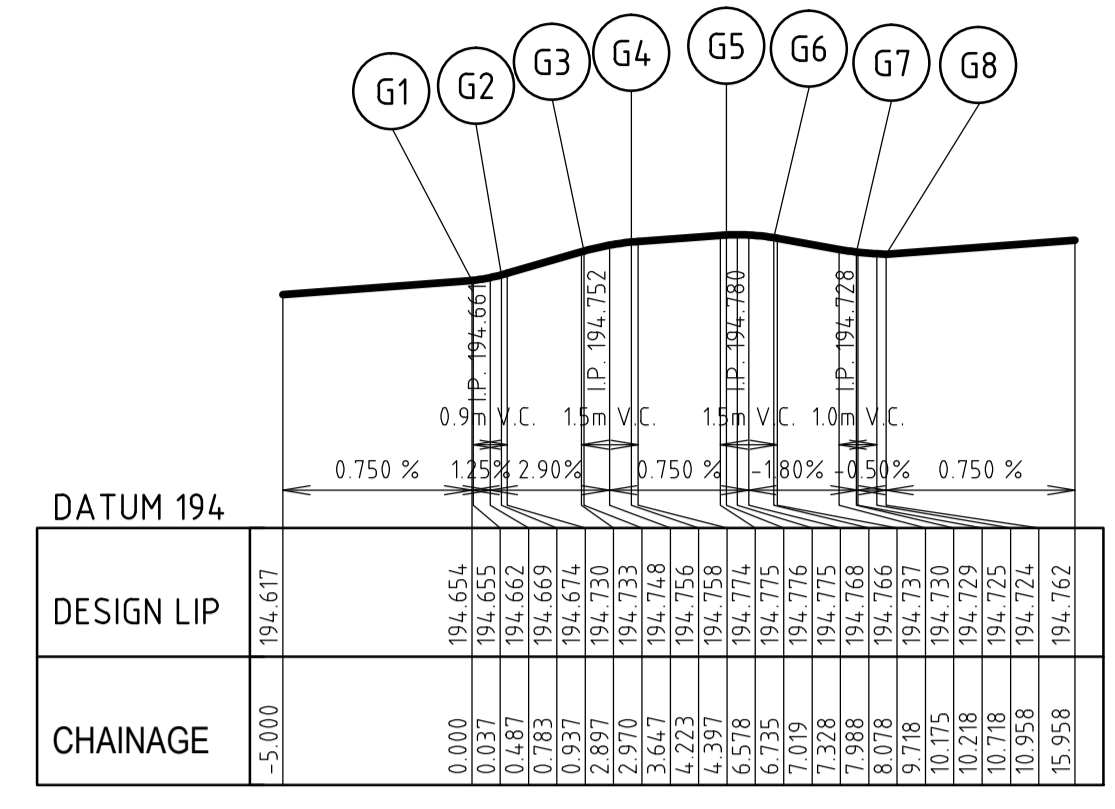
MUNICIPALITY WHITTLESEA
REFERENCE 9365 E/9

AMENDMENTS
A 07-07-21 ISSUED FOR CONSTRUCTION
VER DATE REMARKS CHECKED

SCALE AS SHOWN DATUM AHD DATE NOV '20 SHEET 8 OF 12 A

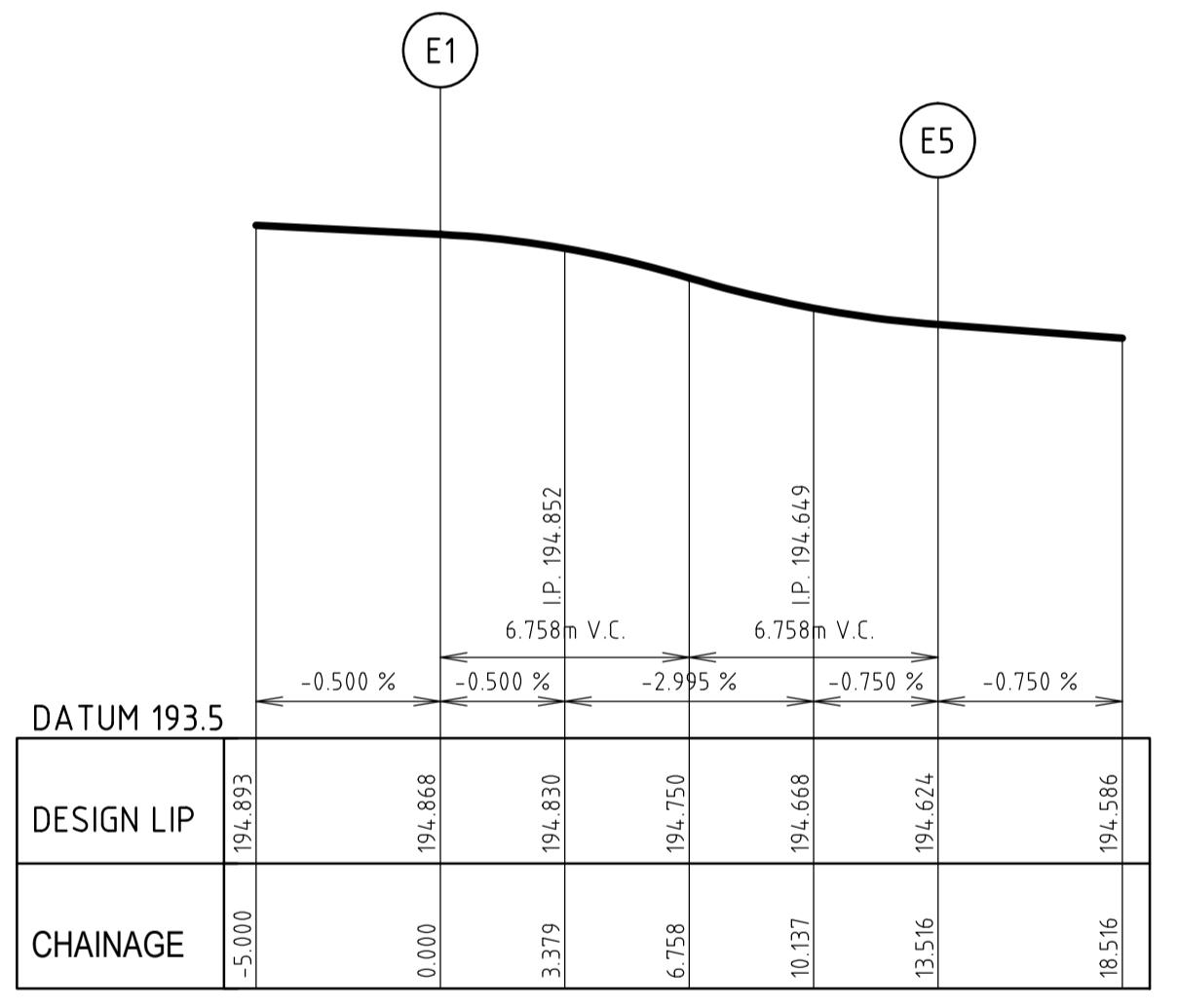


LAVELLE PLACE/VEARING ROAD INTERSECTION DETAIL
SCALE 1:200 AT A1 SIZE



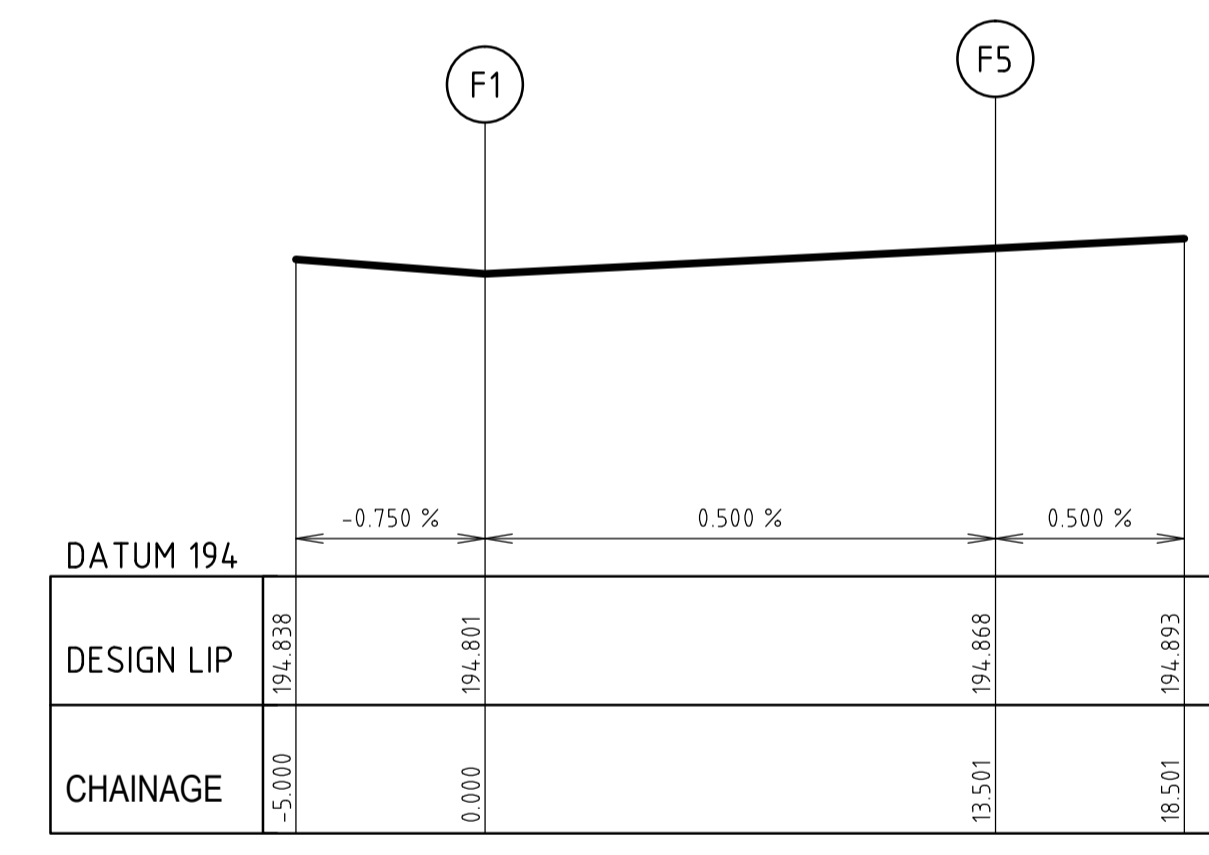
SETOUT TABLE LIP G

Point	Easting	Northing	RL
G1	322705.921	5836950.157	194.654
G2	322705.552	5836949.488	194.669
G3	322703.845	5836948.121	194.733
G4	322703.256	5836947.052	194.756
G5	322702.974	5836944.556	194.775
G6	322703.310	5836943.382	194.768
G7	322704.669	5836941.668	194.730
G8	322704.879	5836940.935	194.724



SETOUT TABLE LIP E

Point	Easting	Northing	RL
E1	322689.365	5836957.783	194.868
E2	322692.711	5836958.062	194.830
E3	322695.695	5836959.600	194.750
E4	322697.863	5836962.164	194.868
E5	322698.884	5836965.362	194.824



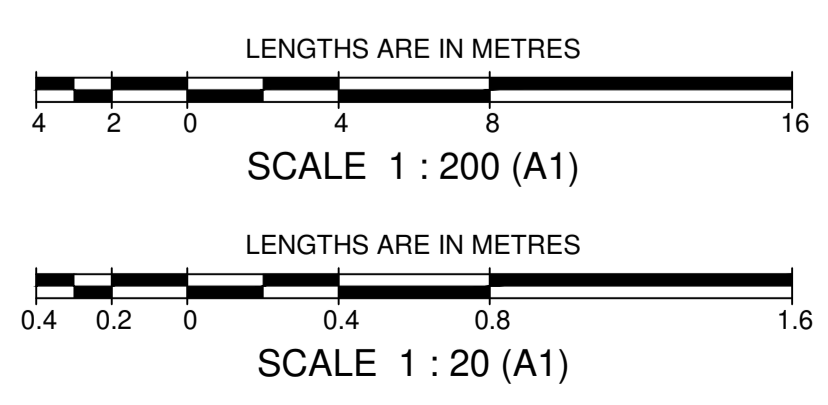
SETOUT TABLE LIP F

Point	Easting	Northing	RL
F1	322696.234	5836941.911	194.801
F2	322695.954	5836945.253	194.818
F3	322694.416	5836948.234	194.835
F4	322691.856	5836950.400	194.851
F5	322688.661	5836951.422	194.868

LIP PROFILES
SCALE: H 1:200, V 1:20

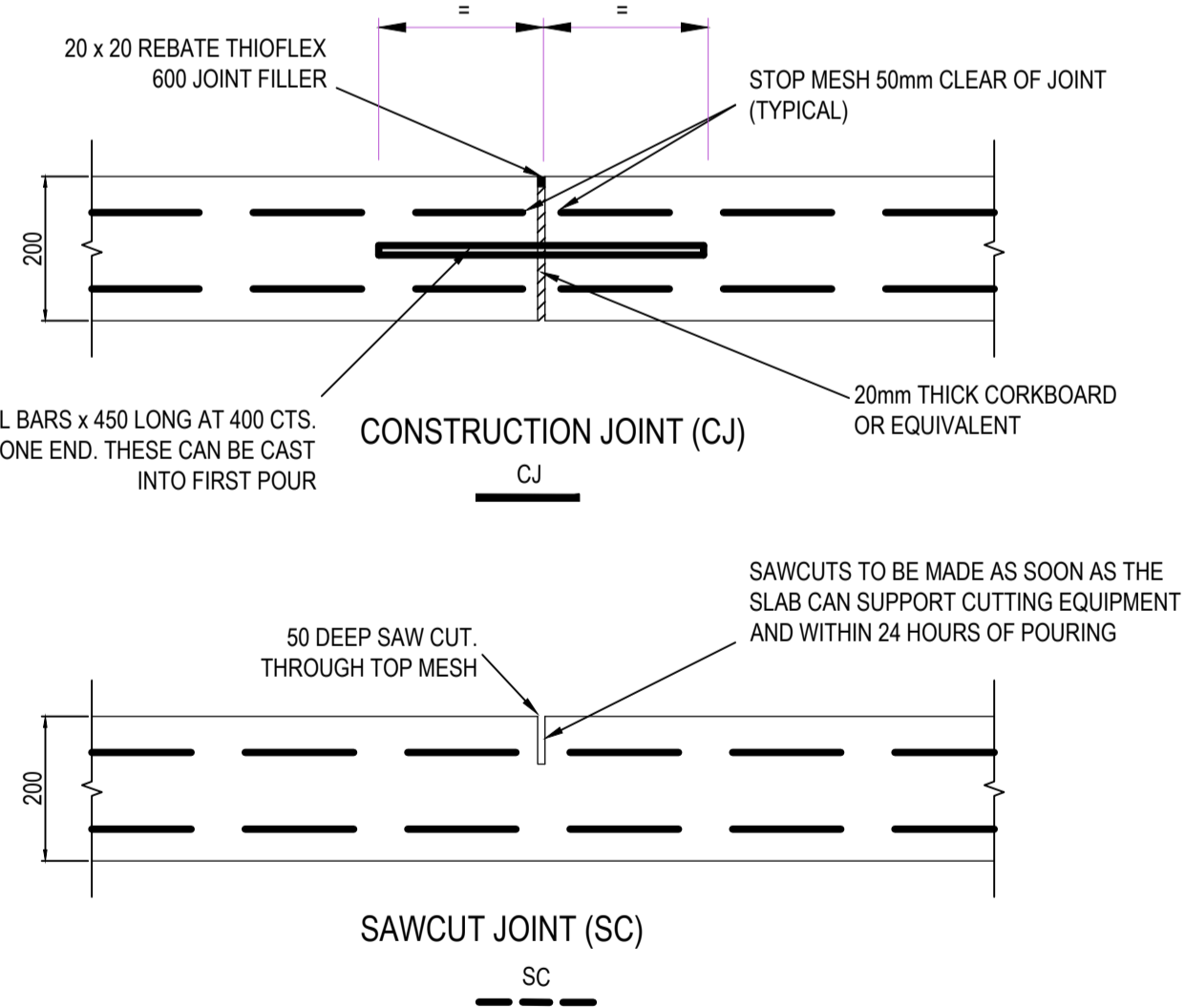
- NOTES:
- ALL KERB AND CHANNEL TO BE AS SPECIFIED.
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 - ALL SETOUT TO LIP OF KERB UNLESS OTHERWISE SHOWN.
 - KERB LEVELS ARE TO LIP OF KERB.
 - CONDUITS NOT SHOWN FOR CLARITY.

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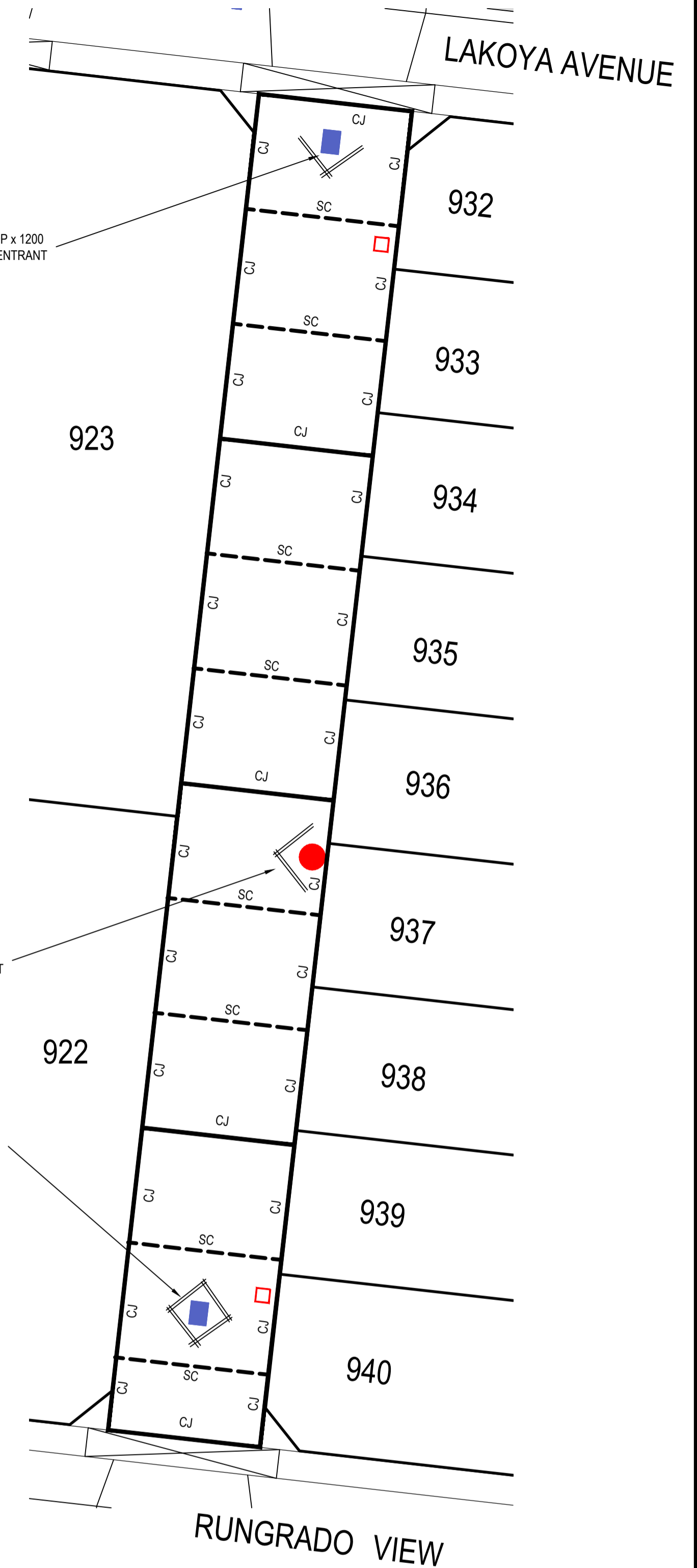
SYMBOL LEGEND

<ul style="list-style-type: none"> Drains Sewer < 3000 Sewer ≥ 3000 Water (DW) Water (NDW) House Drain Property Inlet Street Sign PSM Rock Ret Wall Sleeper Ret Wall Conduits 50mm Conduits 100mm Street Tree without/with Passive Irrigation (Refer Detail) Ex Drains Ex Water D/WNDW Ex Sewer/Gas Ex Elect/Comm 	<ul style="list-style-type: none"> Ex/Natural/FS Level FS @ Building Line Top/Toe of Batter Top Ret. Wall Level 100yr Flood Level Fill Proposed (<0.3m/≥0.3m) Cut Proposed Asphalt Surface Prop Concrete Surface Prop (Paths/Driveways/Slabs) Tree To Be Removed Tree To Be Retained with Tree Protection Zone (TPZ)
--	--



CONSTRUCTION JOINT DETAILS
NOT TO SCALE

AS CONSTRUCTED

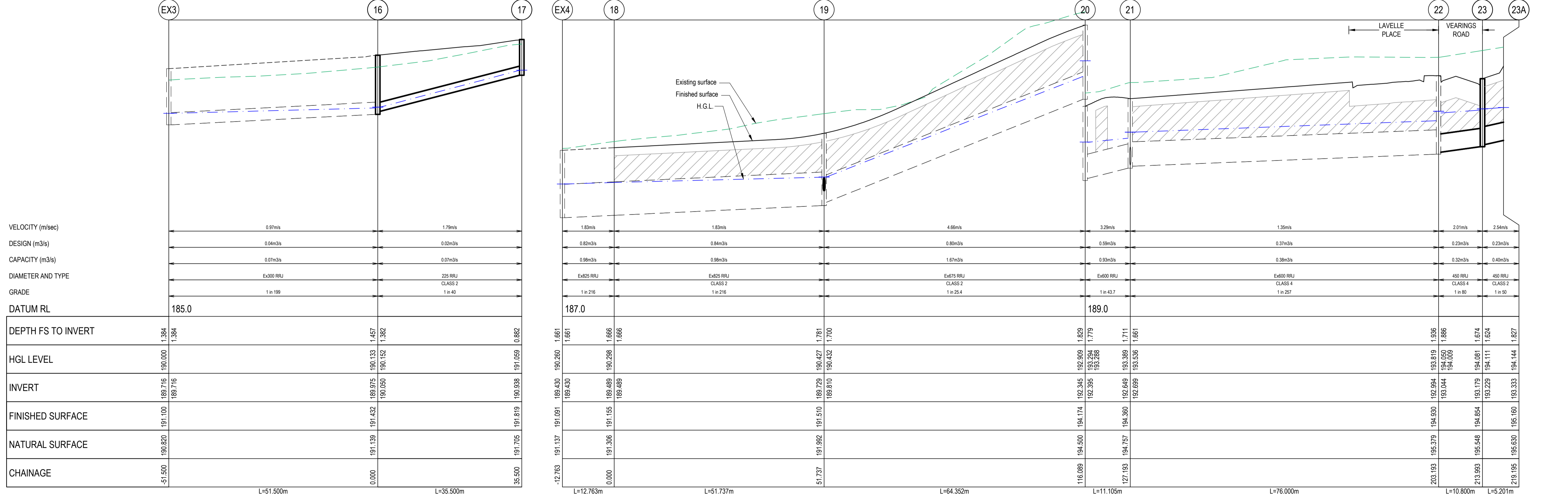
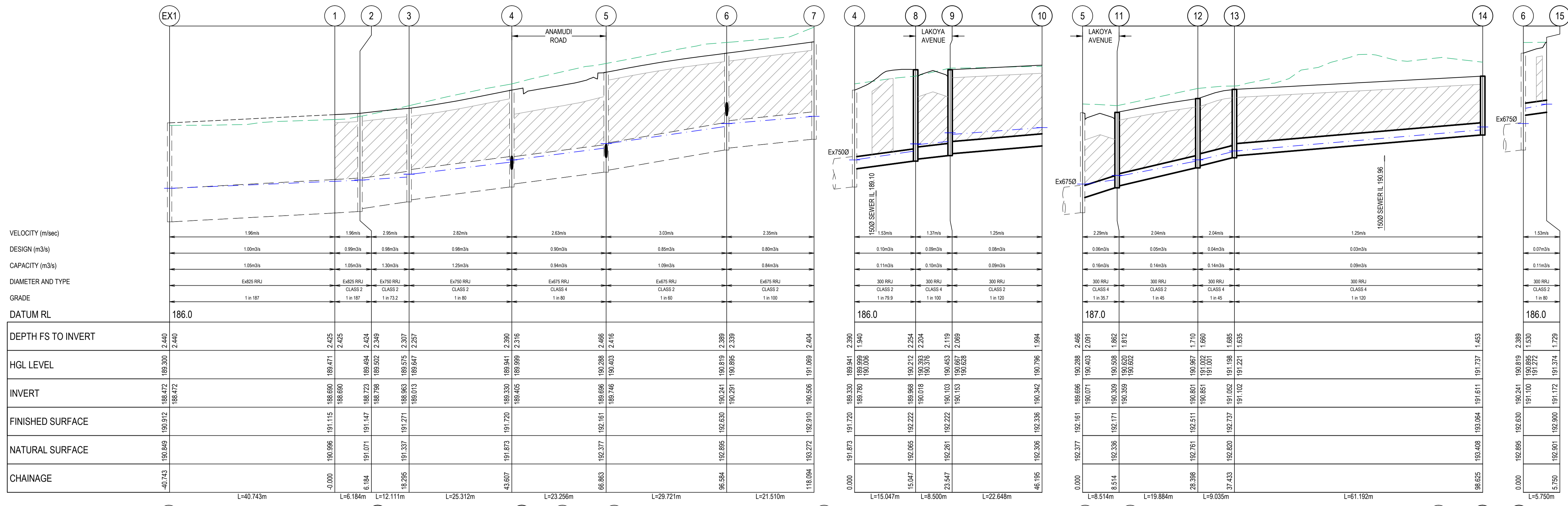


CONSTRUCTION JOINT DETAIL PLAN
SCALE 1:200 AT A1 SIZE

SC SAWCUT JOINT
CJ CONSTRUCTION JOINT

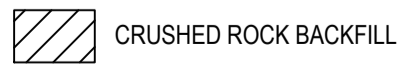
NOTE:
SAWCUTS TO BE MADE AS SOON AS THE CONCRETE CAN SUPPORT THE SAW CUTTING EQUIPMENT AND WITHIN 24 HOURS OF POURING CONCRETE. CONCRETE TO BE THOROUGHLY CURED FOR AT LEAST 7 DAYS.

		MUNICIPALITY WHITTLESEA	
MELWAY REF. 388 C-10		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
SURVEY BPD		REFERENCE 9365 E/9	
DESIGN M.A.		RATHDOWNE ESTATE STAGE 9 INTERSECTION DETAILS - SHEET 2 OF 2	
DRAWN M.A.		SCALE AS SHOWN	DATUM AHD
AMENDMENTS	CHECKED	DATE NOV '20	SHEET 9 OF 12
VER DATE	ISSUED FOR CONSTRUCTION	REMARKS	DATE NOV '20

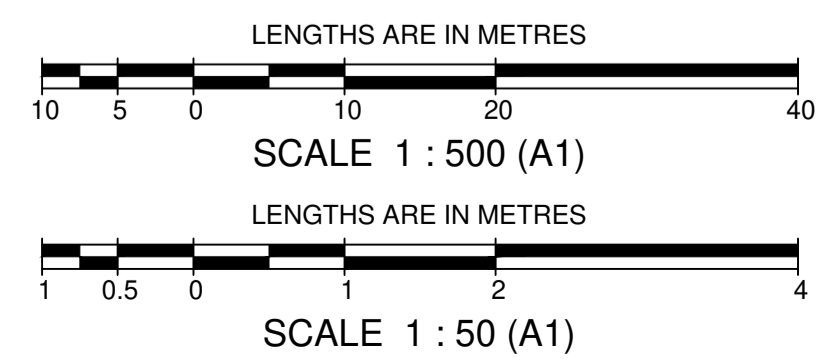


DRAINAGE LONGITUDINAL SECTIONS

SCALE: H 1:500, V 1:50

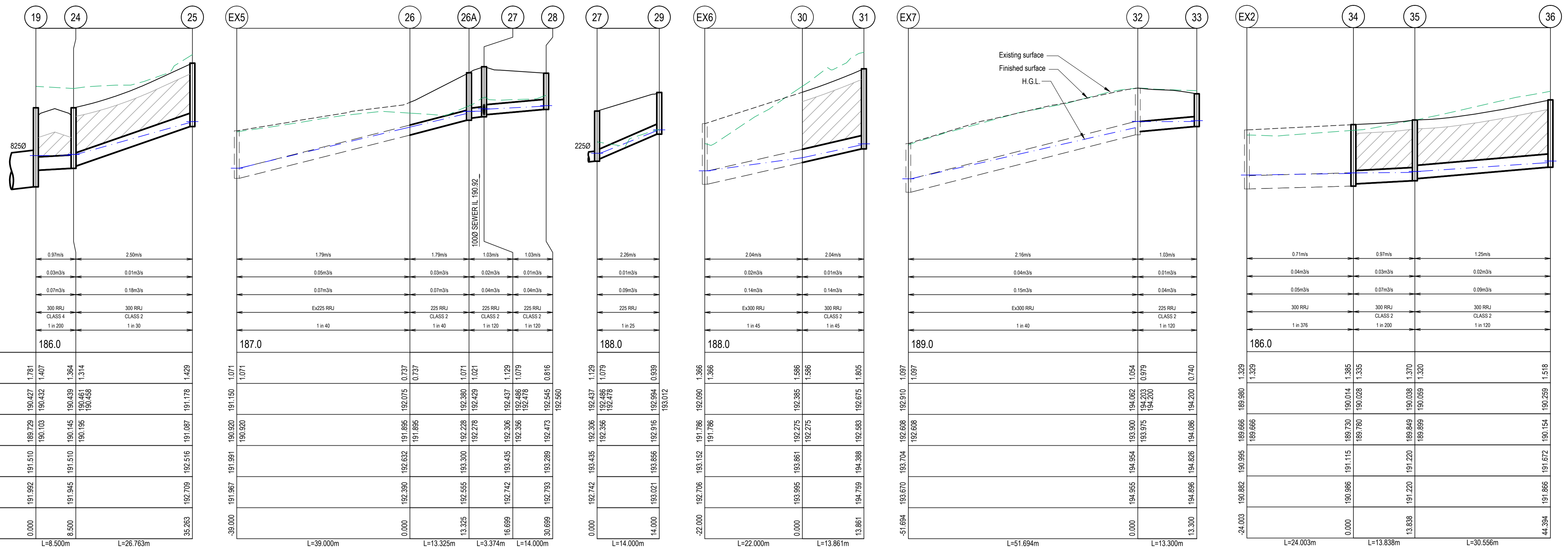


AS CONSTRUCTED



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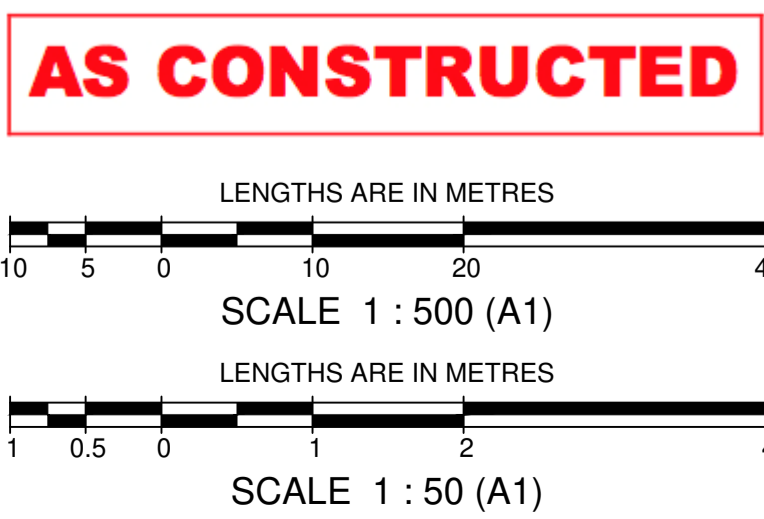
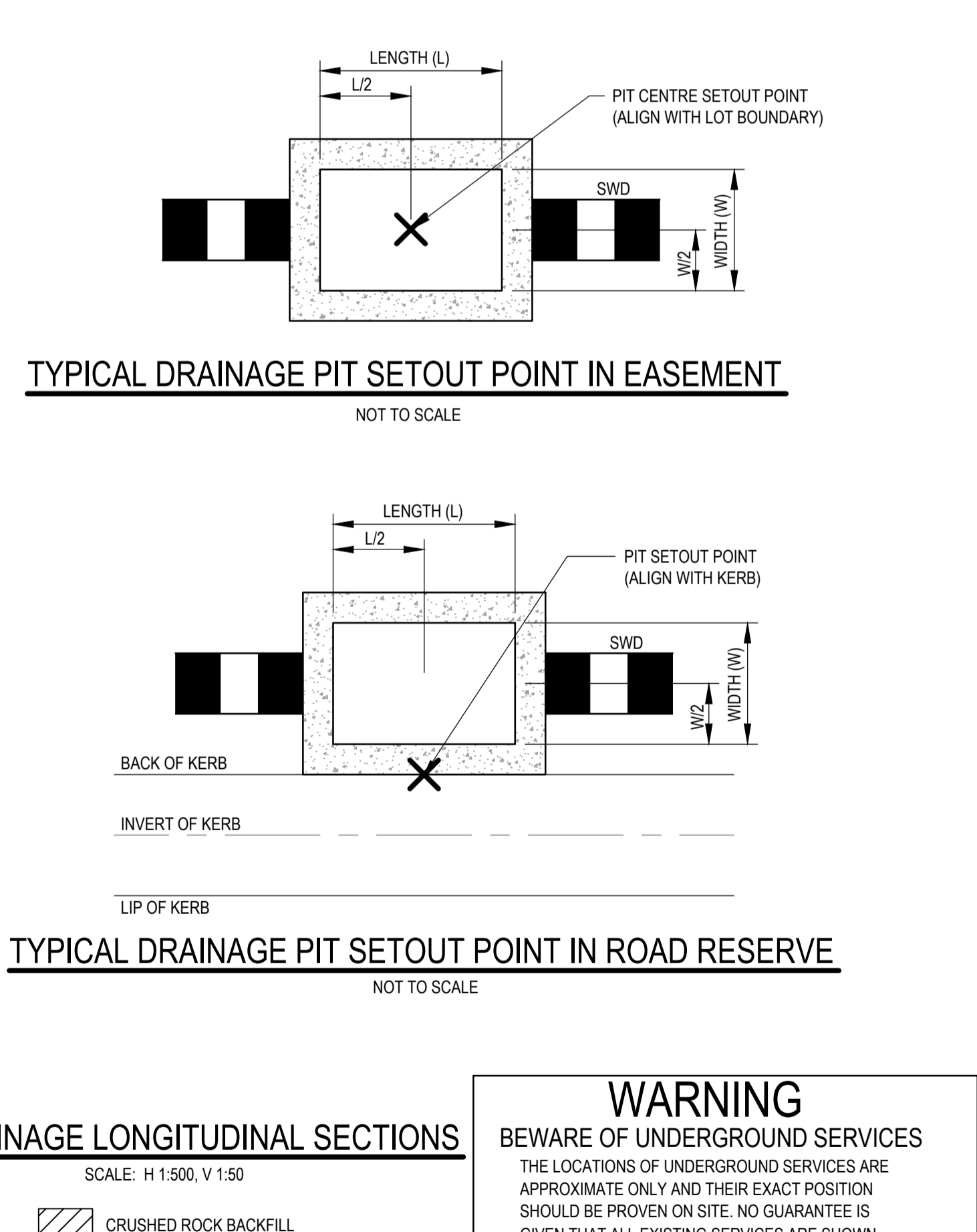
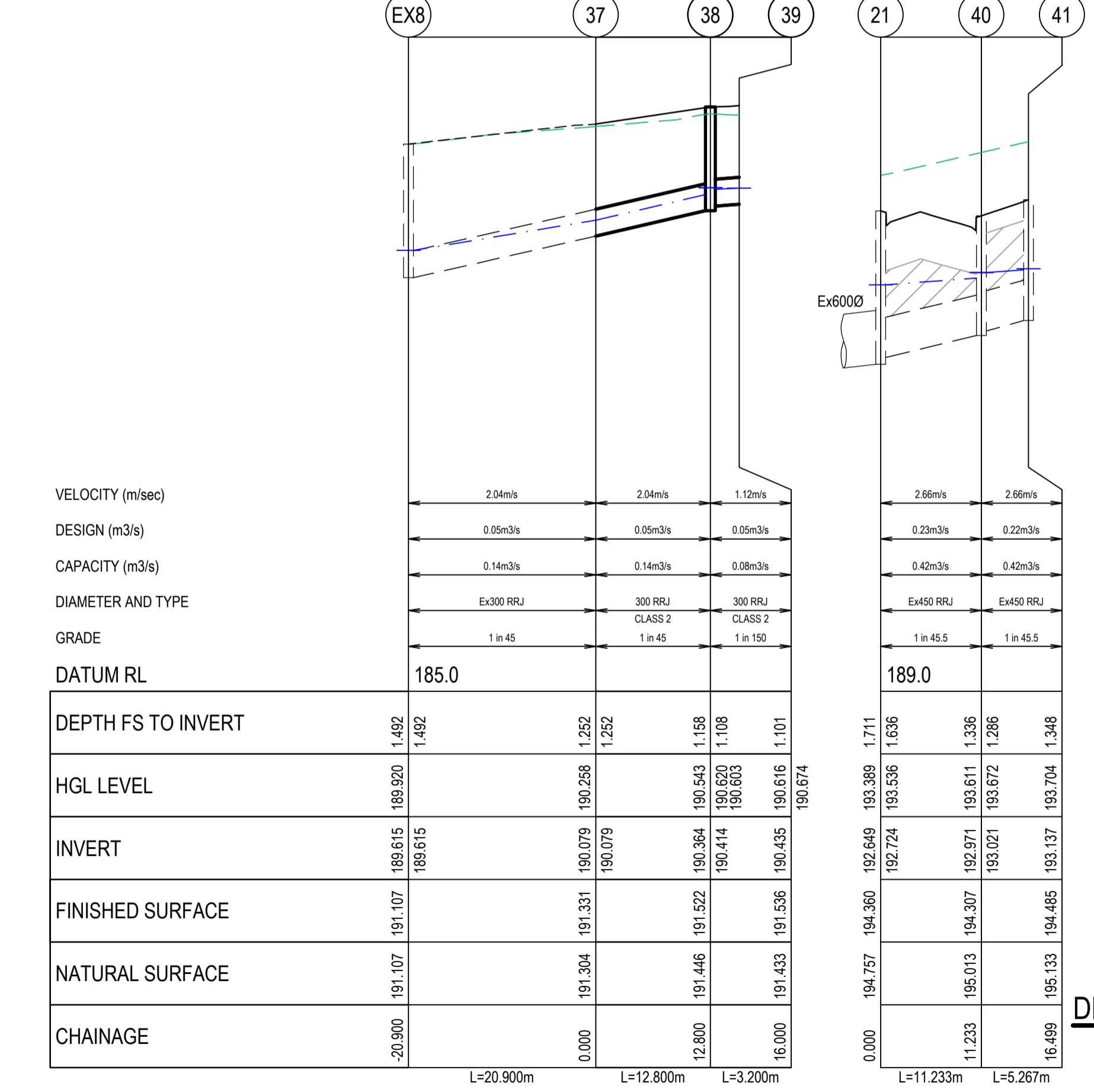
MELWAY REF. 388 C-10		brees pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
SURVEY BPD		RATHDOWNE ESTATE STAGE 9		MUNICIPALITY WHITTLESEA	
DESIGN M.A.		DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 2		REFERENCE 9365 E/9	
DRAWN M.A.		SCALE AS SHOWN	DATUM AHD	DATE NOV '20	SHEET 10 OF 12
AMENDMENTS	DATE	ISSUED FOR CONSTRUCTION	CHECKED	REMARKS	A



VELOCITY (m/sec)	0.97m/s	2.50m/s
DESIGN (m3/s)	0.03m3/s	0.01m3/s
CAPACITY (m3/s)	0.07m3/s	0.18m3/s
DIAMETER AND TYPE	300 RRJ CLASS 4	300 RRJ CLASS 2
GRADE	1 in 200	1 in 30
DATUM RL	186.0	
DEPTH FS TO INVERT	1.781	1.407
HGL LEVEL	190.427	190.432
INVERT	188.729	190.103
FINISHED SURFACE	191.510	191.510
NATURAL SURFACE	191.892	191.945
CHAINAGE	0.000	8.500

DRAINAGE PIT SCHEDULE

PIT No	PIT TYPE	INTERNAL		INLET		OUTLET		FINISHED COVER RL	DEPTH	REMARKS
		WD	LEN	DIA	INV LEV	DIA	INV LEV			
1	Existing End Pipe			Ex825	188.690	188.690	188.690	191.115	2.425	
2	Existing Junction Pit	1200	900	Ex750	188.798	Ex825	188.723	191.147	2.424	EDCM 601 (B2 Kerb), Haunched, Convert to Grated Side Entry Pit
3	Existing Junction Pit	1050	900	Ex750	189.013	Ex750	188.963	191.271	2.307	EDCM 607, Haunched
4	Existing Junction Pit	1050	900	Ex675	189.405	Ex750	189.330	191.720	2.390	EDCM 607, Haunched, Connect to existing 300 dia. Stub
5	Existing Junction Pit	900	900	Ex675	189.746	Ex675	189.696	192.161	2.466	EDCM 601 (B2 Kerb), Haunched, Convert to Grated Side Entry Pit
6	Existing Junction Pit	900	900	Ex675	190.291	Ex675	190.241	192.630	2.389	EDCM 607, Haunched, Connect to existing 300 dia. Stub
7	Existing Grated Side Entry Pit	900	900	Ex675	190.581	Ex675	190.506	192.910	2.404	
8	Grated Side Entry Pit	600	900	300	190.018	300	189.968	192.222	2.254	EDCM 601 (B2 Kerb)
9	Grated Side Entry Pit	600	900	300	190.153	300	190.103	192.222	2.119	EDCM 601 (B2 Kerb)
10	End Pipe					300	190.342	192.336	1.994	Cap End
11	Grated Side Entry Pit	600	900	300	190.359	300	190.309	192.171	1.862	EDCM 601 (B2 Kerb)
12	Junction Pit	600	900	300	190.851	300	190.801	192.511	1.710	EDCM 605
13	Grated Pit	600	900	300	191.102	300	191.052	192.737	1.685	EDCM 605, Provide Heavy Duty Gatic Grate
14	Junction Pit	600	900			300	191.611	193.064	1.453	EDCM 605
15	End Pipe					300	191.172	192.900	1.729	Cap End
16	Junction Pit	600	900	225	190.050	Ex300	189.975	191.432	1.457	EDCM 605, Construct Pit over Existing End Pipe
17	Junction Pit	600	900			225	190.938	191.819	0.882	EDCM 605
18	Existing End Pipe			Ex825	189.489	Ex825	189.489	191.155	1.666	
19	Existing Junction Pit	1200	900	Ex675	189.810	Ex825	189.729	191.510	1.781	EDCM 601 (B2 Kerb), Haunched, Convert to Grated Side Entry Pit, Connect to existing 300 dia. Stub
20	Existing Grated Side Entry Pit	900	900	Ex600	192.395	Ex675	192.345	194.174	1.829	
21	Existing Grated Pit	900	900	Ex600	192.699	Ex600	192.649	194.360	1.711	EDCM 601 (B2 Kerb), Haunched, Convert to Grated Side Entry Pit
22	Existing Junction Pit	900	900	Ex450	193.044	Ex600	192.994	194.930	1.936	EDCM 601 (B2 Kerb), Haunched, Convert to Grated Side Entry Pit, Connect to existing 450 dia. Stub
23	Grated Side Entry Pit	600	900	450	193.229	450	193.179	194.854	1.674	EDCM 601 (B2 Kerb)
23A	End Pipe					450	193.333	195.160	1.827	Cap End
24	Grated Side Entry Pit	600	900	300	190.195	300	190.145	191.510	1.364	EDCM 601 (B2 Kerb)
25	Junction Pit	600	900			300	191.087	192.516	1.429	EDCM 605
26	Existing End Pipe			225	191.895	Ex225	191.895	192.632	0.737	Connect to Existing End Pipe
26A	Junction Pit	600	900	225	192.278	225	192.228	193.300	1.071	EDCM 605
27	Junction Pit	600	900	225	192.356	225	192.306	193.435	1.129	EDCM 605
28	Junction Pit	600	900			225	192.473	193.289	0.816	EDCM 605
29	Junction Pit	600	900			225	192.916	193.856	0.939	EDCM 605
30	Existing End Pipe			300	192.275	Ex300	192.275	193.861	1.586	Connect to Existing End Pipe
31	Junction Pit	600	900			300	192.583	194.388	1.805	EDCM 605
32	Existing Junction Pit	600	900	225	193.975	Ex300	193.900	194.954	1.054	Connect to existing Pit
33	Junction Pit	600	900			225	194.086	194.826	0.740	EDCM 605
34	Junction Pit	600	900	300	189.780	Ex300	189.730	191.115	1.385	EDCM 605, Construct Pit over Existing End Pipe
35	Junction Pit	600	900	300	189.899	300	189.849	191.220	1.370	EDCM 605
36	Junction Pit	600	900			300	190.154	191.672	1.518	EDCM 605
37	Existing End Pipe			300	190.079	Ex300	190.079	191.331	1.252	Connect to Existing End Pipe
38	Junction Pit	600	900	300	190.414	300	190.364	191.522	1.158	EDCM 605
39	End Pipe					300	190.435	191.536	1.101	Cap End
40	Existing Grated Pit	600	900	Ex450	193.021	Ex450	192.971	194.307	1.336	EDCM 601 (B2 Kerb), Convert to Grated Side Entry Pit
41	Existing Grated Pit	600	900			Ex450	193.137	194.622	1.486	



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.

breese pitt dixon pty. ltd.
land surveyors civil engineers

MELWAY REF. 388 C-10
SURVEY BPD
DESIGN M.A.
DRAWN M.A.

RATHDOWNE ESTATE
STAGE 9
DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 2 & PIT SCHEDULE

MUNICIPALITY WHITTLESEA
REFERENCE 9365 E/9

1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

SCALE AS SHOWN DATUM AHD DATE NOV '20 SHEET 11 OF 12

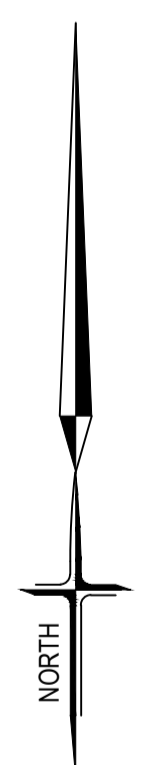
AMENDMENTS	DATE	ISSUED FOR CONSTRUCTION	REMARKS	CHECKED
A	07-07-21	ISSUED FOR CONSTRUCTION		



LEGEND

- S1 ● STREET NAME PLATES TO BE COUNCIL APPROVED, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- S2 R1-2A
- S3 G9-20
D4-5
- S4 R8-2 SHARED FOOTWAY/BICYCLE PATH SIGN (R8-2A) - CLASS 1
- S5 R8-2 SHARED FOOTWAY/BICYCLE PATH SIGN (R8-2A) WITH END SIGN (R7-4A) - CLASS 1
- TGSi KERB RAMP TGSi's MUST BE PROVIDED IN ACCORDANCE WITH COUNCIL STD DRG SD 320
- TGSi DIRECTIONAL
- 1-WAY RRPM
- 2-WAY RRPM RRPM COLOURS SHALL BE IN ACCORDANCE WITH AS1742.2

WARNING
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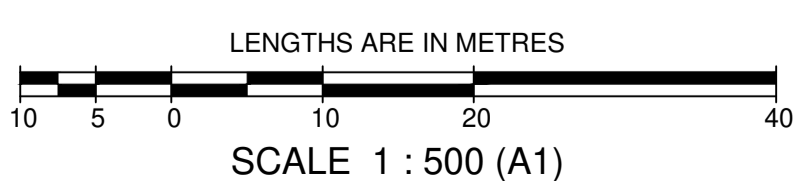
SIGNAGE & LINEMARKING PLAN

SCALE 1:500

AS CONSTRUCTED

SYMBOL LEGEND

Drains < 3000		Prop	Prev Stage	Ex/Natural/FS Level	+25.57	+1628.57	+1528.57
Sewer > 3000		S		FS @ Building Line	+8.28.57		
Water (DW)		W		Top/Toe of Batter	+TOP28.57	+TOP28.57	
Water (NDW)		W		Top Ret. Wall Level	+TW28.57		
House Drain		H		100yr Flood Level	+FL28.57		
Property Inlet		P		Fill Proposed (<0.3m)±0.3m			
Street Sign		S		Cut Proposed			
PSM		P		Asphalt Surface Prop			
Rock Ret Wall		R		Concrete Surface Prop (Paths/Driveways/Slabs)			
Sleeper Ret Wall		S		Tree To Be Removed			
Conduits 50mm		GW		Tree To Be Retained with Tree Protection Zone (TPZ)			
Conduits 100mm		W100					
Street Tree without/with Passive Irrigation (Refer Detail)		T					
Ex Drains		Ex W					
Ex Water/DW/NDW		Ex S					
Ex Sewer/Gas		Ex H					
Ex Elect/Comm		Ex P					



AMENDMENTS			 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			RATHDOWNE ESTATE STAGE 9 SIGNAGE & LINEMARKING PLAN	MUNICIPALITY WHITTLESEA	
		SURVEY BPD				REFERENCE 9365 E/9	
		DESIGN M.A.			DRAWN M.A.	SCALE AS SHOWN	DATUM AHD

19/11/2017 10:53 AM
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