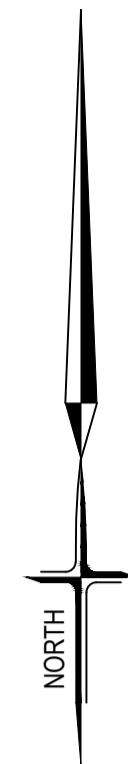


LOCALITY PLAN
SCALE 1:10,000



SHEET INDEX		
SHEET #	REVISION	DESCRIPTION
1	P1	OVERALL PLAN
2	P1	DETAIL PLAN
3	P1	NOTES, PAVEMENT DETAILS & TYPICAL SECTIONS
4	P1	INTERSECTION DETAILS
5	P1	GOLDRIDGE DRIVE LONGITUDINAL SECTION
6	P1	GOLDRIDGE DRIVE CROSS SECTIONS
7	P1	MORKALLA ROAD LONGITUDINAL SECTION
8	P1	MORKALLA ROAD CROSS SECTIONS
9	P1	RIVERBED DRIVE LONGITUDINAL SECTION
10	P1	RIVERBED DRIVE CROSS SECTIONS
11	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
12	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
13	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3
14	P1	DRAINAGE PIT SCHEDULE
15	P1	SIGNAGE & LINEMARKING PLAN

PLAN
SCALE A1 - 1 : 1000
LENGTHS ARE IN METRES
SCALE 1 : 1000 (A1)

SERVICES OFFSETS AND LOCATIONS

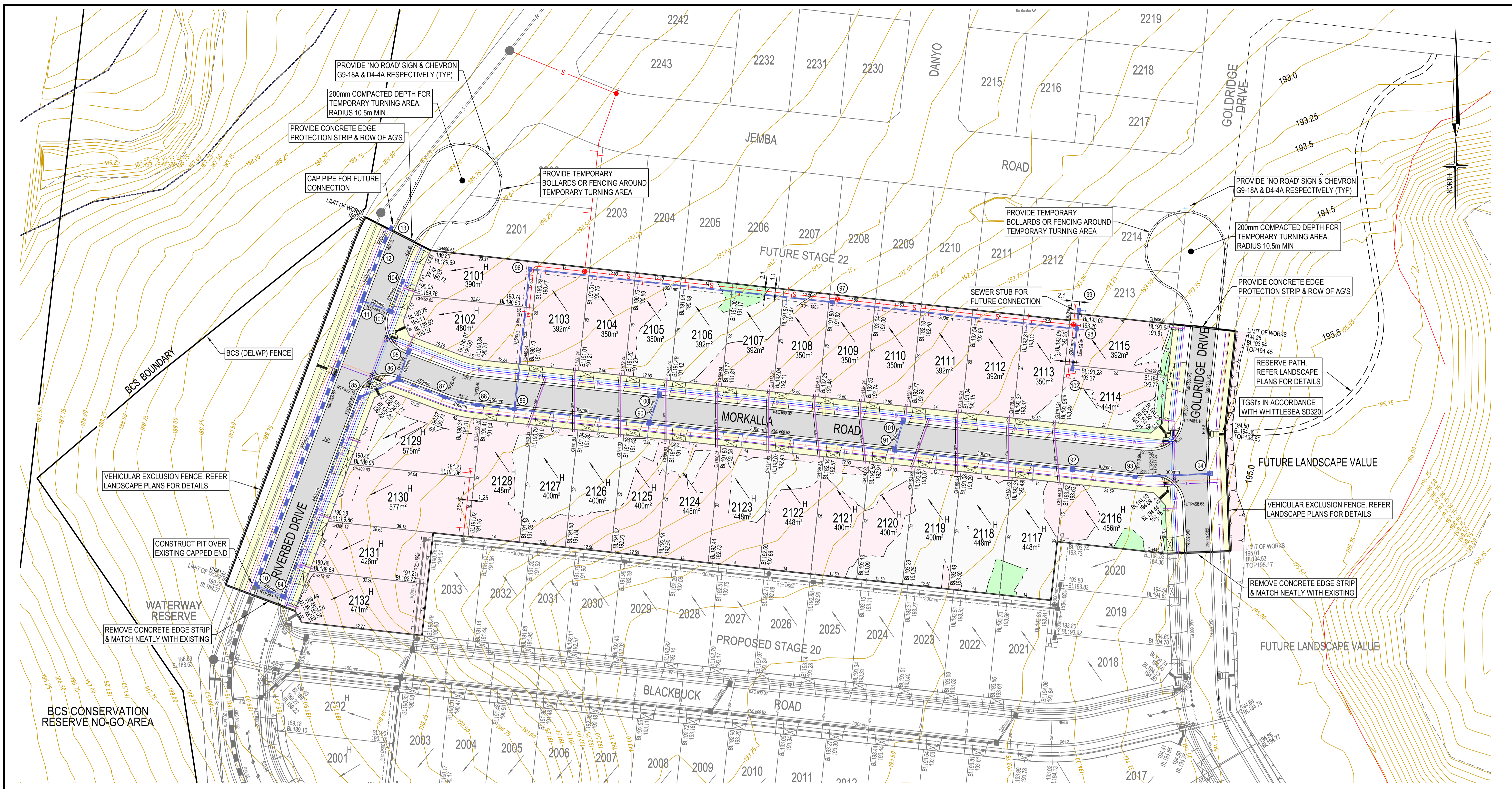
Location	Gas	Water		Communications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
RIVERBED DRIVE	2.10 E	2.60 E	3.10 E	5.80 W	1.80 E	6.60 W	1.00 BOK	4.35 E 8.05 W	20.00	G&W, FTTH&E	STREET LEVEL 1
GOLDRIDGE DRIVE	2.10 W	2.60 W	3.10 W	1.80 E	1.70 W	2.60 E	1.00 BOK	4.70 E 4.70 W	17.00	G&W, FTTH&E	STREET LEVEL 1
MORKALLA ROAD	2.10 N	3.10 N	2.60 N	1.80 S	1.70 N	2.60 S	1.00 BOK	4.20 N 4.20 S	16.00	G&W, FTTH&E	STREET 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 Communication pits placed within concrete footpath.

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.

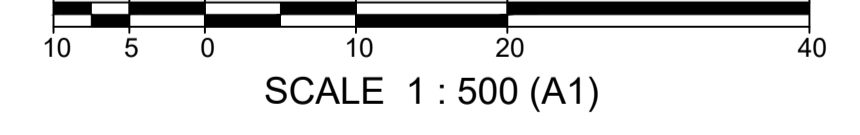
 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. -	MUNICIPALITY WHITTLESEA
		SURVEY B.P.D.	REFERENCE 9365 E/21
		DESIGN B.P.D.	
RATHDOWNE ESTATE STAGE 21 OVERALL PLAN		CHECKED R.GOULD-WILLIAMS SCALE AS SHOWN DATUM AHD DATE Dec 23 SHEET 1 OF 15 P1	
AMENDMENTS	DATE	REMARKS	



PLAN

SCALE A1 - 1 : 500

LENGTHS ARE IN METRES



SCALE 1 : 500 (A1)

SYMBOL LEGEND	
Drains	Prop
Sewer < 3000	S
Sewer ≥ 3000	S
Water (DW)	W
Water (NDW)	W
House Drain	H
Property Inlet	I
Street Sign	Sign
FSM	FSM
Rock Ret Wall	RRW
Sleeper Ret Wall	SRW
Conduits 50mm	C50
Conduits 100mm	C100
Street Tree without/with Passive Irrigation (Refer Detail)	Tree
Ex Drains	Ex W
Ex Water DW/NDW	Ex W
Ex Sewer/Gas	Ex S
Ex Elect/Comm	Ex E
Ex Natural/FS Level	+28.57
FS @ Building Line	BL28.57
Top/Toe of Batter	+TOP28.57
Top Ret. Wall Level	+TW28.57
100yr Flood Level	+FL28.57
Fill Proposed (<0.3m)±0.3m	Fill
Cut Proposed	Cut
Asphalt Surface Prop	Asphalt
Concrete Surface Prop (Paths/Driveways/Slabs)	Concrete
Tree To Be Removed	Tree
Tree To Be Retained with Tree Protection Zone (TPZ)	Tree

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION 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.

AMENDMENTS		brees 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		MUNICIPALITY	
SURVEY	B.P.D.	STAGE 21		WHITTLESEA	
DESIGN	B.P.D.	DETAIL PLAN		REFERENCE	
DRAWN	M.T.			9365 E/21	
CHECKED	R.G.W.	SCALE	AS SHOWN	DATUM	AHD
DATE		DATE	Dec 23	SHEET	2 OF 15
REMARKS					P1

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.
- COUNCIL TO BE NOTIFIED 2 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. REFER EDM01-608 FOR FURTHER DETAILS.
- ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE RRJ UP TO AND INCLUDING 75mm DIAMETER. PIPES ABOVE THIS SIZE MUST BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE CLASS 4 R.C.P.
- JOINING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (RRJS 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 5.5m 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.
- 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 TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER (REFER TO STD DRG EDM202).
- ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL SHALL BE BACKFILLED WITH CRUSHED ROCK
- BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN. BATTERS EXCEEDING 1 IN 6 MUST BE STABILISED AS PER COUNCIL REQUIREMENTS.
- 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 CONDUITS FOR RESIDENTIAL LOTS TO BE PVC CLASS 12, 50mm DIAMETER & 100mm DIAMETER RESPECTIVELY.
- TELSTRA/NBN 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 SD025, 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 ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDM501 & 502 AND ARE TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.
- ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 6.
- ALL PEDESTRIAN CROSSINGS ARE TO BE CONSTRUCTED GENERALLY IN ACCORDANCE WITH EDM403. ALL PRAM CROSSING SPLAYS MUST BE 600mm WIDE AND NO GREATER.
- 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 AS1289.5.2.1-2003. CONTROL TESTING TO COMPLY WITH AS3798-2007 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 UNDERTAKEN AS PER COUNCIL'S CONSTRUCTION SPECIFICATION FOR ROAD & DRAINAGE WORKS 20.6 (TYPE A MATERIAL AS PER VICROADS STANDARD SPECIFICATION 204) AND COMPACTED TO 98% AASHO IN 150mm LAYERS.
- PAVEMENT DEPTH MAY NOT BE ALTERED WITHOUT WRITTEN APPROVAL FROM CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF WORKS. ADDITIONAL COSTS WILL NOT BE CONSIDERED POST TENDER.
- 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 TBMS TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBMS 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 ENVIRONMENT 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. THE SMP SHALL BE APPROVED BY CITY OF WHITTLESEA DEVELOPMENT ENGINEERING UNIT PRIOR TO THE COMMENCEMENT OF 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.
- PRIOR TO COMMENCEMENT OF WORKS TREE PROTECTION ZONES (TPZ) ARE TO BE INSTALLED AS SPECIFIED IN THE ANNOTATED DETAILS FORMING PART OF THE PLANNING PERMIT TO TREES NOTED "TO BE RETAINED". THIS INCLUDES THE FOLLOWING:
 - RING LOCK WIRE MESH MINIMUM 1.20m HIGH (STD DRG SDL2.02)
 - MAIN POSTS 100mm TREATED PINE (TP), MINIMUM 1.80m HIGH
 - INTERMEDIATE POSTS STEEL STAR PICKETS (SP), MINIMUM 1.80m HIGH
 - THE CORNER POSTS ARE TO BE TP WITH TP STAYS
 - EVERY THIRD POST TO BE TP
 - SP TO BE PLACED INTERMEDIATELY BETWEEN THE TP AT MAX 3.0m INTERVALS
 - THE RING LOCK MESH TO ENCIRCLE THE STRUCTURE AND BE FIRMLY SECURED AT EACH POST
 - POSTS MUST BE SUNK INTO THE GROUND BY 450mm (THERE IS TO BE NO CONCRETE TO SECURE POSTS AS THIS WILL AFFECT pH LEVELS)
 - HIGH VISIBILITY HAZARD MARKER TAPE SECURELY FIXED TO TOP OF WIRE MESH FENCE WITH WIRE TIES
 - THE TREE PROTECTION ZONE IS TO BE CLEARLY SIGN POSTED IN ACCORDANCE WITH CONDITION 20 OF THE PLANNING PERMIT (STD DRG SDL2.03)

NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY TREE UNTIL APPROVAL IS GIVEN BY THE ENGINEER.

- PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. FENCING TO BE ERECTED BY THE DEVELOPER (OR OWNER) AT NO COST TO COUNCIL. PALINGS TO BE ON THE RESERVE SIDE AND CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SDL.3.09 & SDL.3.10.

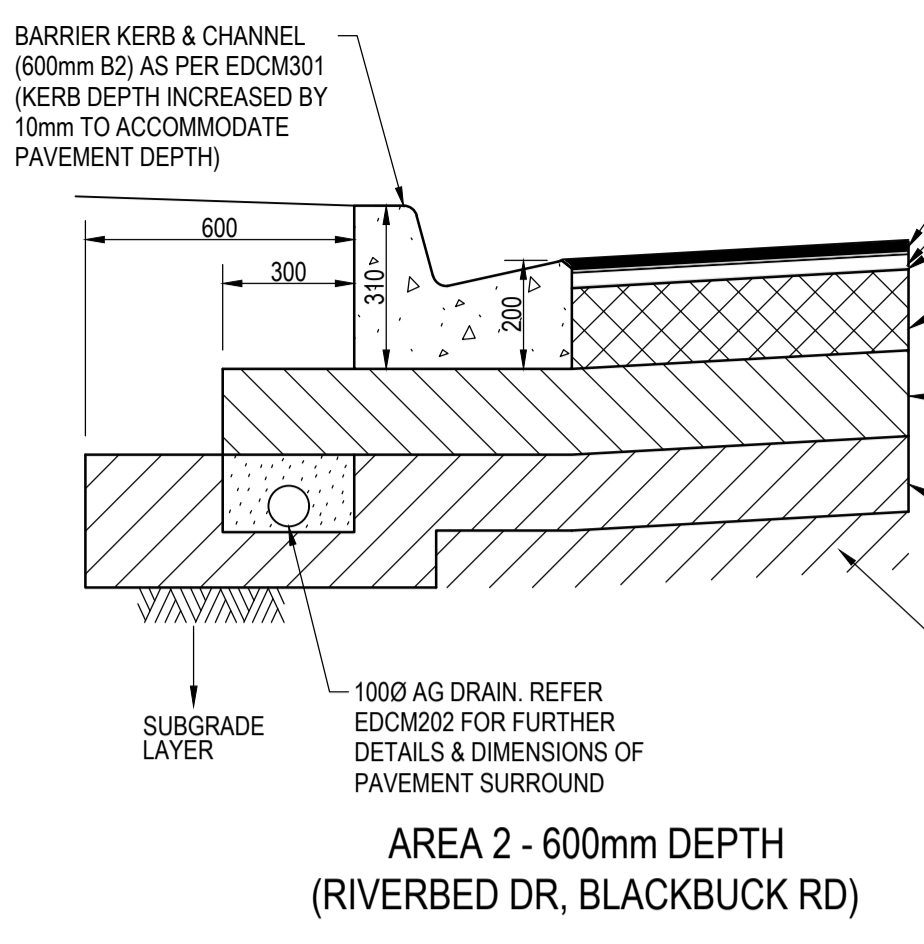
- VEHICULAR EXCLUSION FENCING TO BE PROVIDED ALONG THE ROAD FRONTAGES OF ALL RESERVES. REFER LANDSCAPE PLANS FOR FENCE DETAILS. FENCING TO BE CONSTRUCTED AS PART OF LANDSCAPE WORKS.
- PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD. DWG. 7251/8/203) ALONG EDGE OF OUTFALL DRAINS. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.

- 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.

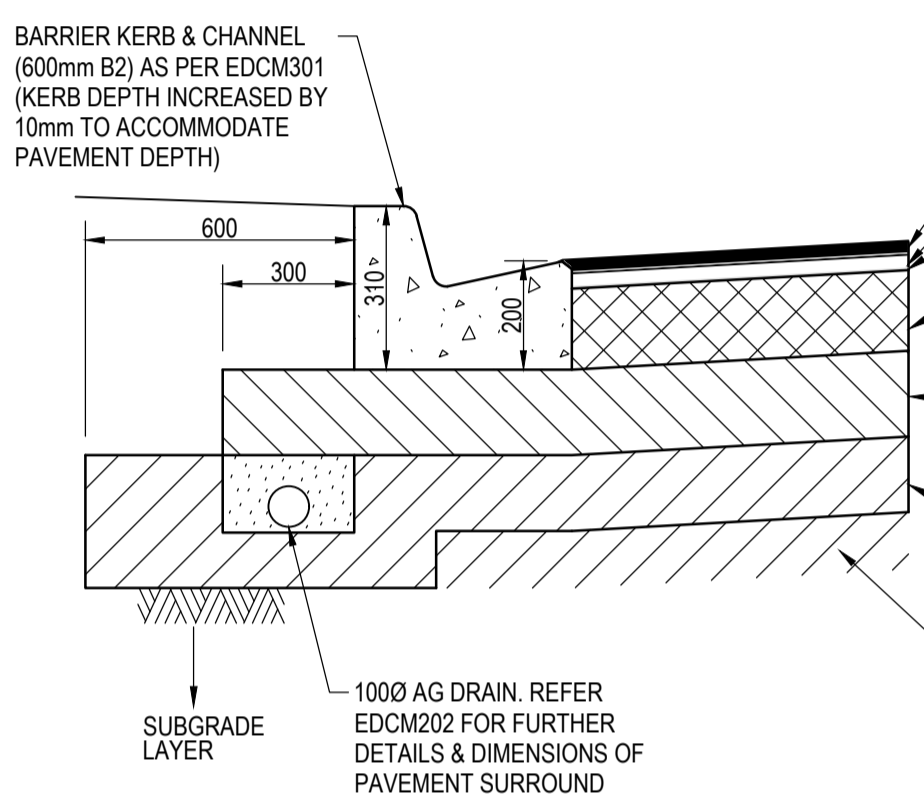
- TACTILE GROUND SURFACE INDICATORS (TGSIs) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH COUNCIL STD DRG SD320 AND AS1428.

- A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURAL/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. A COPY OF BUILDING PERMITS AND CERTIFICATE OF COMPLIANCE - CONSTRUCTION TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF COMPLIANCE.

- ALL STRUCTURAL WORKS MUST BE SUPERVISED BY A QUALIFIED STRUCTURAL ENGINEER.



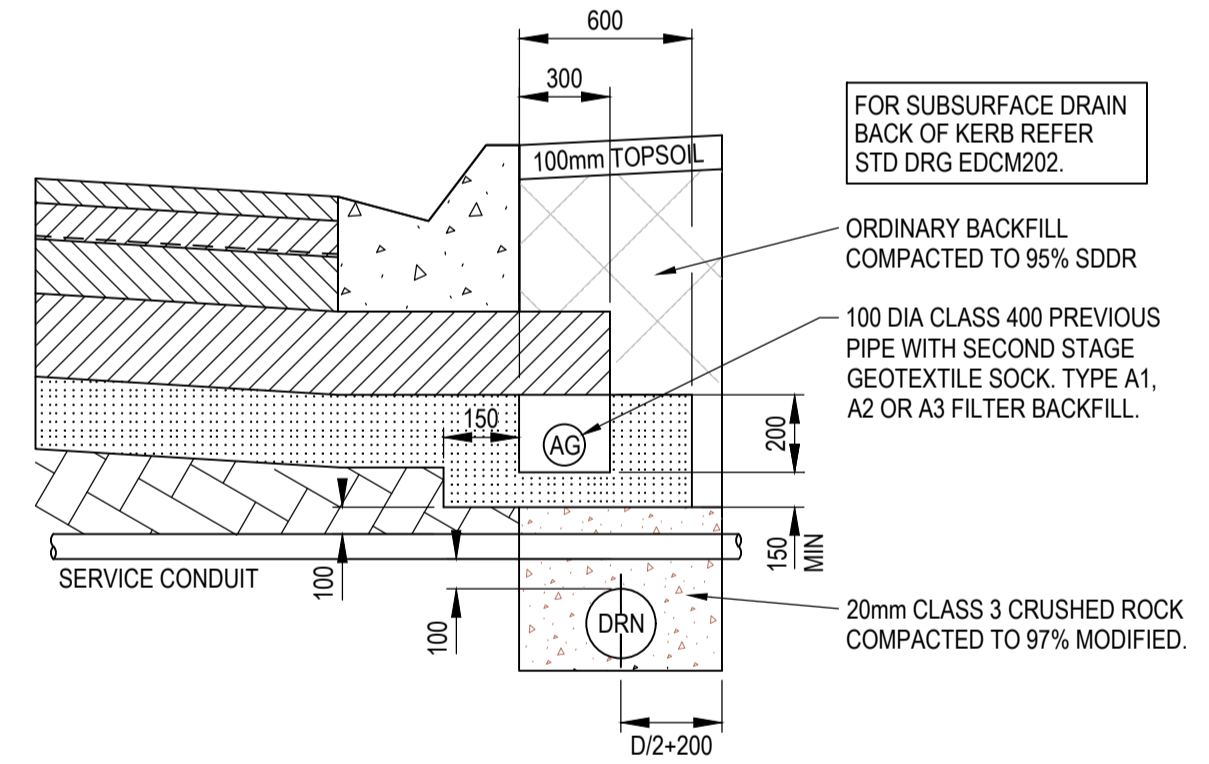
AREA 2 - 600mm DEPTH (RIVERBED DR, BLACKBUCK RD)



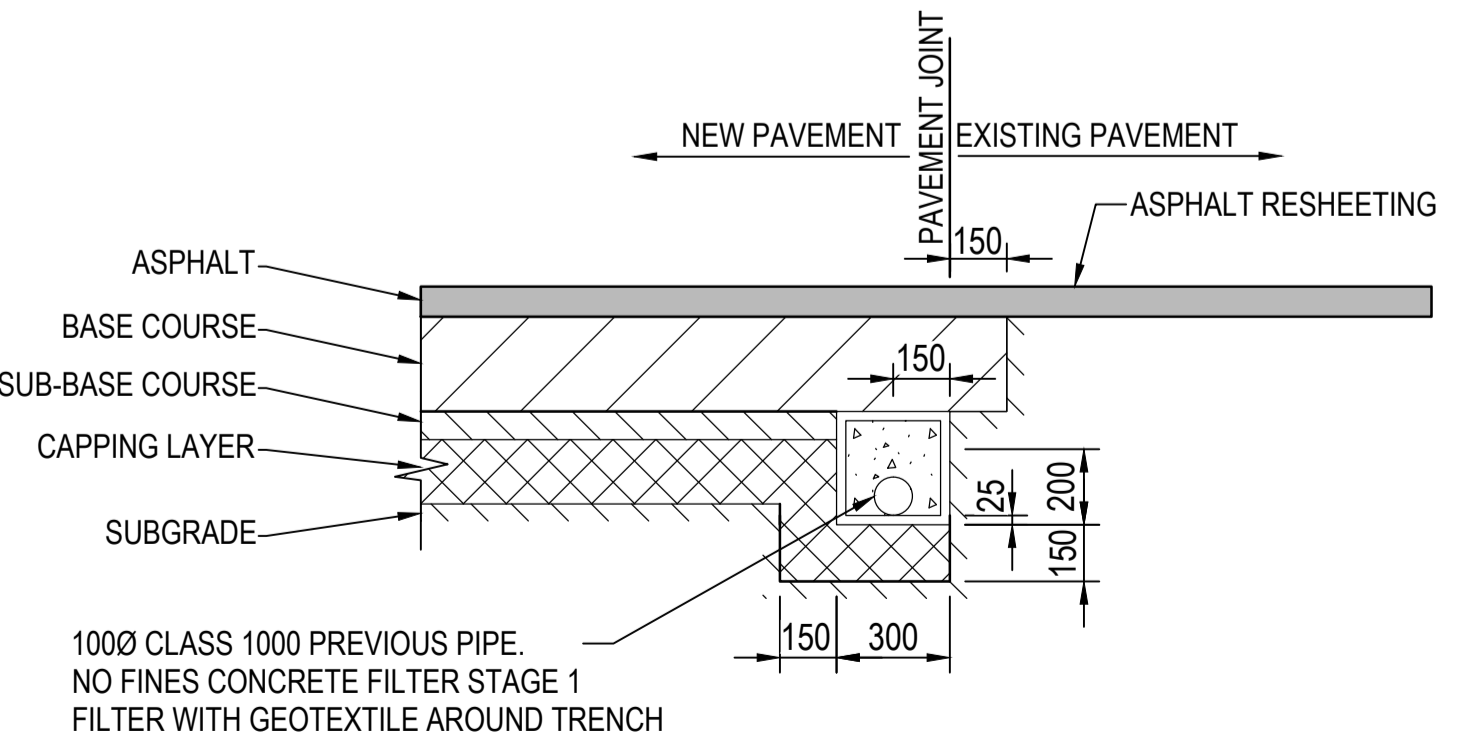
AREA 3 - 610mm DEPTH (GOLDRIDGE DR)

PAVEMENT COMPOSITION

SCALE A1 - N.T.S
REFER TO MIRCSD 027 FOR FURTHER AG, SERVICE CONDUIT AND TRENCH BACKFILL DETAILS

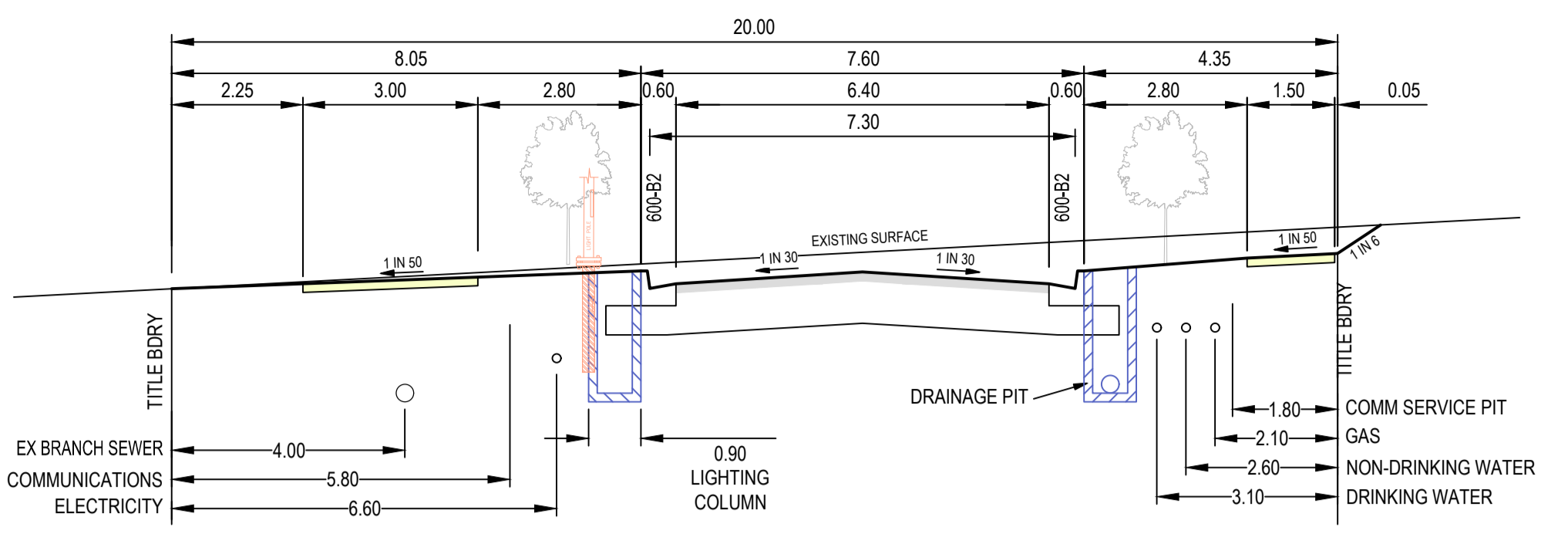


SUBSURFACE DRAIN
NTS



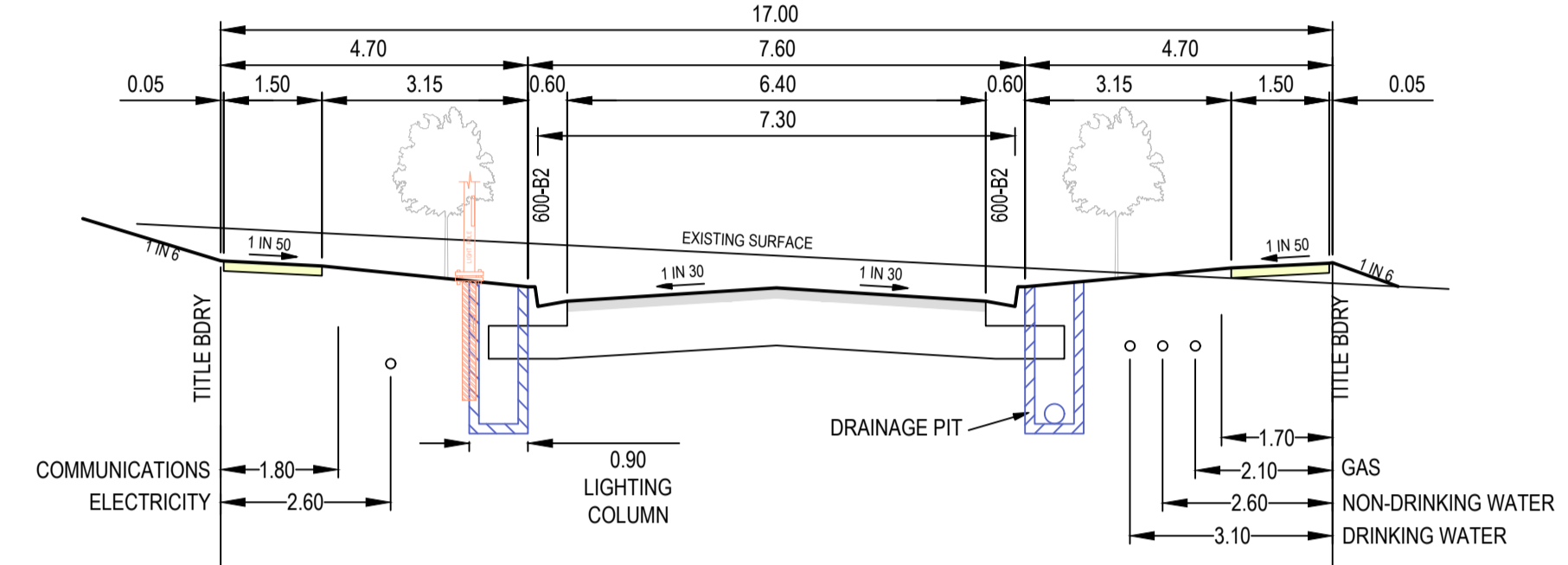
INTERFACE OF EXISTING AND PROPOSED PAVEMENT
(DIMENSIONS IN MILLIMETERS)

- WEARING COURSE: 20mm COMPACTED DEPTH 7mm TYPE L ASPHALT WITH A C320 BINDER
- STRUCTURAL COURSE: 30mm COMPACTED DEPTH 10mm TYPE N ASPHALT WITH A C320 BINDER
- WATERPROOFING COURSE: 10mm SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINOUS PRIME
- BASE COURSE (STANDARD QUALITY): 140mm COMPACTED DEPTH 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 WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- SUB-BASE COURSE (STANDARD QUALITY): 130mm COMPACTED DEPTH 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 WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- CAPPING LAYER: 150mm 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%.
- CONSTRUCTION LAYER: 150mm 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.
- SUBGRADE LAYER: SILTY CLAY COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR-3.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT.



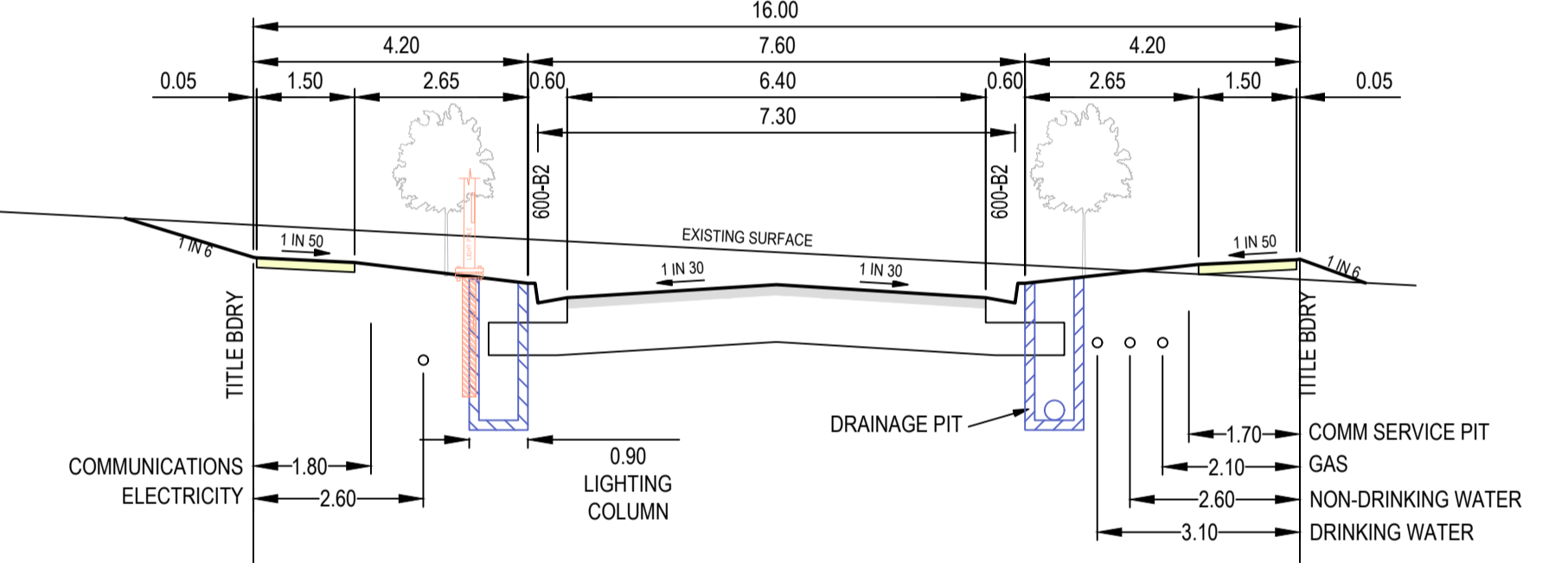
RIVERBED DRIVE

20.0m ROAD RESERVE
ACCESS STREET TYPE 1



GOLDRIDGE DRIVE

17.0m ROAD RESERVE
ACCESS STREET TYPE 1

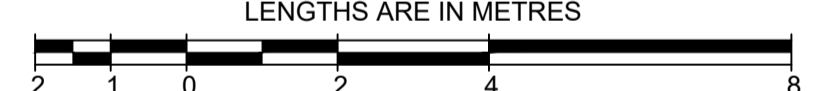


MORKALLA ROAD

16.0m ROAD RESERVE
ACCESS STREET TYPE 1

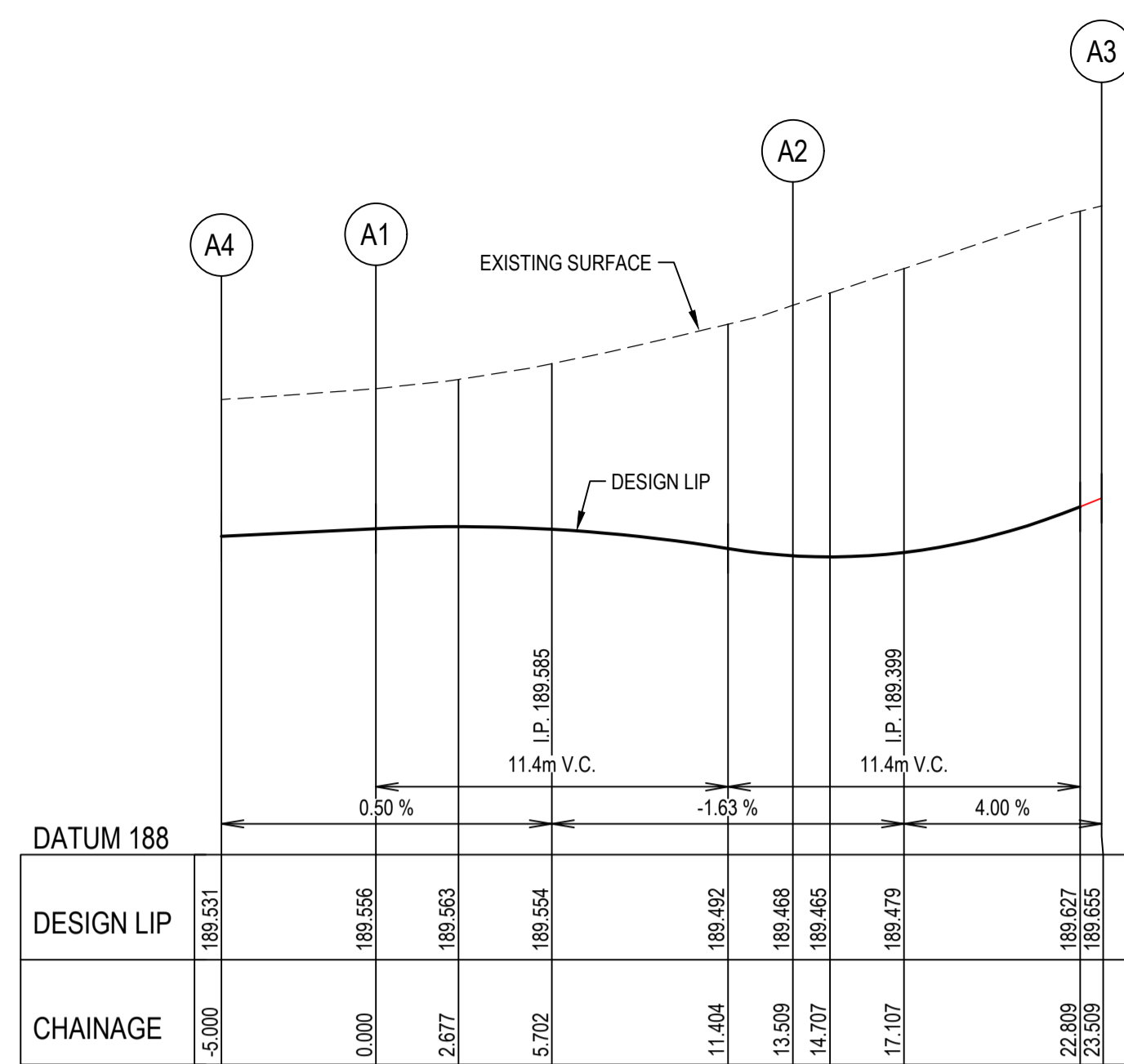
TYPICAL ROAD CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

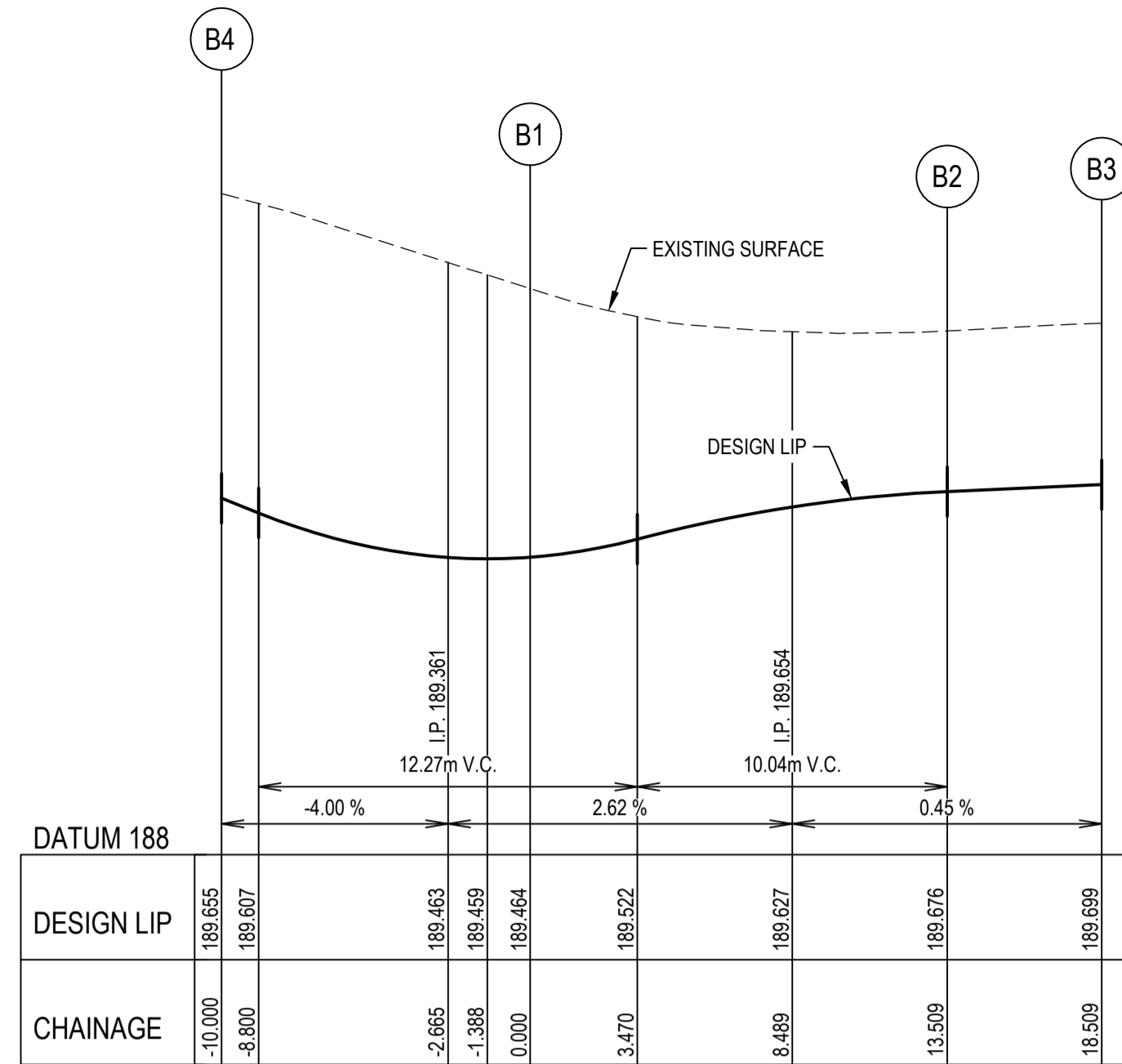


SCALE 1 : 100 (A1)

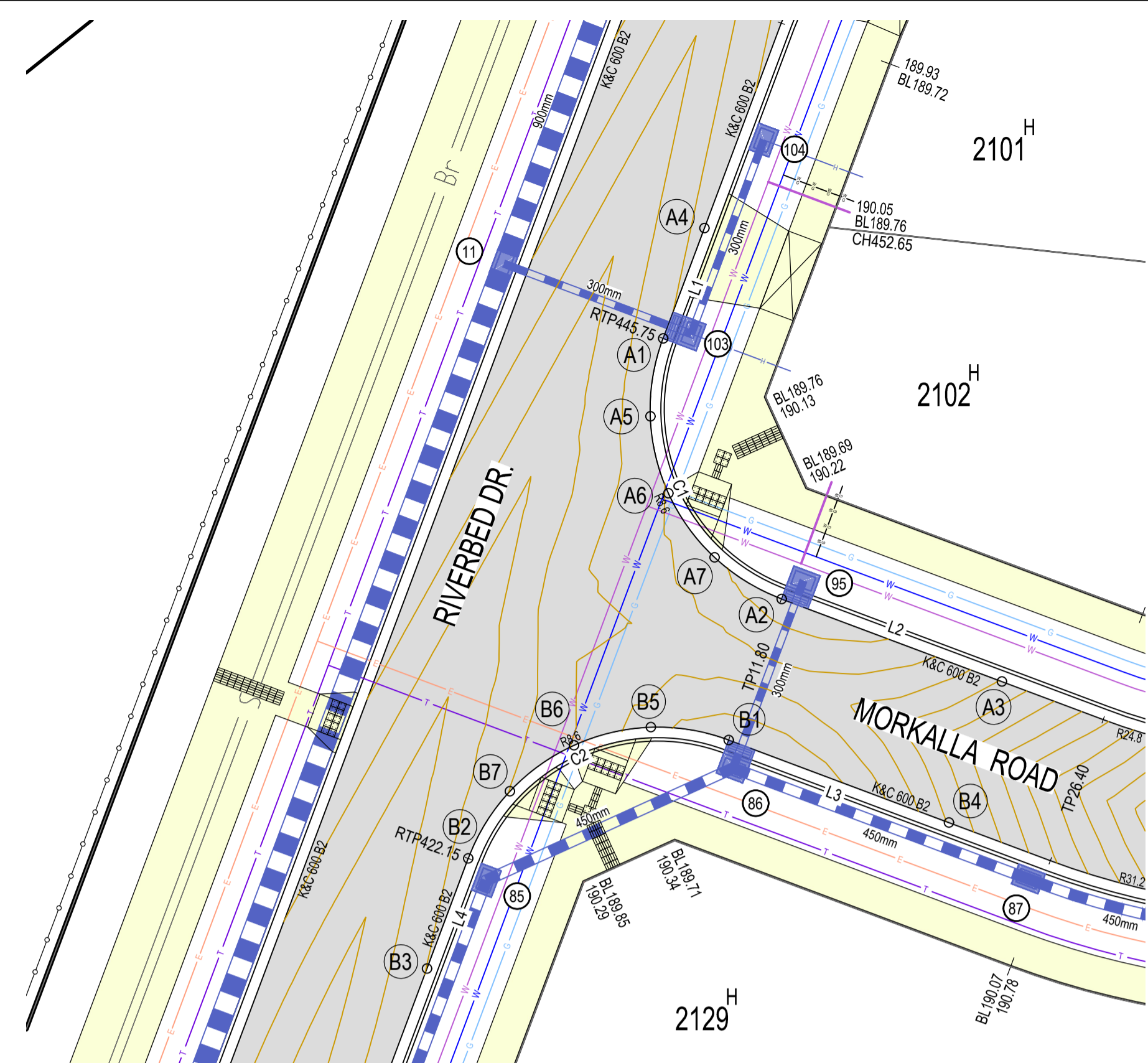
AMENDMENTS			<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
		MELWAY REF. -			RATHDOWNE ESTATE STAGE 21	MUNICIPALITY WHITTLESEA	
		SURVEY B.P.D.				REFERENCE 9365 E/21	
		DESIGN B.P.D.				NOTES, PAVEMENT DETAILS & TYPICAL SECTIONS	
		DRAWN M.T.	SCALE AS SHOWN	DATUM AHD	DATE Dec 23	SHEET 3 OF 15	P1
		CHECKED R.GOULD-WILLIAMS					



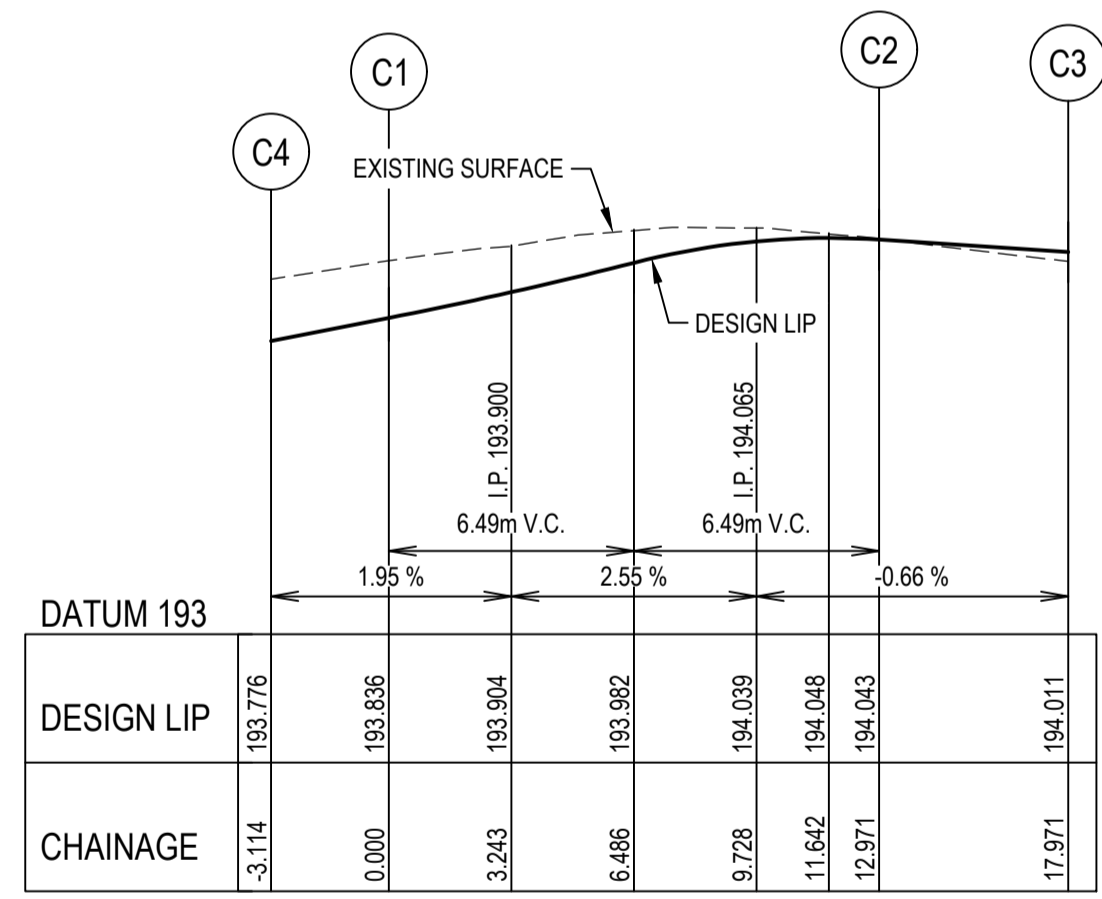
ST21 LIP LINE A							SETOUT TABLE				
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL	
L1	IP	-5.000	322055.248	5837660.234	5.000			A1	322053.49	5837655.55	189.556
	IP	0.000	322053.493	5837655.553				A2	322058.53	5837644.48	189.468
C1	TP	0.000	322053.493	5837655.553	13.509	8.6	13.509	A3	322067.89	5837640.97	189.655
	IP	8.600	322050.474	5837647.500				A4	322055.25	5837660.23	189.531
	TP	13.509	322058.526	5837644.481				A5	322052.95	5837652.24	189.563
L2	IP	13.509	322058.526	5837644.481	10.000			A6	322053.72	5837648.97	189.547
	IP	23.509	322067.890	5837640.970				A7	322055.67	5837646.25	189.511



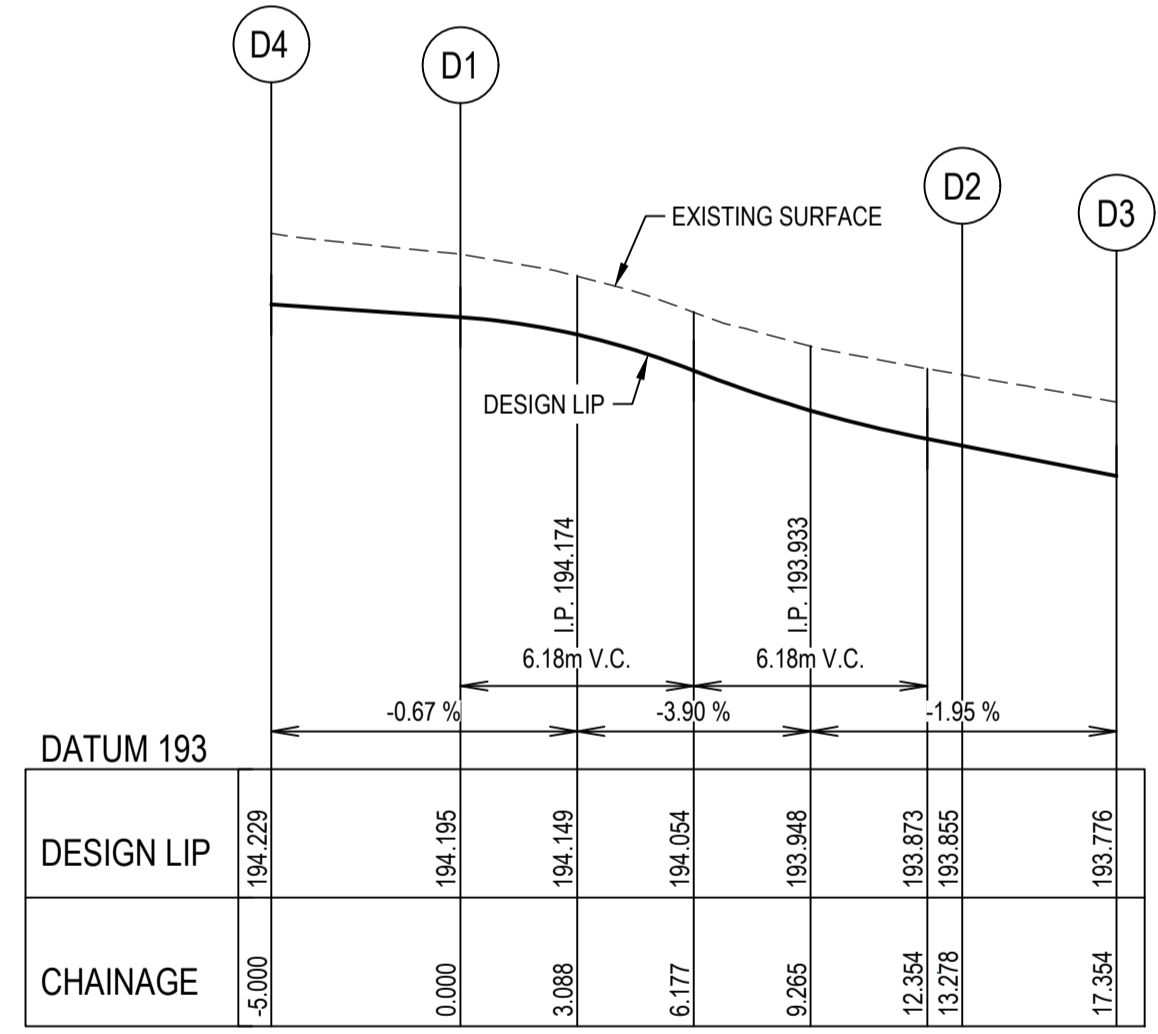
ST21 LIP LINE B							SETOUT TABLE				
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL	
L3	IP	-10.000	322065.643	5837634.978	10.000			B1	322056.28	5837638.49	189.464
	IP	0.000	322056.280	5837638.488				B2	322045.21	5837633.45	189.675
C2	TP	0.000	322056.280	5837638.488	13.509	8.6	13.509	B3	322043.45	5837628.77	189.699
	IP	8.600	322048.227	5837641.507				B4	322065.64	5837634.98	189.655
	TP	13.509	322045.208	5837633.455				B5	322052.97	5837639.03	189.520
L4	IP	13.509	322045.208	5837633.455	5.000			B6	322049.70	5837638.26	189.597
	IP	18.509	322043.453	5837628.773				B7	322046.98	5837636.31	189.649



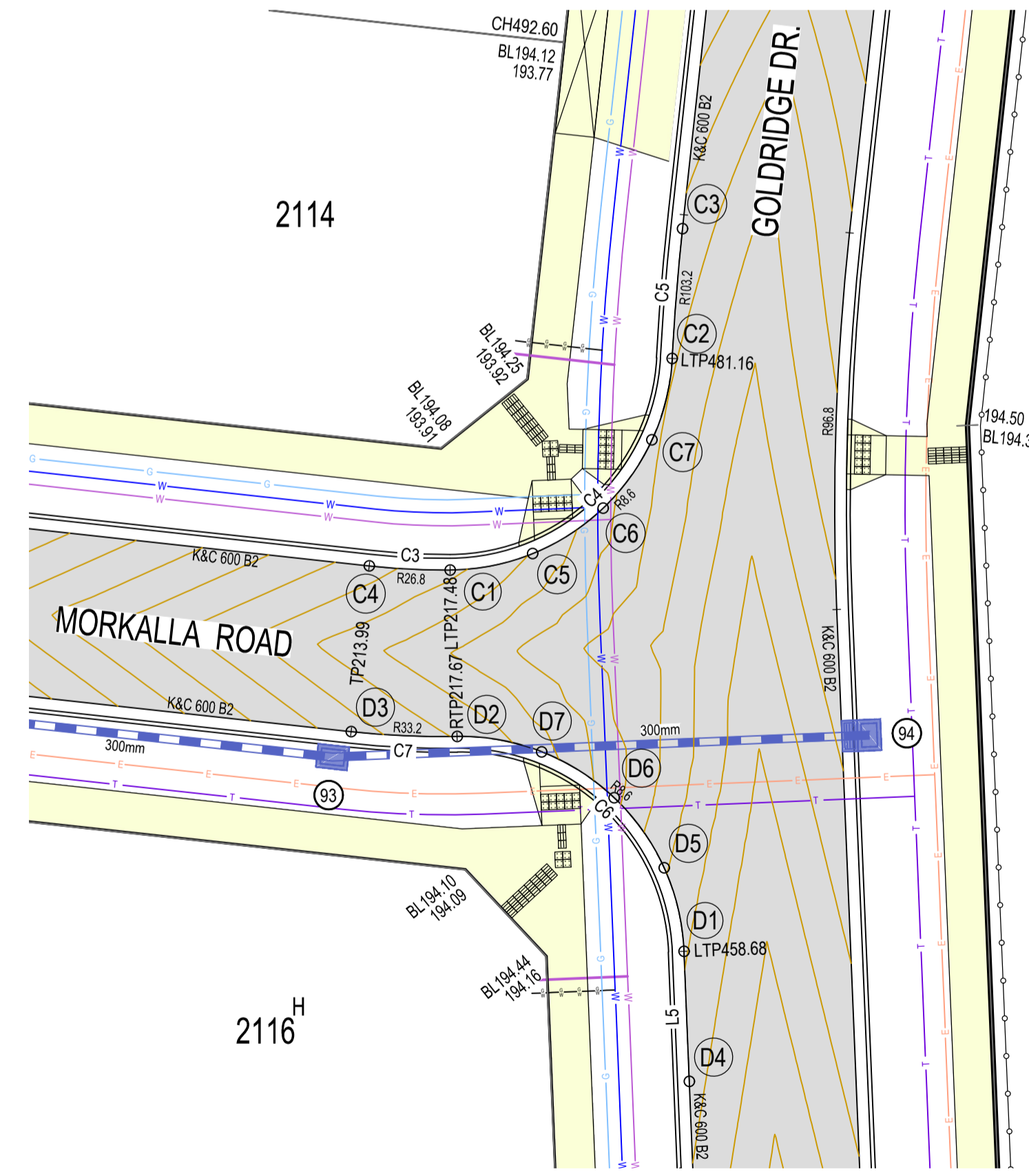
INTERSECTION DETAILS PLAN
SCALE A1 - 1 : 200



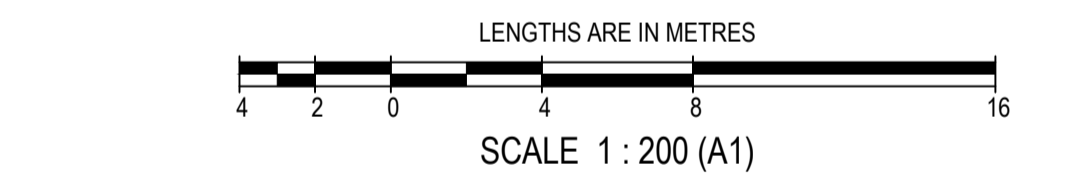
ST21 LIP LINE C							SETOUT TABLE				
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL	
C3	TP	-3.114	322257.735	5837618.318	3.114	26.8	3.114	C1	322260.84	5837618.16	193.836
	IP	-1.555	322259.284	5837618.148				C2	322269.37	5837626.29	194.043
C4	TP	0.000	322260.843	5837618.160	12.971	8.6	12.971	C3	322269.76	5837631.27	194.011
	IP	8.079	322268.921	5837618.220				C4	322257.73	5837618.32	193.776
	TP	12.971	322269.366	5837626.286				C5	322264.01	5837618.79	193.905
C5	TP	12.971	322269.366	5837626.286	5.000	103.2	5.000	C6	322266.71	5837620.54	193.982
	IP	15.472	322269.504	5837628.783				C7	322268.59	5837623.16	194.039



ST21 LIP LINE D							SETOUT TABLE				
TAG	CHAINAGE	EASTING	NORTHING	LENGTH	RADIUS	A.Length	PT No.	EAST.	NORTH.	LEVEL	
L5	IP	0.000	322270.027	5837598.519	5.000			D1	322269.82	5837603.51	194.195
	IP	5.000	322269.822	5837603.515				D2	322261.11	5837611.76	193.855
C6	TP	5.000	322269.822	5837603.515	13.278	8.6	13.278	D3	322257.04	5837611.96	193.776
	IP	13.372	322269.480	5837611.880				D4	322270.03	5837598.52	194.229
	TP	18.278	322261.109	5837611.762				D5	322269.06	5837606.72	194.144
C7	TP	18.278	322261.109	5837611.762	4.076	33.2	4.076	D6	322267.14	5837609.41	194.037
	IP	20.318	322259.069	5837611.734				D7	322264.36	5837611.18	193.929



INTERSECTION DETAILS PLAN
SCALE A1 - 1 : 200

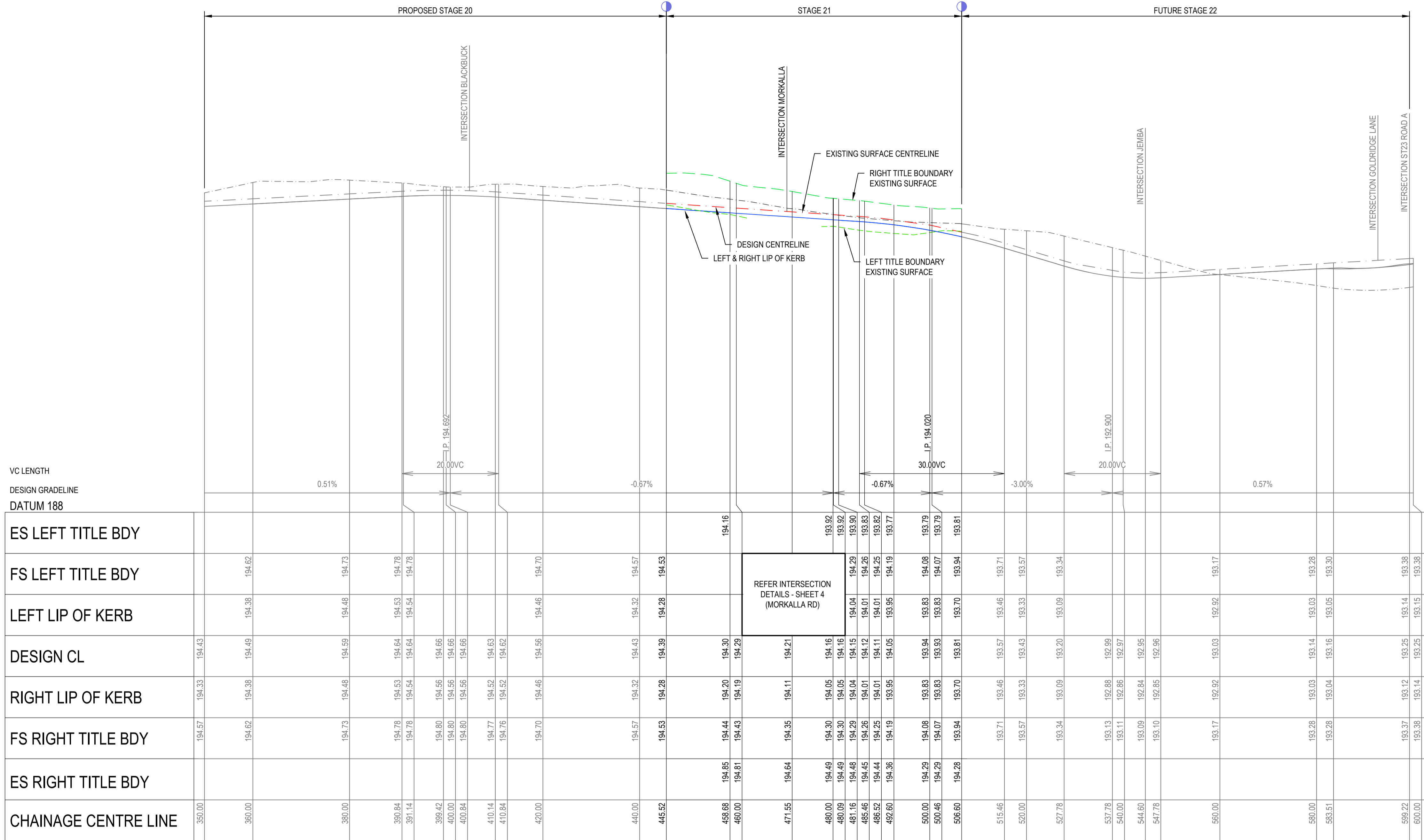


WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

SYMBOL LEGEND	
Prop	Prev Stage
Drains	Ex/Natural/FS Level
Sewer < 3000	FS @ Building Line
Sewer ≥ 3000	Top/Toe of Batter
Water (DW)	Top Ret. Wall Level
Water (NDW)	100yr Flood Level
House Drain	Property Inlet
Street Sign	Street Sign
PSM	PSM
Rock Ret Wall	Rock Ret Wall
Sleeper Ret Wall	Sleeper Ret Wall
Conduits 50mm	Conduits 50mm
Conduits 100mm	Conduits 100mm
Street Tree without/with Passive Irrigation (Refer Detail)	Street Tree without/with Passive Irrigation (Refer Detail)
Ex Drains	Ex Water/DW/NDW
Ex Sewer/Gas	Ex Sewer/Gas
Ex Elect/Comm	Ex Elect/Comm
Fill Proposed (<0.3m/≥0.3m)	Fill Proposed (<0.3m/≥0.3m)
Cut Proposed	Cut Proposed
Asphalt Surface Prop	Asphalt Surface Prop
Concrete Surface Prop (Paths/Driveways/Slabs)	Concrete Surface Prop (Paths/Driveways/Slabs)
Tree To Be Removed	Tree To Be Removed
Tree To Be Retained with Tree Protection Zone (TPZ)	Tree To Be Retained with Tree Protection Zone (TPZ)

KERB LIP PROFILES
SCALE A1 - 1:200H 1:20V

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS		MELWAY REF. - SURVEY B.P.D. DESIGN B.P.D. DRAWN M.T.		MUNICIPALITY RATHDOWNE ESTATE STAGE 21 INTERSECTION DETAILS REFERENCE 9365 E/21	
VER	DATE	REMARKS	CHECKED R.GOULD-WILLIAMS	SCALE AS SHOWN DATUM AHD	DATE Dec 23
			SHEET 4 OF 15		P1

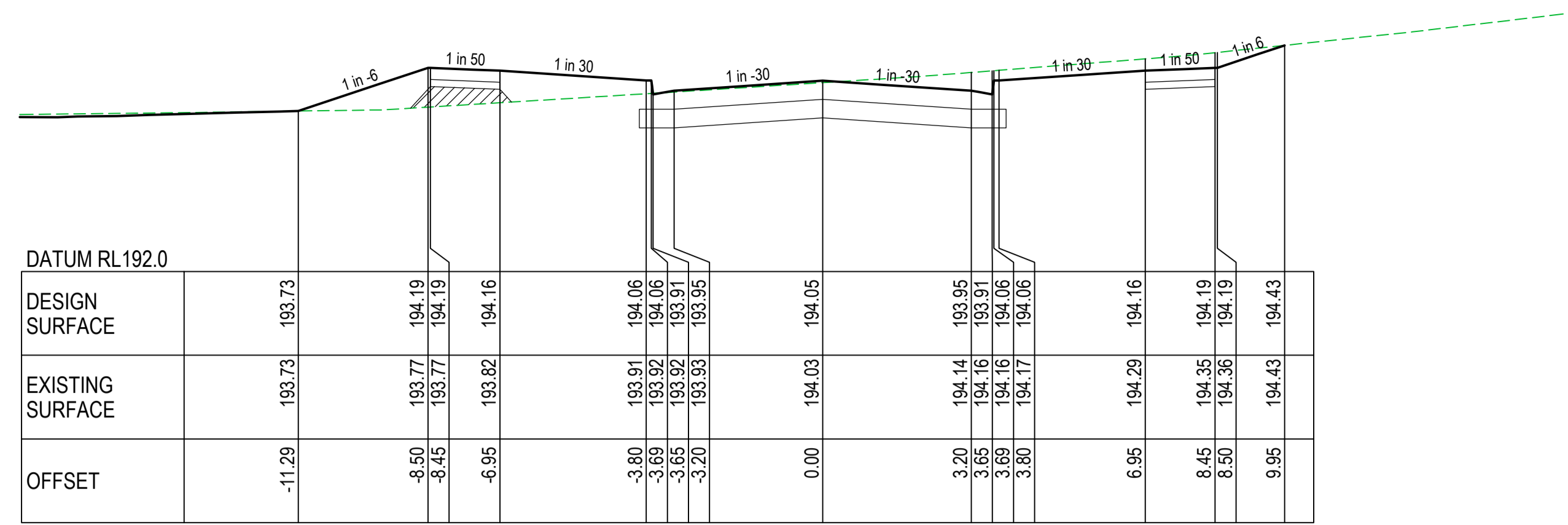


**GOLDRIDGE DR
LONGITUDINAL SECTION**
 SCALE A1 - 1:500H 1:50V
 SCALE H 1:500 V 1:50 @ A1
 HORIZ 10 5 0 10 20 40
 VERT 1 0.5 0 1 2 4
 LENGTHS ARE IN METRES

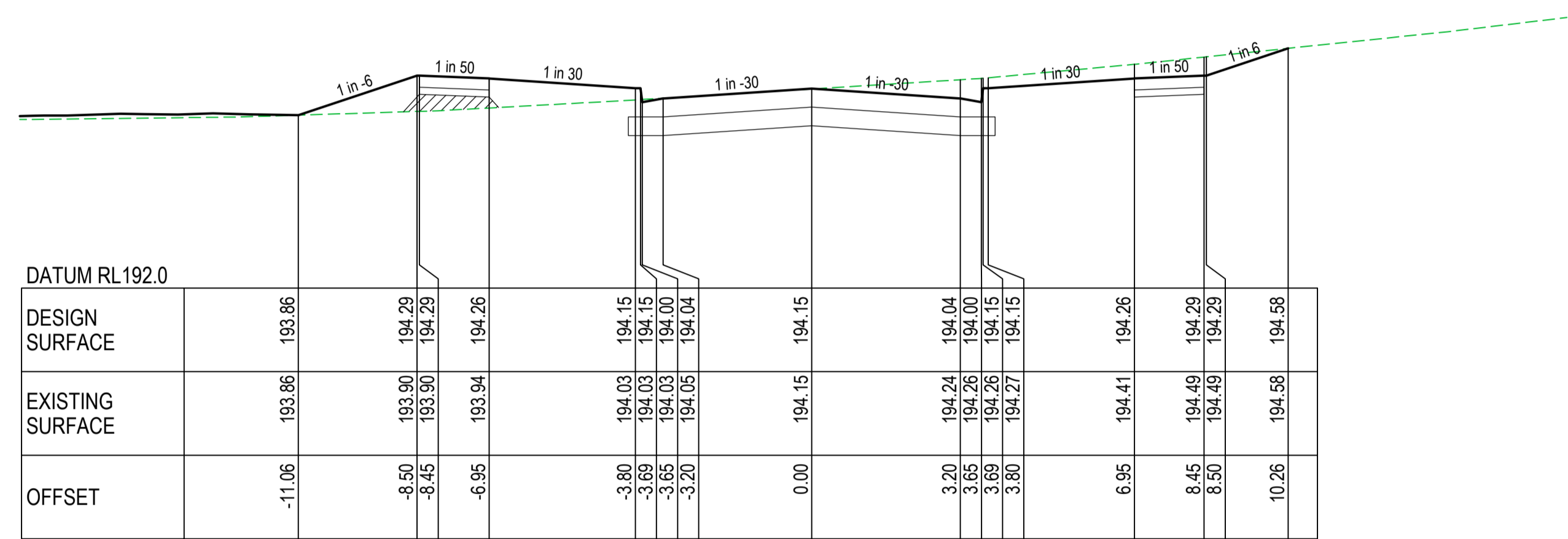
- LEGEND:**
- ES LEFT TITLE BOUNDARY
 - DESIGN CENTRELINE
 - LIP OF KERB
 - ES RIGHT TITLE BOUNDARY
 - ES CENTRELINE

AMENDMENTS VER DATE REMARKS		 breese pitt dixon pty. ltd. land surveyors civil engineers	RATHDOWNE ESTATE STAGE 21 GOLDRIDGE DR LONGITUDINAL SECTION	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310		
		MELWAY REF.	MUNICIPALITY	WHITTLESEA REFERENCE 9365 E/21		
		SURVEY B.P.D.	REFERENCE			
		DESIGN B.P.D.	9365 E/21			
DRAWN M.T.	CHECKED R.G.W.	SCALE AS SHOWN	DATUM AHD	DATE Dec 23	SHEET 5 OF 15	P1

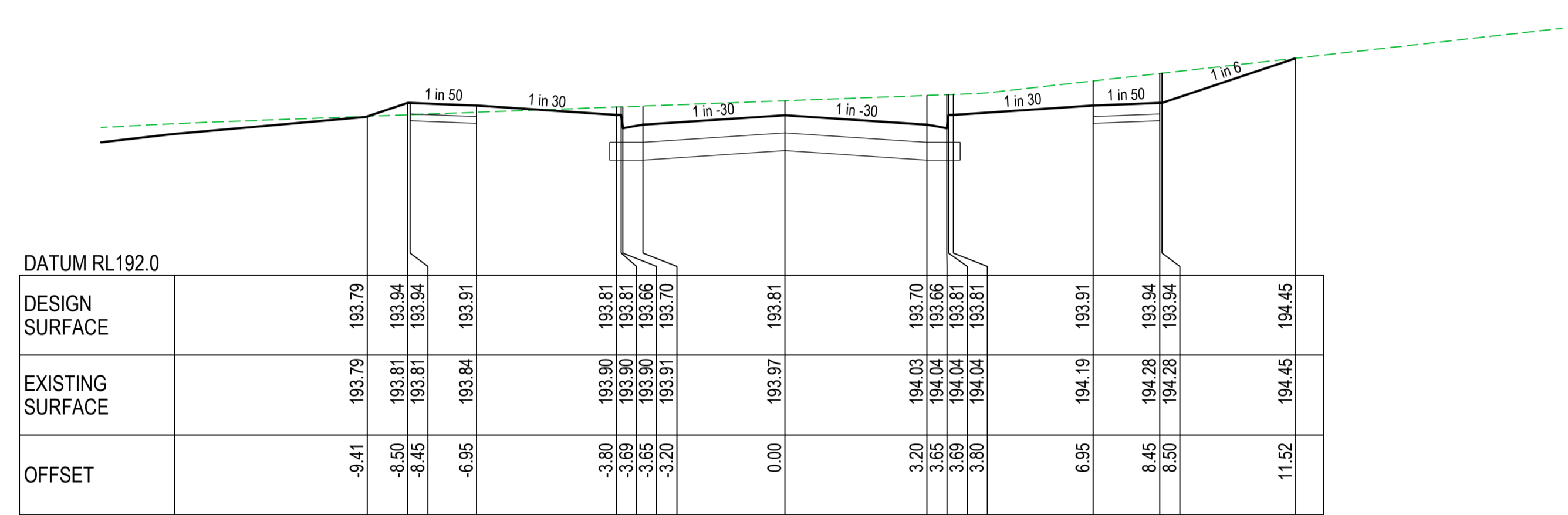
Printed: Dec 18, 2023 7:55:58



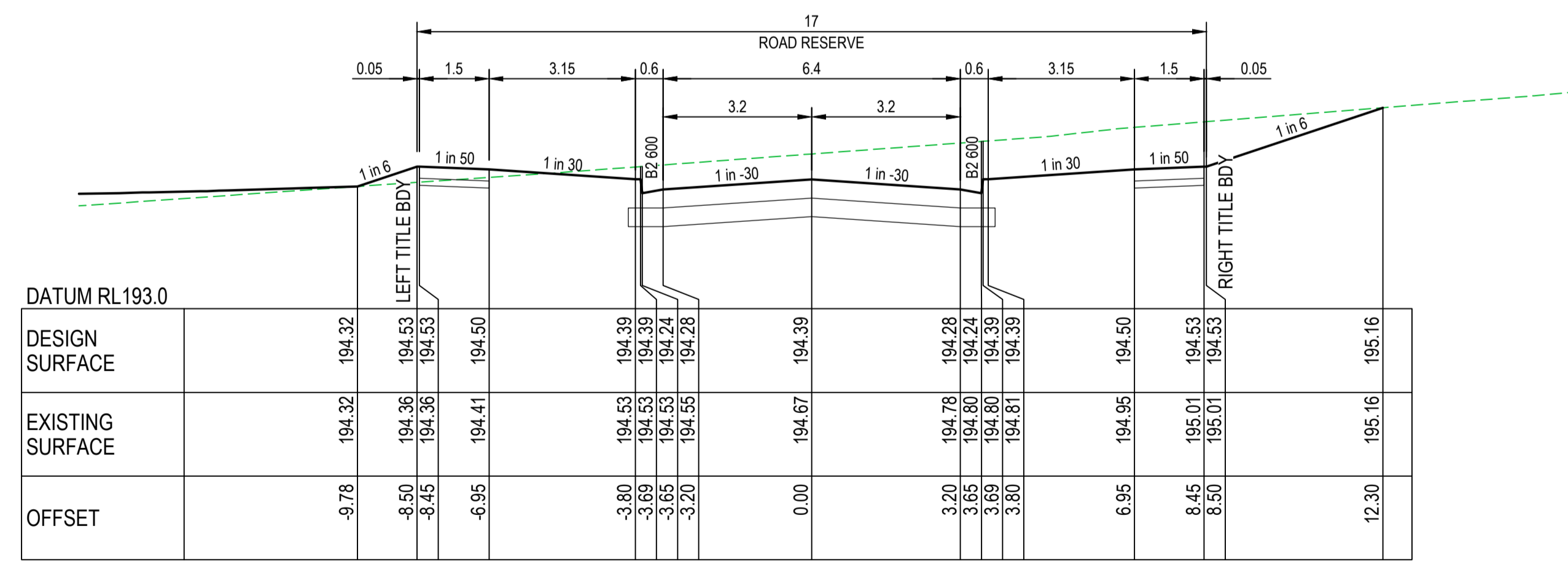
CH 492.60



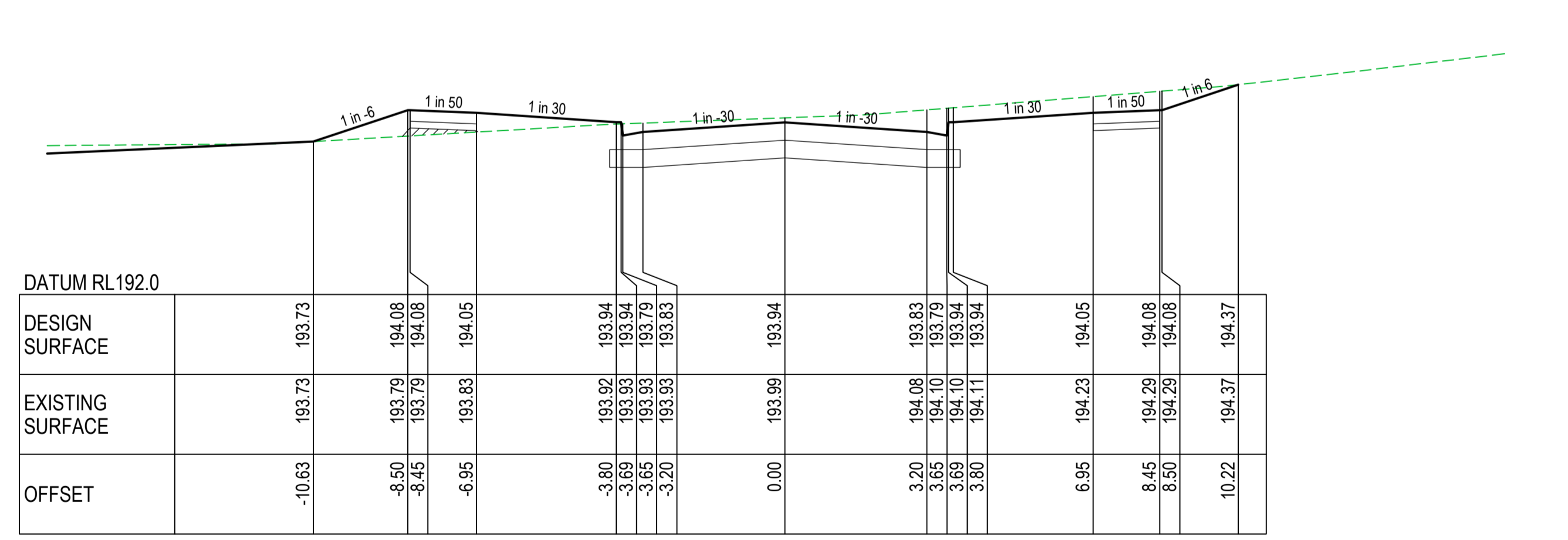
CH 481.16



CH 506.60

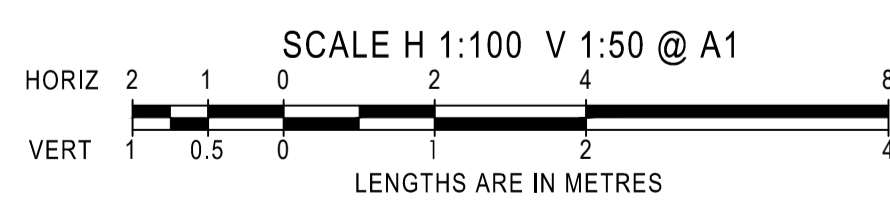


CH 445.52



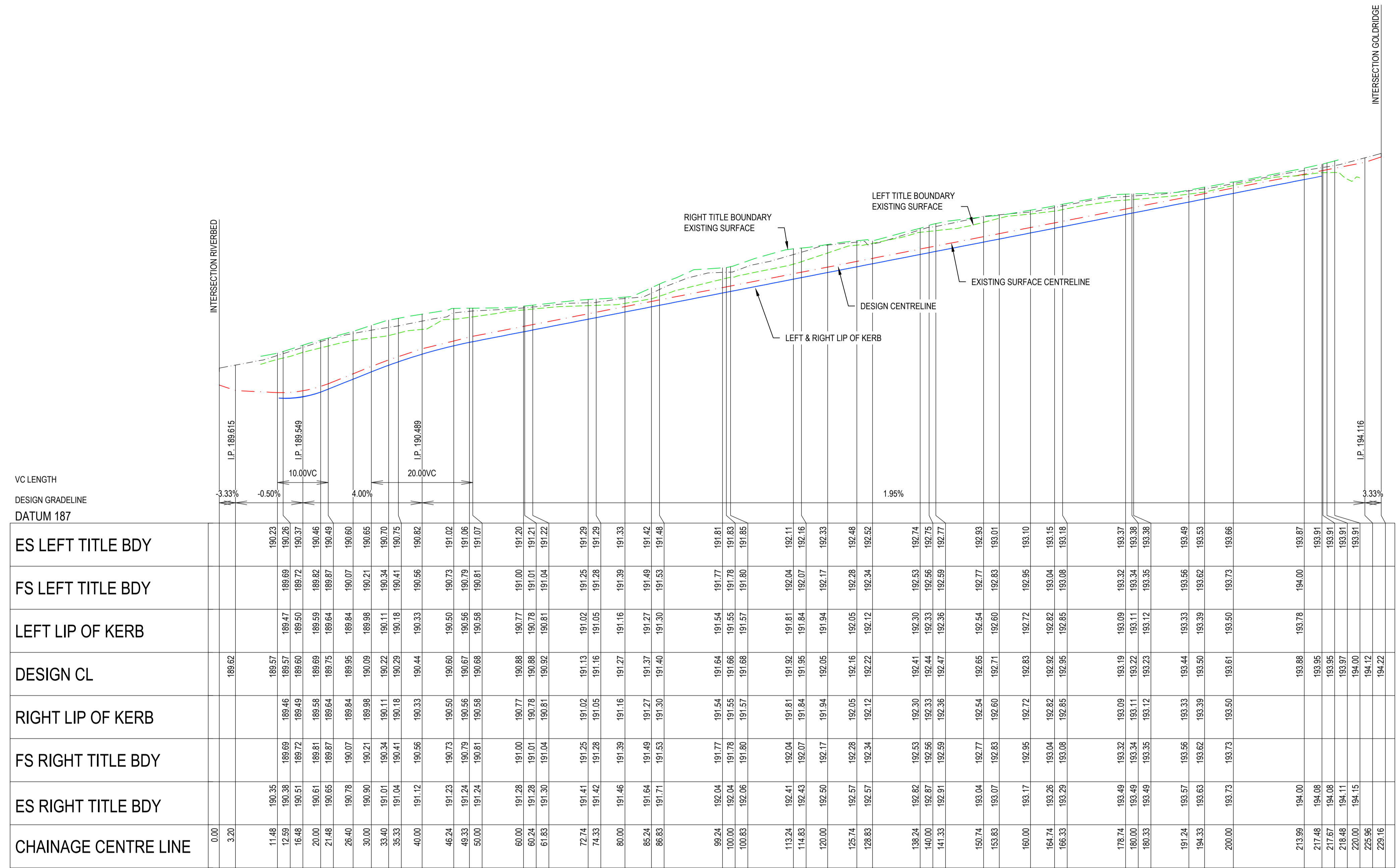
CH 500.00

GOLDRIDGE DRIVE
CROSS SECTIONS
SCALE A1 - 1:100H 1:50V



LEGEND:
 --- EXISTING SURFACE LEVEL
 --- DESIGN CENTRELINE
 ▨ TYPE A SELECTED MATERIAL FILL. LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

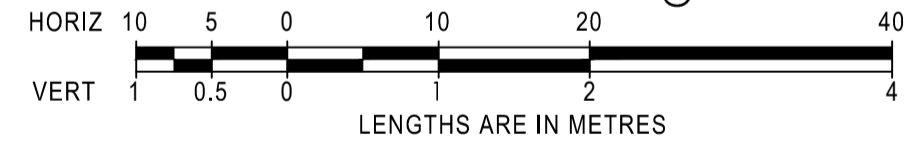
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. SURVEY B.P.D. DESIGN B.P.D. DRAWN M.T.		RATHDOWNE ESTATE STAGE 21		MUNICIPALITY WHITTLESEA	
CHECKED R.G.W.		SCALE AS SHOWN DATUM AHD		REFERENCE 9365/21	
DATE REMARKS		DATE Dec 23		SHEET 6 OF 15 P1	



MORKALLA RD
LONGITUDINAL SECTION

SCALE A1 - 1:500H 1:50V

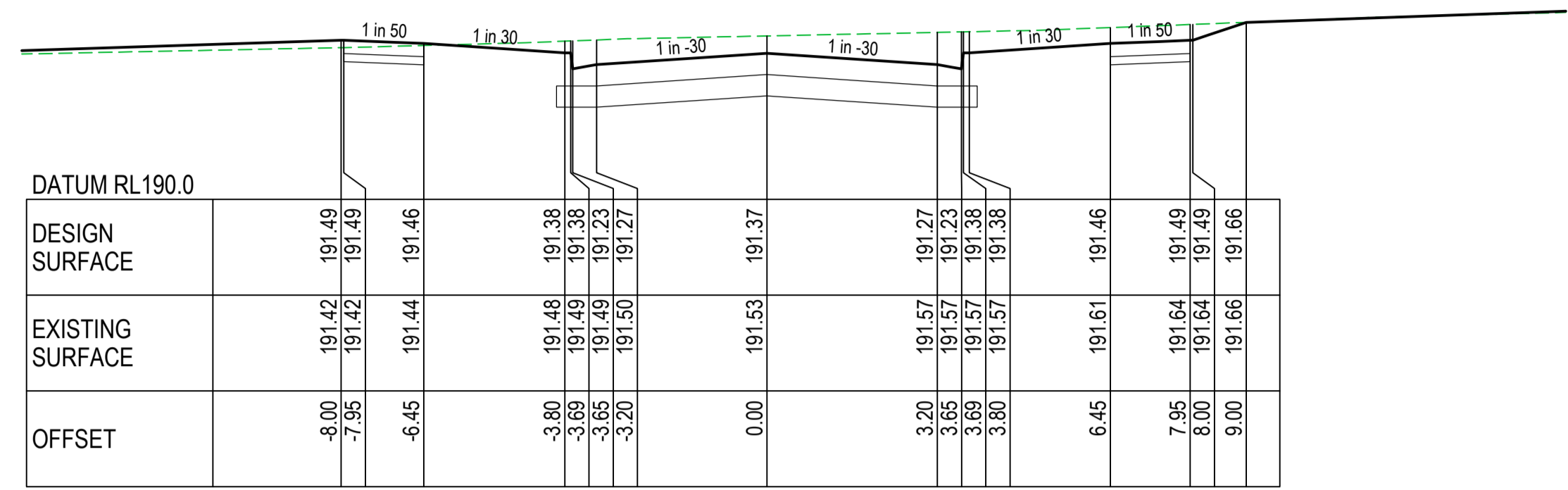
SCALE H 1:500 V 1:50 @ A1



LEGEND:

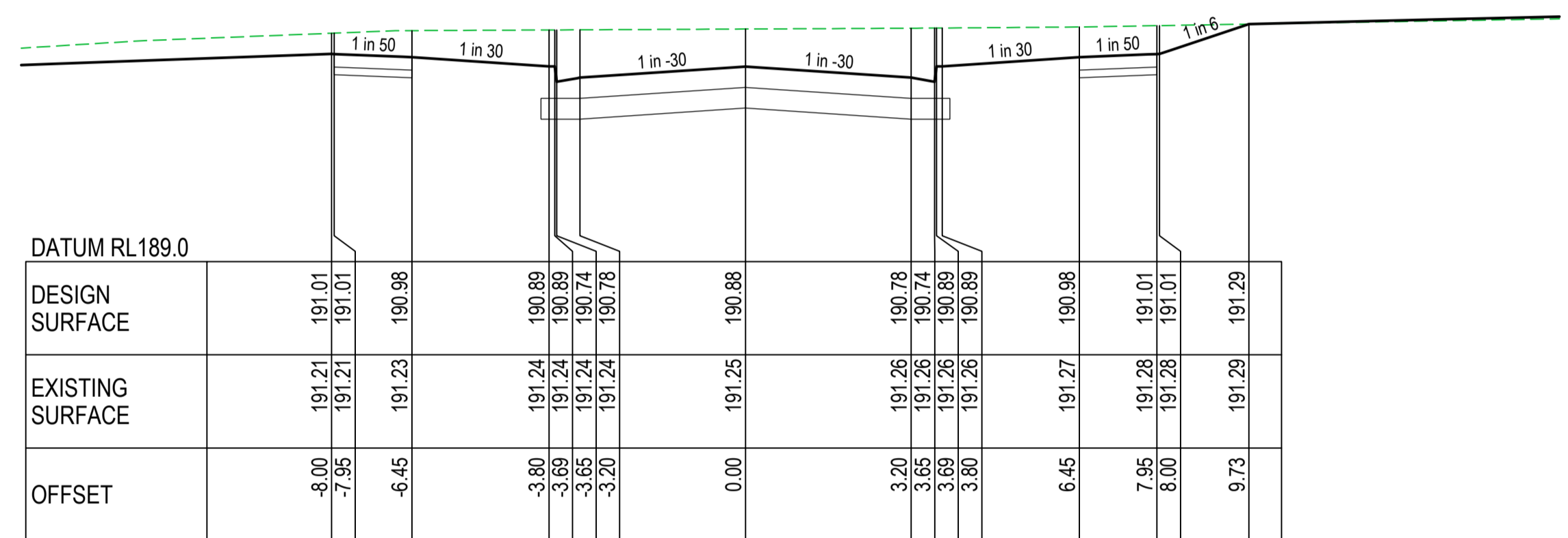
	ES LEFT TITLE BOUNDARY
	DESIGN CENTRELINE
	LIP OF KERB
	ES RIGHT TITLE BOUNDARY
	ES CENTRELINE

AMENDMENTS		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	
MELWAY REF.		RATHDOWNE ESTATE STAGE 21 BLACKBUCK RD LONGITUDINAL SECTION		REFERENCE 9365 E/21	
SURVEY B.P.D.				SHEET 7 OF 15 P1	
DESIGN B.P.D.				DATE Dec 23	
DRAWN M.T.		SCALE AS SHOWN DATUM AHD		SHEET 7 OF 15 P1	
CHECKED R.G.W.		DATE Dec 23		SHEET 7 OF 15 P1	
VER	DATE	REMARKS			



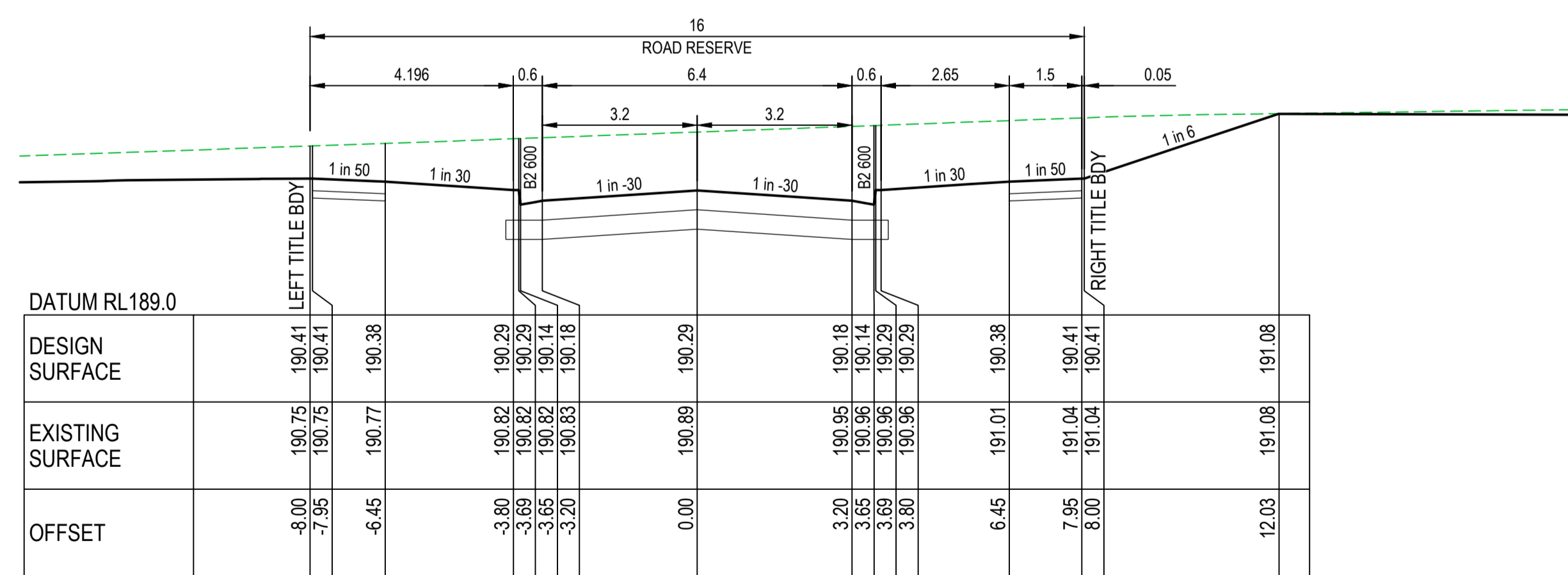
DATUM RL190.0	
DESIGN SURFACE	191.49 191.49 191.46 191.38 191.38 191.23 191.23 191.38 191.46
EXISTING SURFACE	191.42 191.42 191.44 191.48 191.49 191.23 191.23 191.38 191.61
OFFSET	-8.00 -7.95 -6.45 -3.80 -3.69 -3.65 -3.20 0.00 3.20 3.65 3.69 3.80 6.45 7.95 8.00 9.00

CH 85.24



DATUM RL189.0	
DESIGN SURFACE	191.01 191.01 190.98 190.89 190.89 190.74 190.74 190.89 190.98
EXISTING SURFACE	191.21 191.21 191.23 191.24 191.24 190.74 190.74 190.89 191.29
OFFSET	-8.00 -7.95 -6.45 -3.80 -3.69 -3.65 -3.20 0.00 3.20 3.65 3.69 3.80 6.45 7.95 8.00 9.73

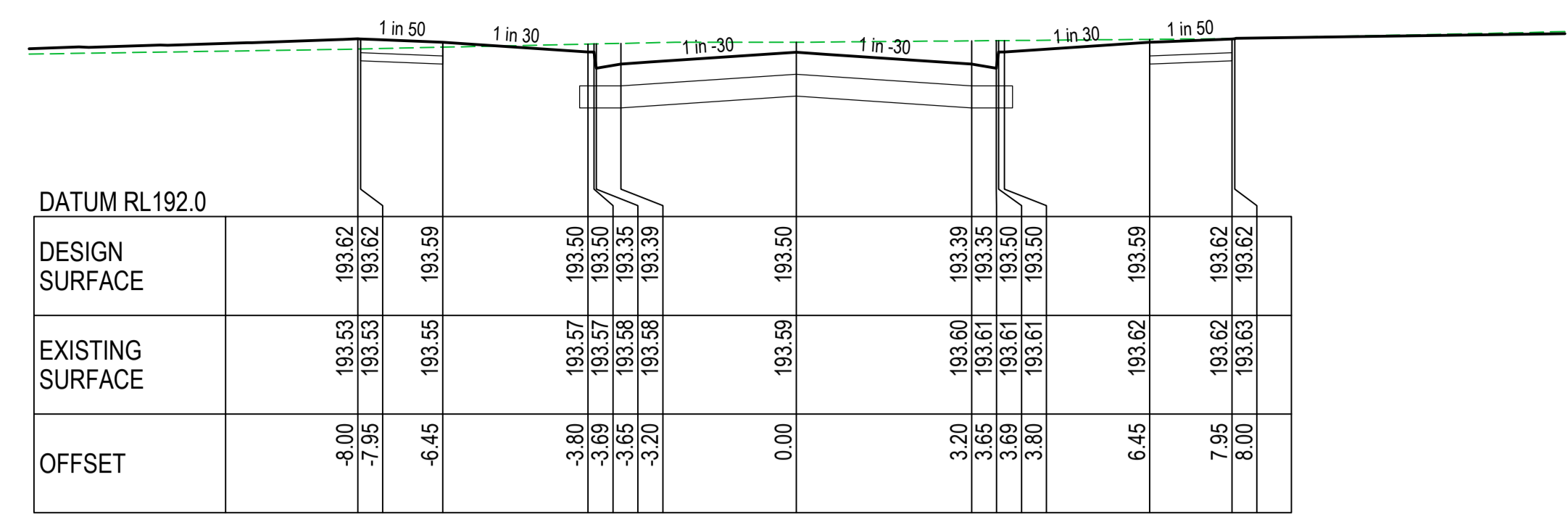
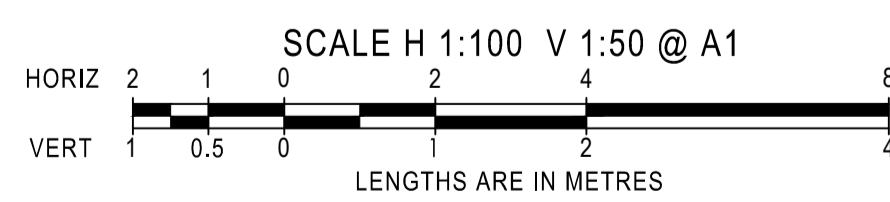
CH 60.24



DATUM RL189.0	
DESIGN SURFACE	190.41 190.41 190.38 190.29 190.29 190.14 190.14 190.29 190.38 190.41
EXISTING SURFACE	190.75 190.75 190.77 190.82 190.82 190.14 190.14 190.29 190.88 191.08
OFFSET	-8.00 -7.95 -6.45 -3.80 -3.69 -3.65 -3.20 0.00 3.20 3.65 3.69 3.80 6.45 7.95 8.00 12.03

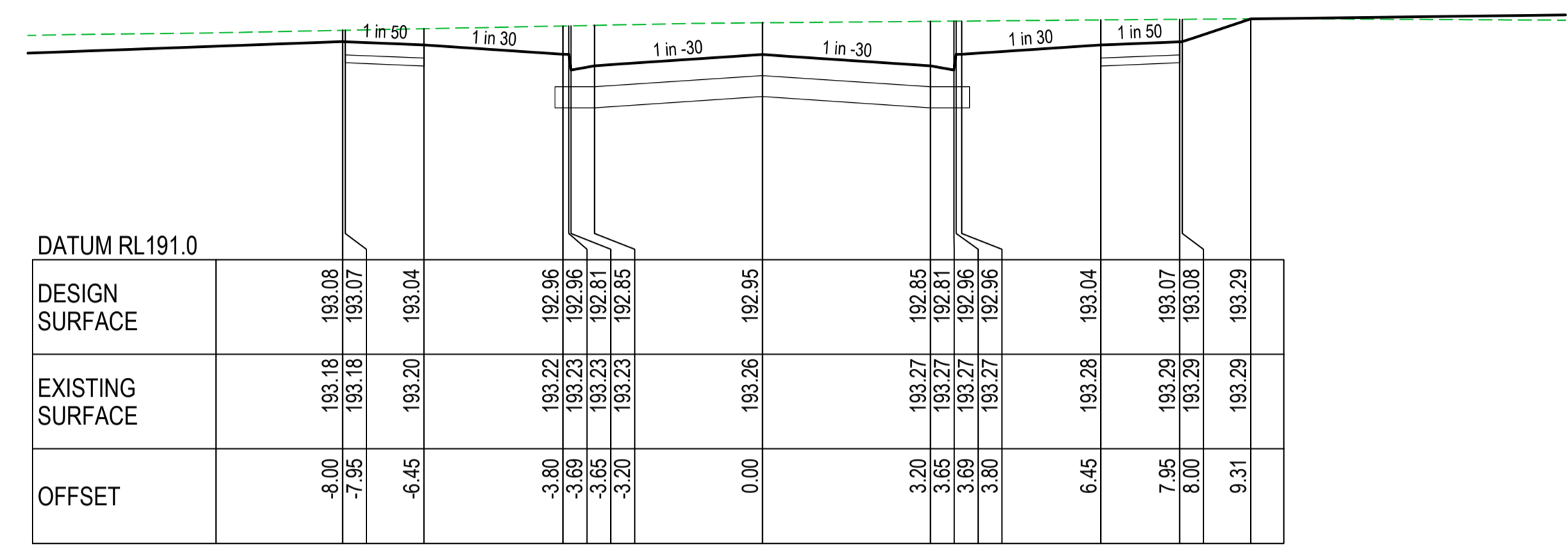
CH 35.33

**MORKALLA ROAD
CROSS SECTIONS**
SCALE A1 - 1:100H 1:50V



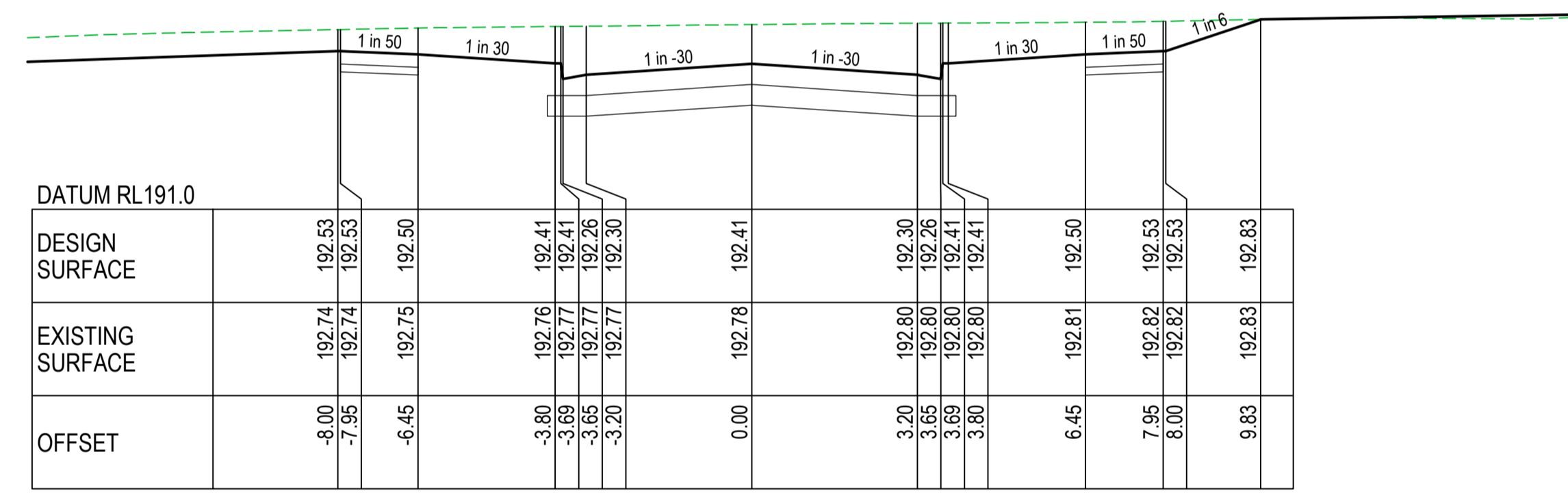
DATUM RL192.0	
DESIGN SURFACE	193.62 193.62 193.59 193.50 193.50 193.35 193.35 193.50 193.59
EXISTING SURFACE	193.53 193.53 193.55 193.57 193.57 193.35 193.35 193.50 193.62
OFFSET	-8.00 -7.95 -6.45 -3.80 -3.69 -3.65 -3.20 0.00 3.20 3.65 3.69 3.80 6.45 7.95 8.00

CH 194.33



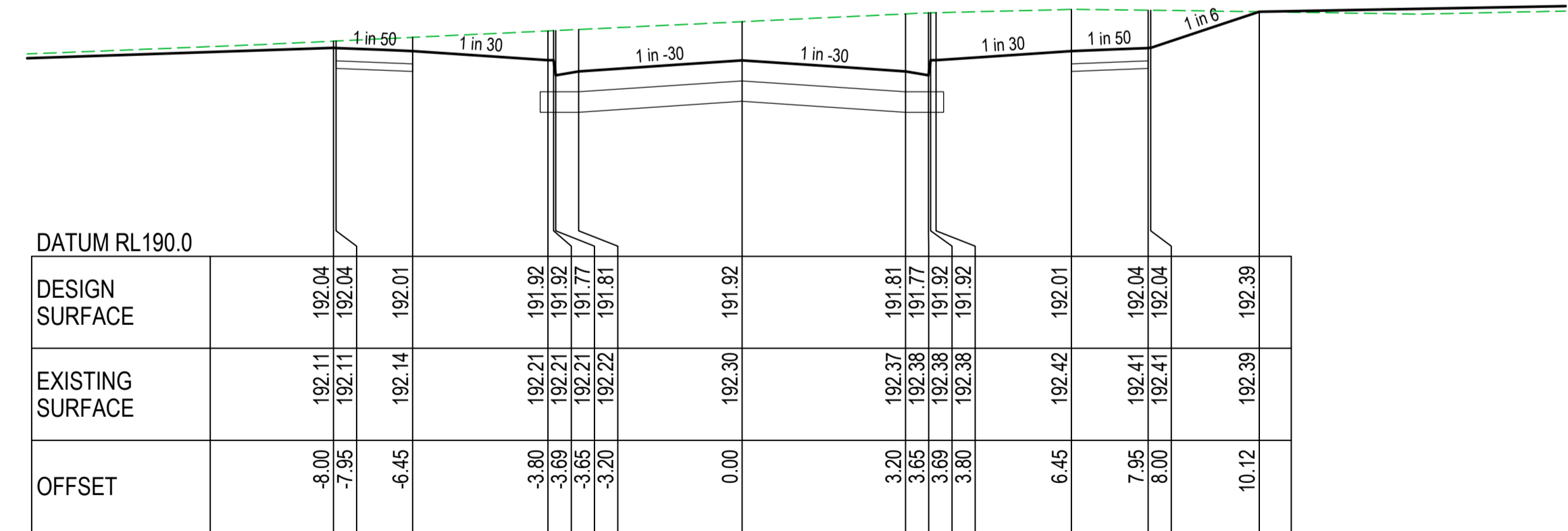
DATUM RL191.0	
DESIGN SURFACE	193.08 193.08 193.04 192.96 192.96 192.81 192.81 192.96 193.04
EXISTING SURFACE	193.18 193.18 193.20 193.22 193.22 192.81 192.81 192.96 193.07
OFFSET	-8.00 -7.95 -6.45 -3.80 -3.69 -3.65 -3.20 0.00 3.20 3.65 3.69 3.80 6.45 7.95 8.00 9.31

CH 166.33



DATUM RL191.0	
DESIGN SURFACE	192.53 192.53 192.50 192.41 192.41 192.26 192.26 192.41 192.50
EXISTING SURFACE	192.74 192.74 192.75 192.76 192.76 192.26 192.26 192.41 192.83
OFFSET	-8.00 -7.95 -6.45 -3.80 -3.69 -3.65 -3.20 0.00 3.20 3.65 3.69 3.80 6.45 7.95 8.00 9.83

CH 138.24

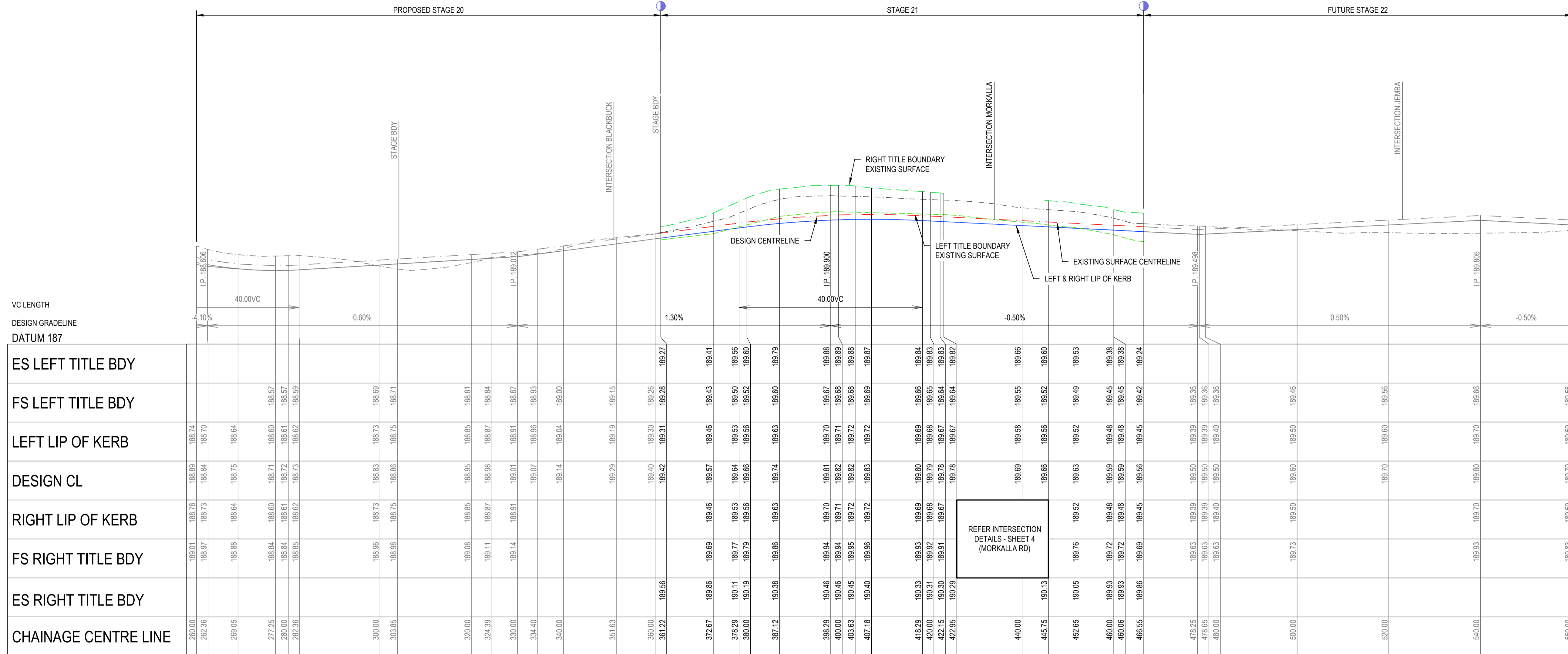


DATUM RL190.0	
DESIGN SURFACE	192.04 192.04 192.01 191.92 191.92 191.77 191.77 191.92 192.01
EXISTING SURFACE	192.11 192.11 192.14 192.21 192.21 191.77 191.77 191.92 192.04
OFFSET	-8.00 -7.95 -6.45 -3.80 -3.69 -3.65 -3.20 0.00 3.20 3.65 3.69 3.80 6.45 7.95 8.00 10.12

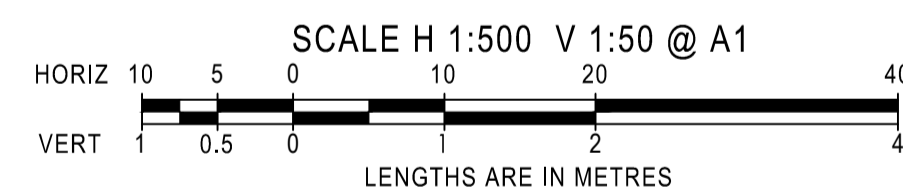
CH 113.24

LEGEND:
 EXISTING SURFACE LEVEL
 DESIGN CENTRELINE
 TYPE A SELECTED MATERIAL FILL. LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

 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 21 BLACKBUCK RD CROSS SECTIONS		MUNICIPALITY WHITTLESEA REFERENCE 9365 E/21
MELWAY REF. SURVEY B.P.D. DESIGN B.P.D. DRAWN M.T.	CHECKED R.G.W.	SCALE AS SHOWN DATUM AHD DATE Dec 23
SHEET 8 OF 15	P1	FORMER DEC 18 2023 10:26am



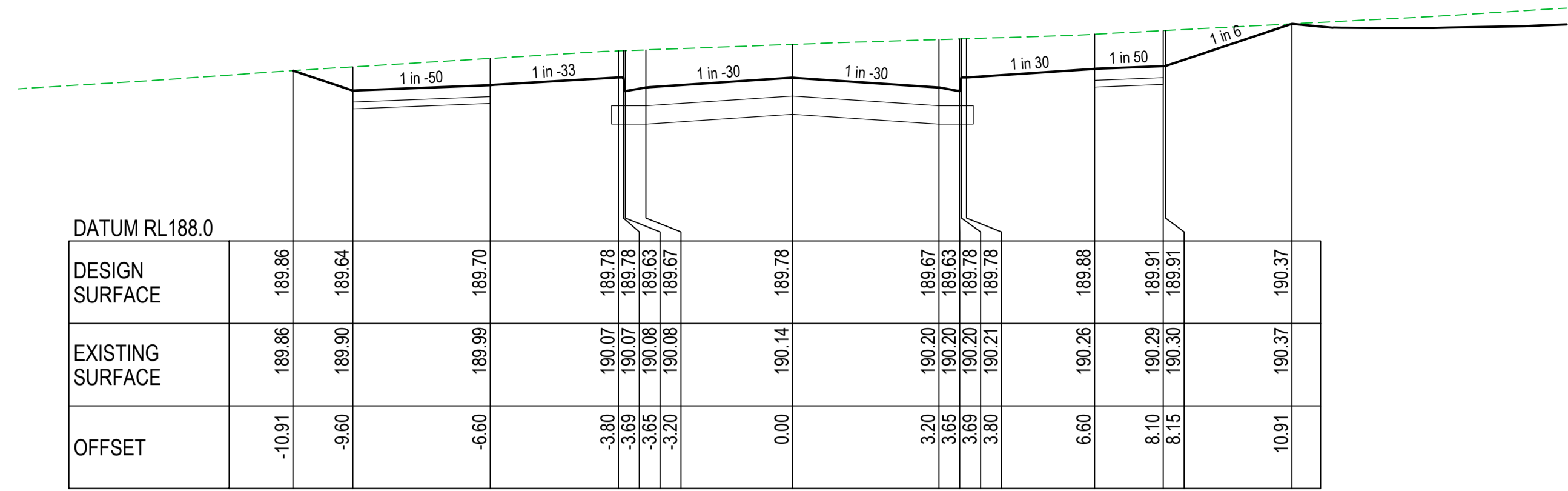
RIVERBED DR
LONGITUDINAL SECTION
SCALE A1 - 1:500H 1:50V



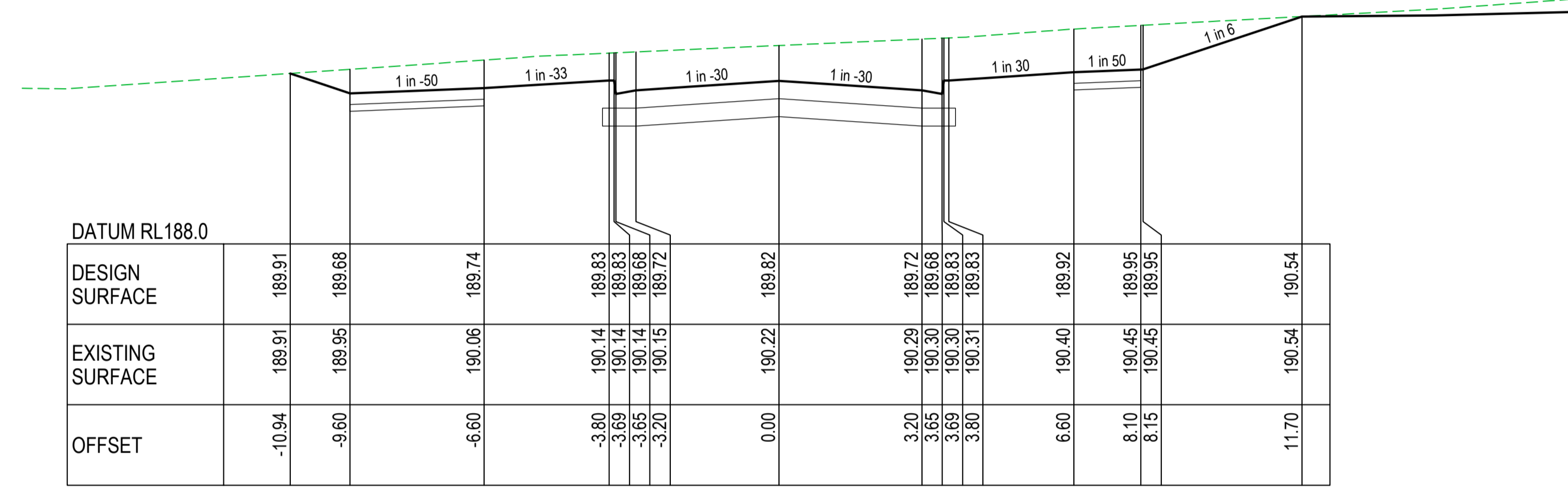
LEGEND:

- ES LEFT TITLE BOUNDARY
- DESIGN CENTRELINE
- LIP OF KERB
- ES RIGHT TITLE BOUNDARY
- ES CENTRELINE

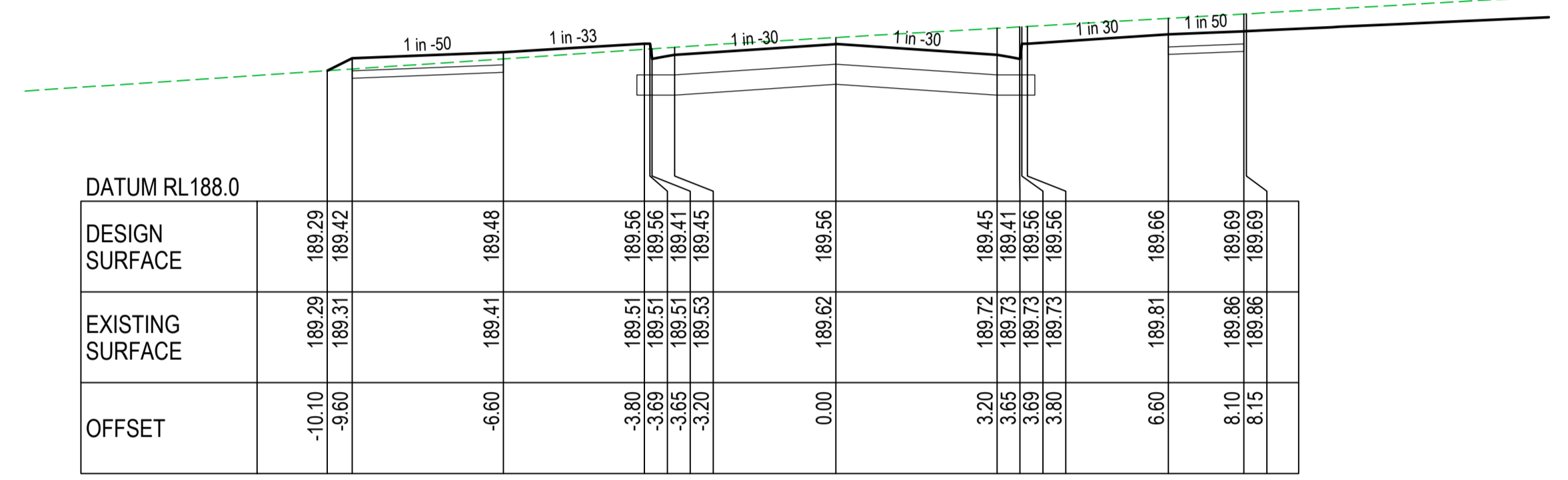
AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310					
						MELWAY REF.		MUNICIPALITY	
						SURVEY B.P.D.		WHITTLESEA	
						DESIGN B.P.D.		REFERENCE	
DRAWN M.T.		9365 E/21		RATHDOWNE ESTATE STAGE 21					
CHECKED R.G.W.		SCALE AS SHOWN		RIVERBED DR LONGITUDINAL SECTION					
DATE		DATUM AHD		DATE Dec 23					
REMARKS		SHEET 9 OF 15		P1					



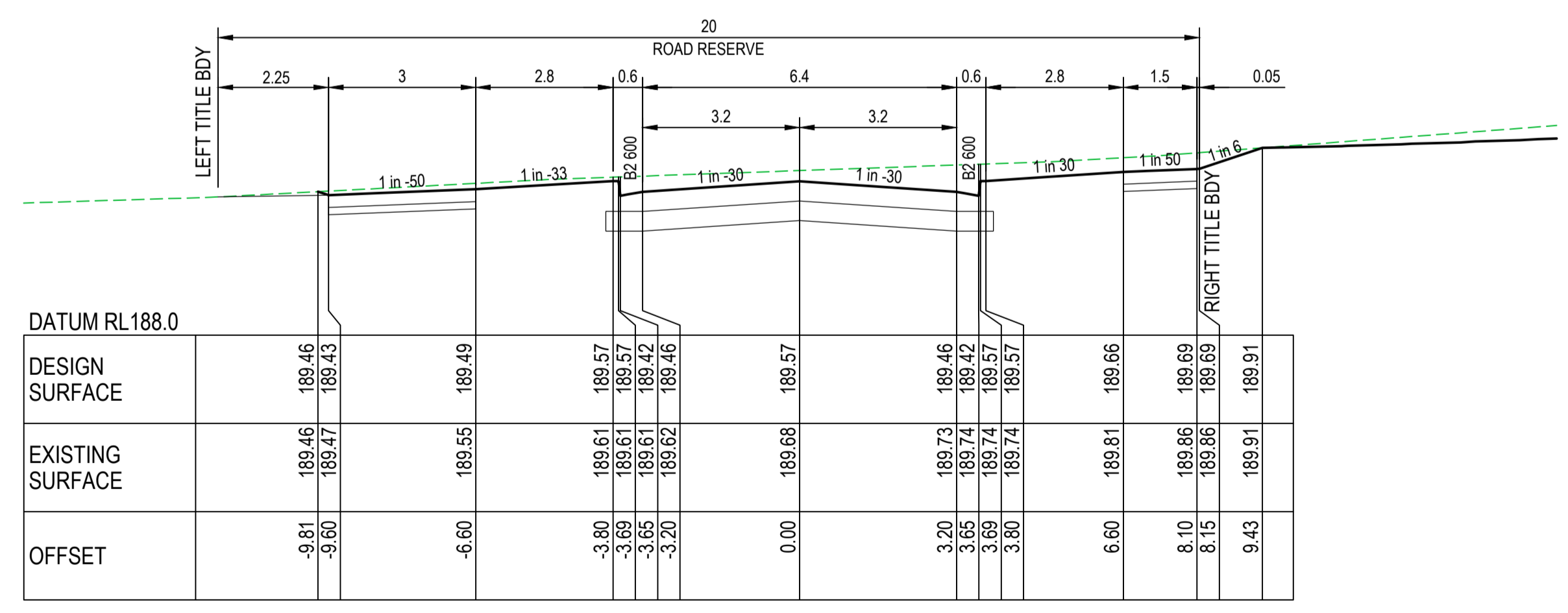
CH 422.15



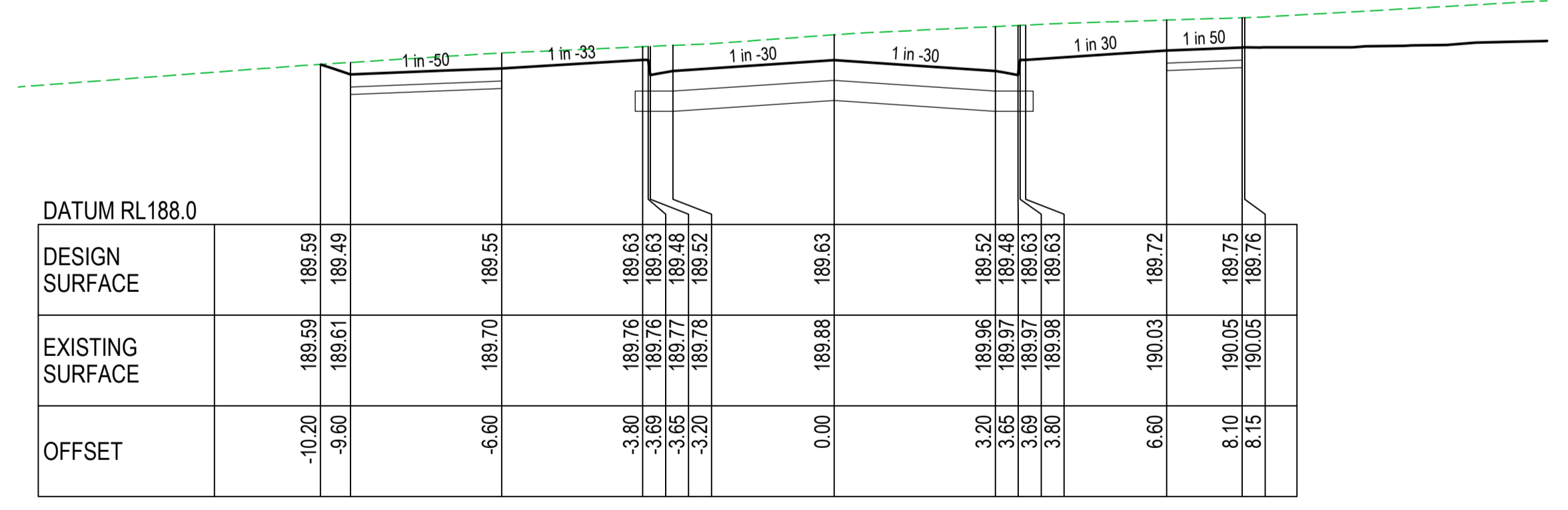
CH 403.63



CH 466.55

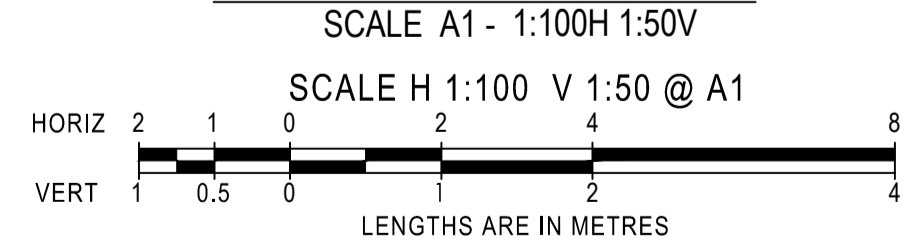


CH 372.67



CH 452.65

RIVERBED DRIVE
CROSS SECTIONS

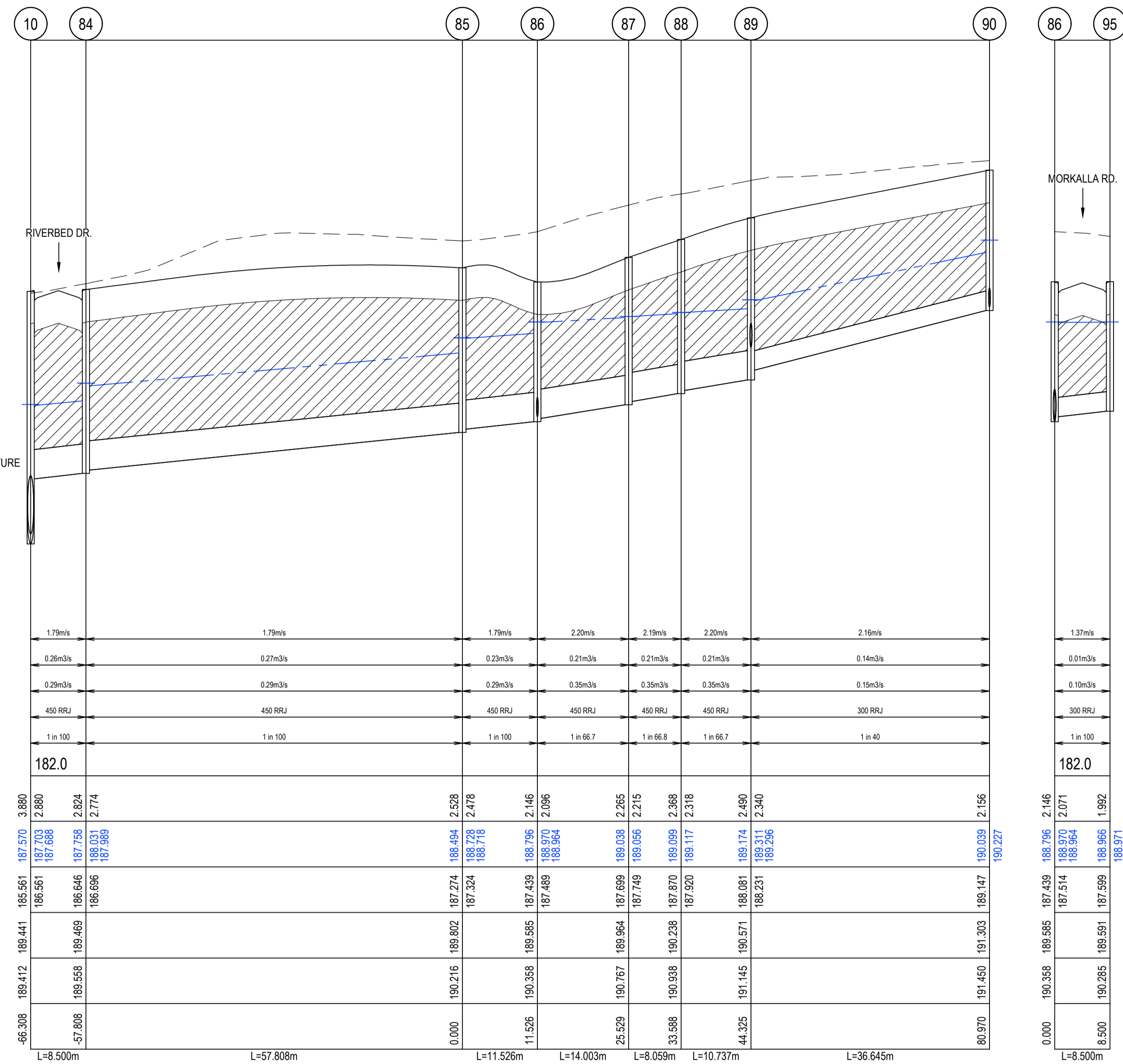
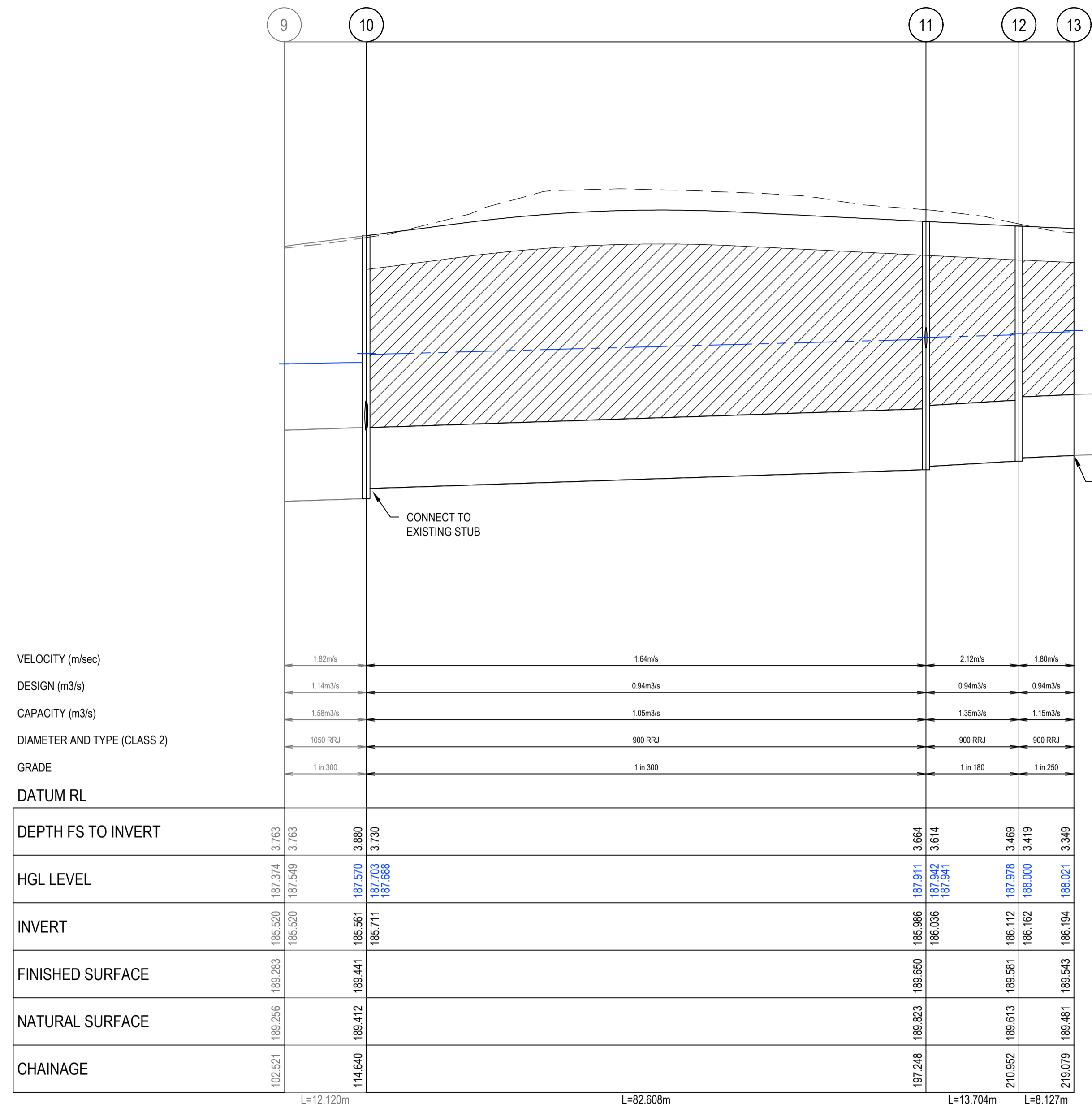


LEGEND:

- EXISTING SURFACE LEVEL
- DESIGN CENTRELINE
- TYPE A SELECTED MATERIAL FILL. LEVEL 1 SUPERVISION REQUIRED, IN ACCORDANCE WITH COUNCIL FILLING SPECIFICATION (CLAUSE 20.6)

		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.		SURVEY B.P.D.		MUNICIPALITY WHITTLESEA		
DESIGN B.P.D.		DRAWN M.T.		REFERENCE 9365 E/21		
CHECKED R.G.W.		SCALE AS SHOWN DATUM AHD		DATE Dec 23 SHEET 10 OF 15 P1		
AMENDMENTS	VER	DATE	REMARKS			

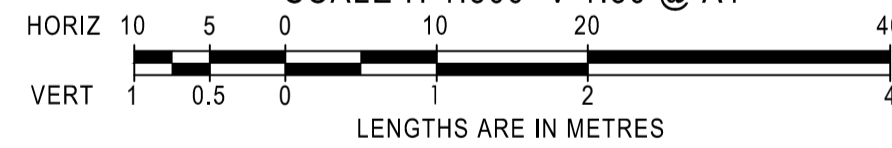
Printed Dec 18, 2023 1:02:28pm



DRAINAGE LONGITUDINAL SECTIONS

SCALE A1 - 1:500H 1:50V

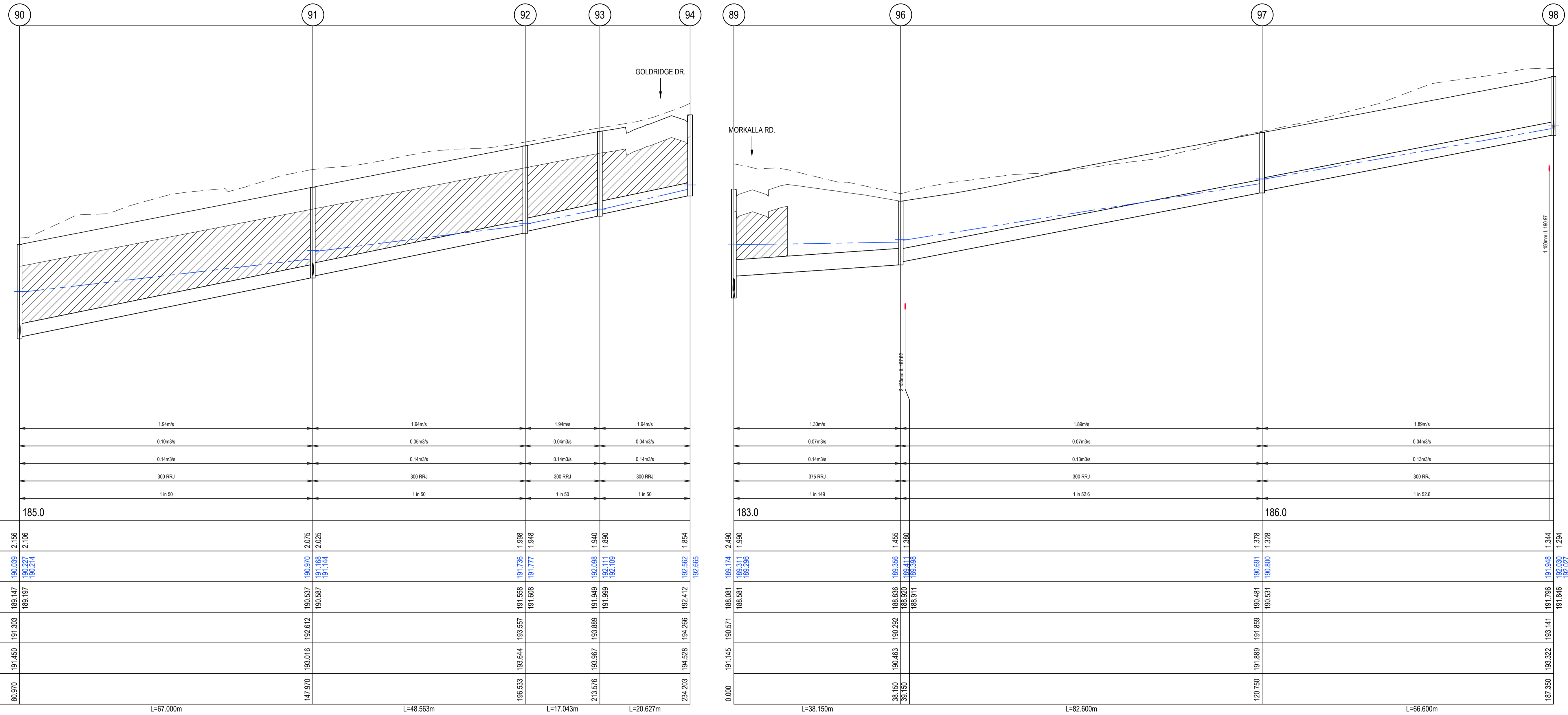
SCALE H 1:500 V 1:50 @ A1



LEGEND:

- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5 YEAR HGL
- INDICATES 10 YEAR HGL

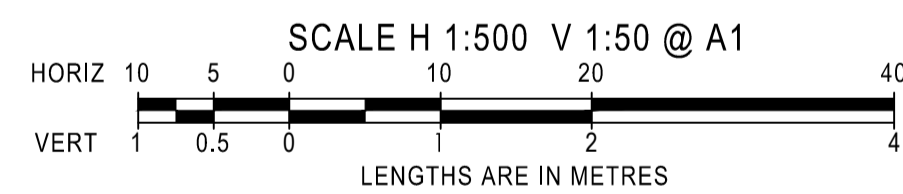
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF.		RATHDOWNE ESTATE STAGE 21		MUNICIPALITY WHITTLESEA	
SURVEY B.P.D.		DRAINAGE LONGITUDINAL SECTIONS - No.1		REFERENCE 9365 E/21	
DESIGN B.P.D.		SCALE AS SHOWN DATUM AHD		DATE Dec 23 SHEET 11 OF 15	
DRAWN M.T.		CHECKED R.G.W.		P1	
AMENDMENTS	VER	DATE	REMARKS	DATE	



VELOCITY (m/sec)	1.94m/s	1.94m/s	1.94m/s	1.94m/s	1.30m/s	1.89m/s	1.89m/s
DESIGN (m ³ /s)	0.10m ³ /s	0.09m ³ /s	0.04m ³ /s	0.04m ³ /s	0.07m ³ /s	0.07m ³ /s	0.04m ³ /s
CAPACITY (m ³ /s)	0.14m ³ /s	0.14m ³ /s	0.14m ³ /s	0.14m ³ /s	0.14m ³ /s	0.13m ³ /s	0.13m ³ /s
DIAMETER AND TYPE (CLASS 2)	300 RRJ	300 RRJ	300 RRJ	300 RRJ	375 RRJ	300 RRJ	300 RRJ
GRADE	1 in 50	1 in 50	1 in 50	1 in 50	1 in 149	1 in 52.6	1 in 52.6
DATUM RL	185.0				183.0		186.0
DEPTH FS TO INVERT	2.156 2.106	2.075 2.025	1.998 1.948	1.940 1.890	2.490 1.990	1.378 1.328	1.344 1.294
HGL LEVEL	190.039 190.277 190.274	190.970 191.168 191.144	191.736 191.777	192.098 192.111 192.109	188.174 188.311 188.296	190.691 190.800	191.948 192.030 192.027
INVERT	188.147 188.197	190.537 190.587	191.558 191.608	191.949 191.999	188.836 188.920 188.911	190.481 190.551	191.796 191.846
FINISHED SURFACE	191.503	192.612	193.557	193.889	190.571 190.571	191.659	193.141
NATURAL SURFACE	191.450	193.016	193.644	193.967	191.145	191.689	193.322
CHAINAGE	80.970	147.970	196.533	213.576	0.000	120.750	187.350
	L=67.000m	L=48.563m	L=17.043m	L=20.627m	L=38.150m	L=82.600m	L=66.600m

DRAINAGE LONGITUDINAL SECTIONS

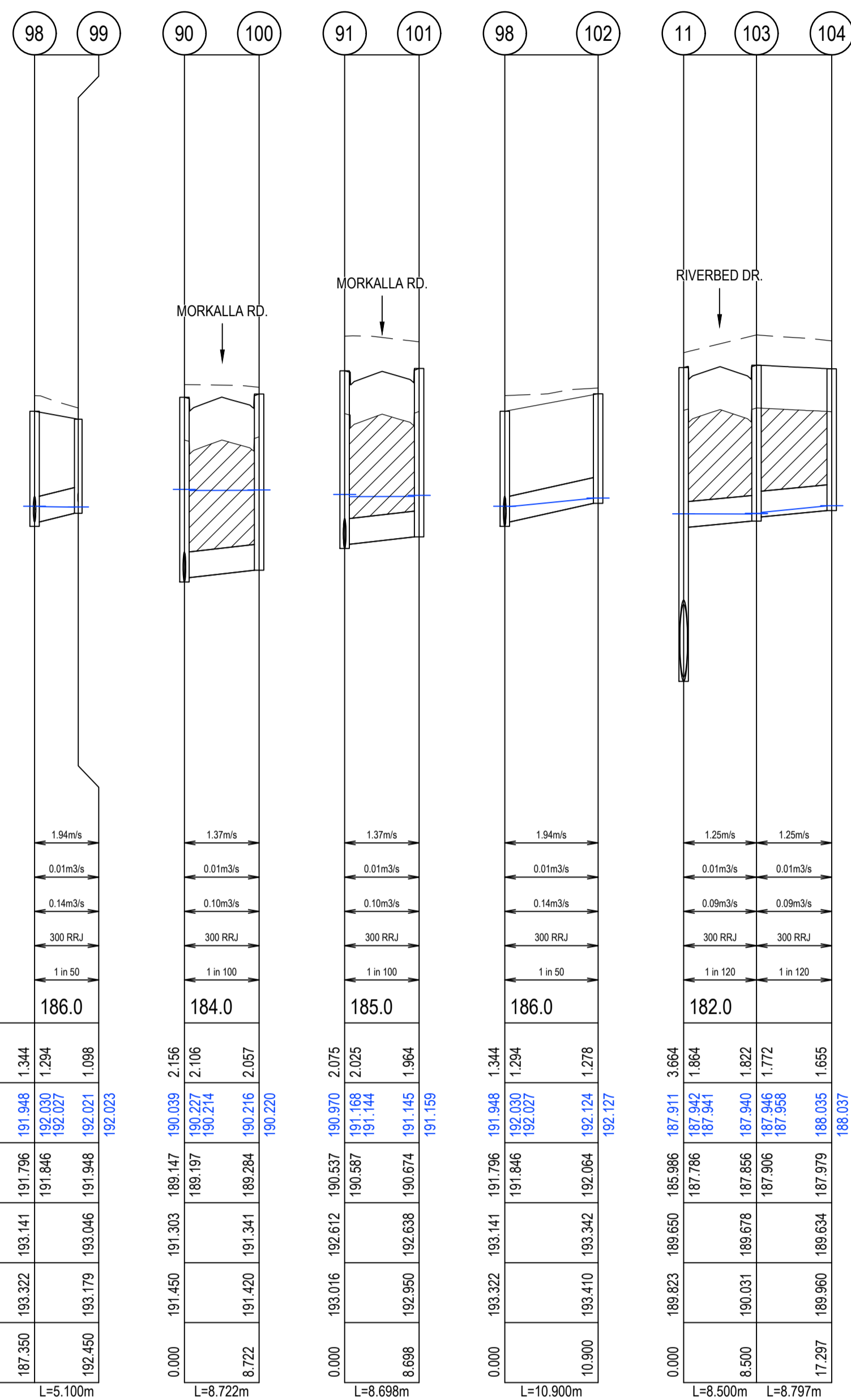
SCALE A1 - 1:500H 1:50V



LEGEND:

- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5 YEAR HGL
- INDICATES 10 YEAR HGL

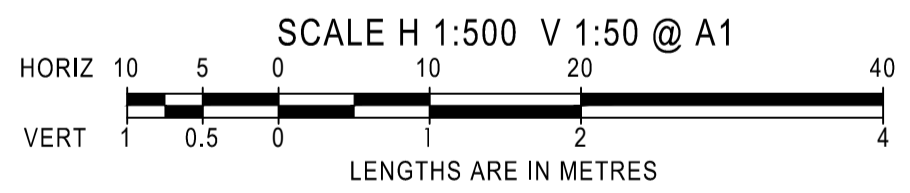
AMENDMENTS VER DATE REMARKS				breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 678-H8		RATHDOWNE ESTATE STAGE 21		MUNICIPALITY MACEDON RANGES	
		SURVEY B.P.D.		DRAINAGE LONGITUDINAL SECTIONS - No.2		REFERENCE 9987 E/21	
		DESIGN B.P.D.		SCALE AS SHOWN DATUM AHD		SHEET 12 OF 15 P1	
DRAWN M.T.		CHECKED J.TALBOT		DATE Dec 23		DATE Dec 23	



	98	99	90	100	91	101	98	102	11	103	104
VELOCITY (m/sec)	1.94m/s		1.37m/s		1.37m/s		1.94m/s		1.25m/s	1.25m/s	
DESIGN (m ³ /s)	0.01m ³ /s		0.01m ³ /s		0.01m ³ /s		0.01m ³ /s		0.01m ³ /s	0.01m ³ /s	
CAPACITY (m ³ /s)	0.14m ³ /s		0.10m ³ /s		0.10m ³ /s		0.14m ³ /s		0.09m ³ /s	0.09m ³ /s	
DIAMETER AND TYPE (CLASS 2)	300 RRJ		300 RRJ		300 RRJ		300 RRJ		300 RRJ	300 RRJ	
GRADE	1 in 50		1 in 100		1 in 100		1 in 50		1 in 120	1 in 120	
DATUM RL	186.0		184.0		185.0		186.0		182.0		
DEPTH FS TO INVERT		1.344		2.156		2.075		1.344		3.664	
HGL LEVEL		191.948		190.039		190.070		192.030		187.911	
INVERT		191.796		189.147		189.070		191.796		187.942	
FINISHED SURFACE	193.141	191.846	191.341	189.197	192.612	190.537	193.141	191.846	189.650	189.678	188.037
NATURAL SURFACE	193.322	193.179	191.420	191.303	193.016	192.950	193.410	193.342	190.823	190.031	189.960
CHAINAGE	187.350	192.450	8.722	0.000	0.000	8.698	0.000	10.900	0.000	8.500	17.297

DRAINAGE LONGITUDINAL SECTIONS

SCALE A1 - 1:500H 1:50V



- LEGEND:**
- INDICATES CRUSHED ROCK BACKFILL
 - INDICATES 5 YEAR HGL
 - INDICATES 10 YEAR HGL


		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. 678-H8		RATHDOWNE ESTATE STAGE 21		MUNICIPALITY MACEDON RANGES								
		SURVEY B.P.D.		DESIGN B.P.D.		REFERENCE 9987 E/21								
		DRAWN M.T.		DRAINAGE LONGITUDINAL SECTIONS - No.3		SHEET 13 OF 15								
AMENDMENTS	VER	DATE	REMARKS	CHECKED	J.TALBOT	SCALE	AS SHOWN	DATUM	AHD	DATE	Dec 23	SHEET	13 OF 15	P1

Printed Dec 18, 2023 11:27am

PIT SCHEDULE										
PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP	DEPTH	REMARKS
				INVERT	DIA	INVERT	DIA	PIT RL	INVERT	
10	SIDE ENTRY PIT	900	1200	185.711	900	185.561	1050	189.441	3.88	CONSTRUCT PIT OVER EXISTING STUB. EDCM 601 (HAUNCHED)
				186.561	450					
11	JUNCTION PIT	900	1200	186.036	900	185.986	900	189.65	3.664	EDCM STD DWG 605 (HAUNCHED)
				187.786	300					
12	JUNCTION PIT			186.162	900	186.112	900	189.581	3.469	EDCM STD DWG 605 (HAUNCHED)
13	END OF PIPE	900	1200	186.244	900	186.194	900	189.543	3.349	CAP PIPE FOR FUTURE CONNECTION
84	JUNCTION PIT	900	600	186.696	450	186.646	450	189.469	2.824	EDCM STD DWG 605
85	JUNCTION PIT	900	600	187.324	450	187.274	450	189.802	2.528	EDCM STD DWG 605
86	SIDE ENTRY PIT	900	600	187.489	450	187.439	450	189.585	2.146	
				187.514	300					
87	JUNCTION PIT	900	600	187.749	450	187.699	450	189.964	2.265	EDCM STD DWG 605
88	JUNCTION PIT	900	600	187.92	450	187.87	450	190.238	2.368	EDCM STD DWG 605
89	JUNCTION PIT	900	600	188.231	300	188.081	450	190.571	2.49	EDCM STD DWG 605
				188.581	375					
90	SIDE ENTRY PIT	900	600	189.197	300	189.147	300	191.303	2.156	EDCM STD DWG 601
				189.197	300					
91	SIDE ENTRY PIT	900	600	190.587	300	190.537	300	192.612	2.075	EDCM STD DWG 601
				190.587	300					
92	SIDE ENTRY PIT	900	600	191.608	300	191.558	300	193.557	1.998	EDCM STD DWG 601
93	JUNCTION PIT	900	600	191.999	300	191.949	300	193.889	1.94	EDCM STD DWG 605
94	SIDE ENTRY PIT					192.412	300	194.266	1.854	EDCM STD DWG 601
95	SIDE ENTRY PIT					187.599	300	189.591	1.992	EDCM STD DWG 601
96	JUNCTION PIT	900	600	188.911	300	188.836	375	190.292	1.455	EDCM STD DWG 605
97	JUNCTION PIT	900	600	190.531	300	190.481	300	191.859	1.378	EDCM STD DWG 605
98	JUNCTION PIT	900	600	191.846	300	191.796	300	193.141	1.344	EDCM STD DWG 605
				191.846	300					
99	JUNCTION PIT	900	600			191.948	300	193.046	1.098	EDCM STD DWG 605
100	SIDE ENTRY PIT	900	600			189.284	300	191.341	2.057	EDCM STD DWG 601
101	SIDE ENTRY PIT	900	600			190.674	300	192.638	1.964	EDCM STD DWG 601
102	JUNCTION PIT	900	600			192.064	300	193.342	1.278	EDCM STD DWG 605
103	JUNCTION PIT	900	600	187.906	300	187.856	300	189.678	1.822	EDCM STD DWG 605
104	JUNCTION PIT	900	600			187.979	300	189.634	1.655	EDCM STD DWG 605

STORMWATER PIT NOTES:

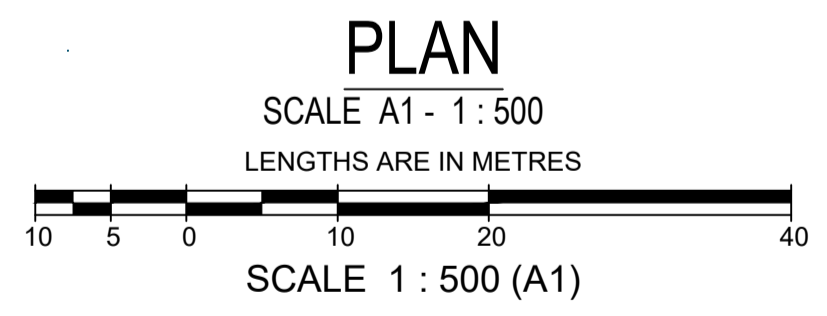
- ALL PITS TO BE RENDERED & MORTARED WITH FLAT BASE (NO CHASE). PIT BASES ARE TO BE FLUSH WITH PIPE INVERTS
- ALL PIPES TO BE CUT FLUSH WITH PIT WALL
- ALL PIT COVERS TO BE FIBRE GLASS TYPE ONLY
- ALL GRATED PIT COVERS TO BE PEDESTRIAN & CYCLIST SAFE

		 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	
				REFERENCE	
				9365 E/21	
AMENDMENTS		MELWAY REF. -	RATHDOWNE ESTATE STAGE 21 DRAINAGE PIT SCHEDULE		DATE
		SURVEY B.P.D.			Dec 23
		DESIGN B.P.D.			
		DRAWN M.T.			
VER	DATE	CHECKED R.GOULD-WILLIAMS	SCALE AS SHOWN	DATUM AHD	SHEET 14 OF 15
					P1



LEGEND - SIGNAGE

A STREET SIGNS	BICYCLE PEDESTRIAN WARNING SIGN - CLASS 1
B TURN SIGNS (W1-1AL & W1-1AR) - CLASS 1 WITH 20km/h SPEED ADVISORY SIGN (W8-2A)	CROSSING ARROW SIGN - CLASS 1
W1-1A (L) W1-1A (R)	E PAINTED SHARED PATH WITH DIRECTION ARROWS
W8-2A W8-2A	F PAINTED SHARED PATH WITH DIRECTION ARROWS
C GIVE WAY SIGN - CLASS 1	NOTES:
D ROAD CLOSED SIGN (G9-20) WITH OBSTRUCTION MARKER SIGN (D4-5) - CLASS 1	a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE WITH A MINIMUM OF 2 WEDGES
ROAD CLOSED OBSTRUCTION MARKER SIGN	b) ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH MCC205
	c) INDICATES UNI-DIRECTIONAL & BI-DIRECTIONAL RRPMS PLACED AT 3m CTRS
	d) SWLM - INDICATES SOLID WHITE 'LONGLIFE' LINEMARKING. BWLM - INDICATE BROKEN WHITE 'LONGLIFE' LINEMARKING



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. -	RATHDOWNE ESTATE STAGE 21 SIGNAGE & LINEMARKING PLAN	MUNICIPALITY	
				SURVEY B.P.D.		WHITTLESEA	
				DESIGN B.P.D.	REFERENCE		
	DRAWN M.T.	9365 E/21					
		CHECKED R.GOULD-WILLIAMS	SCALE AS SHOWN	DATUM AHD	DATE Dec 23	SHEET 15 OF 15	P7