

**LOCALITY PLAN**  
SCALE: 1:20,000  
MELWAYS: 388 C 10

**SHEET INDEX**

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**AS CONSTRUCTED**

**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.

**ATTENTION TO CONTRACTOR**

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

**SYMBOL LEGEND**

Prop	Prop Stage	Ex Natural/FS Level	-28.57	-28.57
Prop	Prop Stage	FS @ Building Line	-28.28.57	-28.28.57
Sewer < 3000		Top/Toe Batter Level	+TOP28.57	+TOP27.57
Sewer > 3000		Top/Bottom RW Level	+TW28.57	+BW27.57
Water (DW)		100yr Flood Level	+FL28.57	
Water (NDW)		Fill Proposed (<0.3m@2.0.3m)		
House Drain		Cut Proposed		
Property Inlet		Asphalt Surface Prop		
Street Sign		Concrete Surface Prop (Paths/Driveways/Slats)		
FSM		Tree To Be Removed		
Rock Ret Wall		Tree To Be Retained with Tree Protection Zone (TPZ)		
Sleeper Ret Wall				
Conduits 50mm				
Conduits 100mm				
Street Tree without/with Passive Irrigation (Refer Detail)				
Ex Drains				
Ex Water D/W/DW				
Ex Sewer/Gas				
Ex Elect/Comm				

**SERVICES OFFSETS AND LOCATIONS**

Location	Gas	Water		Communications		Electricity		BOK	Road Width	Joint Trenching	Street Classification	Street Trees
		NDW	DW	Cables	Pits	Cables	Poles					
SADDLEDOME WAY (East/West)	2.10 N	2.60 N	3.10 N	1.80 S	1.80 N/S	2.60 S	1.00 BOK	4.35S, 2.55N	14.50	GW, FTT/H/E	LEVEL 1	NS CENTRE
RIVERBED DRIVE	2.10 N	2.60 N	3.10 N	1.80 S	1.80 N/S	2.60 S	1.00 BOK	4.05S, 4.35N	16.00	GW, FTT/H/E	LEVEL 1	NS CENTRE
VEARINGS ROAD (North/South)	3.60 W	4.05 W	4.50 W	1.80 E	1.80E/3.20W	2.60 E	1.00 BOK	8.15W, 4.85E	20.60	GW, FTT/H/E	LEVEL 1	NS CENTRE
FOSSE LANE									8.00			
VOYAGER DRIVE	2.25 E	2.70 E	3.20 E	1.80 W	1.80 E/W	2.60 W	1.00 BOK	4.55E, 8.55W	25.00	GW, FTT/H/E	COLLECTOR	NS CENTRE
VEARINGS ROAD (GREENLINK)	Ex.1.70 E	Ex.2.10 E	Ex.2.55 E	Ex.1.80 W	Ex.1.80 E/W	Ex.2.60 W	1.00 BOK			GW, FTT/H/E		

AMENDMENTS	DATE	ISSUE FOR CONSTRUCTION	REMARKS	CHECKED
D	08/11/22	LOT 1416 DRIVEWAY SWAP		
C	03/11/22	SHEET 14 SAW CUT PLAN ADDED		
B	28/04/22	SEWER MAIN EXTENSION		
A	17/02/22	ISSUE FOR CONSTRUCTION		

**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 14**

MELWAY REF. 388-C-10  
SURVEY BPD  
DESIGN GL  
DRAWN PG

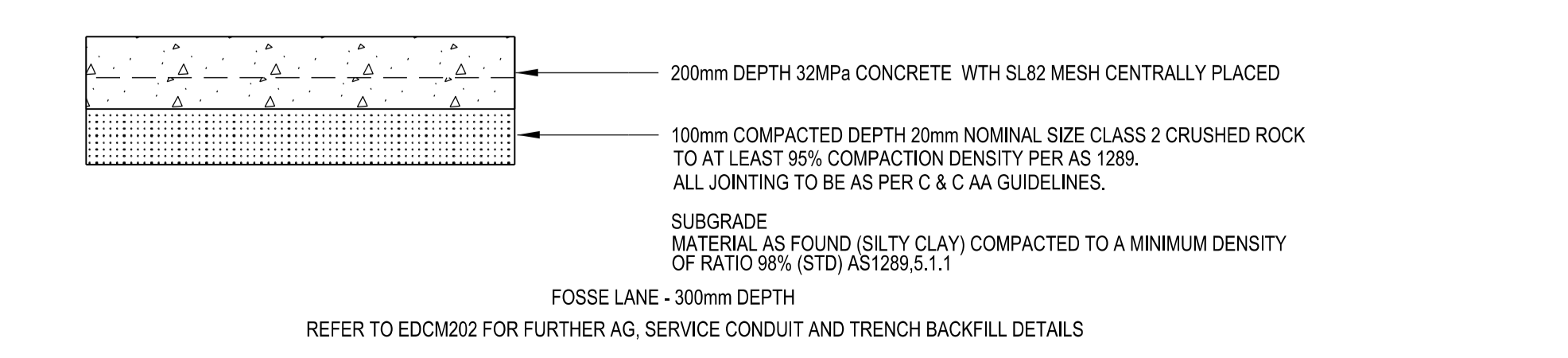
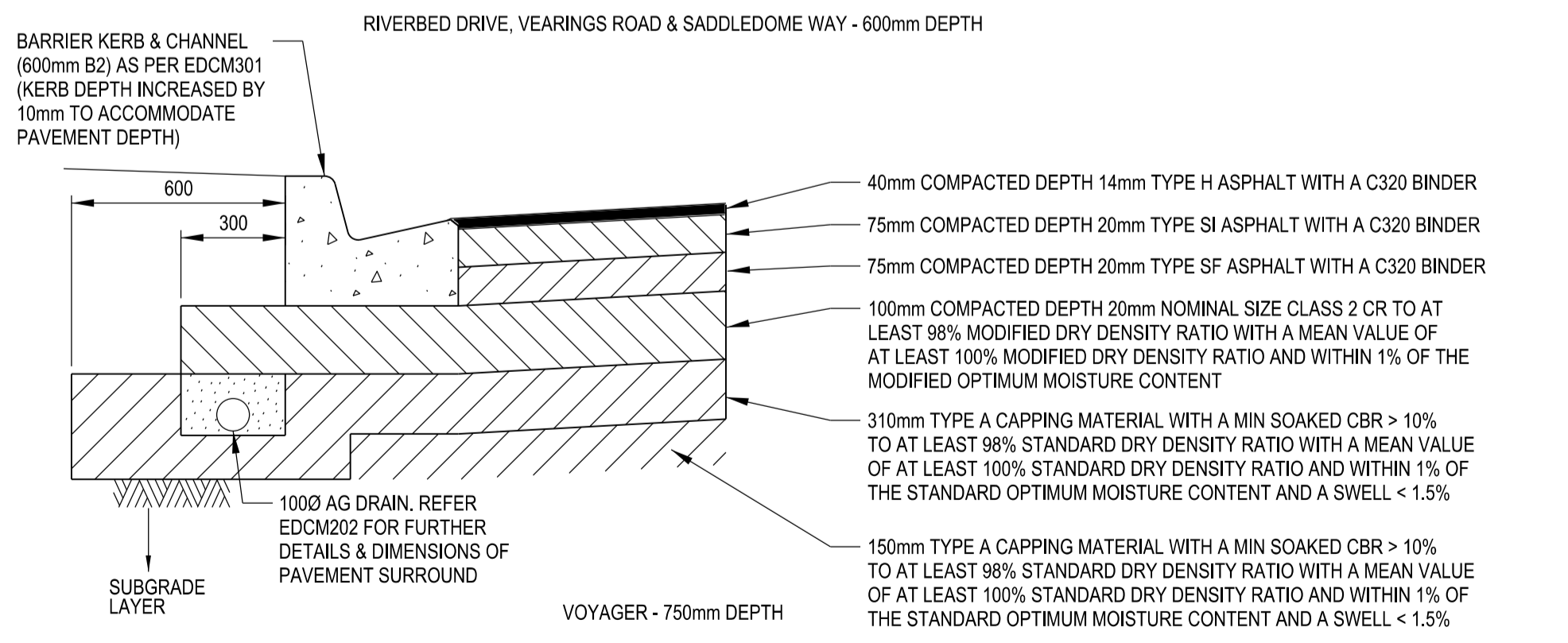
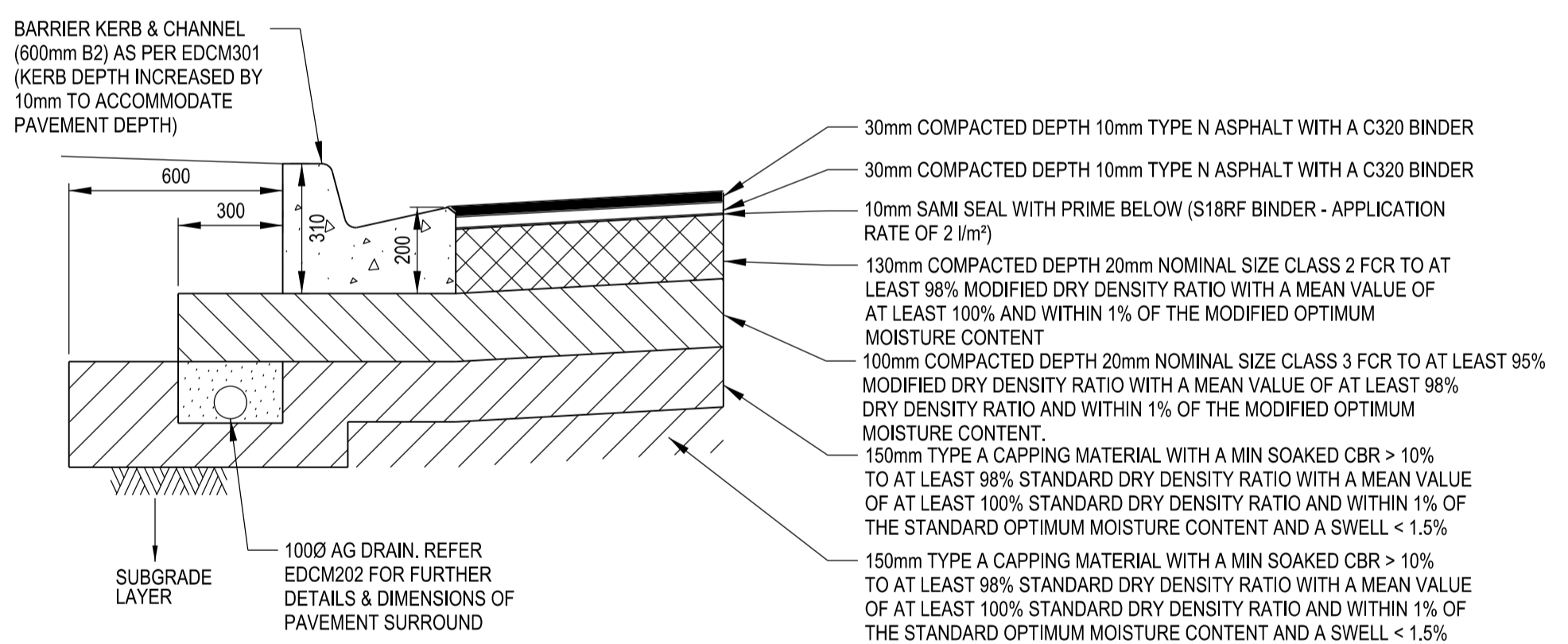
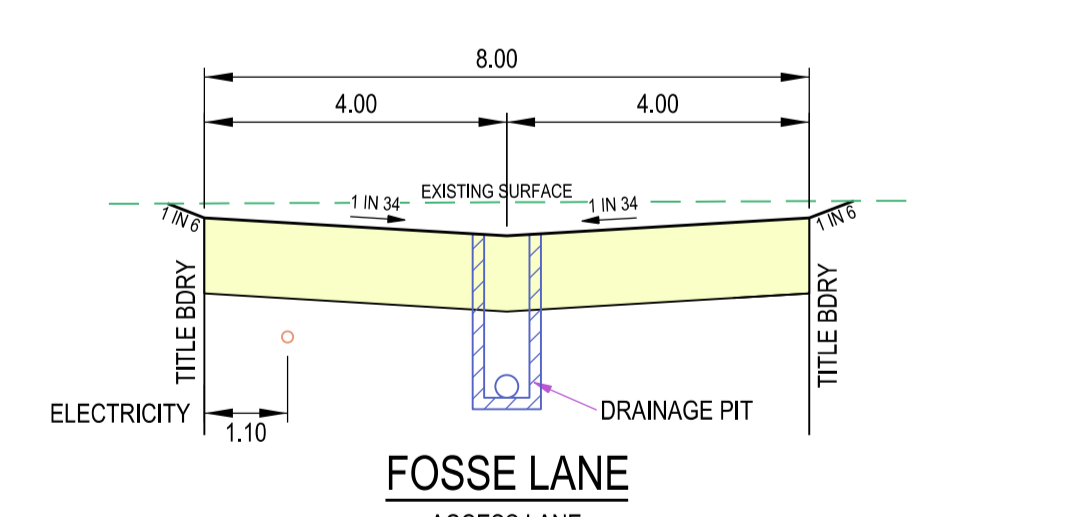
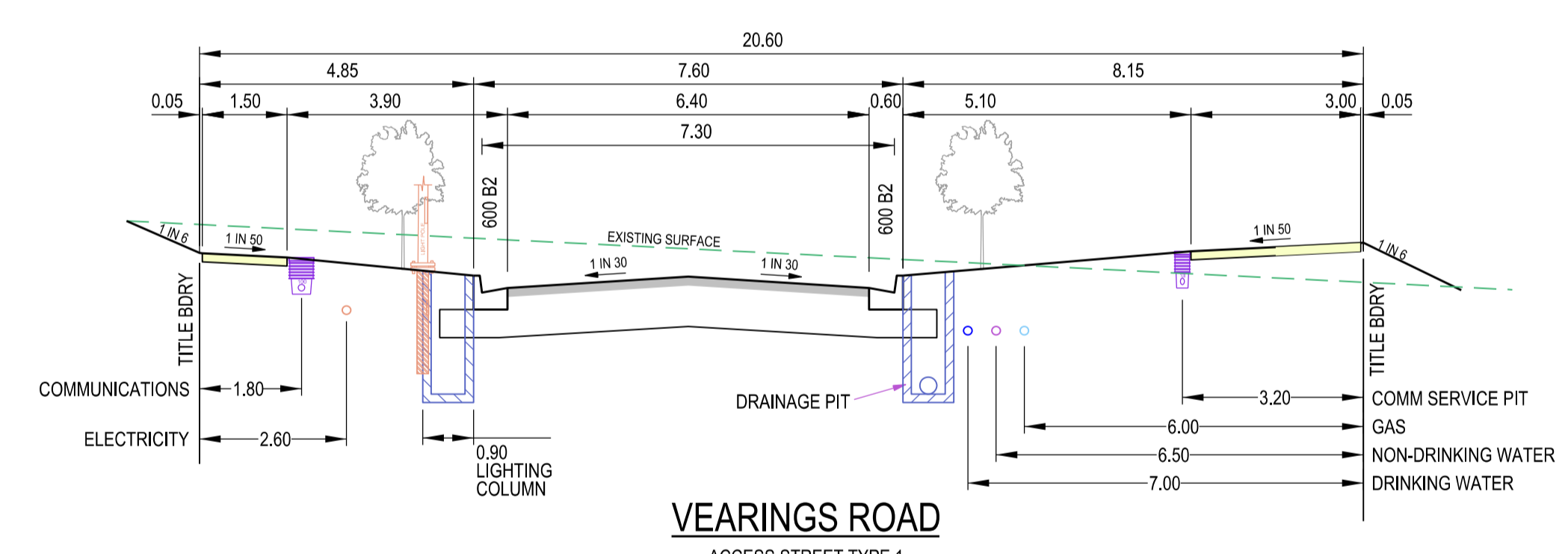
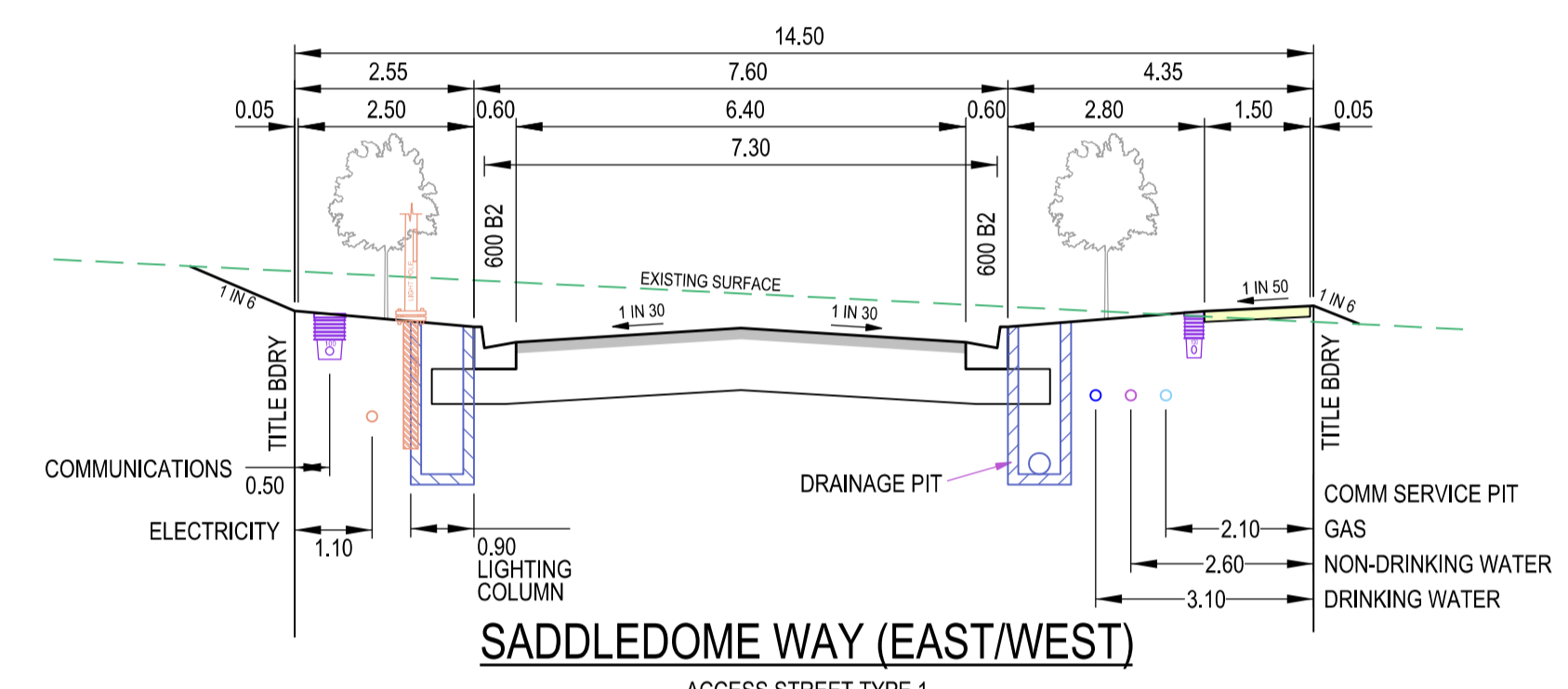
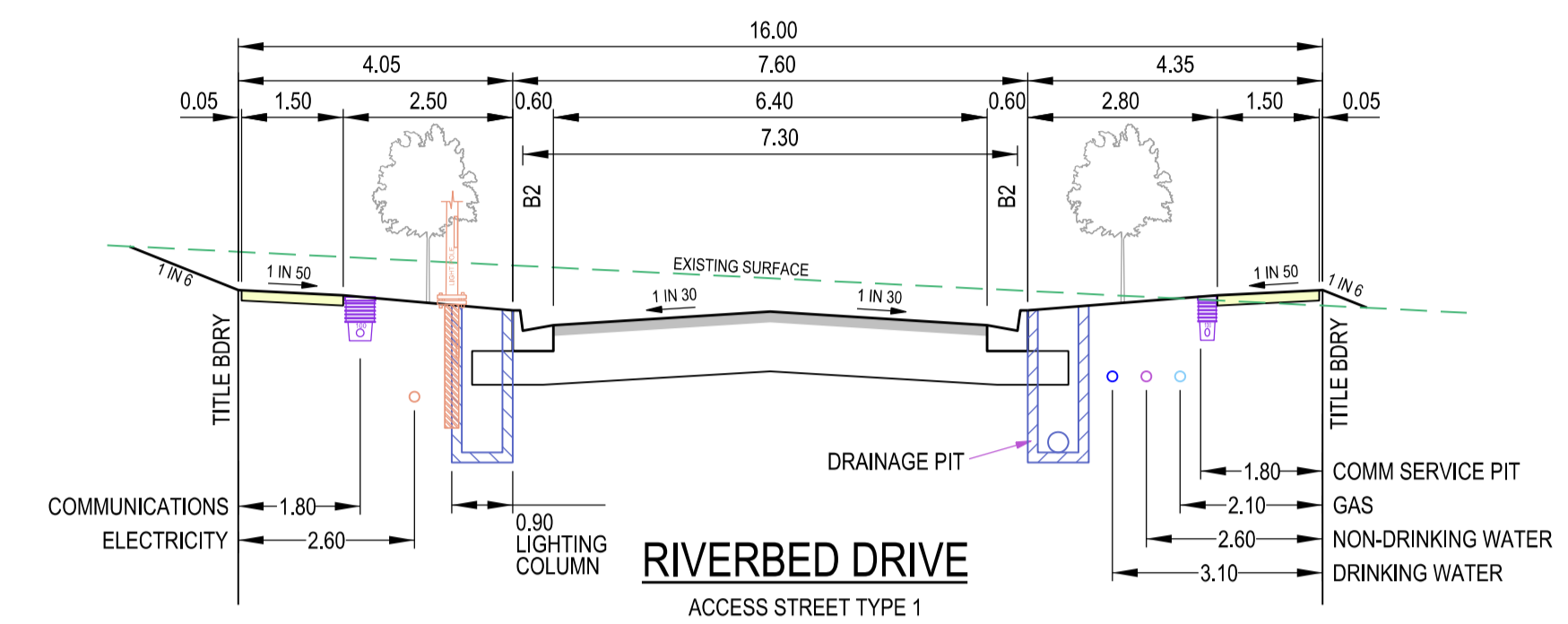
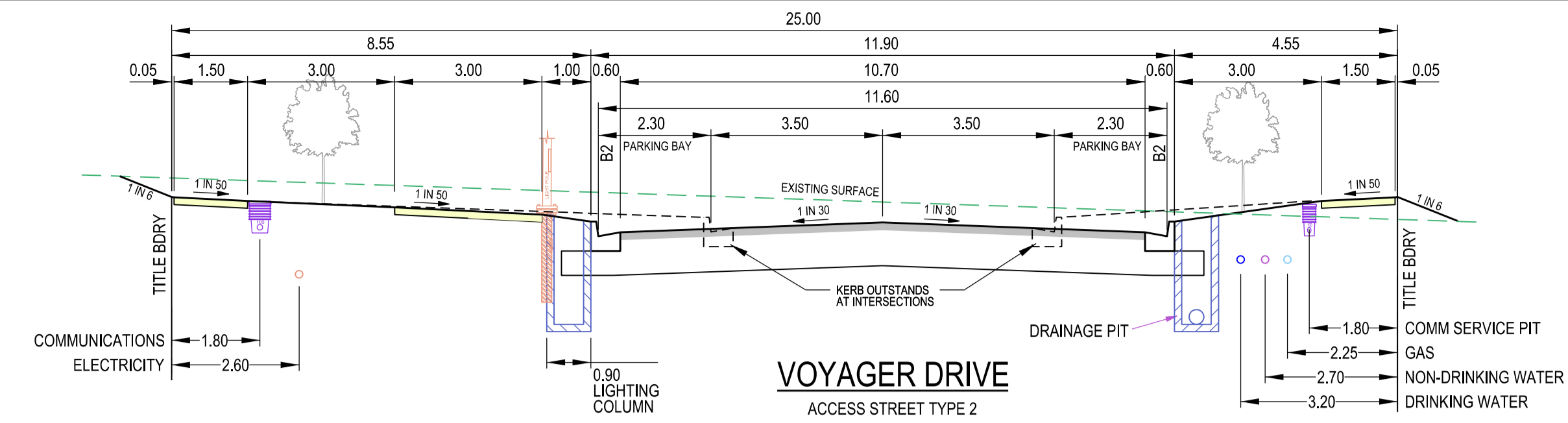
MUNICIPALITY WHITTLESEA  
REFERENCE 9365 E/14

SCALE AS SHOWN DATUM AHD DATE OCT '21 SHEET 1 OF 14 D

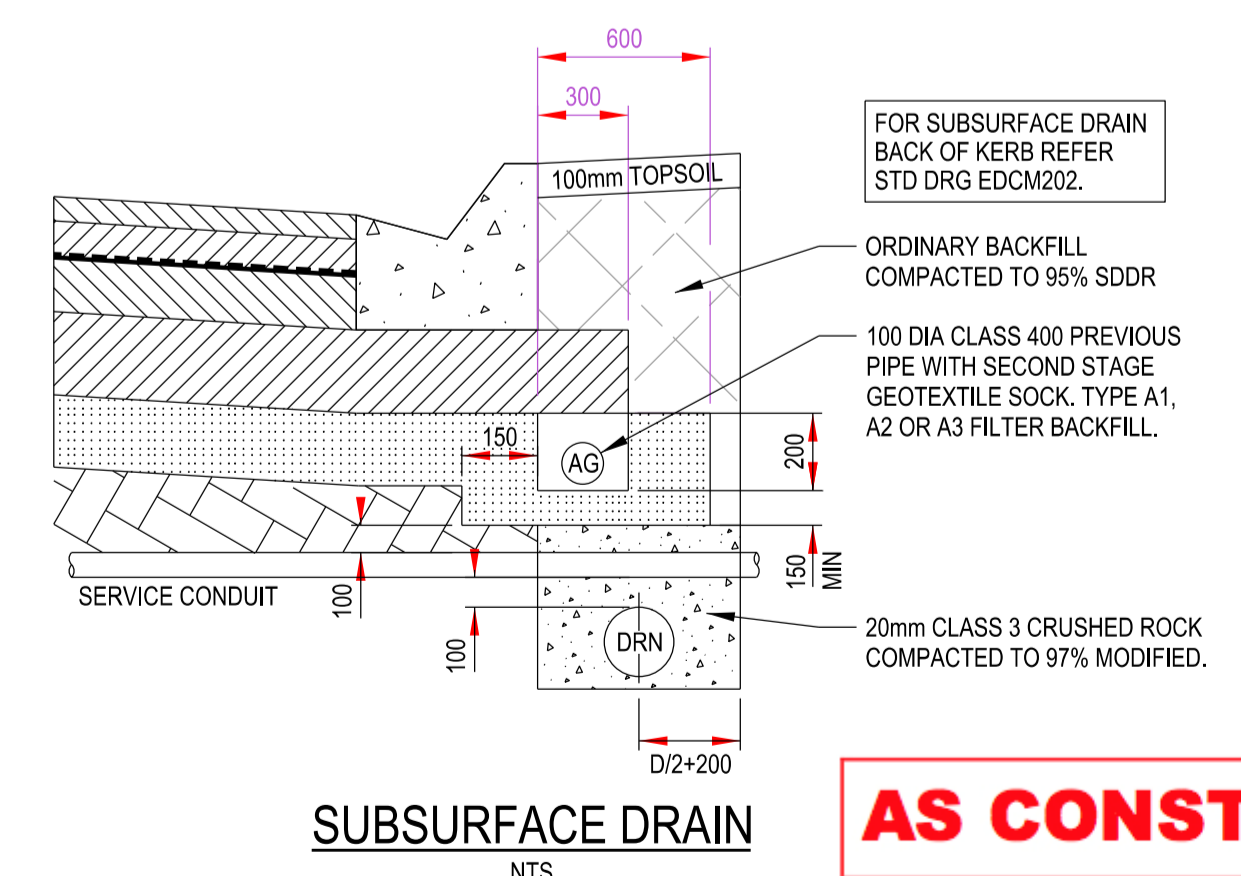
**NOTES**

- 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 SETOUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. REFER EDM601-808 FOR FURTHER DETAILS.
- ALL PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED AND SHALL BE R/RJ UP TO AND INCLUDING 750mm DIAMETER. PIPES ABOVE THIS SIZE MUST BE FLUSH JOINED 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 (RRJ/S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES)
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.
- LOTS DENOTED THIS 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 KERBS & 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.
- TELSTRAININ 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 SD825, 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 DESCRIPTIONS AND TESTING METHODS 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 MICROROADS 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-INSTATEMENT AT THE CONTRACTORS EXPENSE.

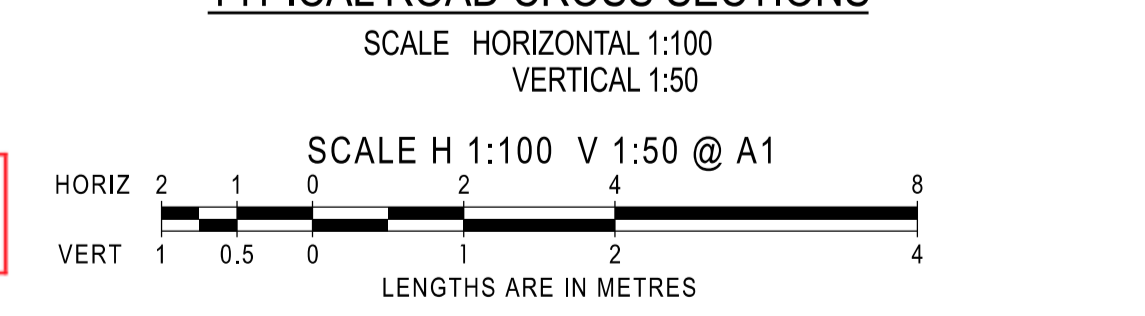
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL 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 SDL.2.02)
  - 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 SDL.2.03)
- 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 (TGS) 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.



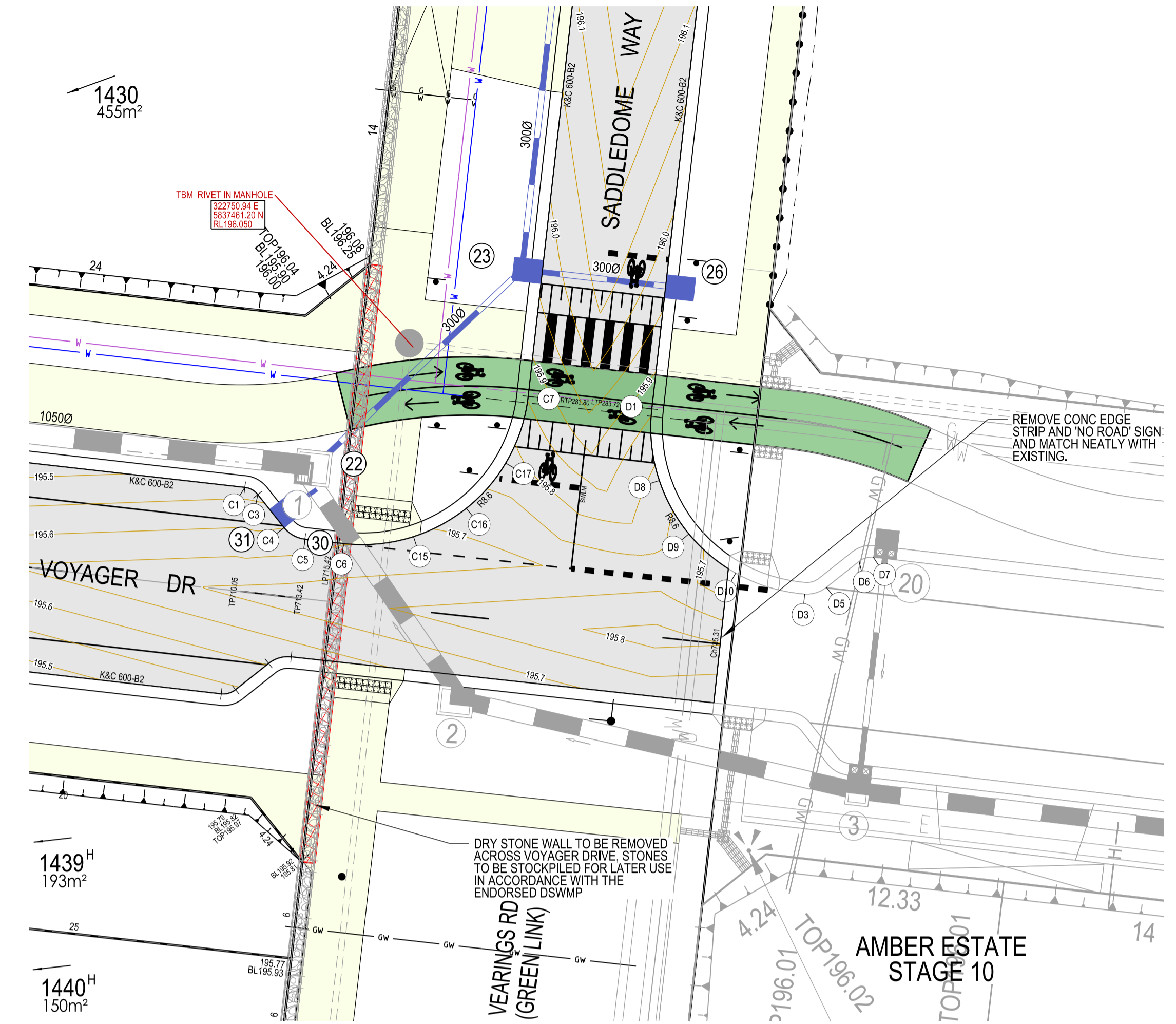
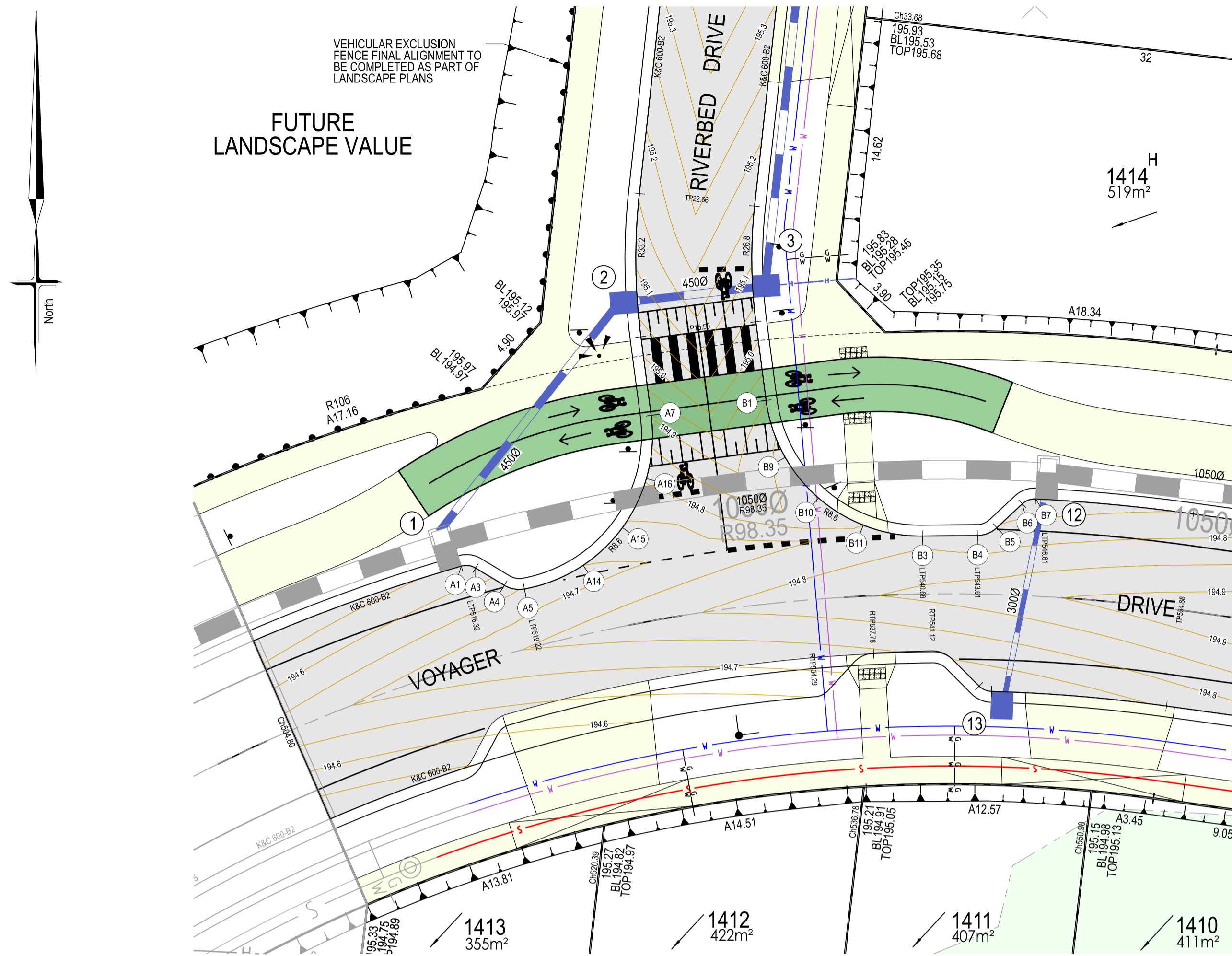
**PAVEMENT COMPOSITION**  
(Dimensions in millimetres)  
(N.T.S.)



**AS CONSTRUCTED**



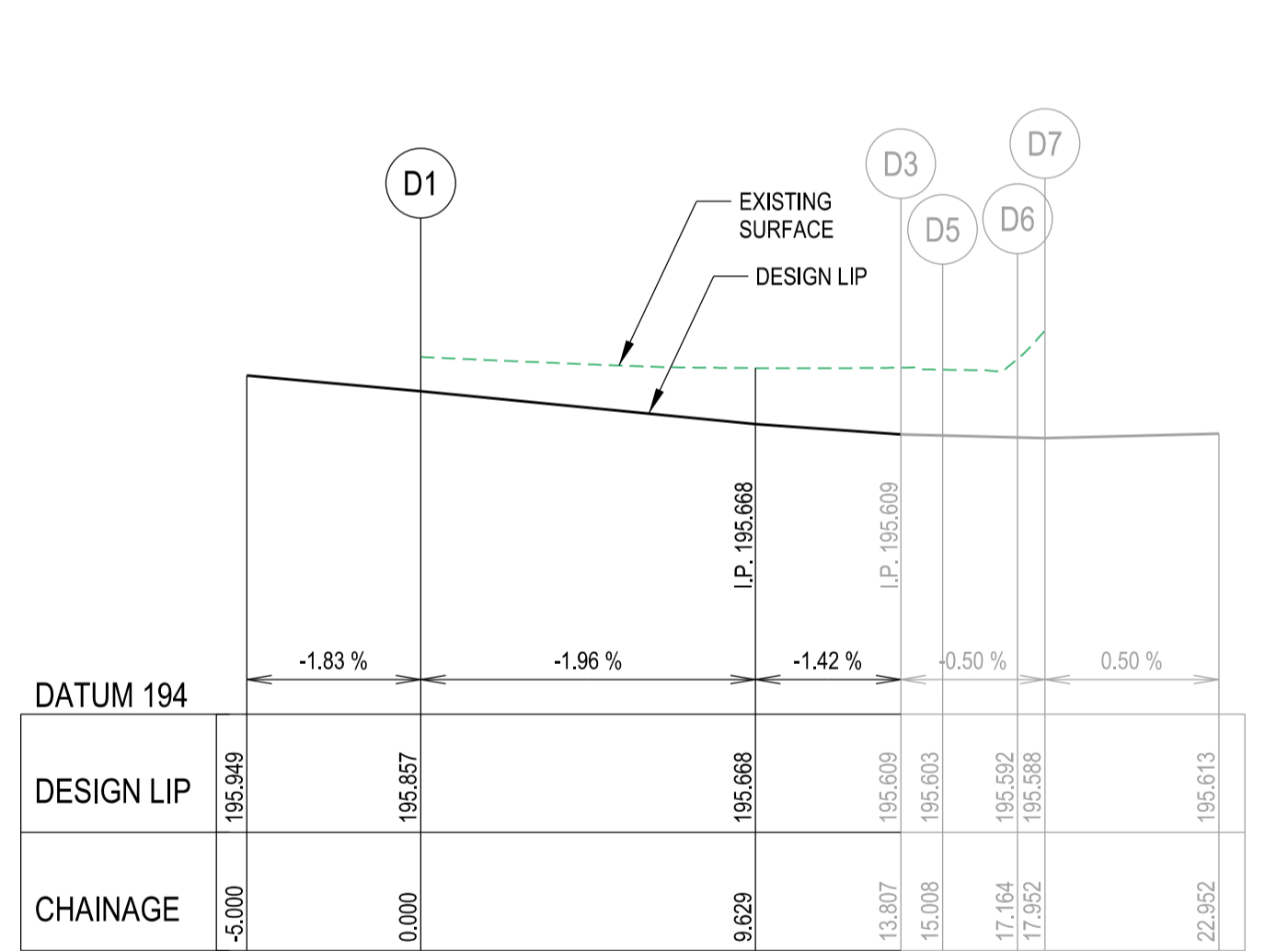
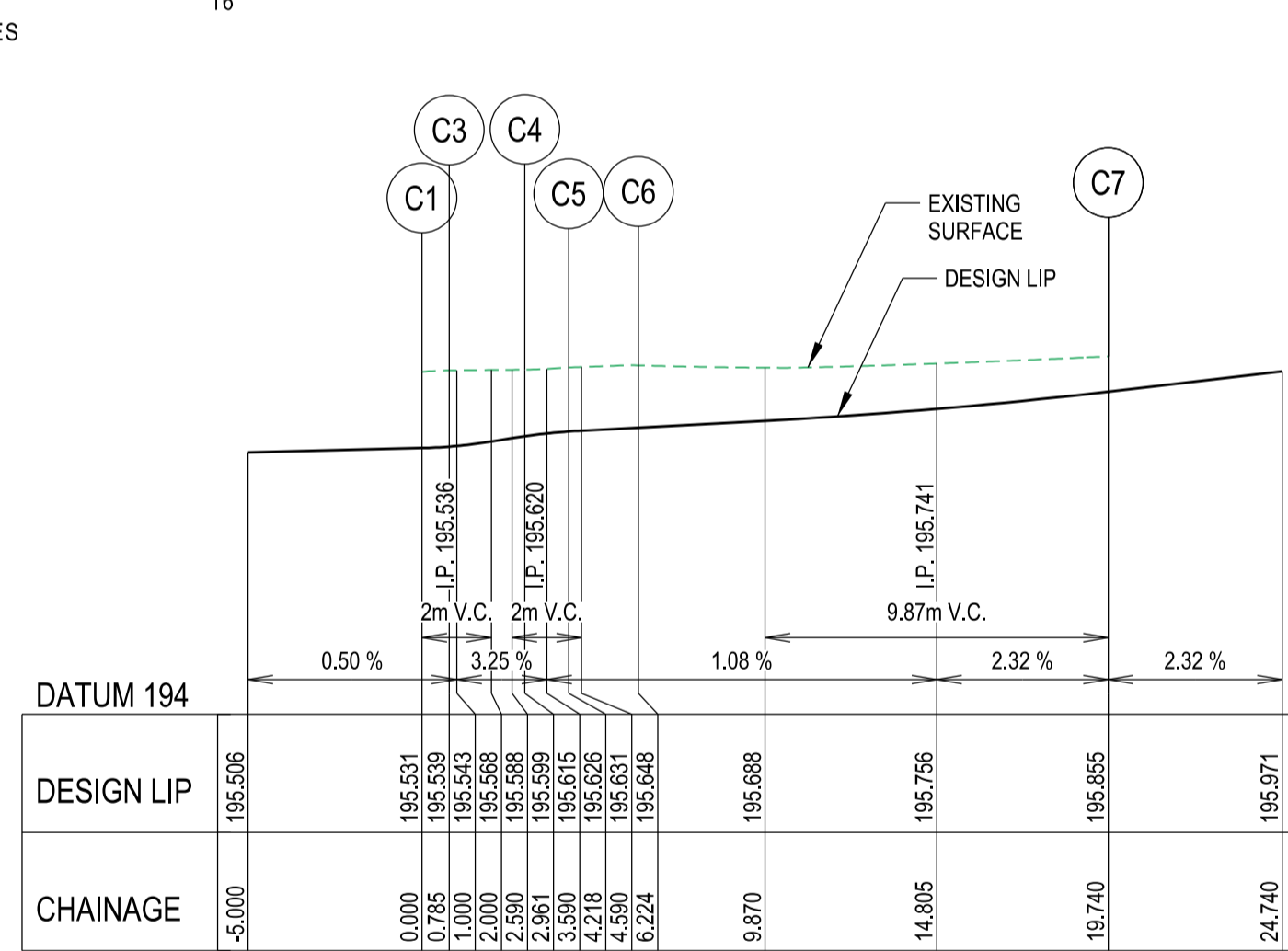
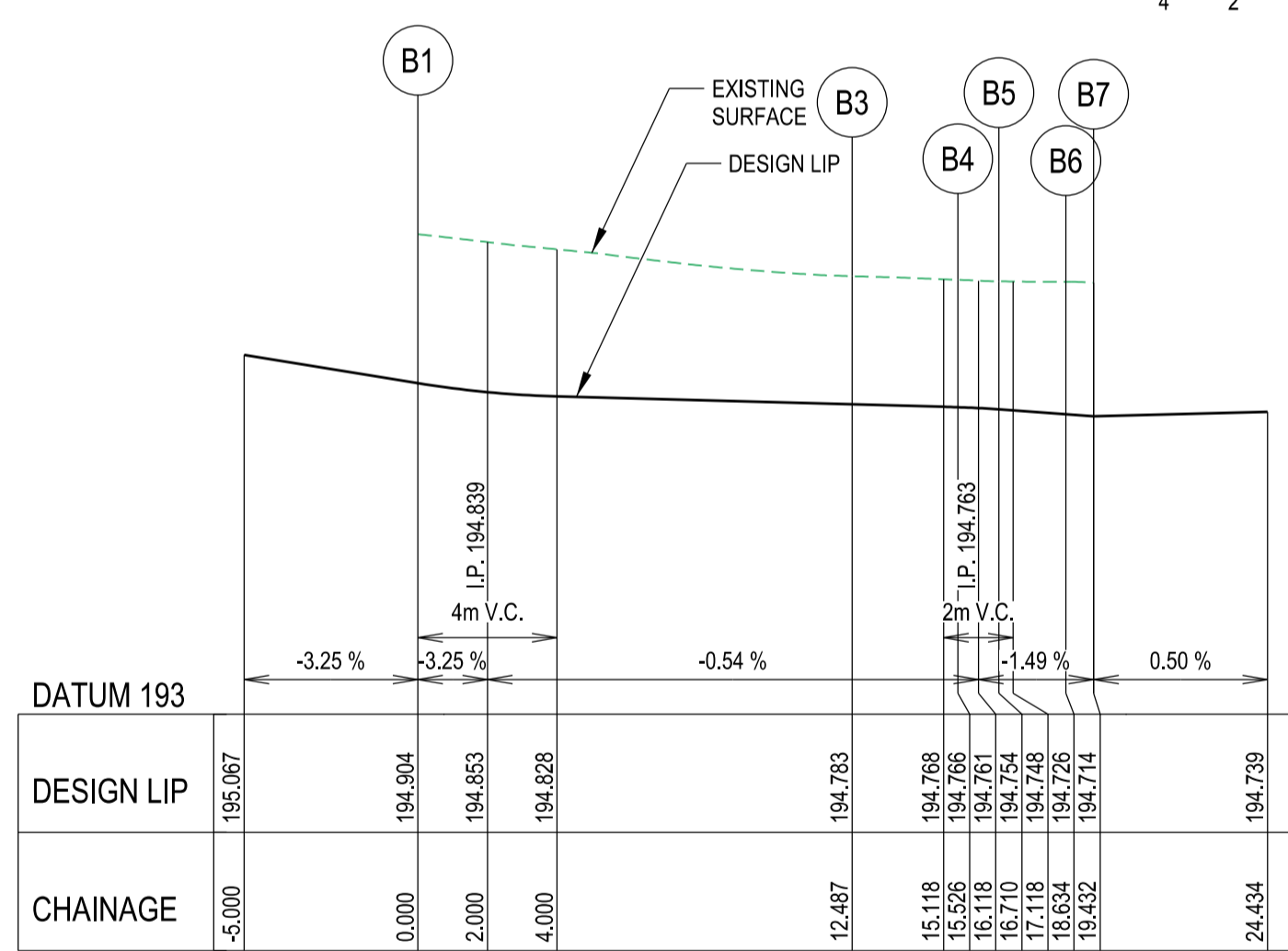
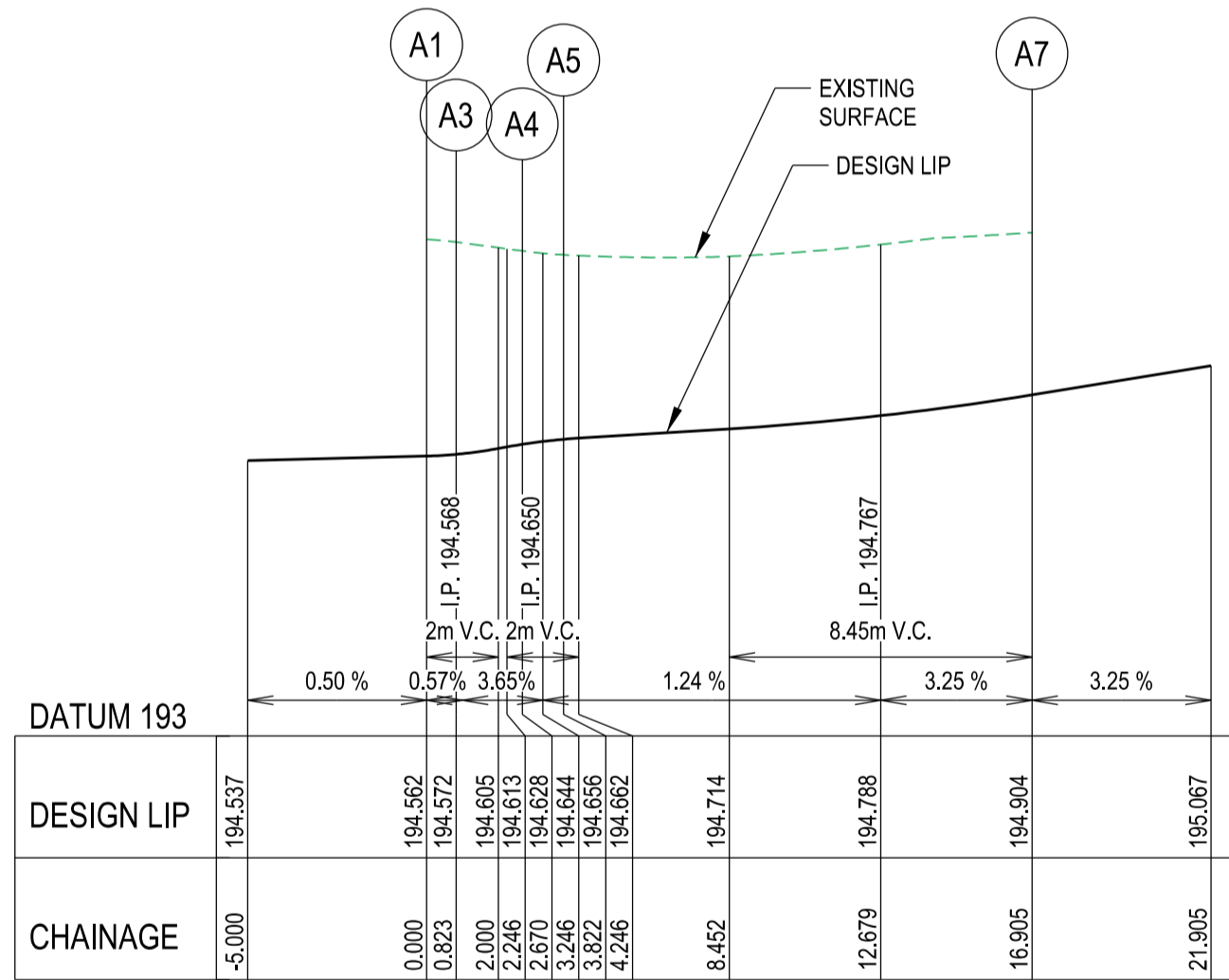
AMENDMENTS				<p><b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers</p>	1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
						MELWAY REF. 388-C-10 SURVEY BPD DESIGN GL	<b>RATHDOWNE ESTATE</b> STAGE 14	MUNICIPALITY WHITTLESEA REFERENCE 9365 E/14
	A	17/02/22	ISSUE FOR CONSTRUCTION			DRAWN PG		
	VER	DATE	REMARKS			CHECKED		



INTERSECTION DETAILS

SCALE 1:200

SCALE 1:200 @ A1



Alignment E

Point no	Easting	Northing	RL
1	322573.788	5837577.900	196.293
2	322581.364	5837568.421	195.905
3	322574.157	5837574.311	196.212
4	322575.619	5837571.596	196.089
7	322577.945	5837569.572	195.969

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
E 2 3	-8.600	12.133	2.505	1.952	196.089

Alignment B

Point no	Easting	Northing	RL
B 1	322564.764	5837478.748	194.904
3	322573.367	5837471.262	194.733
4	322576.425	5837471.295	194.766
5	322577.500	5837471.726	194.754
6	322578.305	5837473.039	194.726
7	322579.635	5837473.307	194.714
9	322565.818	5837475.607	194.833
10	322567.654	5837473.367	194.816
11	322570.129	5837471.864	194.800

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
B 2 3	-8.600	11.419	2.169	1.681	194.816
B 4 9	-1.600	1.157	0.108	0.082	194.761
B 6 7	1.000	0.777	0.079	0.060	194.720

Alignment C

Point no	Easting	Northing	RL
C 1	322742.259	5837453.965	195.531
3	322742.938	5837453.614	195.538
4	322744.283	5837451.911	195.599
5	322745.354	5837451.317	195.626
6	322747.347	5837451.090	195.648
7	322756.865	5837458.669	195.855
8	322750.951	5837451.447	195.688
15	322753.676	5837452.907	195.727
16	322755.709	5837455.237	195.779

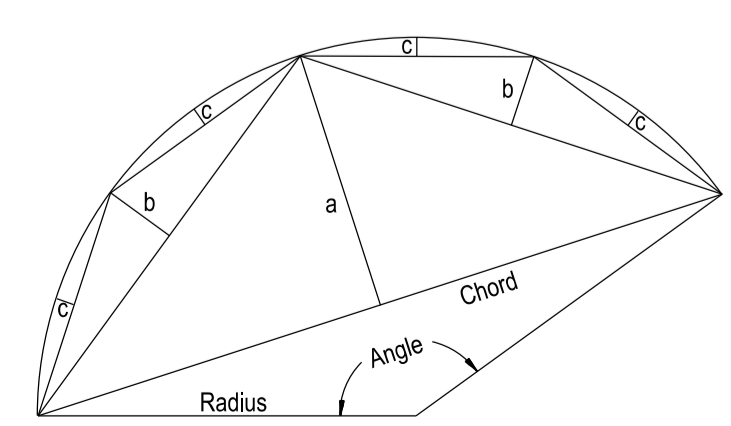
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
C 2 3	1.000	0.765	0.076	0.058	195.534
C 4 9	-1.600	1.225	0.122	0.092	195.615
C 6 7	-8.600	12.166	2.521	1.965	195.727

Alignment D

Point no	Easting	Northing	RL
D 1	322763.233	5837458.030	195.857
3	322771.109	5837448.491	195.609
5	322772.231	5837448.834	195.603
6	322773.918	5837450.176	195.592
7	322774.696	5837450.387	195.588
8	322783.622	5837454.340	195.784
9	322765.147	5837451.589	195.722
10	322767.560	5837449.570	195.662

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
D 2 3	-8.600	12.370	2.625	2.050	195.722
D 4 5	-1.600	1.172	0.111	0.084	195.606
D 6 7	1.000	0.768	0.077	0.058	195.590

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
B 2 3	-8.600	11.419	2.169	1.681	194.816
B 4 9	-1.600	1.157	0.108	0.082	194.761
B 6 7	1.000	0.777	0.079	0.060	194.720



**SYMBOL LEGEND**

- Prop
- Prev Stage
- Drains
- Sewer < 3000
- Sewer ≥ 3000
- Water (DW)
- Water (NDW)
- House Drain
- Property Inlet
- Street Sign
- FSM
- Rock Ret Wall
- Sleeper Ret Wall
- Conduits 50mm
- Conduits 100mm
- Street Tree without/with Passive Irrigation (Refer Detail)
- Ex Drains
- Ex Water D/W/DW
- Ex Sewer/Gas
- Ex Elect/Comm
- Ex Natural/FS Level
- FS @ Building Line
- Top/Toe Batter Level
- Top/Bottom RW 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)

**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

MELWAY REF. 388-C-10

SURVEY BPD

DESIGN GL

DRAWN PG

**RATHDOWNE ESTATE STAGE 14**

MUNICIPALITY WHITTLESEA

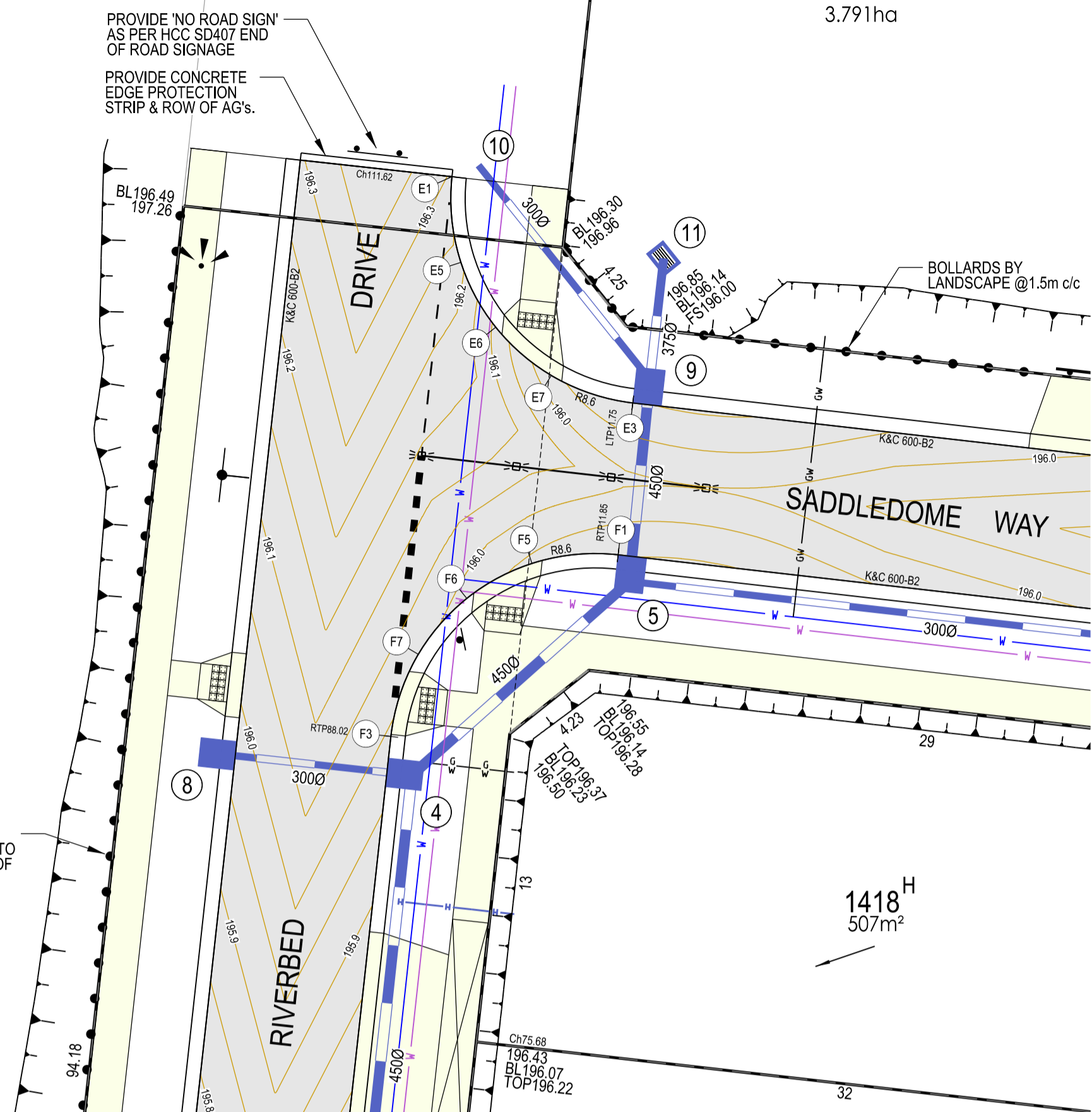
REFERENCE 9365 E/14

AMENDMENTS

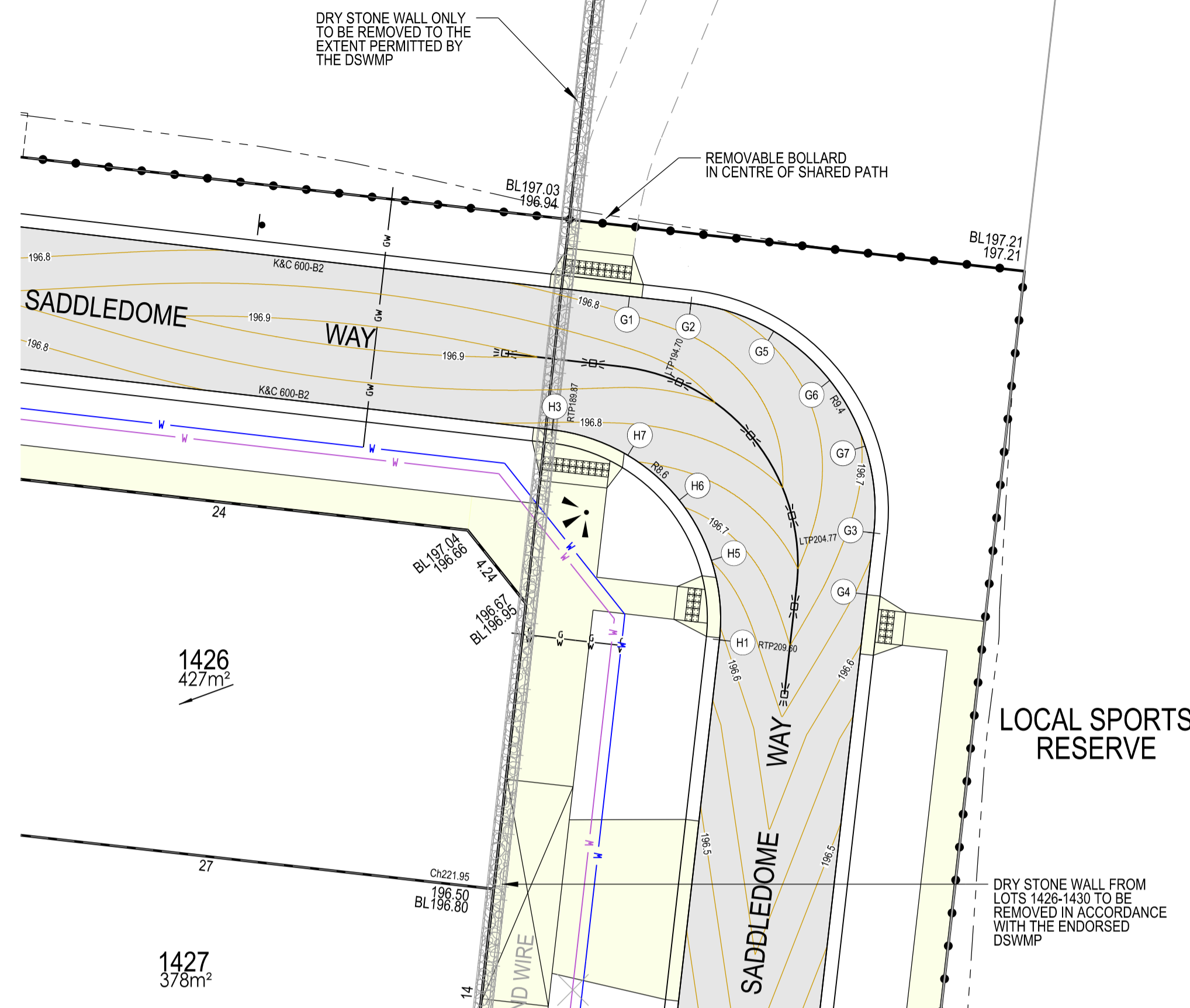
VER	DATE	REMARKS	CHECKED
A	17/02/22	ISSUE FOR CONSTRUCTION	

SCALE AS SHOWN DATUM AHD DATE OCT '21 SHEET 3 OF 14 A

**FUTURE STAGE 22  
SPORTS RESERVE**  
3.791ha



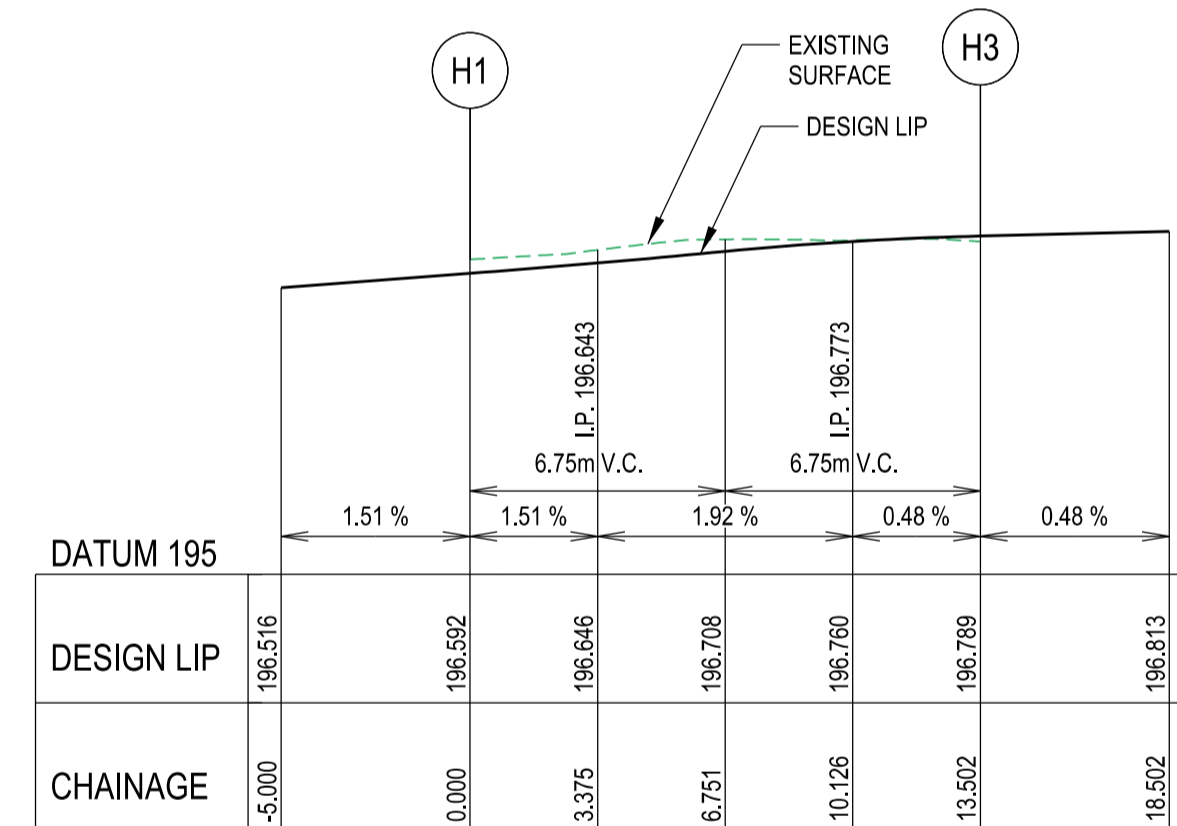
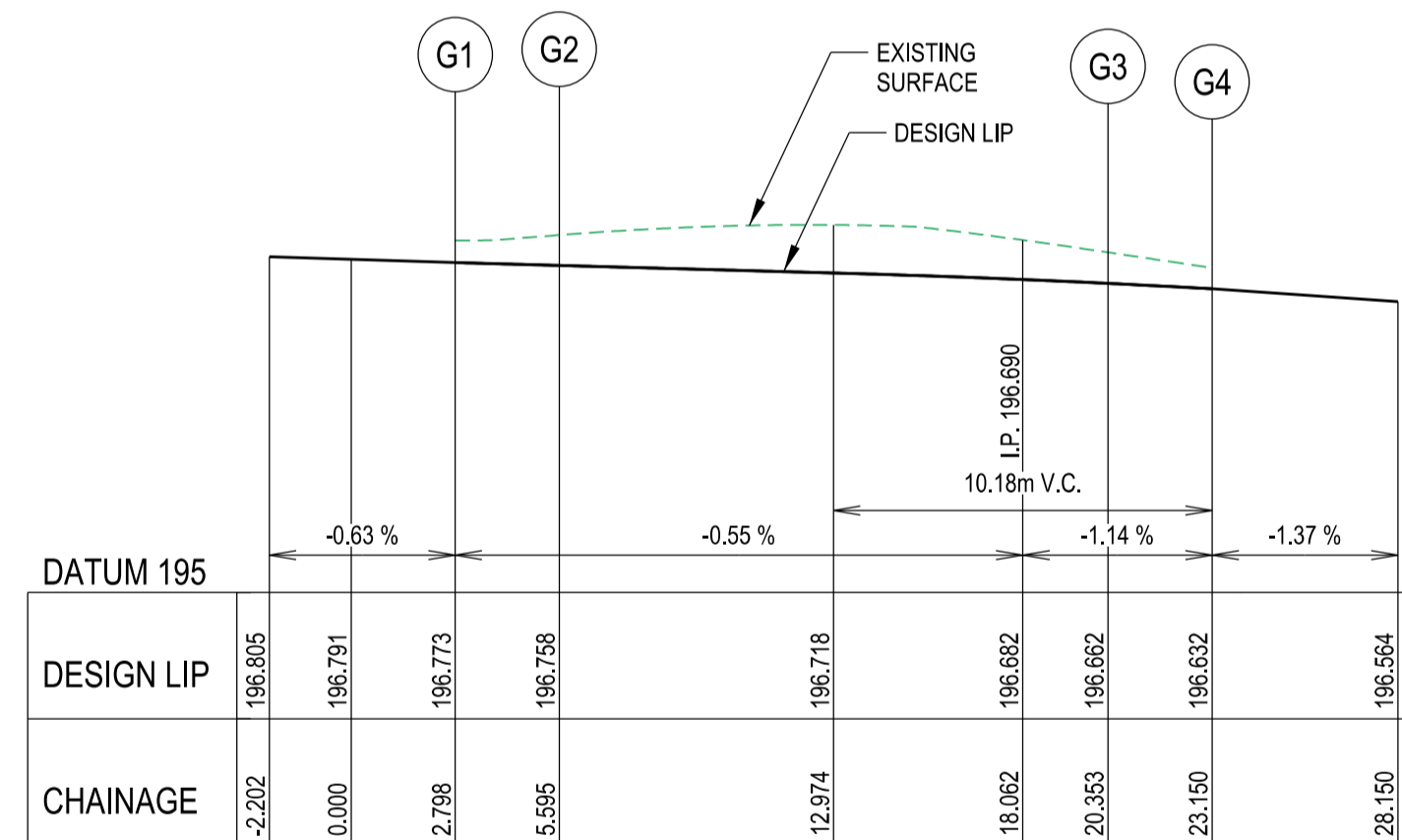
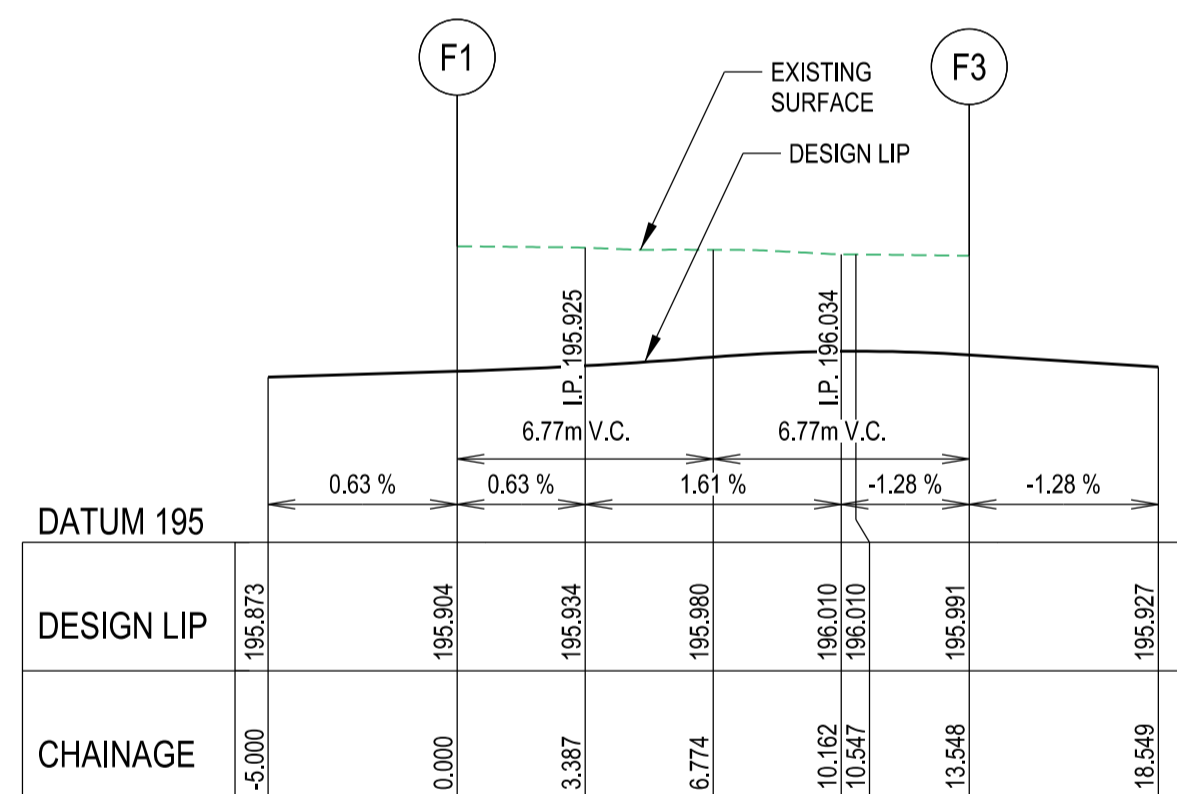
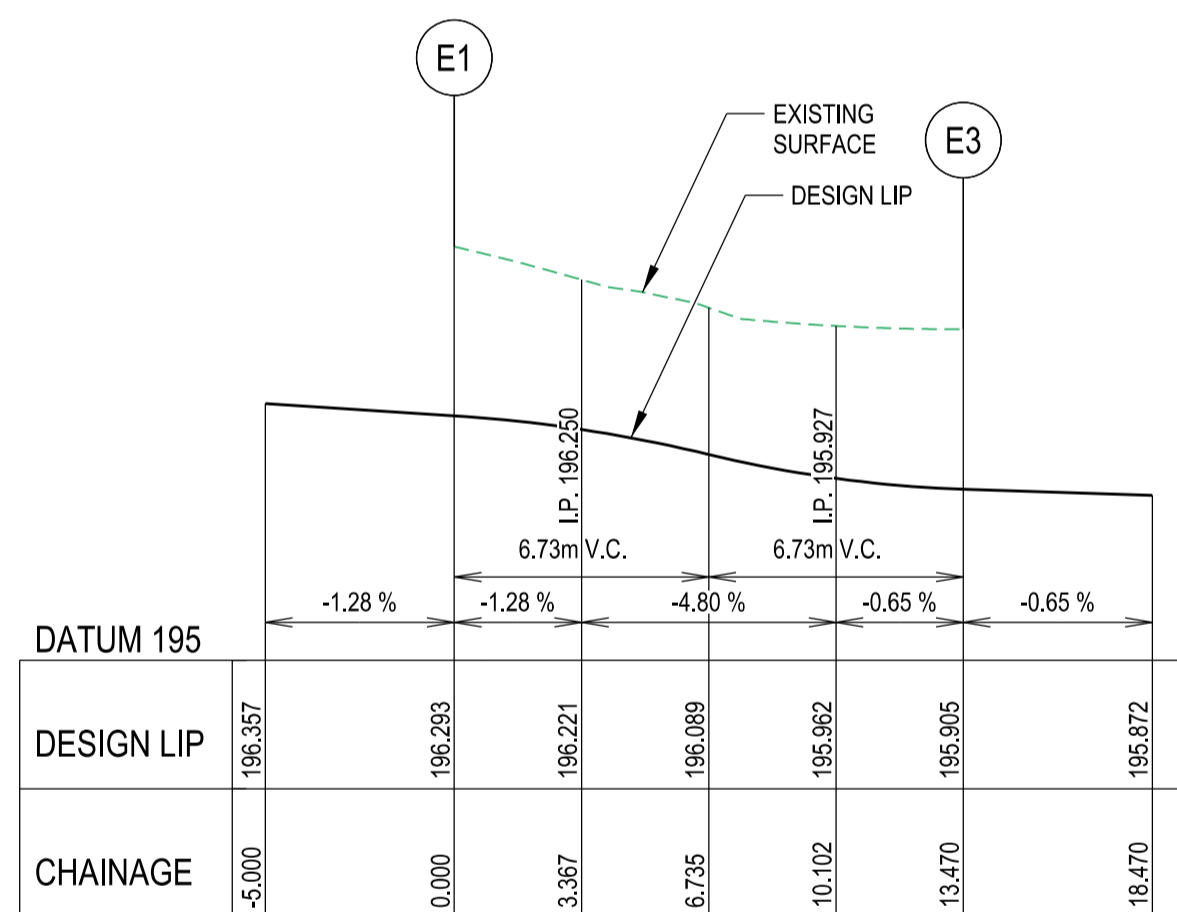
**FUTURE STAGE 22  
SPORTS RESERVE**



**INTERSECTION DETAILS**

SCALE 1:200

SCALE 1:200 @ A1



Alignment E

Point no	Easting	Northing	RL
1	322573.788	5837577.900	196.293
3	322581.364	5837568.421	195.905
5	322574.157	5837574.311	196.212
6	322575.819	5837571.386	196.189
7	322577.945	5837569.572	195.969

Alignment F

Point no	Easting	Northing	RL
1	322580.748	5837562.050	195.904
3	322571.226	5837554.440	195.991
5	322577.134	5837561.690	195.937
6	322574.405	5837560.223	195.980
7	322572.374	5837557.885	196.009

Alignment G

Point no	Easting	Northing	RL
1	322761.127	5837547.953	196.773
2	322763.907	5837547.637	196.758
3	322772.184	5837537.242	196.662
4	322771.870	5837534.462	196.632
5	322767.654	5837546.374	196.736
6	322770.197	5837544.153	196.718
7	322771.792	5837541.176	196.696

Alignment H

Point no	Easting	Northing	RL
1	322765.196	5837532.401	196.592
3	322757.625	5837541.911	196.789
5	322764.838	5837536.001	196.651
6	322763.378	5837538.724	196.708
7	322761.052	5837540.755	196.757

Curve data for Alignment E

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
E 2 3	-8.599	12.133	2.505	1.952	196.089

Curve data for Alignment F

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
F 2 3	-8.599	12.189	2.533	1.975	195.980

Curve data for Alignment G

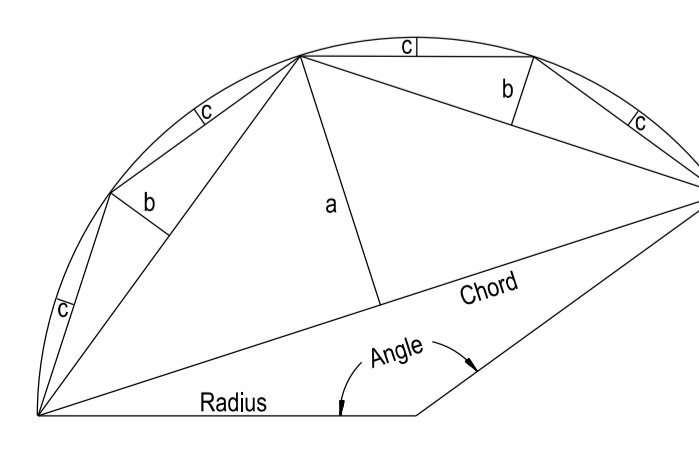
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
G 0 3	9.400	13.288	2.750	2.144	196.718

Curve data for Alignment H

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
H 2 3	-8.599	12.156	2.516	1.961	196.708

**SYMBOL LEGEND**

- Drains: Prop, Prev Stage
- Sewer < 3000: S, S
- Sewer ≥ 3000: S, S
- Water (DW): W, W
- Water (NDW): W, W
- House Drain: W, W
- Property Inlet: W, W
- Street Sign: S, S
- FSM: S, S
- Rock Ret Wall: R, R
- Sleeper Ret Wall: R, R
- Conduits 50mm: W, W
- Conduits 100mm: W, W
- Street Tree without/with Passive Irrigation (Refer Detail): T, T
- Ex Drains: Ex W, Ex S, Ex G, Ex E
- Ex Water DW/NDW: Ex W, Ex S, Ex G, Ex E
- Ex Sewer/Gas: Ex W, Ex S, Ex G, Ex E
- Ex Elect/Comm: Ex W, Ex S, Ex G, Ex E
- Ex Natural/FS Level: +28.57, +NS07.57, +FS29.57
- FS @ Building Line: +BL28.57, +TDE07.57
- Top/Toe Batter Level: +TOP28.57, +TDE07.57
- Top/Bottom RW Level: +TW28.57, +BW27.57
- 100yr Flood Level: +FL28.57
- Fill Proposed (<0.3m/≥0.3m): [Green Box]
- Cut Proposed: [Pink Box]
- Asphalt Surface Prop: [Grey Box]
- Concrete Surface Prop (Paths/Driveways/Slabs): [Yellow Box]
- Tree To Be Removed: [Red X]
- Tree To Be Retained with Tree Protection Zone (TPZ): [Green Circle]



**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 14**

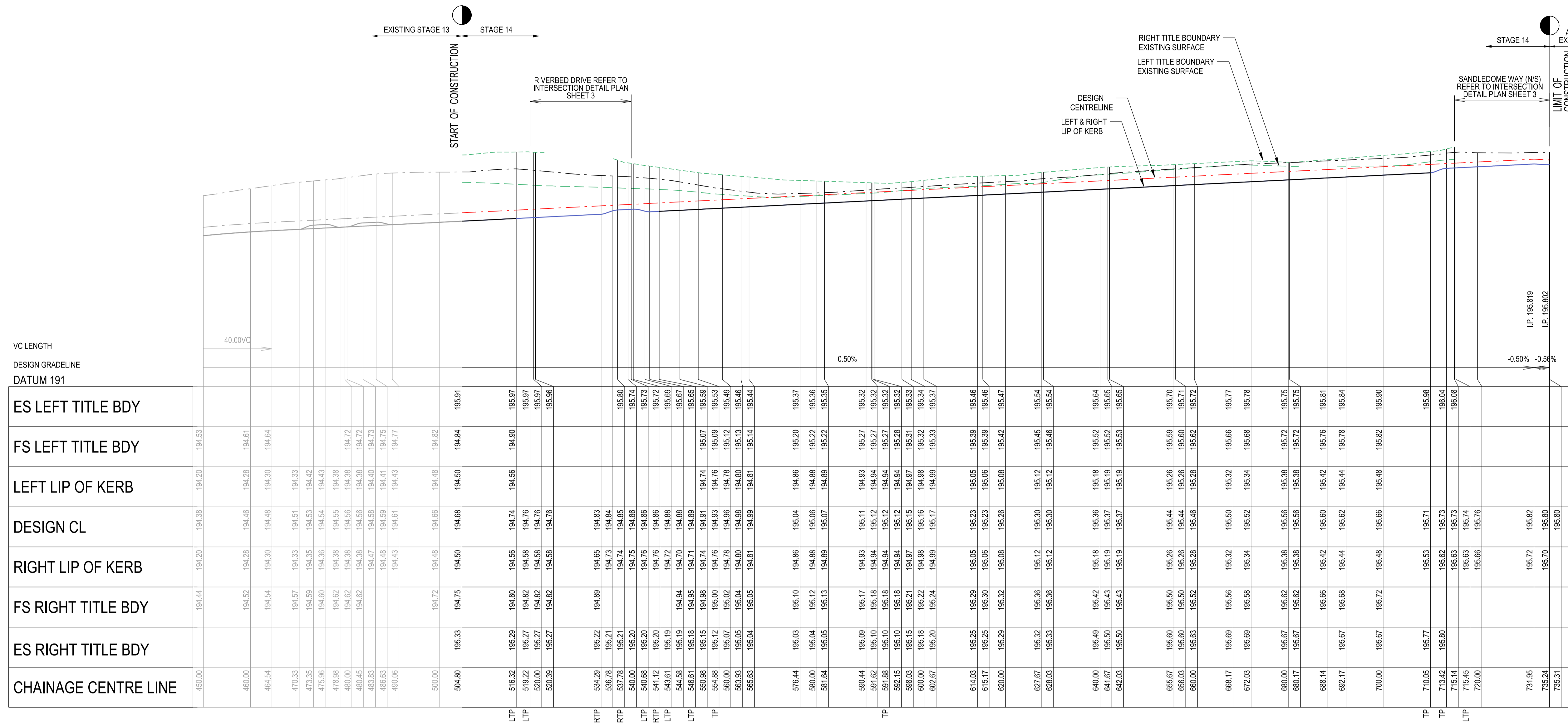
MELWAY REF. 388-C-10  
SURVEY BPD  
DESIGN GL  
DRAWN PG

REFERENCE  
9365 E/14

AMENDMENTS

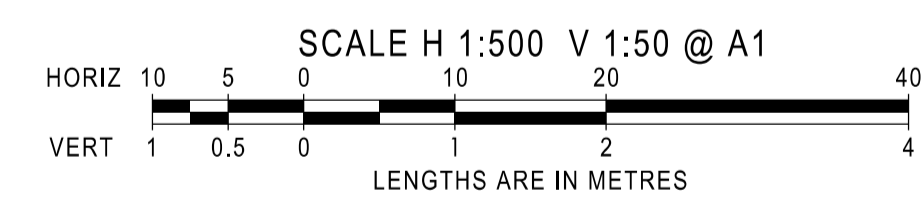
NO	DATE	REMARKS	CHECKED
A	17/02/22	ISSUE FOR CONSTRUCTION	

SCALE AS SHOWN DATUM AHD DATE OCT '21 SHEET 4 OF 14 A



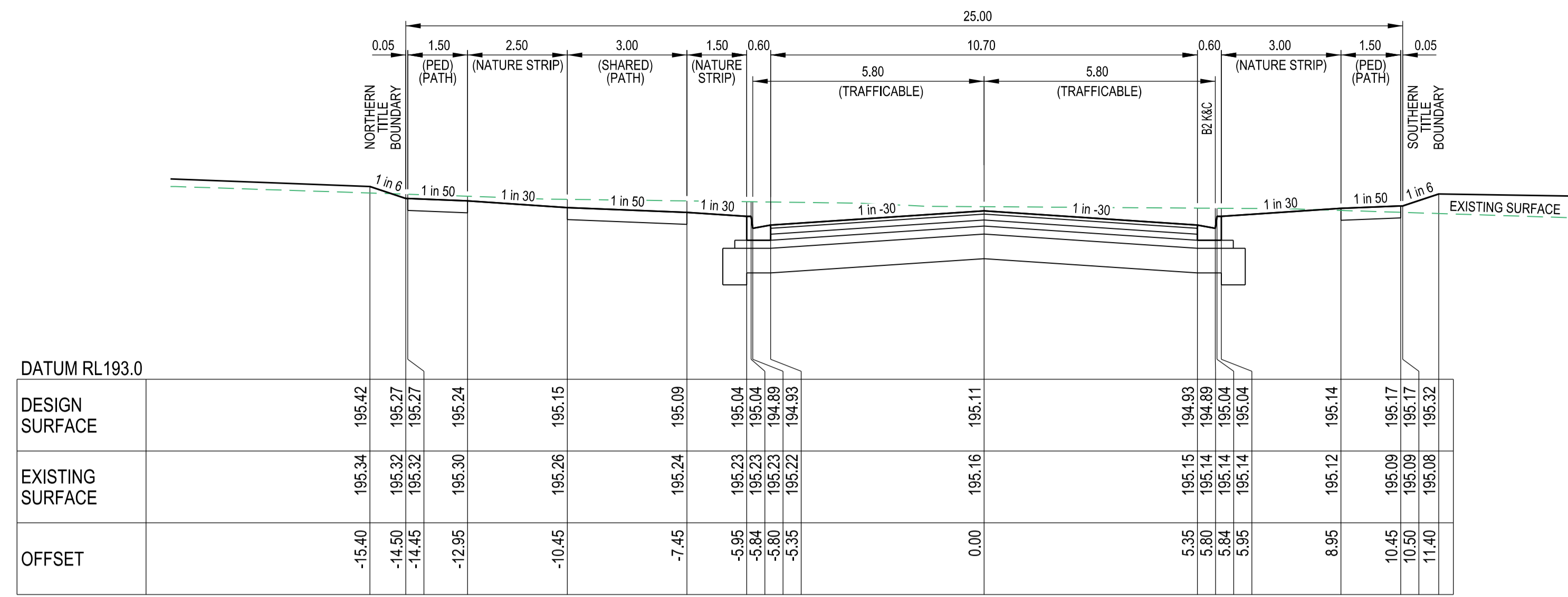
**VOYAGER DRIVE  
LONGITUDINAL SECTION**

SCALE HORIZONTAL 1:500  
VERTICAL 1:50

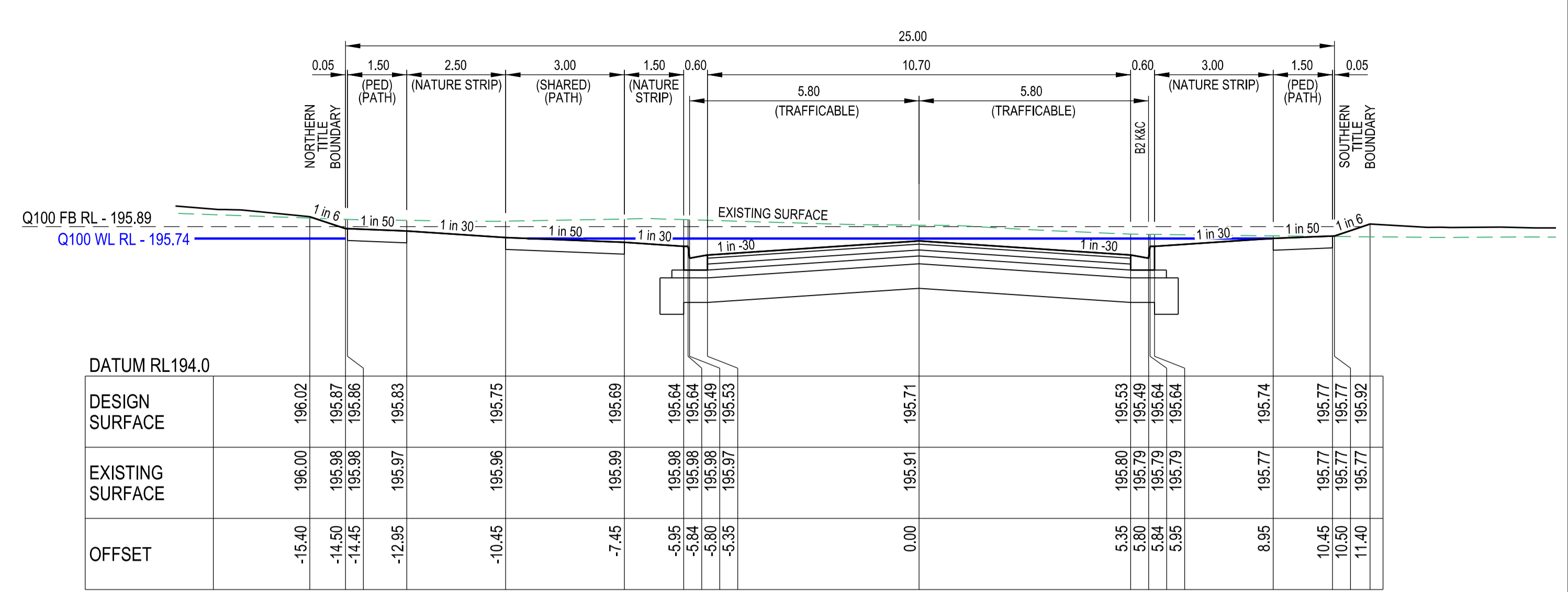


**AS CONSTRUCTED**

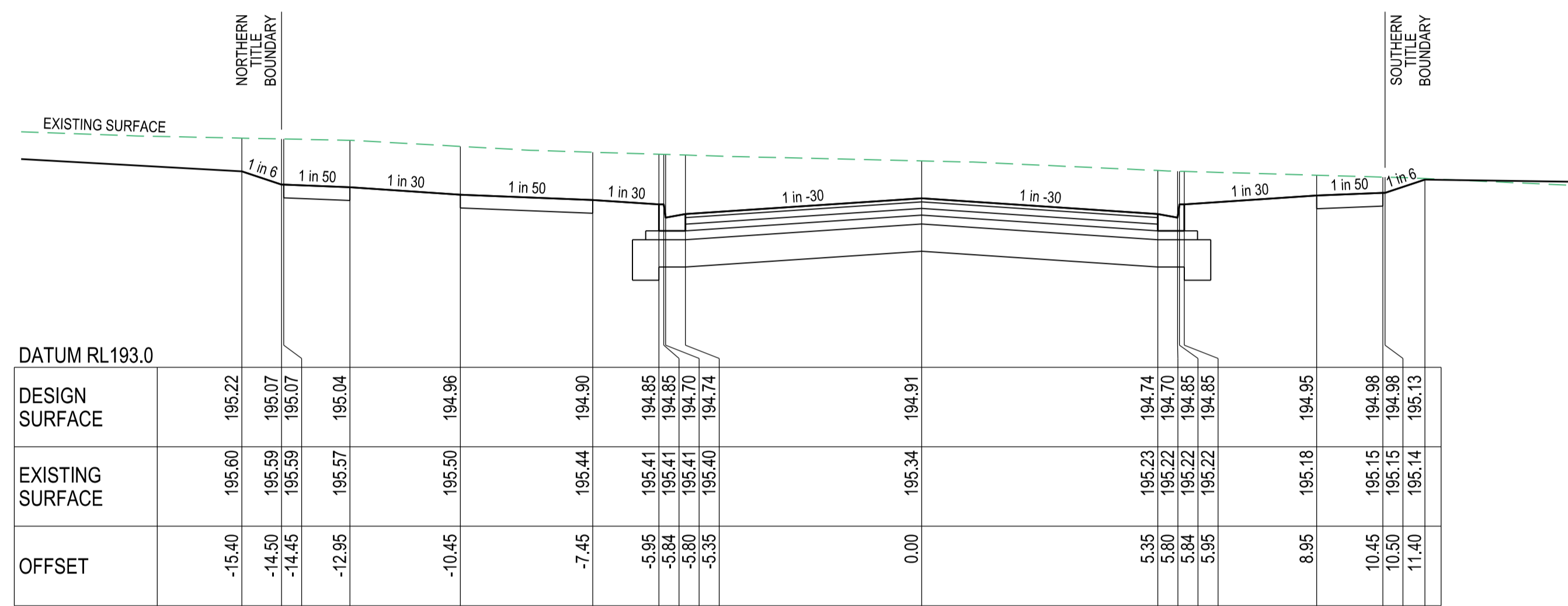
AMENDMENTS		MELWAY REF. 388-C-10		brees pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
A	17/02/22	ISSUE FOR CONSTRUCTION	SURVEY BPD	RATHDOWNE ESTATE STAGE 14		MUNICIPALITY WHITTLESEA	
VER	DATE	REMARKS	DESIGN GL			REFERENCE 9365 E/14	
			DRAWN PG	SCALE AS SHOWN	DATUM AHD	DATE OCT '21	SHEET 5 OF 14



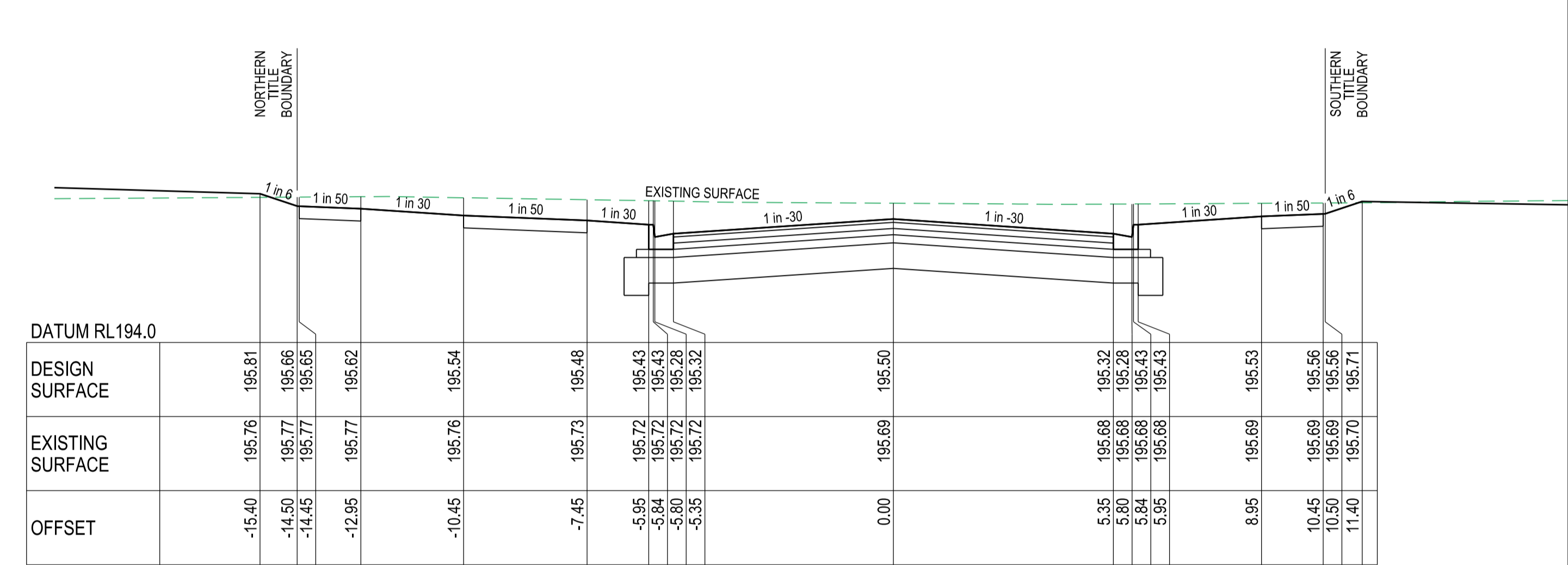
Ch.590.44



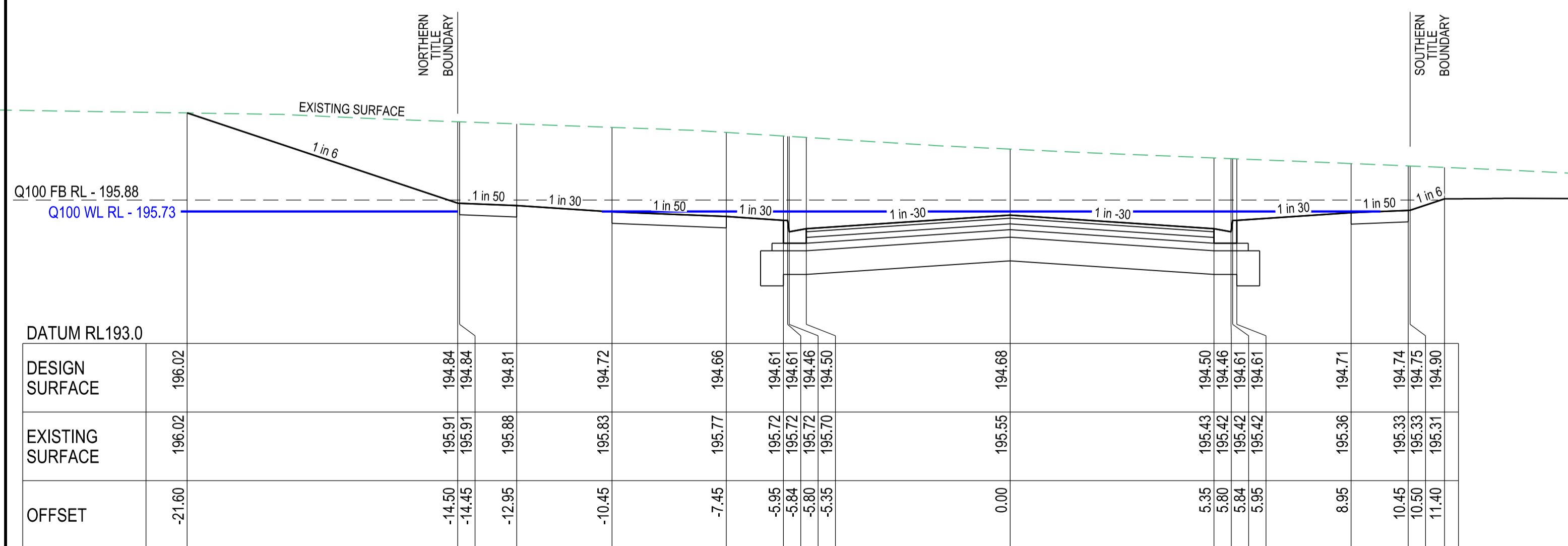
TP.Ch.710.05



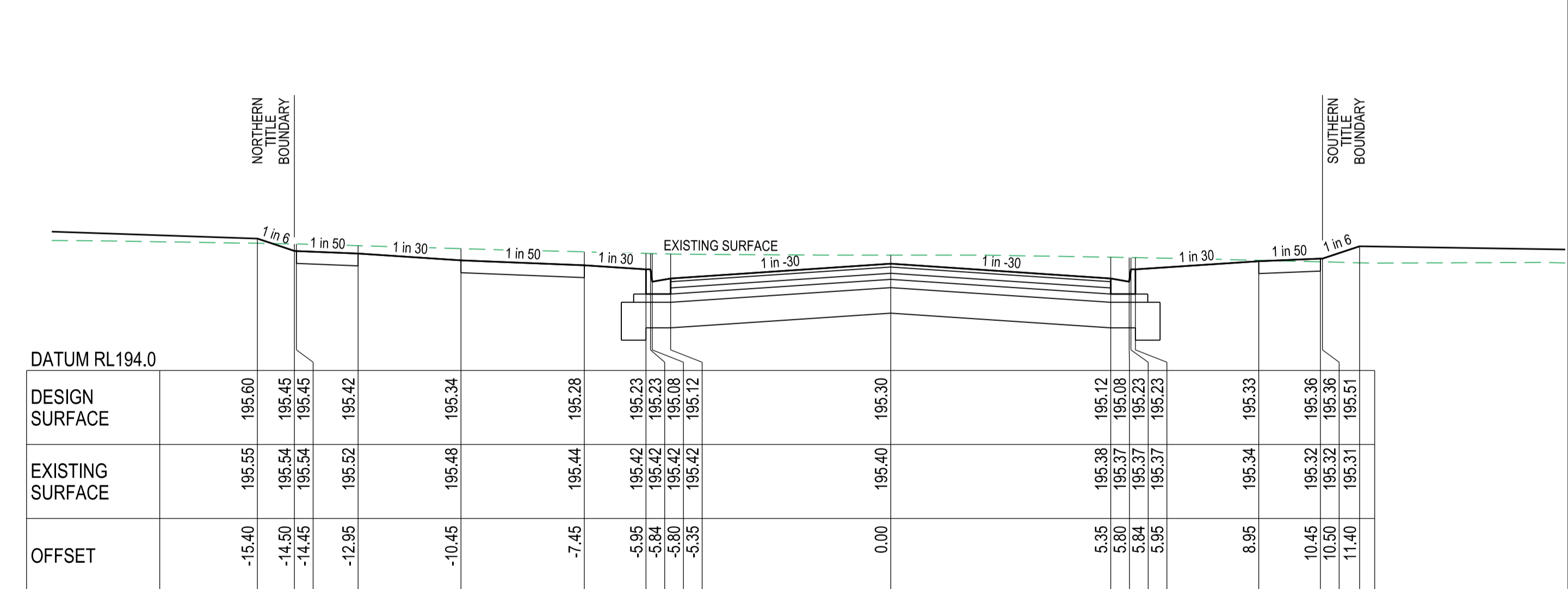
Ch.550.98



Ch.668.17



Ch.504.80

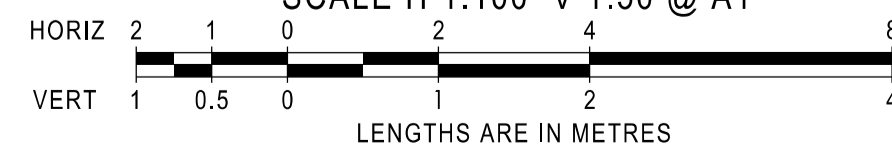


Ch.627.67

**VOYAGER DRIVE**  
CROSS SECTIONS

SCALE HORIZONTAL 1:100  
VERTICAL 1:50

SCALE H 1:100 V 1:50 @ A1



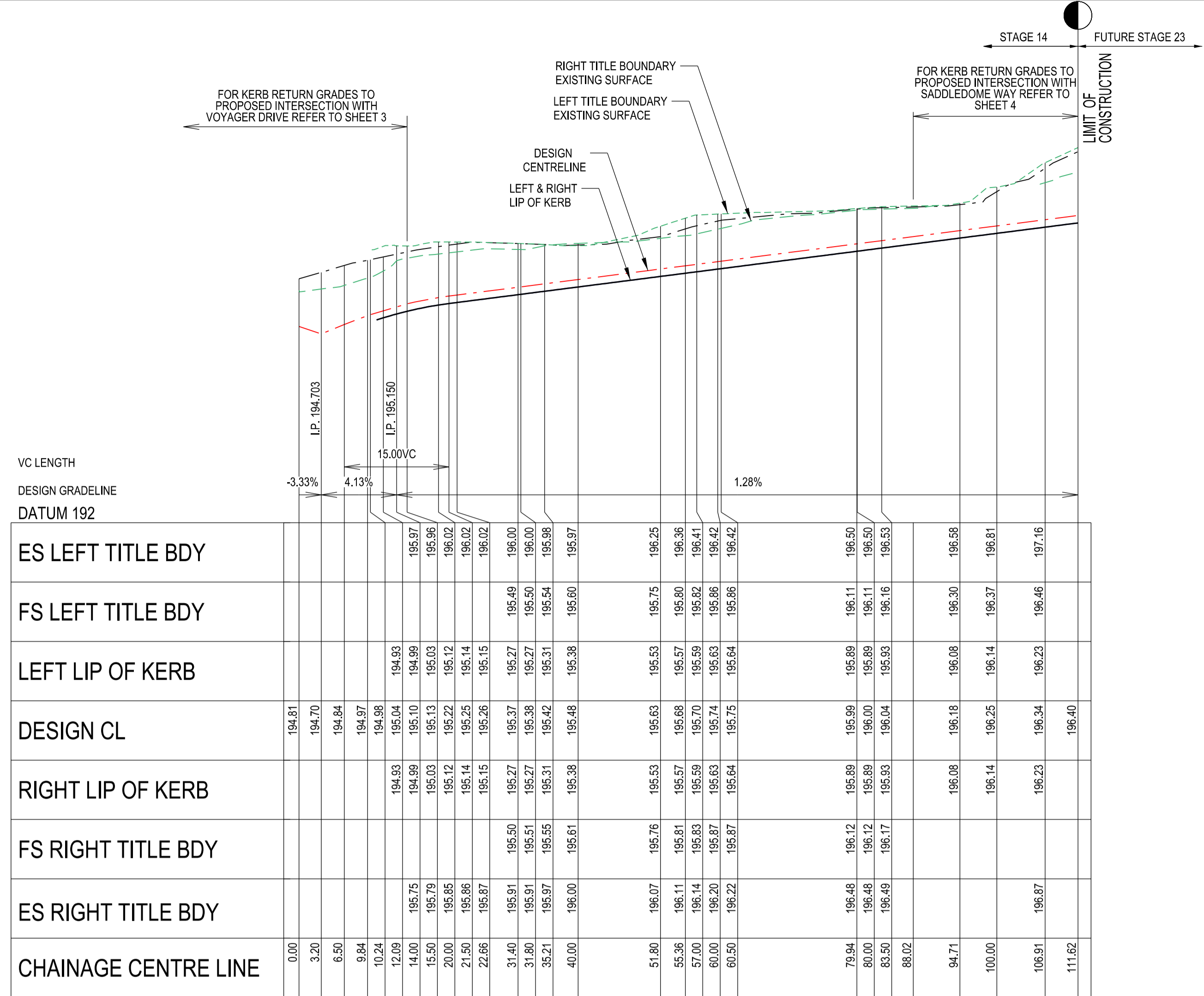
**AS CONSTRUCTED**

AMENDMENTS		MELWAY REF. 388-C-10		breese 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 14		MUNICIPALITY WHITTLESEA	
		DESIGN GL				REFERENCE 9365 E/14	
A	17/02/22	ISSUE FOR CONSTRUCTION		DRAWN PG		SHEET 6 OF 14	
VER	DATE	REMARKS		CHECKED	SCALE AS SHOWN	DATUM AHD	DATE OCT '21



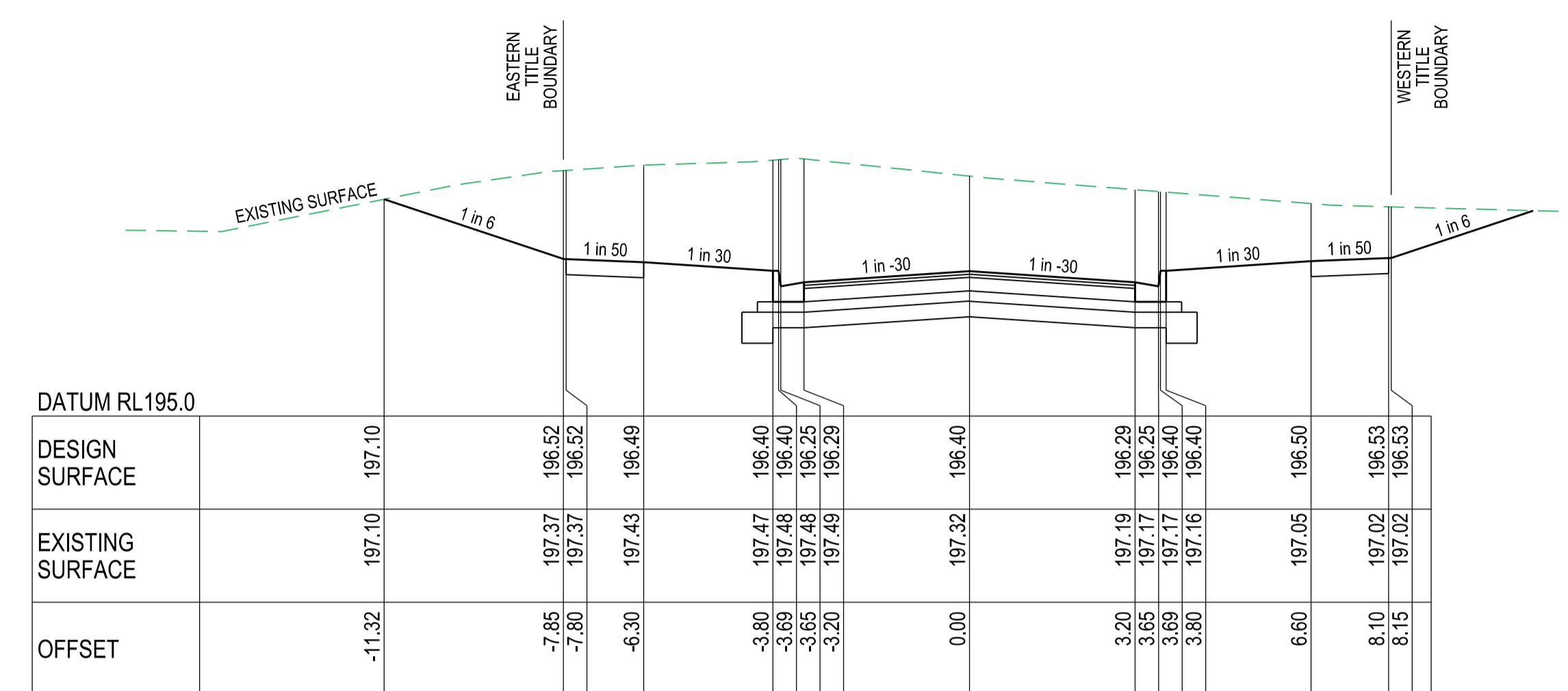
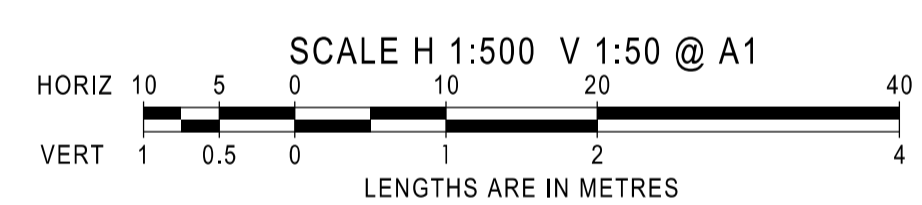




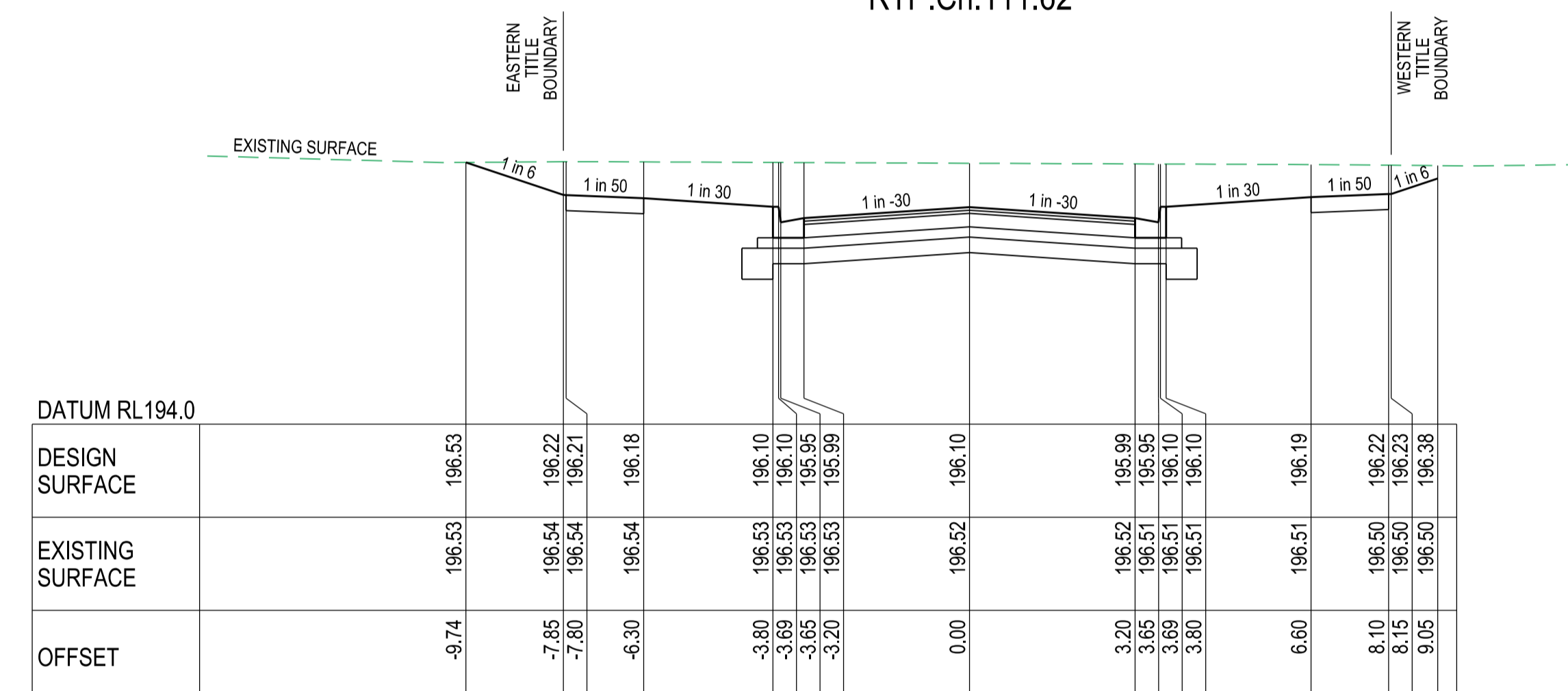


**RIVERBED DRIVE**  
**LONGITUDINAL SECTION**

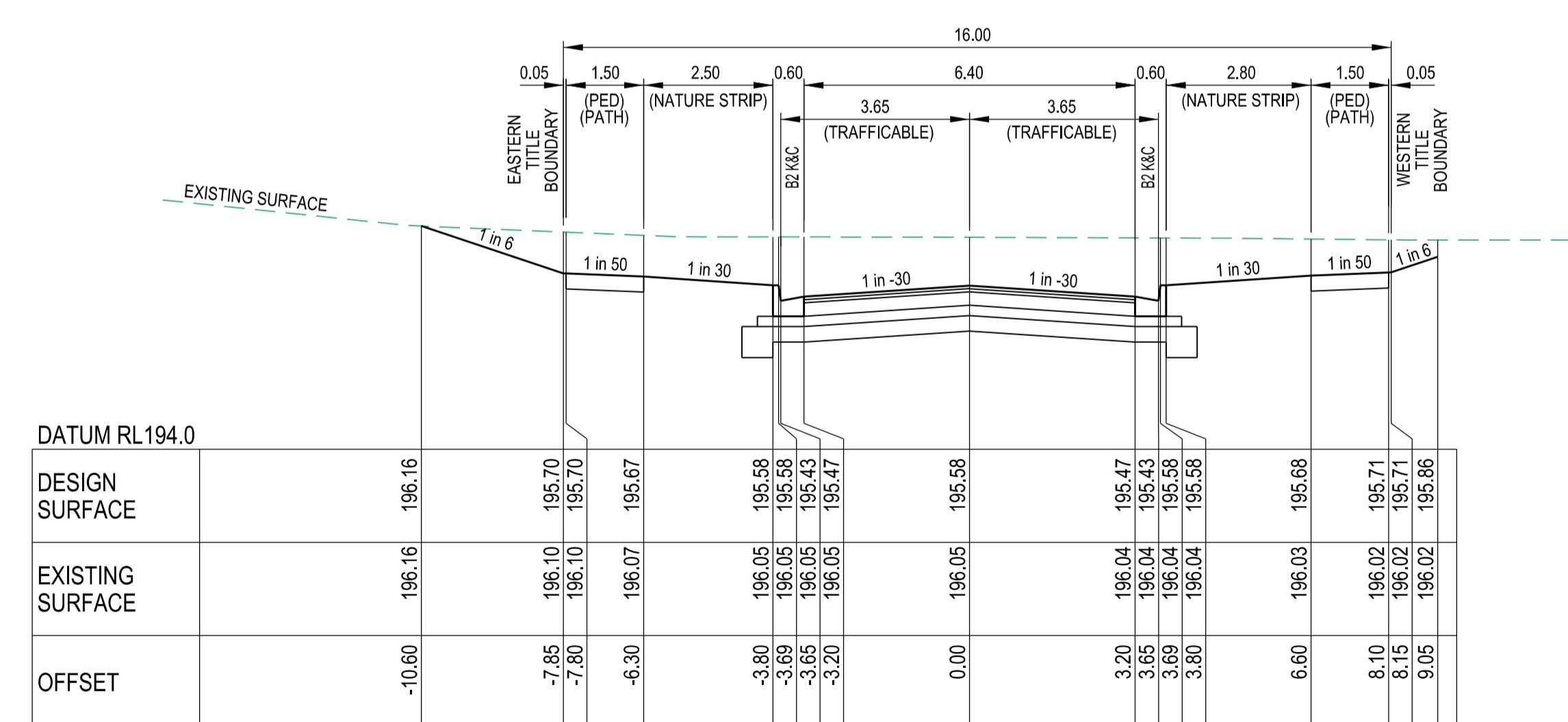
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VERTICAL 1:500



RTP.Ch.111.62

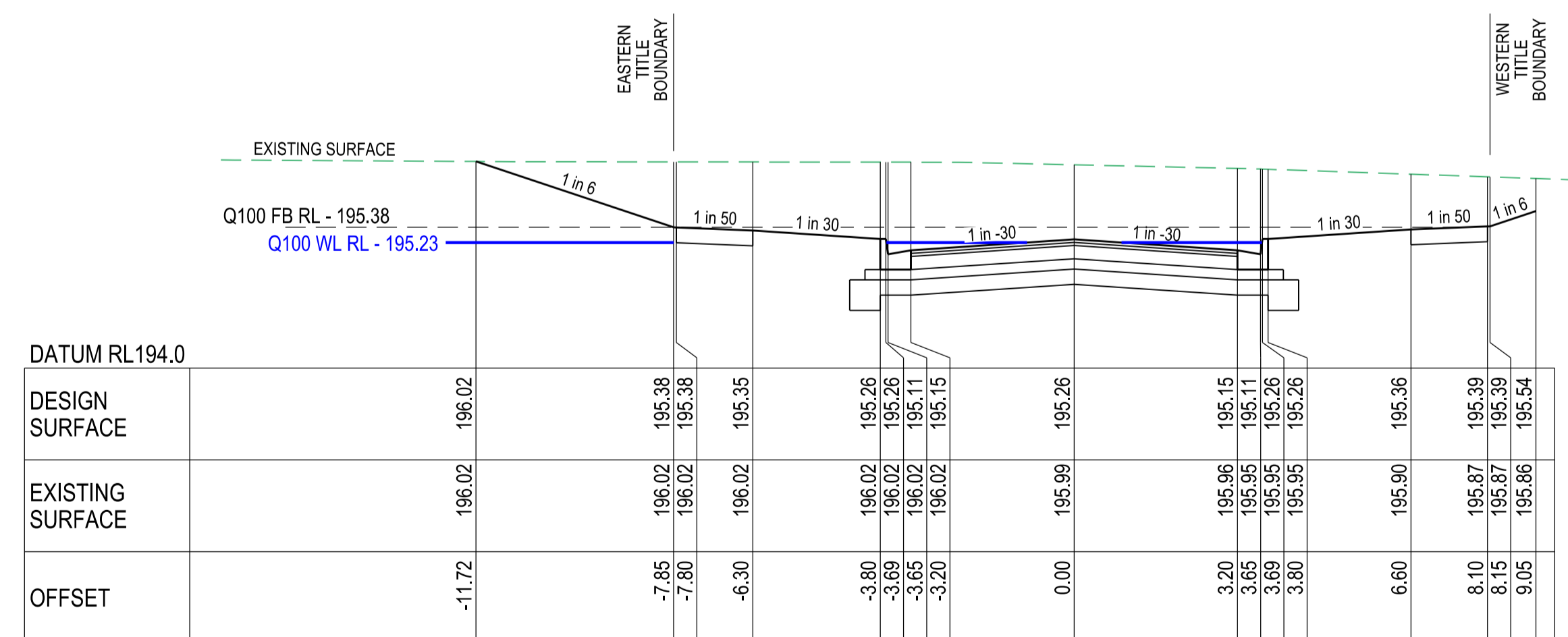


RTP.Ch.88.02



Ch.47.68

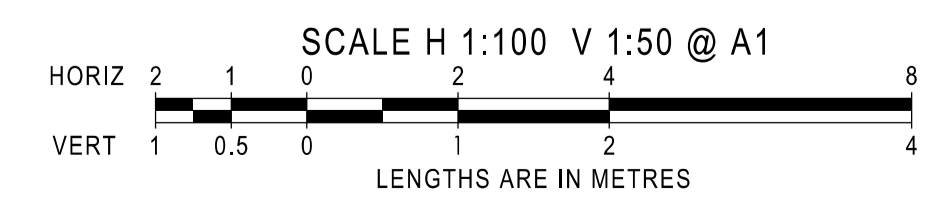
**AS CONSTRUCTED**



TP.Ch.22.66

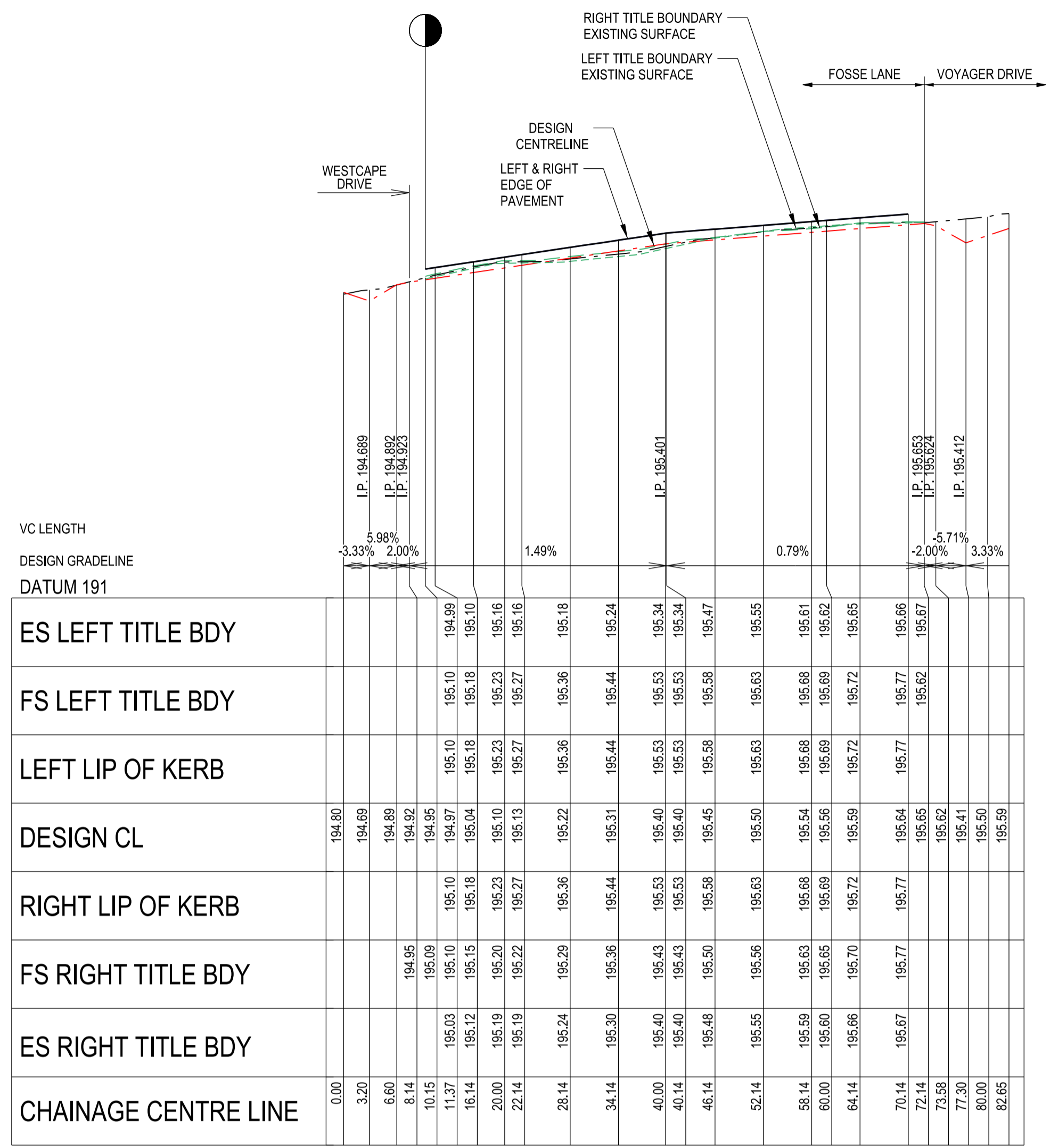
**RIVERBED DRIVE**  
**CROSS SECTIONS**

SCALE HORIZONTAL 1:100  
VERTICAL 1:50



INDICATES CRUSHED ROCK BACKFILL REFER NOTE 35, SHEET 2 LEVEL 1 SUPERVISION REQUIRED

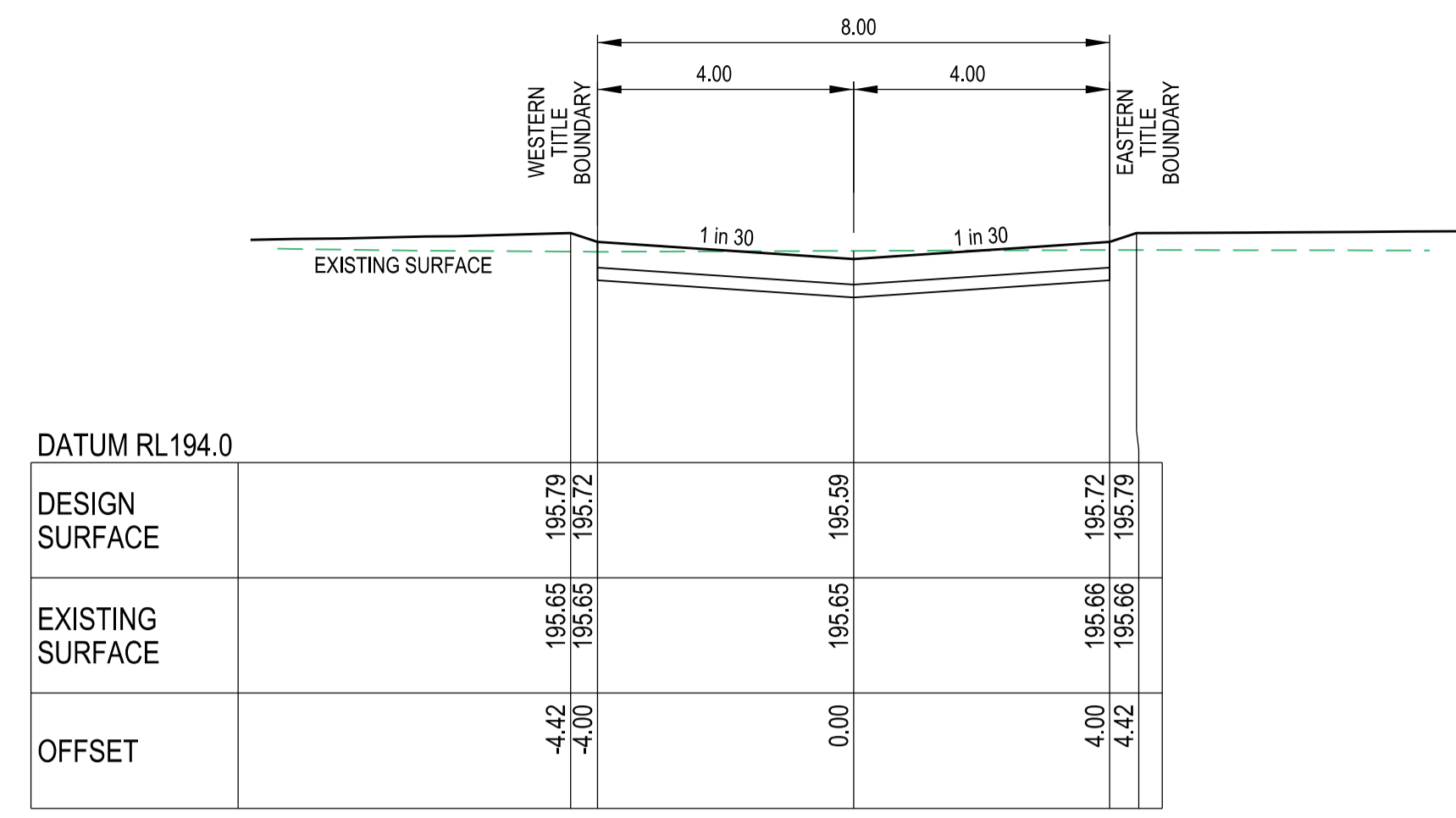
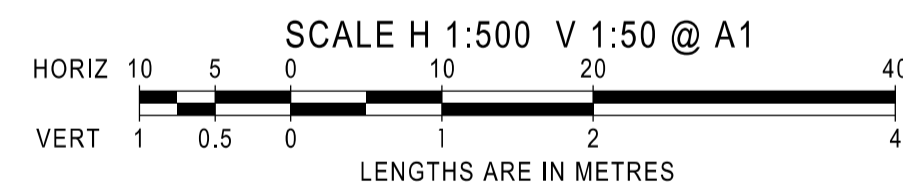
AMENDMENTS		MELWAY REF. 388-C-10		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
A	17/02/22	ISSUE FOR CONSTRUCTION	SURVEY BPD	RATHDOWNE ESTATE STAGE 14		MUNICIPALITY WHITTLESEA	
VER	DATE	REMARKS	DESIGN GL			REFERENCE 9365 E/14	
			DRAWN PG	SCALE AS SHOWN	DATUM AHD	DATE OCT '21	SHEET 9 OF 14



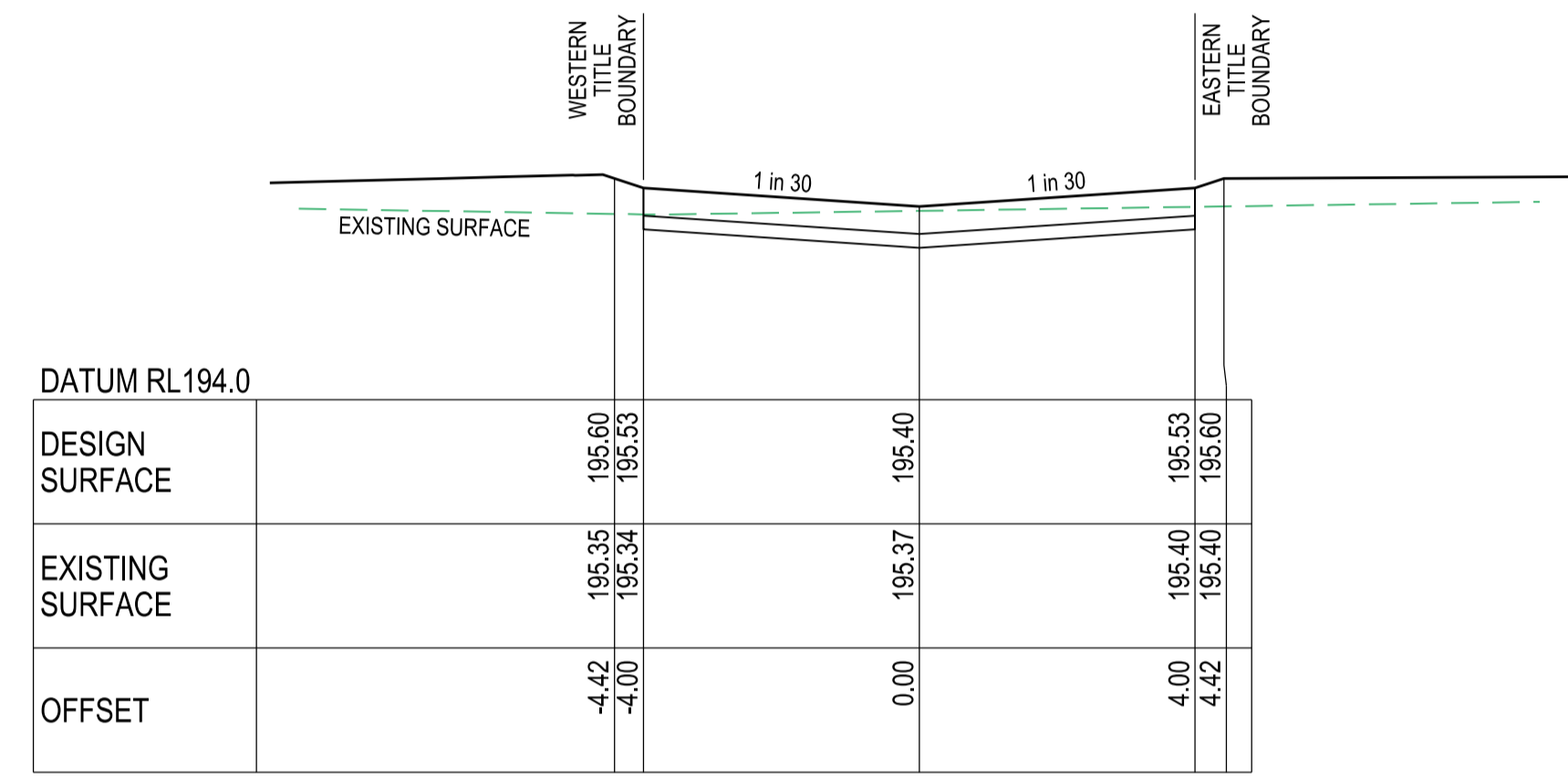
VC LENGTH	DESIGN GRADELINE	DATUM 191
		ES LEFT TITLE BDY
		FS LEFT TITLE BDY
		LEFT LIP OF KERB
		DESIGN CL
		RIGHT LIP OF KERB
		FS RIGHT TITLE BDY
		ES RIGHT TITLE BDY
		CHAINAGE CENTRE LINE

**FOSSE LANE  
LONGITUDINAL SECTION**

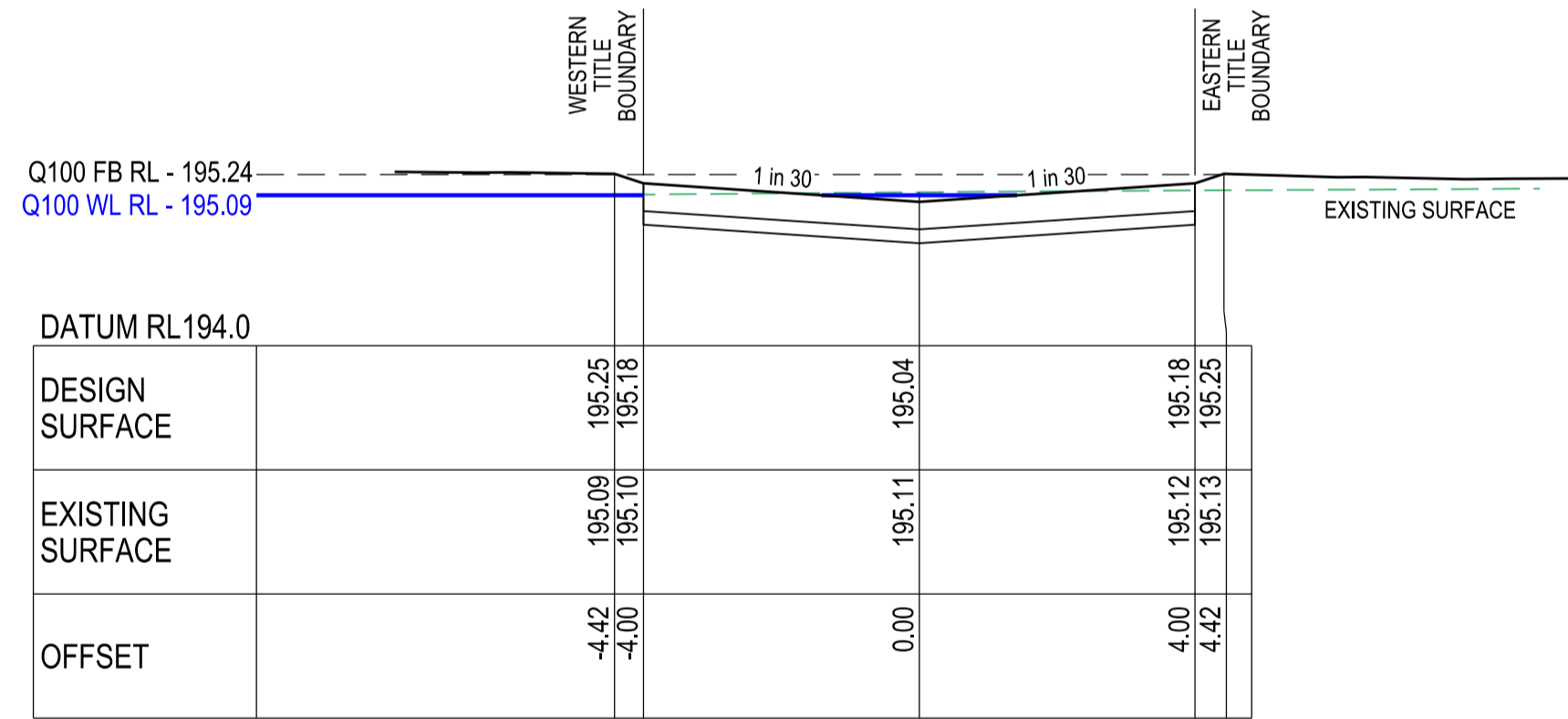
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VERTICAL 1:50



Ch64.14



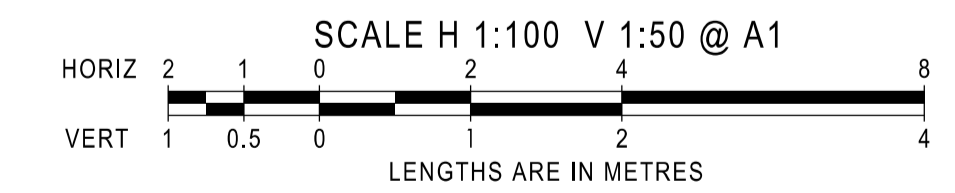
Ch40.14



Ch16.14

**FOSSE LANE  
CROSS SECTIONS**

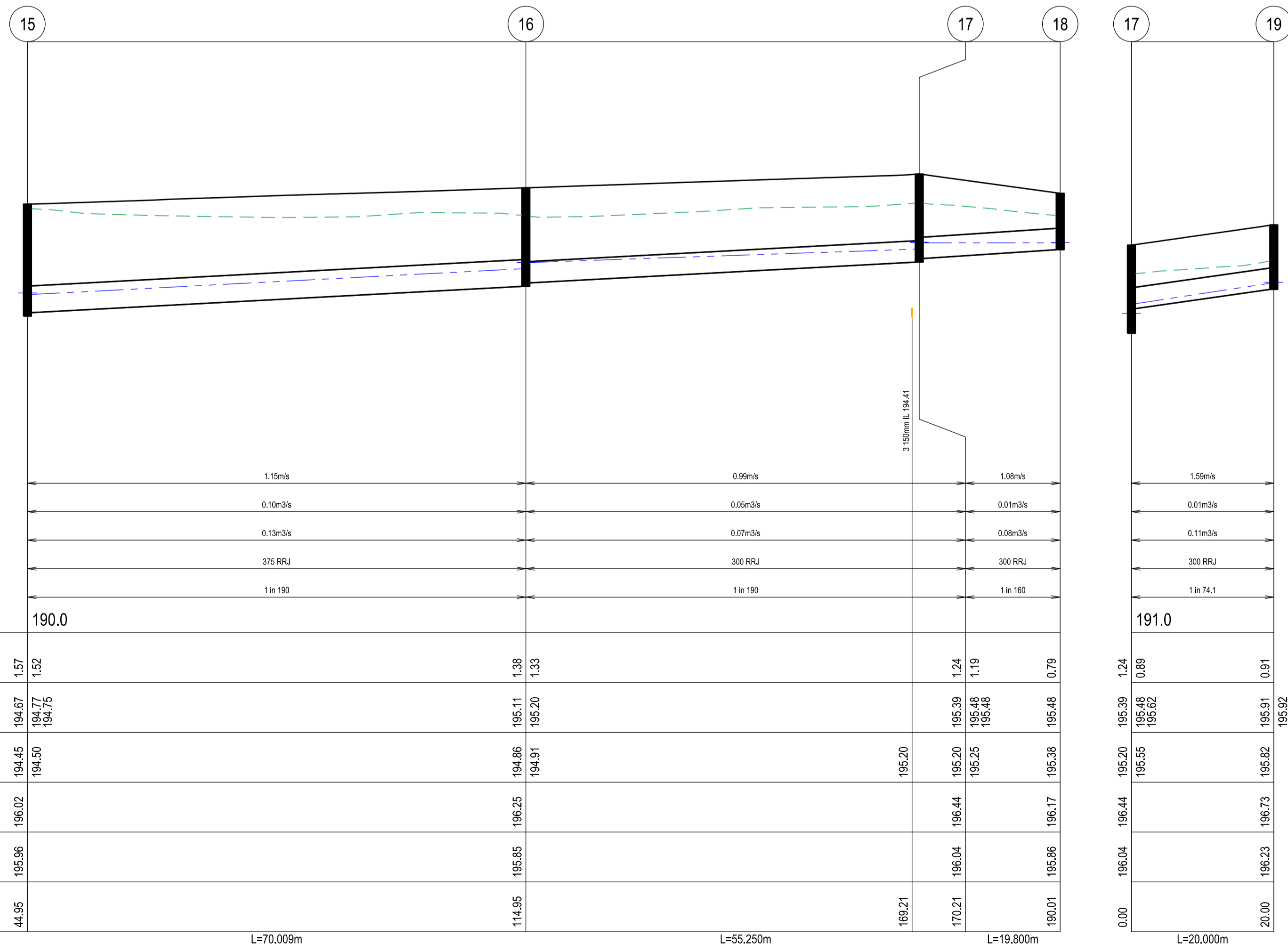
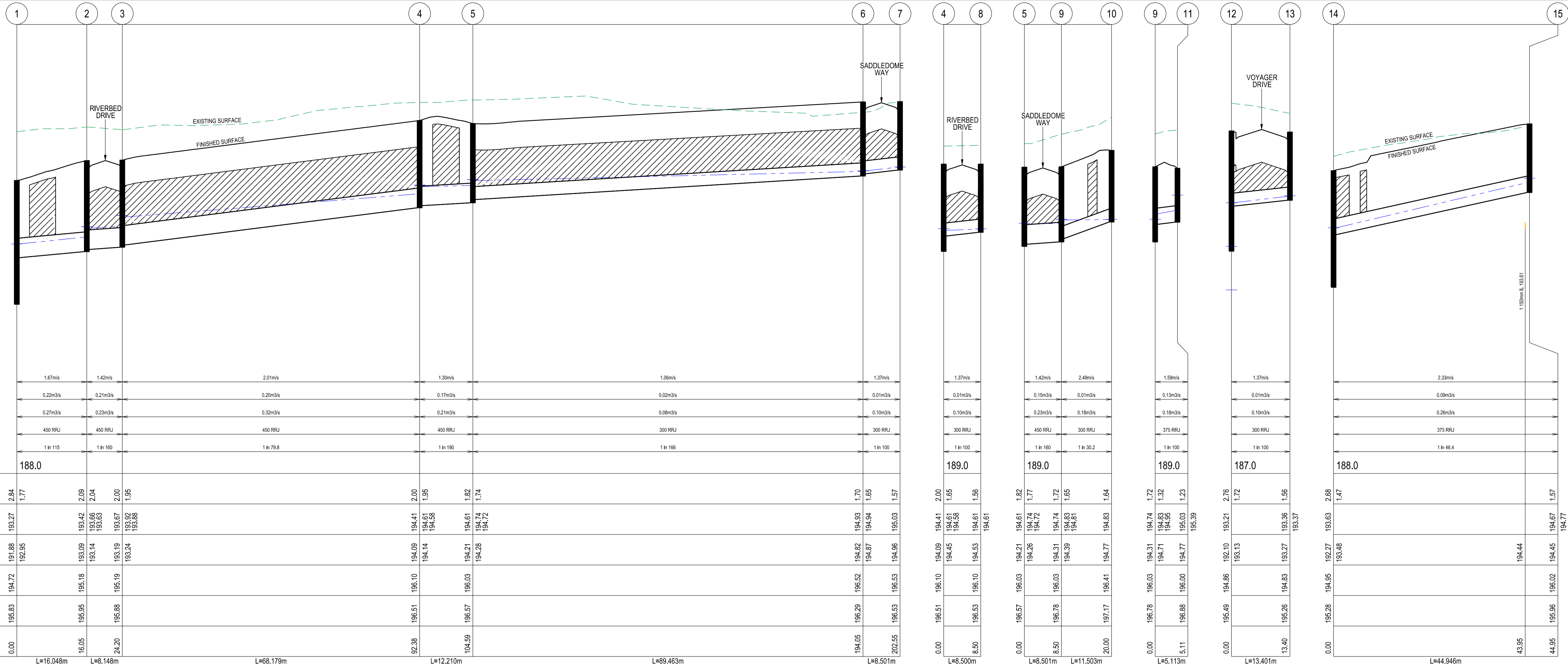
SCALE HORIZONTAL 1:100  
VERTICAL 1:50



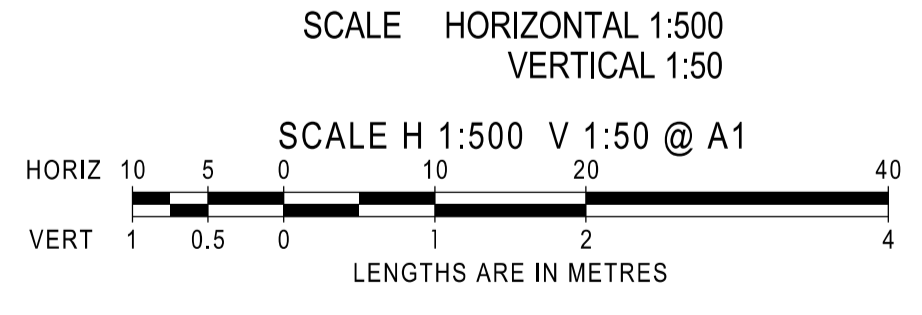
INDICATES CRUSHED ROCK BACKFILL REFER NOTE 35, SHEET 2  
LEVEL 1 SUPERVISION REQUIRED

**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	<b>RATHDOWNE ESTATE STAGE 14</b>		MUNICIPALITY WHITTLESEA
		SURVEY BPD			REFERENCE 9365 E/14
		DESIGN GL			
A 17/02/22 ISSUE FOR CONSTRUCTION		DRAWN PG			
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
					DATE OCT '21
			SHEET 10 OF 14		A



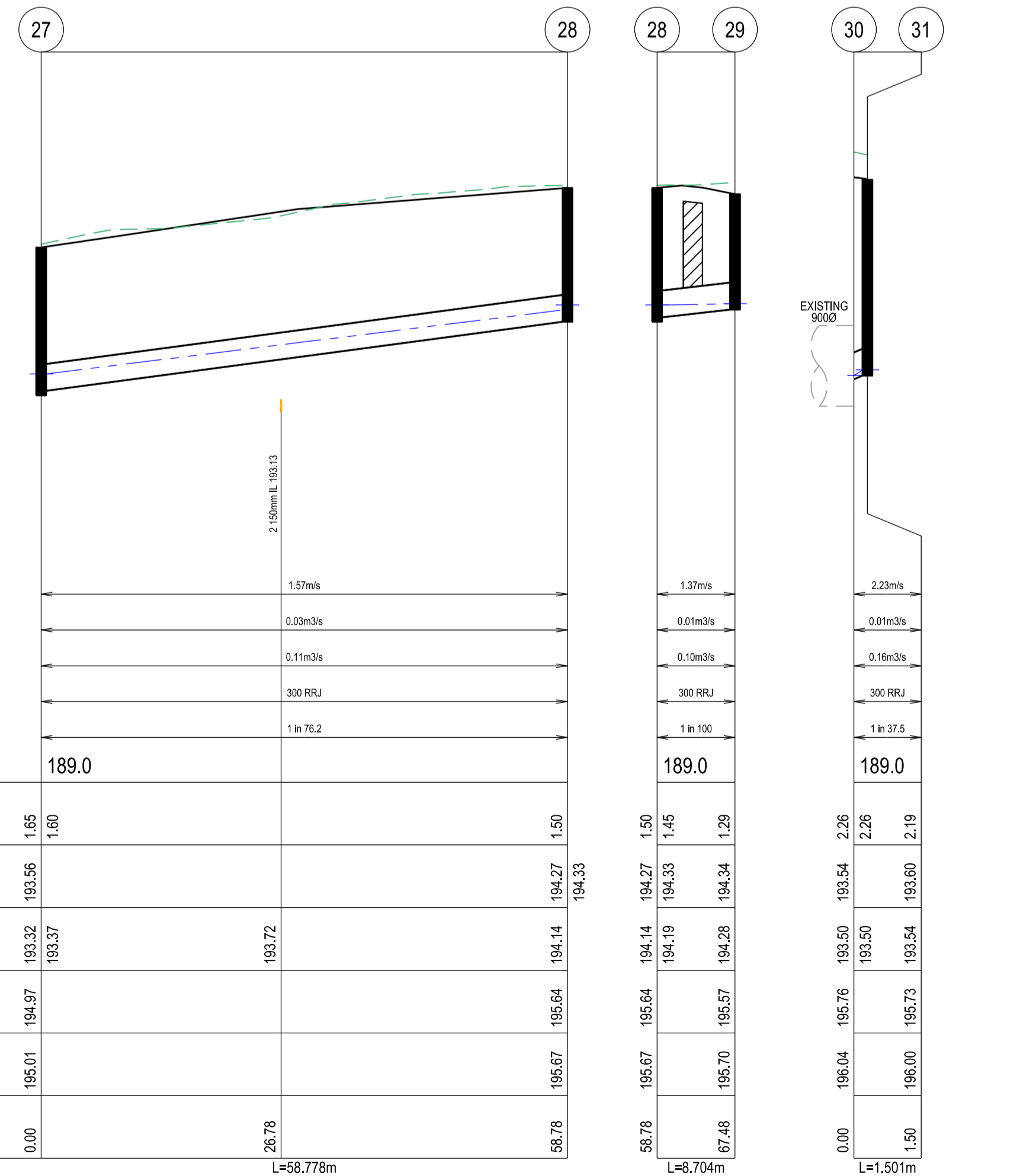
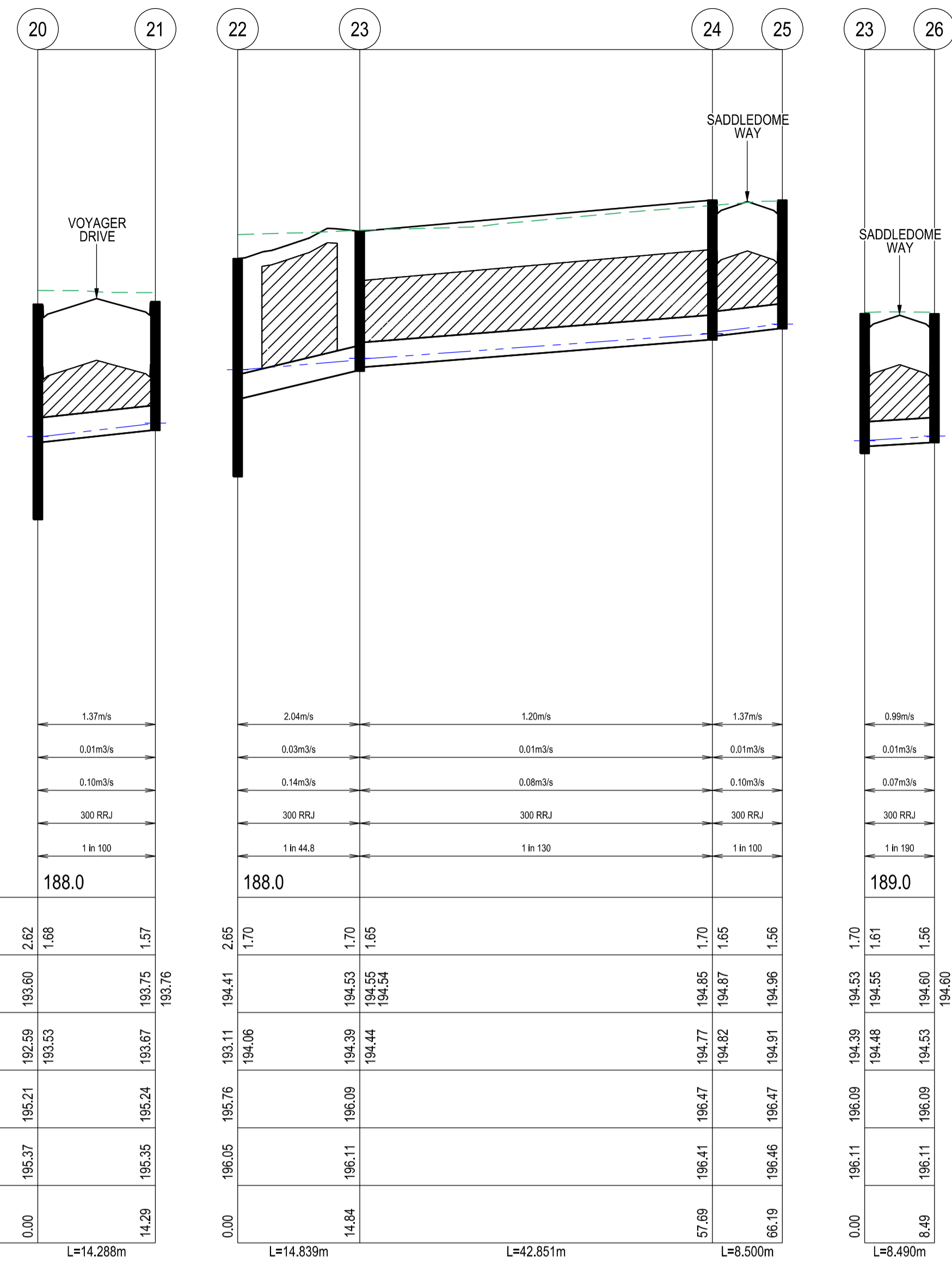
**DRAINAGE LONGITUDINAL SECTIONS**



INDICATES CRUSHED ROCK BACKFILL  
INDICATES 5YR HGL

**AS CONSTRUCTED**

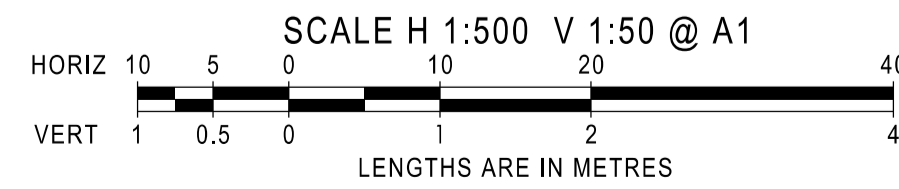
AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C-10		<b>RATHDOWNE ESTATE STAGE 14</b>		MUNICIPALITY WHITTLESEA	
SURVEY BPD				REFERENCE 9365 E/14	
DESIGN GL		DRAWN PG		OCT '21	
DATE 17/02/22		ISSUE FOR CONSTRUCTION		SHEET 11 OF 14	
REMARKS		CHECKED		DATE	



PIT SCHEDULE										
PIT No.	PIT TYPE	LENGTH	WIDTH	IN INVERT	IN DIA.	OUT INVERT	OUT DIA.	COVER RL	DEPTH	NOTES
1	Ex GRATED ENTRY PIT			192.95	525			194.72	2.84	CONNECT TO EXISTING PIT
2	GRATED ENTRY PIT	900	900	193.14	525	193.09	525	195.18	2.09	EXISTING PIT
3	GRATED ENTRY PIT	900	900	193.24	525	193.19	525	195.19	2.00	VPASTD DWG EDCM 601 (B2 KERB)
4	GRATED ENTRY PIT	900	900	194.10	525	194.05	525	196.10	2.05	VPASTD DWG EDCM 601 (B2 KERB)
5	GRATED ENTRY PIT	900	900	194.28	300	194.17	525	196.03	1.86	VPASTD DWG EDCM 601 (B2 KERB)
6	GRATED ENTRY PIT	900	600	194.87	300	194.82	300	196.52	1.70	VPASTD DWG EDCM 601 (B2 KERB)
7	GRATED ENTRY PIT	900	600			194.96	300	196.53	1.57	VPASTD DWG EDCM 601 (B2 KERB)
8	GRATED ENTRY PIT	900	600			194.53	300	196.10	1.56	VPASTD DWG EDCM 601 (B2 KERB)
9	GRATED ENTRY PIT	900	600	194.39	300	194.31	450	196.03	1.72	VPASTD DWG EDCM 601 (B2 KERB)
10	GRATED ENTRY PIT	900	600	194.71	375					
11	GRATED PIT	900	600			194.77	300	196.41	1.64	CAP AND SEAL
12	Ex GRATED ENTRY PIT			193.13	300			194.86	2.76	CONNECT TO EX PIT
13	GRATED ENTRY PIT	900	600			193.27	300	194.83	1.56	VPASTD DWG EDCM 601 (B2 KERB)
14	Ex JUNCTION PIT			193.48	375			194.95	2.68	CONNECT TO EX PIT
15	JUNCTION PIT	900	600	194.50	375	194.45	375	196.02	1.57	VPASTD DWG EDCM 605
16	JUNCTION PIT	900	600	194.91	300	194.86	375	196.25	1.39	VPASTD DWG EDCM 605
17	JUNCTION PIT	900	600	195.26	300	195.21	300	196.44	1.24	VPASTD DWG EDCM 605
18	JUNCTION PIT	900	600	195.55	300			195.38	0.79	VPASTD DWG EDCM 605
19	JUNCTION PIT	900	600			195.82	300	196.73	0.91	VPASTD DWG EDCM 605
20	Ex GRATED ENTRY PIT			193.53	300			195.21	2.62	CONNECT TO EX PIT
21	GRATED ENTRY PIT	900	600			193.67	300	195.24	1.57	VPASTD DWG EDCM 601 (B2 KERB)
22	Ex GRATED PIT			194.06	300			195.76	2.65	CONNECT TO EX PIT
23	GRATED ENTRY PIT	900	600	194.44	300	194.39	300	196.09	1.70	VPASTD DWG EDCM 601 (B2 KERB)
24	GRATED ENTRY PIT	900	600	194.82	300	194.77	300	196.47	1.70	VPASTD DWG EDCM 601 (B2 KERB)
25	GRATED ENTRY PIT	900	600			194.91	300	196.47	1.56	VPASTD DWG EDCM 601 (B2 KERB)
26	GRATED ENTRY PIT	900	600			194.53	300	196.09	1.56	VPASTD DWG EDCM 601 (B2 KERB)
27	GRATED PIT	900	600	193.37	300			194.97	1.65	VPASTD DWG EDCM 605 CLASS D GRATED LID
28	JUNCTION PIT	900	600	194.19	300	194.14	300	195.64	1.50	VPASTD DWG EDCM 605
29	GRATED ENTRY PIT	900	600			194.28	300	195.57	1.29	VPASTD DWG EDCM 601 (B2 KERB)
30	ENDPIPE			193.50	300			195.76	2.26	CONNECT TO EX PIPE
31	GRATED ENTRY PIT	900	600			193.54	300	195.73	2.19	VPASTD DWG EDCM 601 (B2 KERB)

**DRAINAGE LONGITUDINAL SECTIONS**

SCALE HORIZONTAL 1:500  
VERTICAL 1:50



INDICATES CRUSHED ROCK BACKFILL  
INDICATES 5YR HGL

**AS CONSTRUCTED**

AMENDMENTS		MELWAY REF. 388-C-10		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
A		SURVEY BPD		RATHDOWNE ESTATE STAGE 14		MUNICIPALITY WHITTLESEA	
DESIGN GL		DRAWN PG				REFERENCE 9365 E/14	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE OCT '21	SHEET 12 OF 14

FUTURE STAGE 22  
SPORTS RESERVE



RESERVE FOR PUBLIC  
OPEN SPACE

FUTURE LANDSCAPE VALUE

LOCAL SPORTS  
RESERVE

**SIGNAGE LEGEND**

- A STREET SIGNS (2 No) AT CENTRE OF ROUNDABOUT
- B GIVE WAY SIGN (R1-2A) - CLASS 1
- C ROAD CLOSED SIGN (G9-20) WITH OBSTRUCTION MARKER SIGN (D4-5) - CLASS 1
- D PEDESTRIAN CROSSING (R3-1)
- E CYCLING 'ROAD AHEAD' SIGN (W6-8)
- F BICYCLE PEDESTRIAN WARNING SIGN (W6-9A) WITH CROSSING ARROW SIGN (W8-23A) & ON SIDE ROAD SIGN (W8-3AL) BELOW. ALL CLASS 1.
- G BICYCLE PEDESTRIAN WARNING SIGN (W6-9A) WITH CROSSING ARROW SIGN (W8-23A) BELOW. ALL CLASS 1.
- H TURN SIGN (W1-1AL & W1-1AR) - CLASS 1 WITH 20km/h ADVISORY SPEED SIGN (W8-2A)
- J SHARED FOOTWAY/BICYCLE PATH SIGN (R8-2A) - CLASS 1

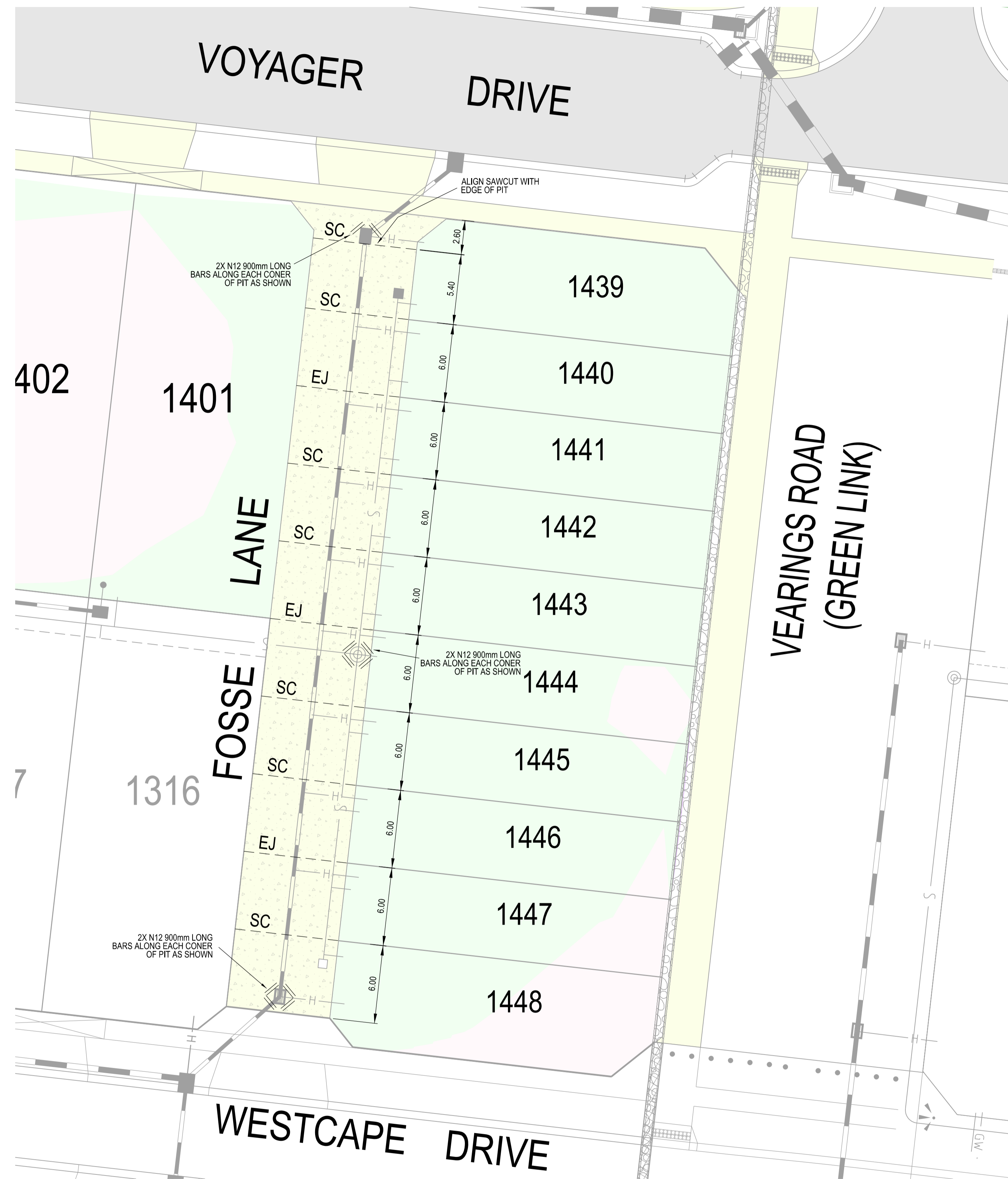
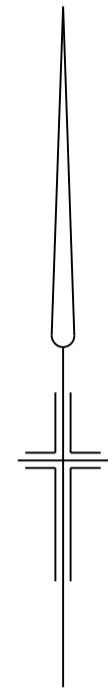
**NOTES**

- a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE WITH A MINIMUM OF 2 WEDGES.
- b) HAZARD / DIRECTIONAL TGSIS SHOWN THUS AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGSIS SHALL CONFORM TO AS1428.4
- c) ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH MCC205
- d) SWLM - INDICATES SOLID WHITE 'LONGLIFE' LINE MARKING  
BWLM - INDICATES BROKEN WHITE 'LONGLIFE' LINE MARKING

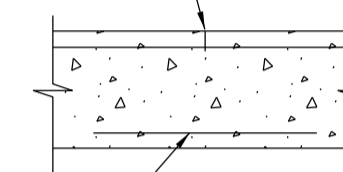
**SIGNAGE & LINEMARKING PLAN**  
SCALE 1:500  
SCALE 1:500 @ A1

LENGTHS ARE IN METRES

AMENDMENTS		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF.	388-C-10	<b>RATHDOWNE ESTATE STAGE 14</b>	
		SURVEY	BPD		
		DESIGN	GL	MUNICIPALITY WHITTLESEA	
		DRAWN	PG	REFERENCE 9365 E/14	
VER	DATE	REMARKS	CHECKED	SCALE	AS SHOWN
	17/02/22	ISSUE FOR CONSTRUCTION		DATUM	AHD
				DATE	OCT '21
				SHEET	13 OF 14

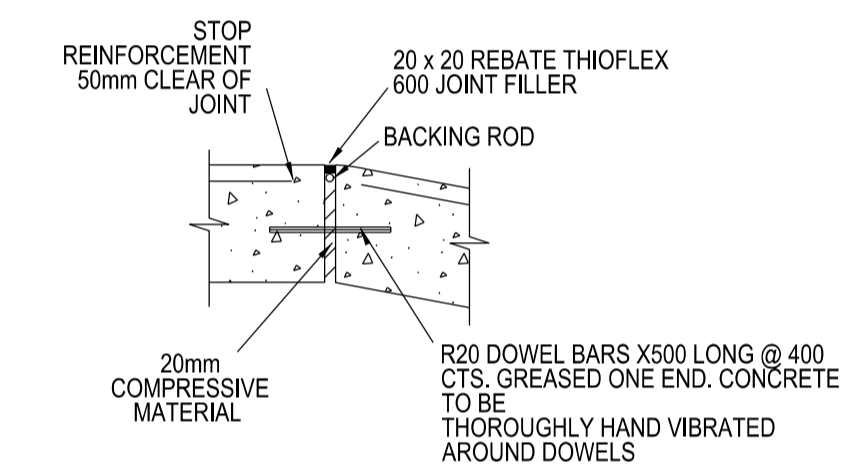


3mm WIDE x 50mm DEEP SAWCUT  
TO BE FORMED AS SOON AS THE SLAB CAN  
SUPPORT EQUIPMENT AND WITHIN  
24 HOURS OF POURING




200 RC SLAB (32MPa)  
S12 MESH TOP AND  
BOTTOM WITH MIN 40mm  
COVER

SAWCUT JOINT (SC) DETAIL



EXPANSION JOINT (EJ) DETAIL

**AS CONSTRUCTED**

		 <b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
				MUNICIPALITY WHITTLESEA	
		MELWAY REF. 388-C-10		RATHDOWNE ESTATE STAGE 14 SAW CUT PLAN	
		SURVEY BPD		REFERENCE 9365 E/14	
		DESIGN GL		DRAWN PG	
AMENDMENTS				SCALE AS SHOWN	DATUM AHD
VER	DATE	REMARKS	CHECKED	DATE	OCT '21
				SHEET 14 OF 14	A