

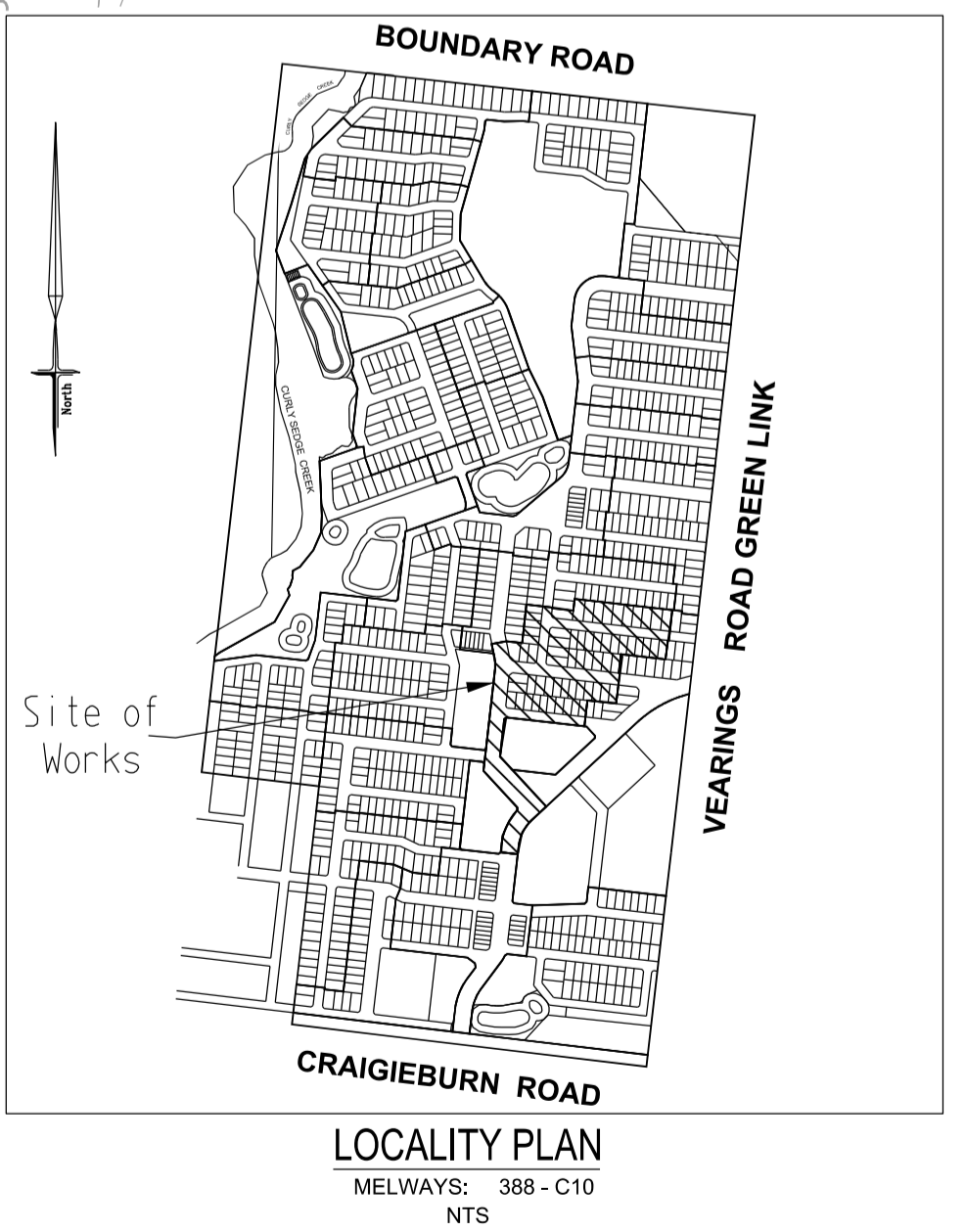
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2	K	DETAIL PLAN SHEET 2 OF 2
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WARNING
CONTRACTOR TO TAKE EXTRA CAUTION OF OPTIC FIBRE CABLE IN DAVIS ROAD

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.



PLAN
SCALE 1:500
SCALE 1 : 500
LENGTHS ARE IN METRES

SYMBOL LEGEND

Prop	Exist	Ex/Natural/FS Level +0.50
Drains	Sever <300	FS @ Building Line
Sever >300	Water	Top/Toe of Batter
House Drain	Property Inlet	Top Ret. Wall Level
Street Sign	100yr Flood Level	Fill Prop/Ex
Retaining Wall	Conduits 50mm	Cut Prop/Ex
Conduits 100mm	Ex Gas/Elect/Tel	

AMENDMENTS	DATE	REMARKS
P	24-05-19	BUS HARDSTANDS REMOVED, SHEET INDEX UPDATED
O	29-04-19	COUNCIL COMMENTS
N	26-04-19	COUNCIL COMMENTS
M	18-04-19	BUS HARDSTANDS INCLUDED ON NORTH & RATHDOWNE SHEET INDEX UPDATED
L	05-04-19	NORTH / PORTOFINO INTERSECTION UPDATED SHEET INDEX UPDATED
K	18-01-19	CYCLE/PEDESTRIAN PATH SEPARATED ON NORTH STREET SHEET INDEX UPDATED
A	19-12-17	ISSUED FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers

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

MELWAY REF. 388-C10

RATHDOWNE ESTATE
STAGE 2
DETAIL PLAN SHEET 1 OF 2

MUNICIPALITY WHITTLESEA

REFERENCE 9365 E/2

SCALE AS SHOWN **DATUM** AHD **DATE** JUL '17 **SHEET** 1 OF 21

FOR CONTINUATION REFER SHEET 2

FUTURE STAGE 5A
PASSIVE OPEN SPACE

FUTURE STAGE 2A
INTEGRATED SITE

FUTURE STAGE 4

FUTURE STAGE 7

INTEGRATED SITE

PLAN

SCALE 1:500

SCALE 1:500

LENGTHS ARE IN METRES

WARNING
CONTRACTOR TO TAKE EXTRA CAUTION
OF OPTIC FIBER CABLE IN DAVIS ROAD

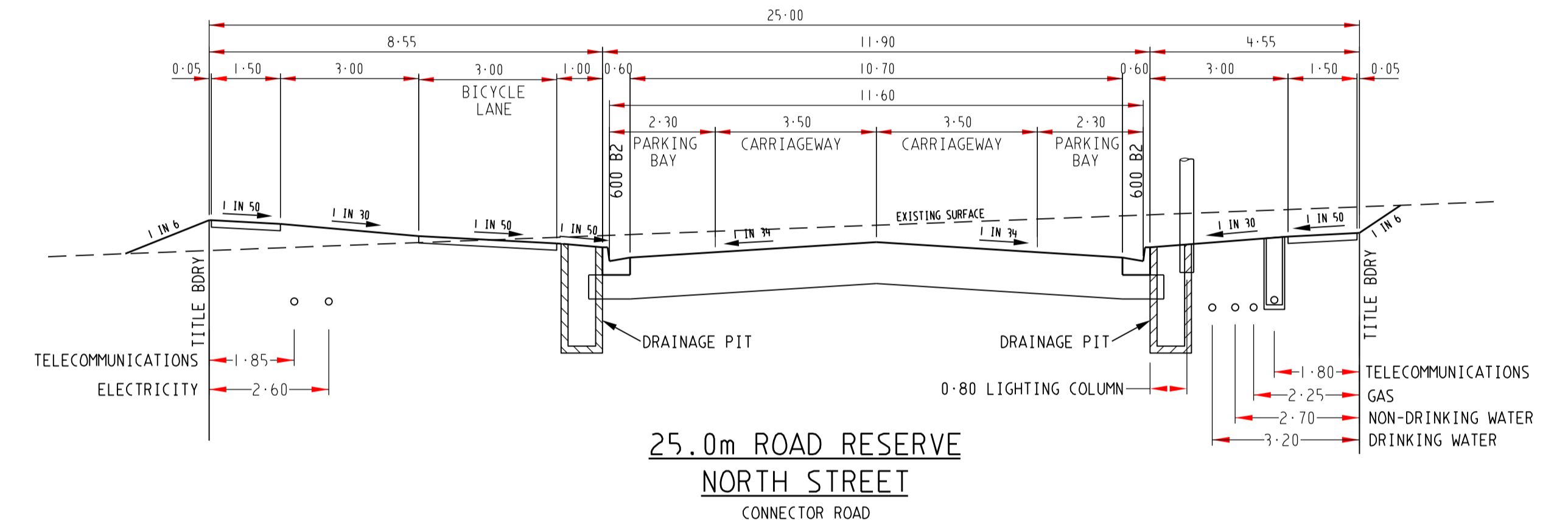
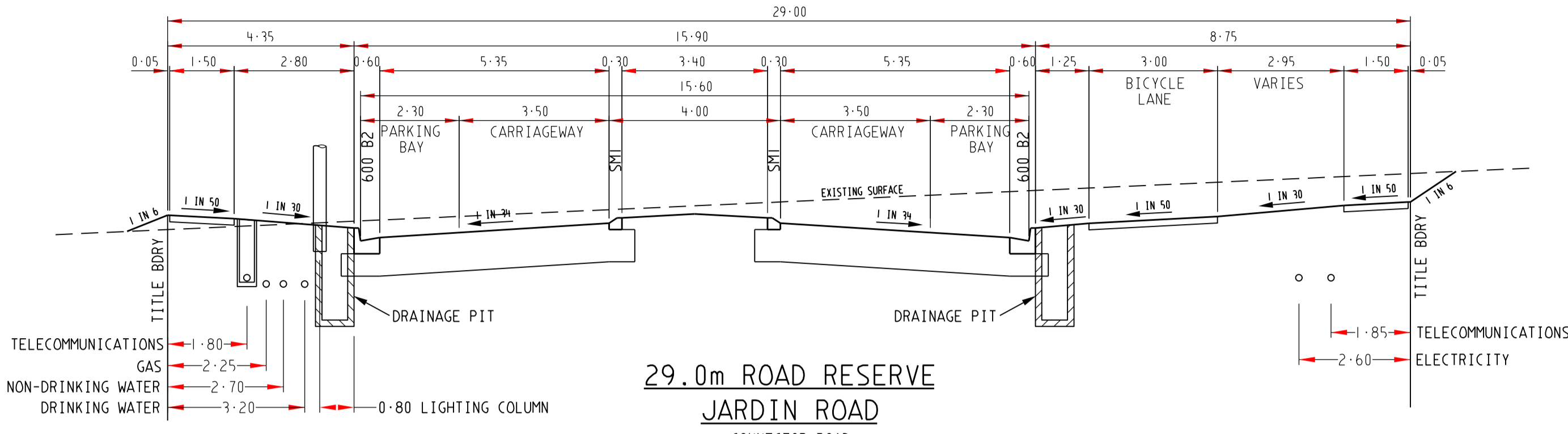
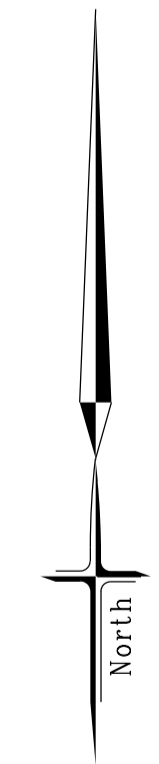
WARNING
BEWARE OF UNDERGROUND SERVICES
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ATTENTION TO CONTRACTOR

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

SYMBOL LEGEND

Drains Sewer <300 Sewer >300 Water House Drain Property Inlet Street Sign PSM Retaining Wall Conduits 50mm Conduits 100mm Ex Gas/Elect/Tel		Ex/Natural/FS Level FS @ Building Line Top/Toe of Batter Top Ret. Wall Level 100yr Flood Level Fill Prop/Ex Cut Prop/Ex
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TYPICAL ROAD CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

SERVICES OFFSETS AND LOCATIONS

STREET NAME	RD. RESERVE	WATER		GAS	ELECTRICITY		FIBRE TO THE HOME		Bk. of KRRB	JOINT TRENCHING	STREET CLASSIFICATION	STREET TREES
		DW	NDW		CABLES	POLES	PTH CABLES	PTH PITS				
JARDIN ROAD	29.00	3-20 W	2-70 W	2-25 W	2-60 E	0-90 BOK	1-85 E	1-78 E/W	4-35 W 8-75 E	G & W, FTTH & E	CONNECTOR ROAD	2-95W, 3-05E
NORTH STREET	25.00	3-20 E	2-70 E	2-25 E	2-60 W	0-90 BOK	1-85 W	1-78 E/W	4-35 E 8-55 W	G & W, FTTH & E	STREET - LEVEL I	3-25N, 4-72S
MEADOW LANE	16.00	3-20 N	2-70 N	2-25 N	2-50 S	0-90 BOK	1-85 S	1-78 N/S	4-35 N 4-05 S	G & W, FTTH & E	STREET - LEVEL I	2-95N, 2-80S
GLENWOOD AVENUE	20.00	5-30 N	4-80 N	4-30 N	2-60 S	0-90 BOK	1-85 S	1-78 N/S	4-95 S 7-45 N	G & W, FTTH & E	STREET - LEVEL I	4-72N, 3-25S
YORK PARADE	16.00	3-20 E	2-70 E	2-25 E	2-50 W	0-90 BOK	1-85 W	1-78 E/W	4-35 E 4-05 W	G & W, FTTH & E	STREET - LEVEL I	2-80W, 2-95E
CARMICHAEL DRIVE	16.00	3-20 S	2-70 S	2-25 S	2-60 N	0-90 BOK	1-85 N	1-78 N/S	4-35 S 4-05 N	G & W, FTTH & E	STREET - LEVEL I	2-80N, 2-95S
PORTOFINO WAY	20.00	5-30 S	4-80 S	4-30 S	2-60 N	0-90 BOK	1-85 N	1-78 N/S	4-95 N 7-45 S	G & W, FTTH & E	STREET - LEVEL I	

VER	DATE	REMARKS	CHECKED
K	24-05-19	BUS HARDSTANDS REMOVED	
J	26-04-19	COUNCIL COMMENTS	
I	18-04-19	BUS HARDSTANDS ADDED TO NORTH & RATHDOWNE RAISED PAVEMENT AMENDED	
H	07-03-19	RAISED PAVEMENT AT PORTOFINO / NORTH PATHS & TGI AMENDMENTS	
G	07-03-19	PATHS SEPARATED ALONG NORTH STREET	
F	22-01-19	DRAINAGE PITS 66 & 67 INCLUDED	
A	19-12-17	ISSUED FOR CONSTRUCTION	

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 coto street
hawthorn east, 3123
telephone 8823 2300
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**RATHDOWNE ESTATE
STAGE 2
DETAIL PLAN SHEET 2 OF 2**

MUNICIPALITY
WHITTLESEA

REFERENCE
9365 E/2

SHEET 2 OF 21

DATE JUL '17

SCALE AS SHOWN DATUM AHD

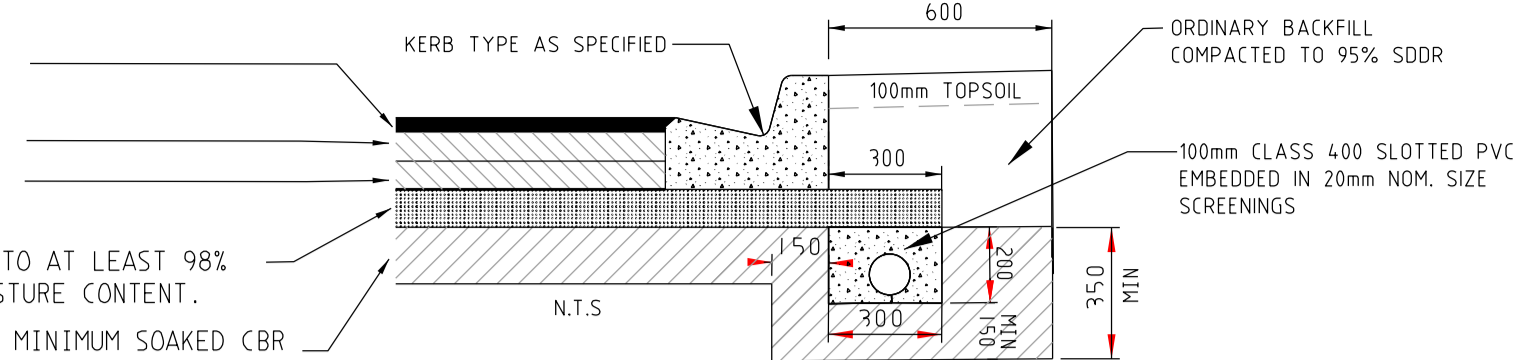
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NOTES

- 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 IS 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 RRJ UP TO AND INCLUDING 750mm DIAMETER. ALL DRAINS THAT CROSS UNDER ROAD PAVEMENTS ARE TO BE RRJ CLASS 2 R.C.P.
- JOINING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (RRJ'S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES)
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.
- LOTS DENOTED THUS 416H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN PLACED 7.0m 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 ENCRANCH 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 BACKFILLED 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 LOGGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- AGRICULTURAL PIPE DRAINS 100mm PVC CLASS 4 TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER (REFER TO COUNCIL STANDARD DRAWINGS), WHERE KERB AND CHANNEL IS LOCATED ON TITLE BOUNDARY AG'S ARE TO BE PLACED BENEATH KERB AND 750mm BELOW TOP OF KERB.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 2 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289.5.2.1-2003. EXCEPT WHERE DRAINS UP TO AND INCLUDING 450mm DIA. PIPES ARE LOCATED BEHIND KERB, THESE TRENCHES ARE TO BE BACKFILLED WITH SCREENINGS IN LIEU OF AG'S.
- AGRICULTURAL DRAINS ARE TO BE 760mm BELOW TOP OF KERB.
- BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF RUBBISH AND SPOIL FROM SITE.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO COMMENCEMENT OF WORKS.
- ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA, PRIOR TO THE CONSTRUCTION OF FOOTPATH BAYS ADJACENT TO THESE PITS.
- THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETE MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- ALL GAS AND WATER CONDUIT TYPES ARE PVC CLASS 12 WITH A 50mm DIAMETER FOR RESIDENTIAL LOTS.
- TELSTRA/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 SDB12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.
- ALL DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT (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.

35. PAVEMENT TO CONSIST OF: JARDIN ROAD AND NORTH STREET (540mm DEPTH)

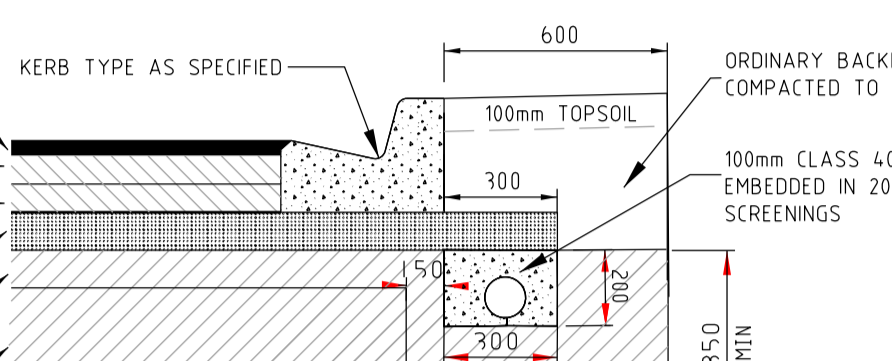
- 40mm COMPACTED DEPTH SIZE 14 TYPE H ASPHALT WITH A C320 BINDER (ASPHALT TO BE 5mm PROUD OF LIP OF KERB)
- 75mm COMPACTED DEPTH SIZE 20 TYPE S1 ASPHALT WITH A C320 BINDER
- 75mm COMPACTED DEPTH SIZE 20 TYPE SF ASPHALT WITH A C320 BINDER
- BITUMINOUS PRIME
- 100mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 CR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- 250mm COMPACTED DEPTH OF SELECT GRANULAR MATERIAL "TYPE A" WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 1.5%



PAVEMENT DETAILS JARDIN ROAD & NORTH STREET

PAVEMENT TO CONSIST OF: INTERSECTION NORTH STREET / JARDIN ROAD (600mm DEPTH)

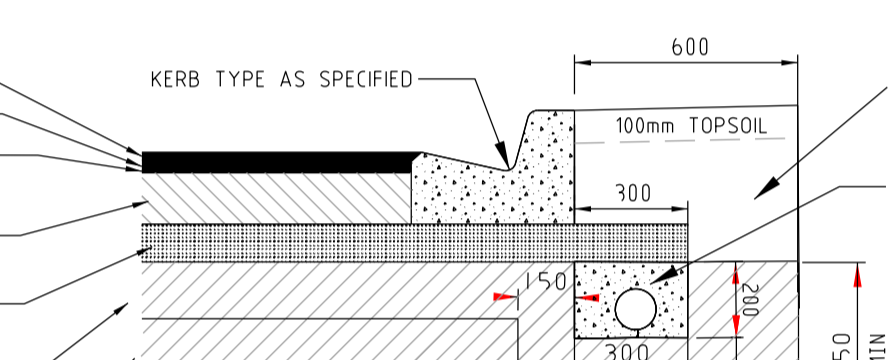
- 40mm COMPACTED DEPTH SIZE 14 TYPE V ASPHALT WITH A C320 BINDER (ASPHALT TO BE 5mm PROUD OF LIP OF KERB)
- 75mm COMPACTED DEPTH SIZE 20 TYPE S1 ASPHALT WITH A C320 BINDER
- 75mm COMPACTED DEPTH SIZE 20 TYPE SF ASPHALT WITH A C320 BINDER
- BITUMINOUS PRIME
- 100mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 3 CEMENT MODIFIED CR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa AND A MAXIMUM YOUNG'S MODULUS OF 1500MPa.
- 100mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 4 CR, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- 210mm COMPACTED DEPTH OF SELECT GRANULAR MATERIAL "TYPE A" WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO 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>2.0%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. SUBGRADE IMPROVEMENT FOR SOFT OR ROCK AREAS, TO BE 150mm MINIMUM DEPTH OF COMPACTED CLASS 3 FCR* OR APPROVED EQUIVALENT MATERIAL.



PAVEMENT DETAILS INTERSECTION JARDIN ROAD & NORTH STREET

PAVEMENT TO CONSIST OF: PORTOFINO WAY (580mm DEPTH)

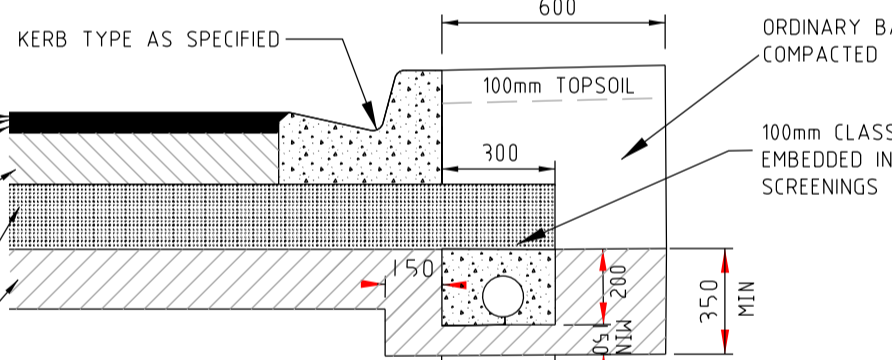
- 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH A C170 BINDER
- 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH A C170 BINDER
- SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINOUS PRIME
- BITUMINOUS PRIME
- 130mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- 100mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 3 CEMENT MODIFIED CR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa AND A MAXIMUM YOUNG'S MODULUS OF 1500MPa.
- 140mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 4 FCR, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- 150mm COMPACTED DEPTH OF SELECT GRANULAR MATERIAL "TYPE A" WITH A MINIMUM CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO 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>2.5%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. SUBGRADE IMPROVEMENT FOR SOFT OR ROCK AREAS, TO BE 150mm MINIMUM DEPTH OF COMPACTED CLASS 3 FCR* OR APPROVED EQUIVALENT MATERIAL.



PAVEMENT DETAILS PORTOFINO WAY

PAVEMENT TO CONSIST OF: GLENWOOD AVENUE AND YORK PARADE (500mm DEPTH)

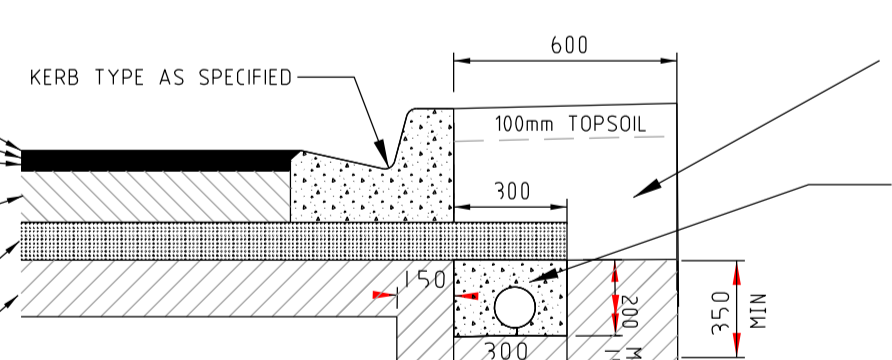
- 40mm COMPACTED DEPTH SIZE 14 TYPE N ASPHALT WITH A C170 BINDER
- GLASGRID G68511TF PLACED AS PER MANUFACTURERS SPECIFICATIONS
- 20mm COMPACTED DEPTH SIZE 7 TYPE N ASPHALT WITH A C170 BINDER
- SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINOUS PRIME
- 130mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- 160mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 3 CEMENT MODIFIED CR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa AND A MAXIMUM YOUNG'S MODULUS OF 1500MPa.
- 150mm COMPACTED DEPTH OF SELECT GRANULAR MATERIAL "TYPE A" WITH A MINIMUM CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO 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>2.5%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. SUBGRADE IMPROVEMENT FOR SOFT OR ROCK AREAS, TO BE 150mm MINIMUM DEPTH OF COMPACTED CLASS 3 FCR* OR APPROVED EQUIVALENT MATERIAL.



PAVEMENT DETAILS GLENWOOD AVENUE AND YORK PARADE

PAVEMENT TO CONSIST OF: MEADOW LANE AND CARMICHAEL DRIVE (450mm DEPTH)

- 40mm COMPACTED DEPTH SIZE 14 TYPE N ASPHALT WITH A C170 BINDER
- GLASGRID G68511TF PLACED AS PER MANUFACTURERS SPECIFICATIONS
- 20mm COMPACTED DEPTH SIZE 7 TYPE N ASPHALT WITH A C170 BINDER
- SAMI SEAL WITH CLASS S18RF BINDER AND BITUMINOUS PRIME
- 130mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT.
- 110mm COMPACTED DEPTH OF 20mm NOMINAL SIZE CLASS 3 CEMENT MODIFIED CR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa AND A MAXIMUM YOUNG'S MODULUS OF 1500MPa.
- 150mm COMPACTED DEPTH OF SELECT GRANULAR MATERIAL "TYPE A" WITH A MINIMUM CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO 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>2.5%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. SUBGRADE IMPROVEMENT FOR SOFT OR ROCK AREAS, TO BE 150mm MINIMUM DEPTH OF COMPACTED CLASS 3 FCR* OR APPROVED EQUIVALENT MATERIAL.



PAVEMENT DETAILS MEADOW LANE AND CARMICHAEL DRIVE

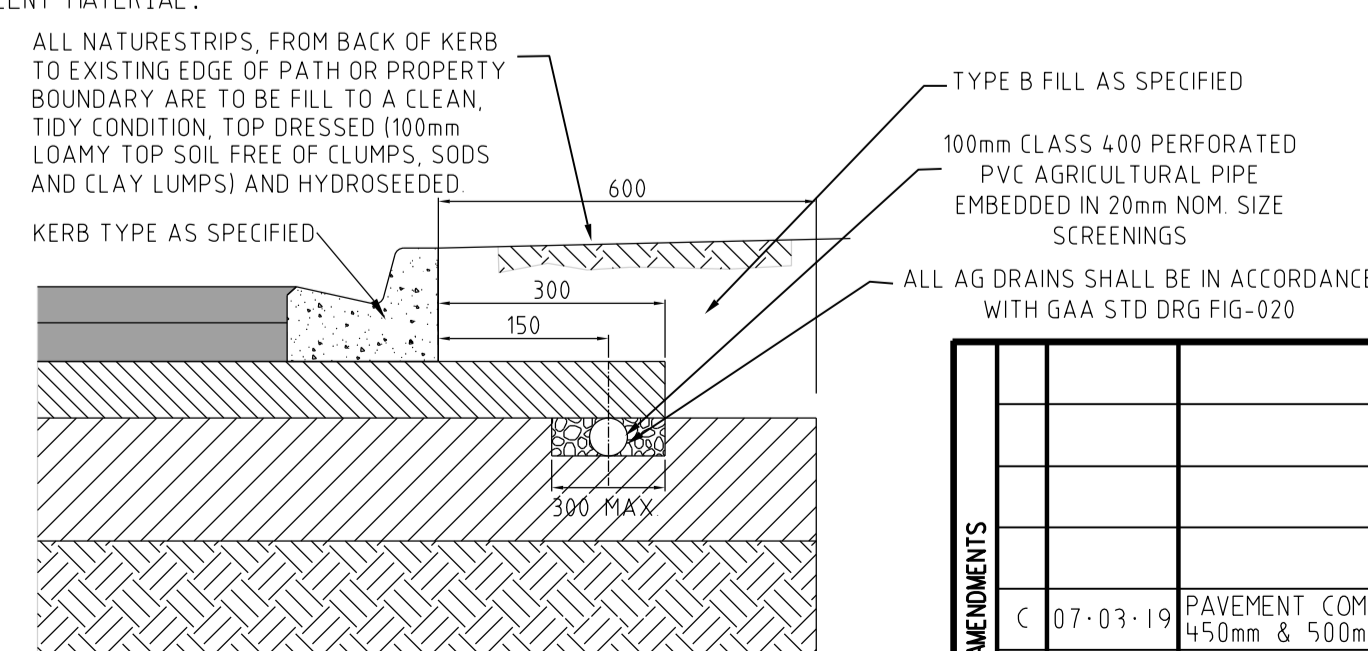
36. PAVEMENT DEPTH MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.

37. 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.

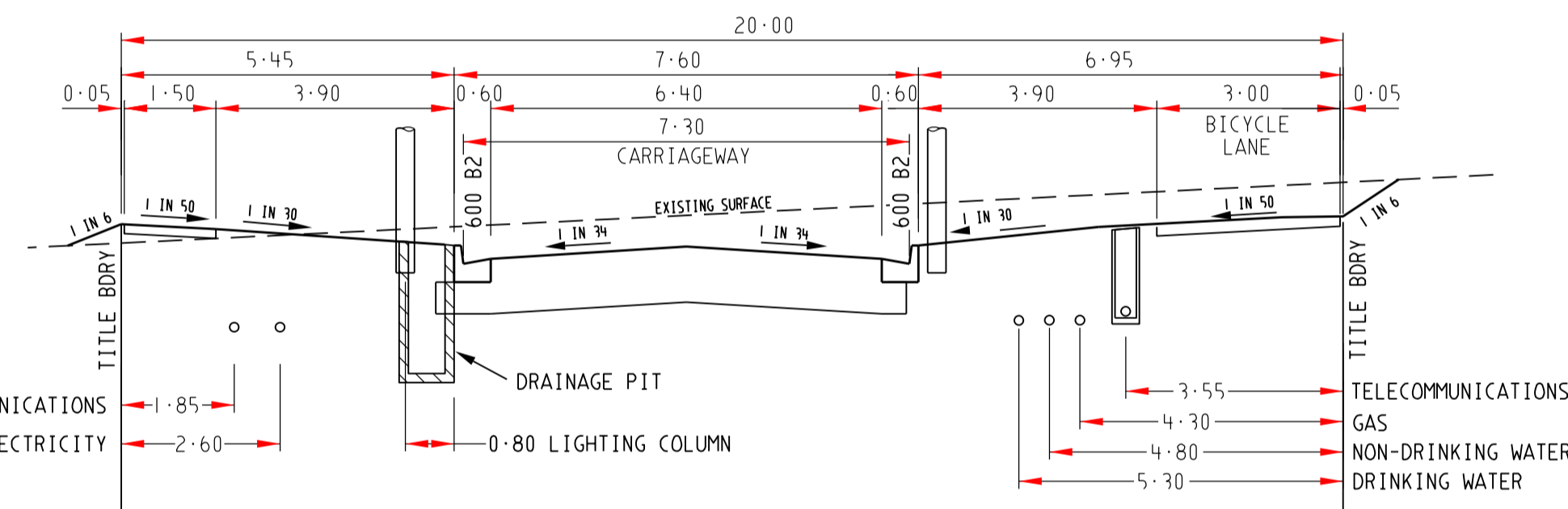
38. THE CONTRACTOR IS TO ORGANISE AND PAY FOR TESTING OF PAVEMENT BASE COURSE MATERIAL AND FINAL LAYER OF CRUSHED ROCK. A COPY OF RESULTS IS TO BE FORWARDED TO THE DIRECTOR OF ENGINEERING OR HIS REPRESENTATIVE. THE RESULTS MUST MEET THE REQUIREMENTS OF THE CITY OF WHITTLESEA SPECIFICATION BEFORE ANY FURTHER WORKS ARE REQUIRED.

39. 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.

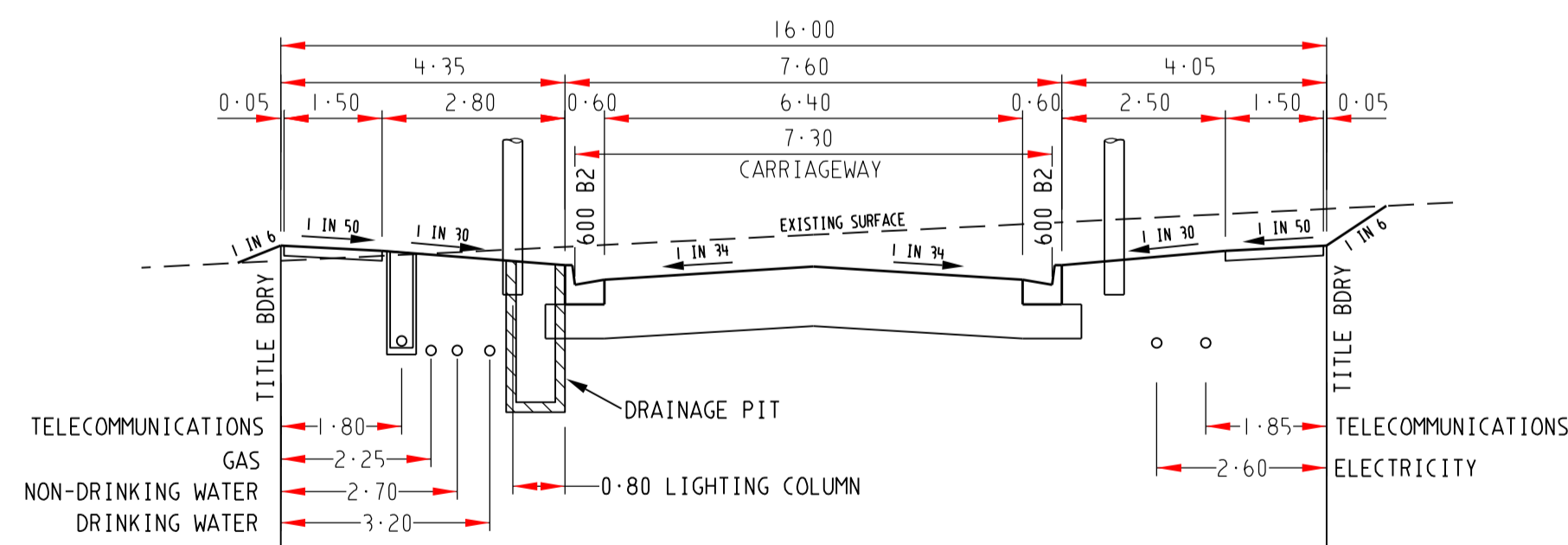
40. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.



PAVEMENT COMPOSITION NOT TO SCALE



20.0m ROAD RESERVE GLENWOOD AVENUE & PORTOFINO WAY LOCAL ACCESS STREET - LEVEL 1

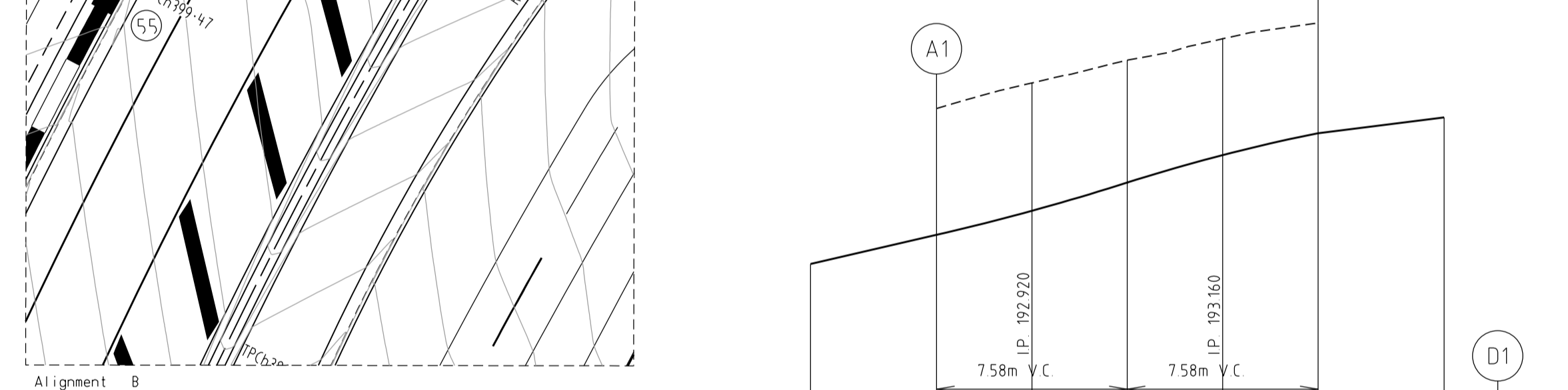
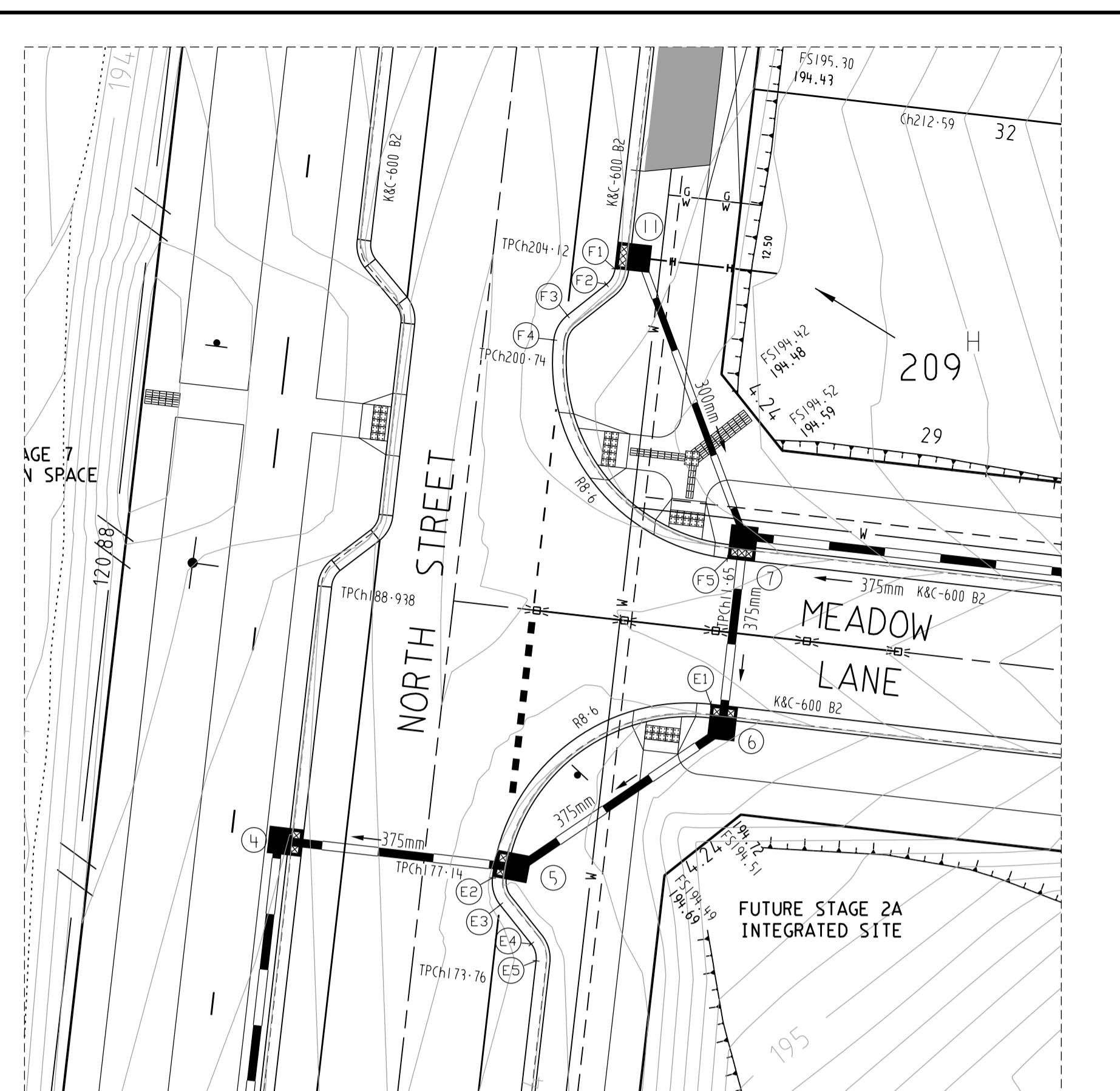
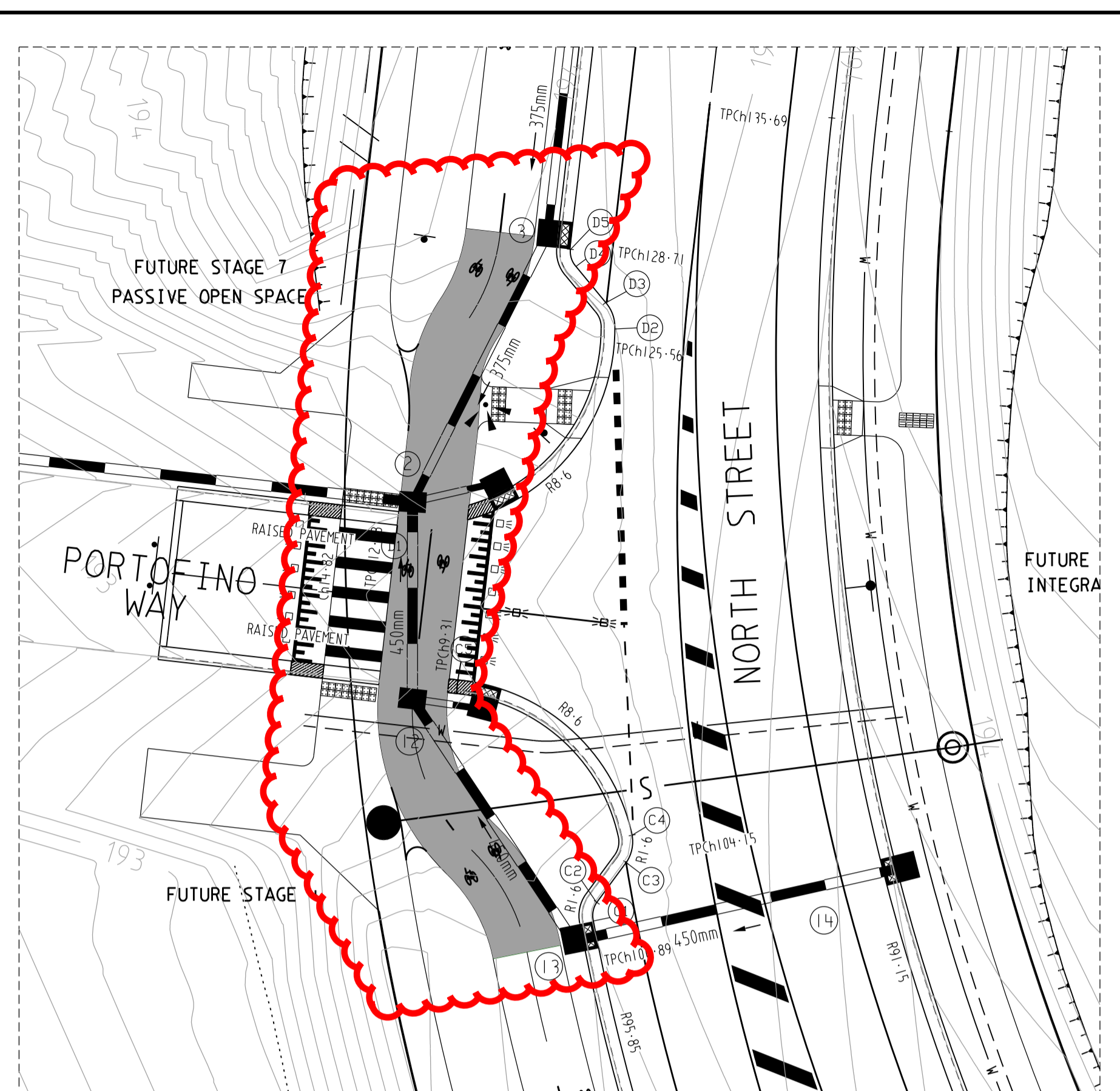
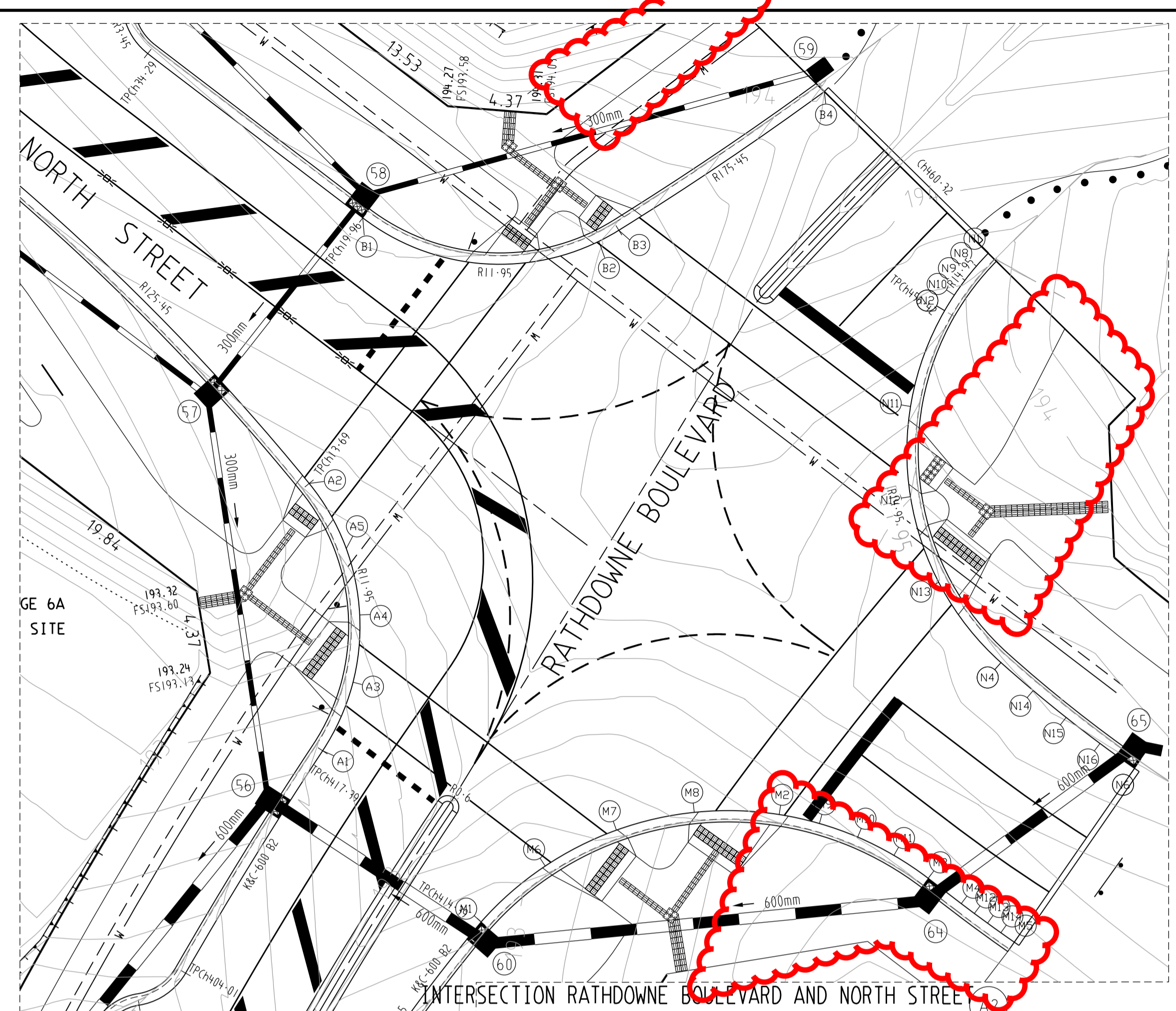


16.0m ROAD RESERVE MEADOW LANE, YORK PARADE & CARMICHAEL DRIVE LOCAL ACCESS STREET - LEVEL 1

TYPICAL ROAD CROSS SECTIONS

SCALE HORIZONTAL 1:100 VERTICAL 1:50

		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. 388-C10		MUNICIPALITY WHITTLESEA	
C 07-03-19 PAVEMENT COMPOSITIONS UPDATED FOR 450mm & 500mm PAVEMENT PROFILES		SURVEY BPD		REFERENCE 8352 E/2	
B 18-01-19 NOTE 35 AMENDED		DESIGN SS		NOTES AND LOCALITY PLAN	
A 19.12.17 ISSUED FOR CONSTRUCTION		DRAWN SS		SHEET 3 OF 21	
VER		DATE		CHECKED	
REMARKS		SCALE AS SHOWN		DATUM AHD	
DATE		DATE JUL '17		SHEET 3 OF 21	



INTERSECTION NORTH STREET AND PORTOFINO WAY

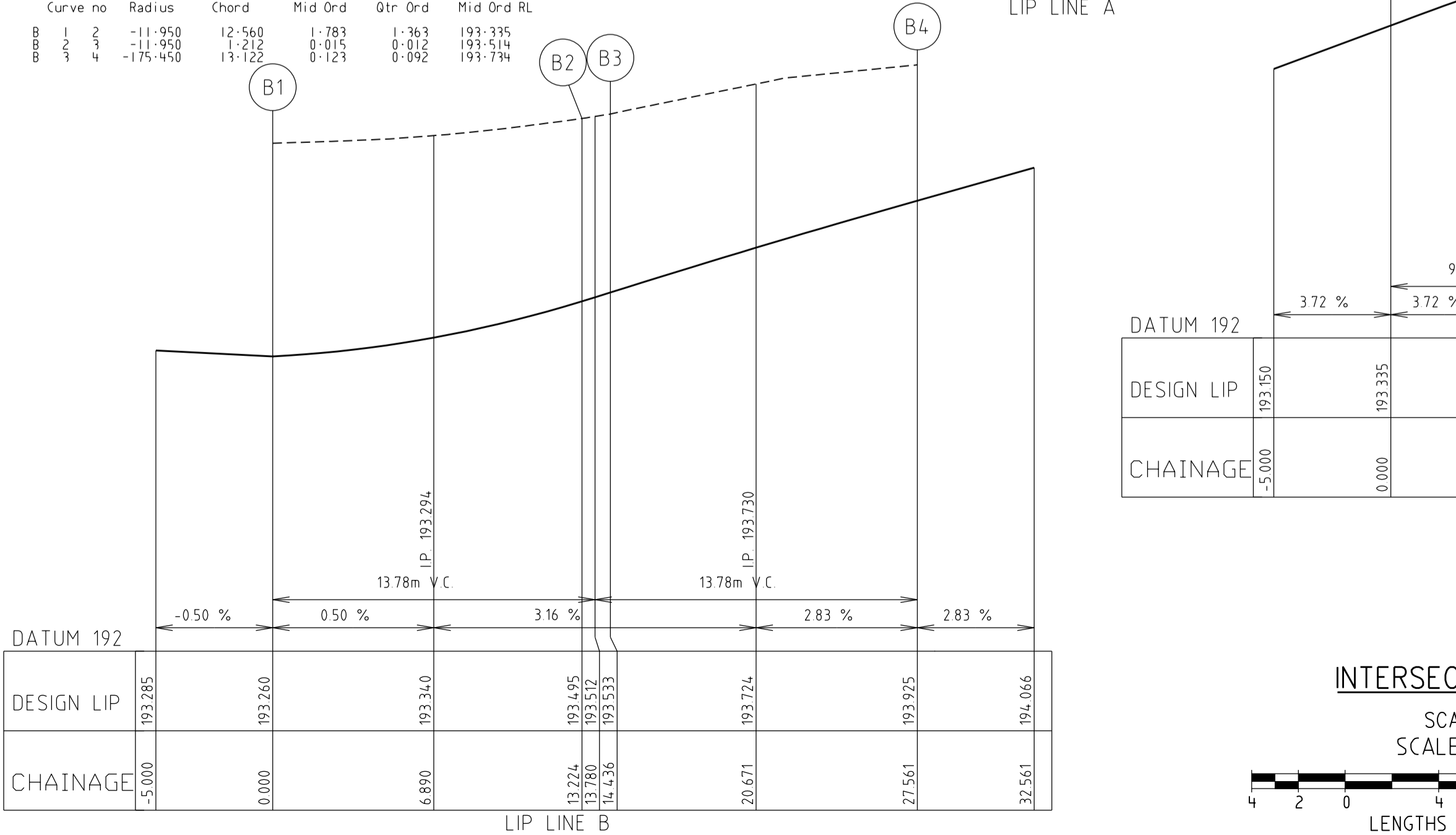
INTERSECTION NORTH STREET AND MEADOW LANE

Alignment A				Alignment C			
Point no	Easting	Northing	RL	Point no	Easting	Northing	RL
A 1	322391.315	5836576.902	192.832	C 1	322338.434	5836662.868	193.704
A 2	322390.604	5836591.042	193.235	C 2	322338.434	5836662.868	193.708
A 3	322392.921	5836580.527	192.933	C 3	322339.852	5836664.435	193.708
A 4	322393.279	5836584.089	193.040	C 4	322340.121	5836666.616	193.701
A 5	322392.566	5836587.597	193.144	C 5	322340.519	5836668.191	193.673

Alignment D				Alignment E			
Point no	Easting	Northing	RL	Point no	Easting	Northing	RL
D 1	322329.890	5836680.132	193.735	E 1	322360.751	5836746.906	194.247
D 2	322339.368	5836688.689	193.797	E 2	322351.234	5836739.324	194.082
D 3	322339.492	5836689.839	193.816	E 3	322351.717	5836738.853	194.086
D 4	322337.428	5836692.146	193.893	E 4	322352.926	5836736.454	194.073
D 5				E 5	322353.137	5836735.718	194.069

Alignment F			
Point no	Easting	Northing	RL
F 1	322356.571	5836765.877	194.122
F 2	322356.200	5836765.208	194.126
F 3	322356.487	5836764.853	194.117
F 4	322353.903	5836762.782	194.143
F 5	322361.147	5836753.204	194.247

Alignment B			
Point no	Easting	Northing	RL
B 1	322393.437	5836605.091	193.260
B 2	322405.936	5836603.852	193.495
B 3	322406.496	5836604.438	193.533
B 4	322417.875	5836601.775	193.925
B 5	322396.427	5836603.424	193.288
B 6	322399.511	5836602.697	193.335
B 7	322402.677	5836602.805	193.401
B 8	322406.206	5836603.988	193.504
B 9	322408.473	5836604.131	193.514
B 10	322408.736	5836604.281	193.523
B 11	322409.767	5836606.196	193.635
B 12	322412.594	5836608.005	193.734
B 13	322415.206	5836609.864	193.831



Alignment C			
Curve no	Radius	Chord	Mid Ord
A 1	-11.950	14.158	2.322
A 2	-11.950	14.158	2.322
A 3	-11.950	14.158	2.322
A 4	-11.950	14.158	2.322
A 5	-11.950	14.158	2.322

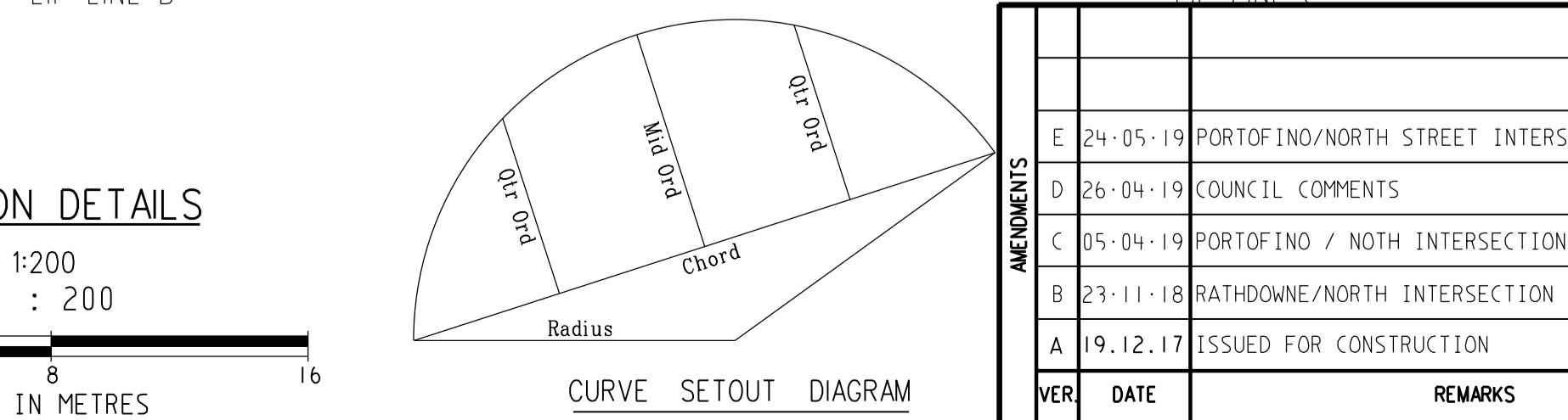
Alignment D			
Curve no	Radius	Chord	Mid Ord
D 1	-8.600	12.769	2.838
D 2	-1.600	1.189	0.115
D 3	-1.000	0.775	0.078
D 4	-1.000	0.775	0.078
D 5	-1.000	0.775	0.078

Alignment E			
Curve no	Radius	Chord	Mid Ord
E 1	-1.000	0.765	0.076
E 2	-1.600	1.255	0.082
E 3	-8.600	12.162	2.519
E 4	-8.600	12.162	2.519
E 5	-8.600	12.162	2.519

Alignment F			
Curve no	Radius	Chord	Mid Ord
F 1	-1.000	0.765	0.076
F 2	-1.600	1.255	0.082
F 3	-8.600	12.162	2.519
F 4	-8.600	12.162	2.519
F 5	-8.600	12.162	2.519

Alignment D			
Point no	Easting	Northing	RL
D 1	322329.890	5836680.132	193.735
D 2	322339.368	5836688.689	193.797
D 3	322339.492	5836689.839	193.816
D 4	322337.428	5836692.146	193.893
D 5			

Alignment E			
Point no	Easting	Northing	RL
E 1	322360.751	5836746.906	194.247
E 2	322351.234	5836739.324	194.082
E 3	322351.717	5836738.853	194.086
E 4	322352.926	5836736.454	194.073
E 5	322353.137	5836735.718	194.069



Alignment F			
Point no	Easting	Northing	RL
F 1	322356.571	5836765.877	194.122
F 2	322356.200	5836765.208	194.126
F 3	322356.487	5836764.853	194.117
F 4	322353.903	5836762.782	194.143
F 5	322361.147	5836753.204	194.247

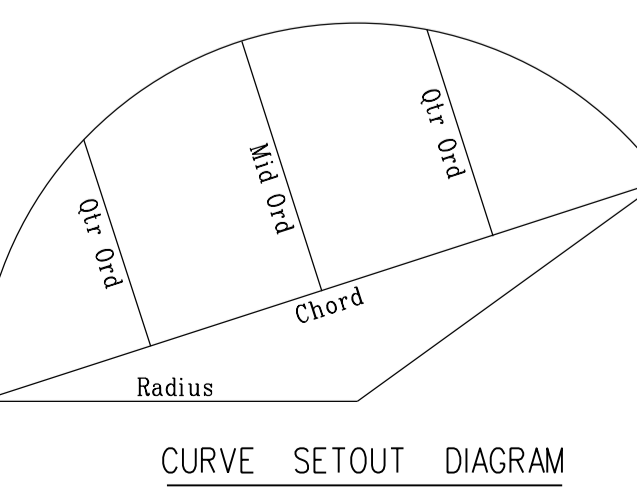
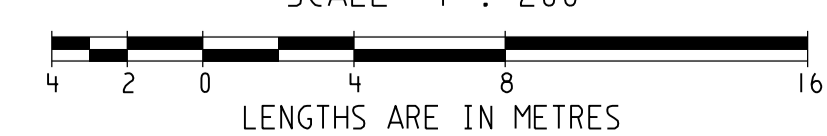
Alignment F			
Curve no	Radius	Chord	Mid Ord
F 1	-1.000	0.765	0.076
F 2	-1.600	1.255	0.082
F 3	-8.600	12.162	2.519
F 4	-8.600	12.162	2.519
F 5	-8.600	12.162	2.519

LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:20

INTERSECTION DETAILS

SCALE 1:200
SCALE 1:200

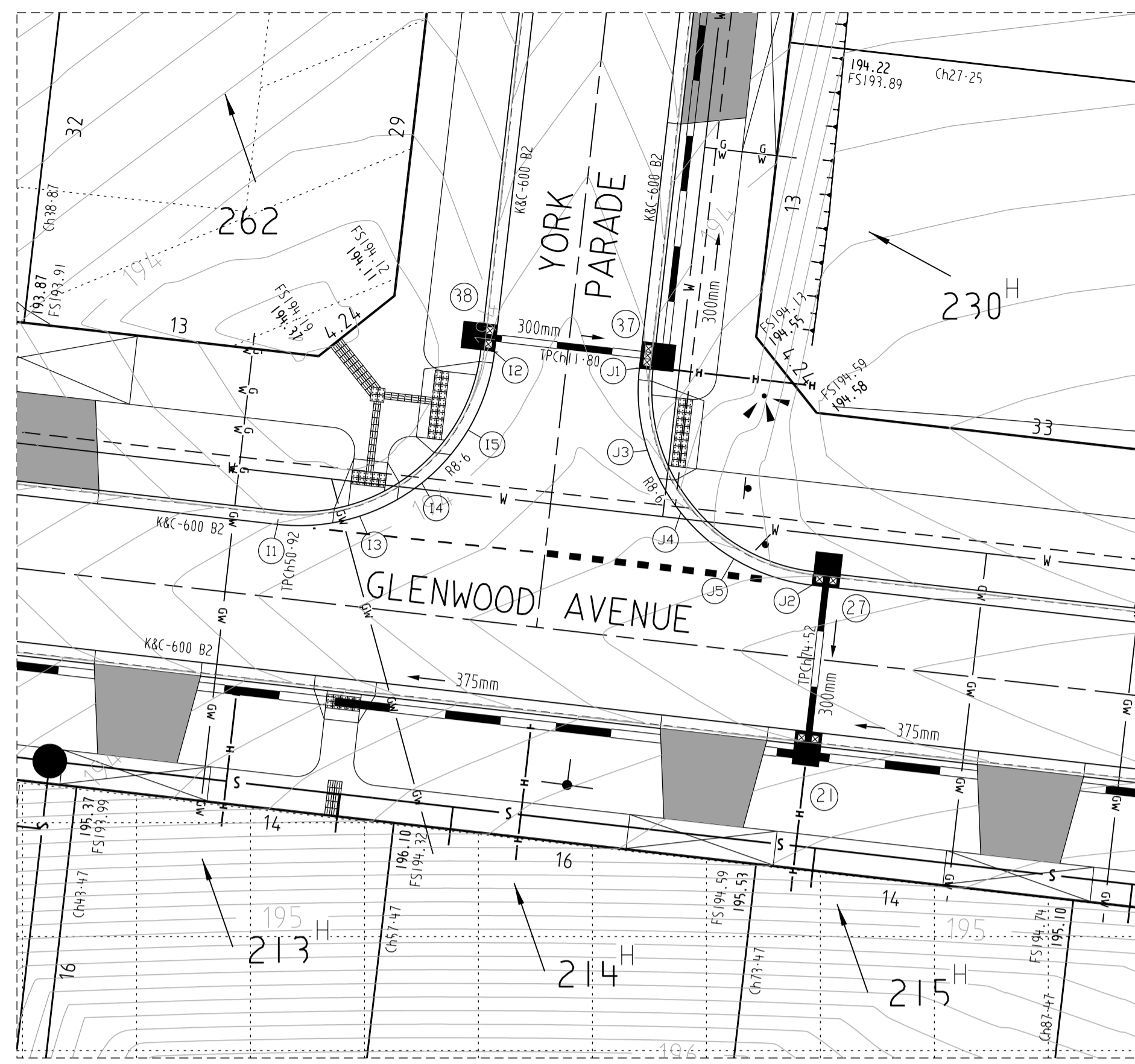


AMENDMENTS	DATE	REMARKS
E	24-05-19	PORTOFINO/NORTH STREET INTERSECTION UPDATED
D	26-04-19	COUNCIL COMMENTS
C	05-04-19	PORTOFINO / NORTH INTERSECTION UPDATED
B	23-11-18	RATHDOWNE/NORTH INTERSECTION UPDATED
A	19-12-17	ISSUED FOR CONSTRUCTION

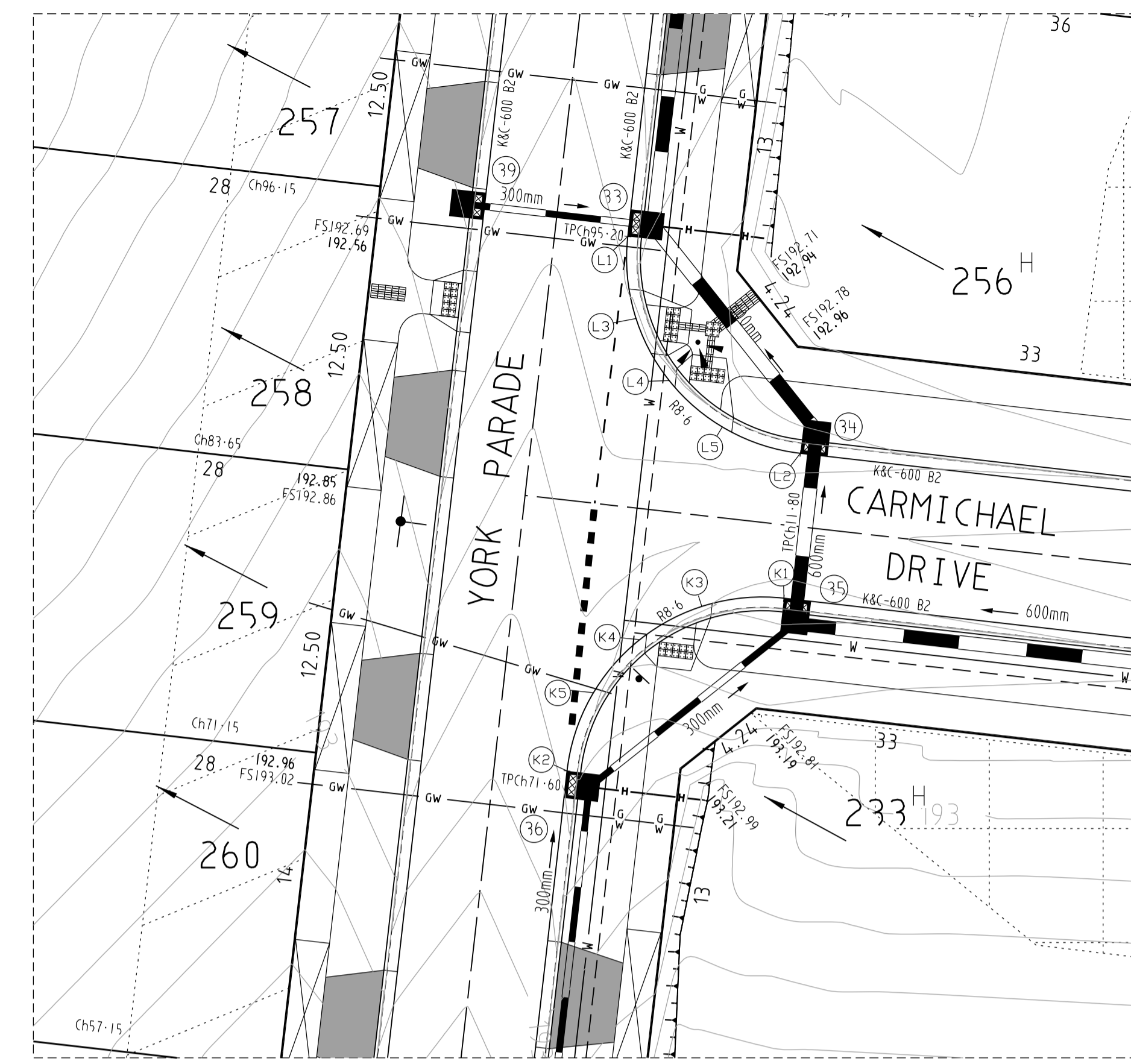
	breese pitt dixon pty. ltd. land surveyors	1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
	RATHDOWNE ESTATE STAGE 2 INTERSECTION DETAILS	MUNICIPALITY WHITTLESEA REFERENCE 9365 E/2
MELWAY REF. 388-C10 SURVEY BPD DESIGN SS DRAWN SS	SCALE AS SHOWN DATUM AHD DATE JUL '17	SHEET 4 OF 21 E



INTERSECTION NORTH STREET AND GLENWOOD AVENUE



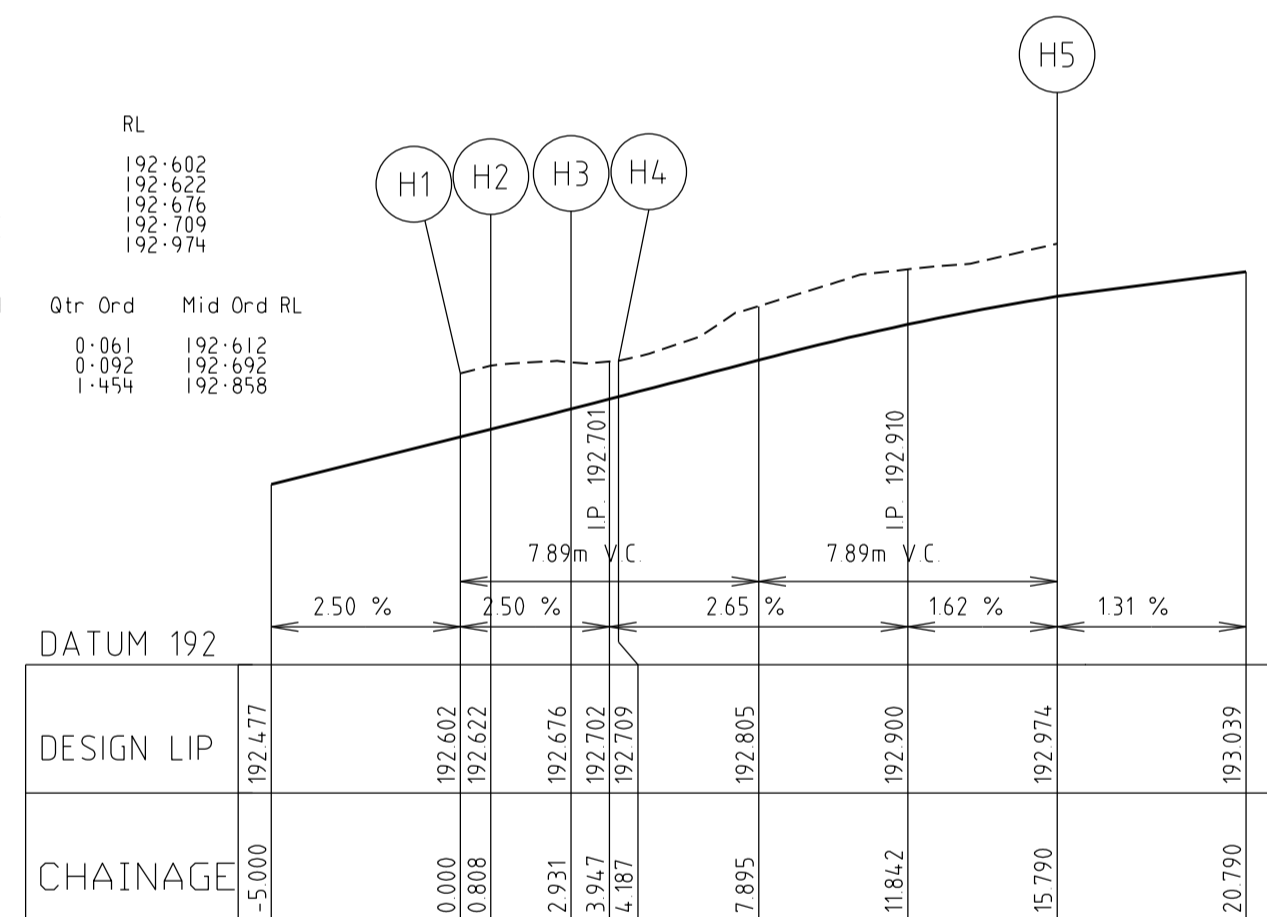
INTERSECTION YORK PARADE AND GLENWOOD AVENUE



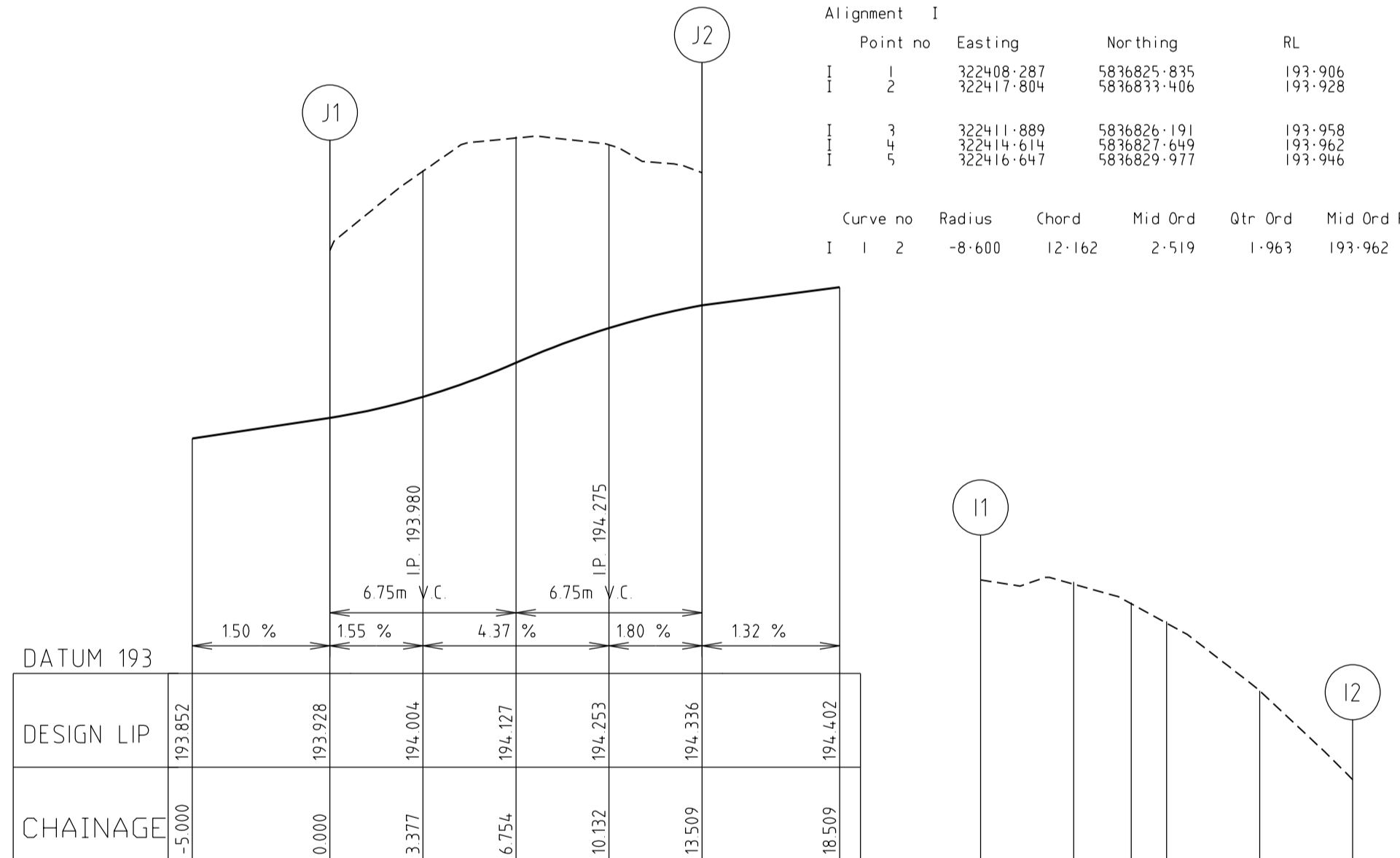
INTERSECTION YORK PARADE AND CARMICHAEL DRIVE

Point no	Easting	Northing	RL
H 1	322361.973	5836841.420	192.602
H 2	322361.773	5836840.672	192.622
H 3	322360.941	5836839.089	192.676
H 4	322359.954	5836837.907	192.709
H 5	322367.692	5836830.457	192.974

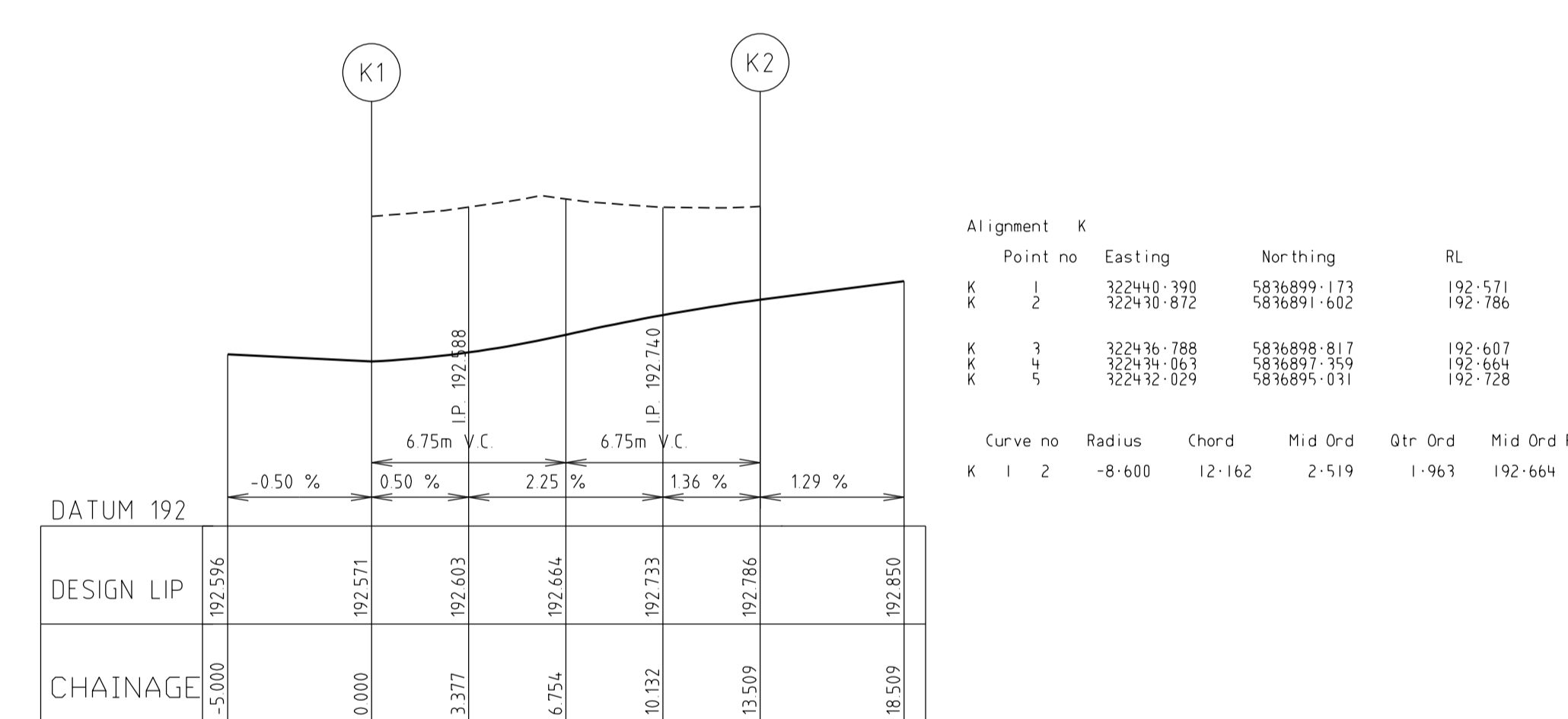
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
H 1	1.000	0.786	0.080	0.061	192.612
H 2	-1.600	1.225	0.122	0.092	192.692
H 3	-8.600	10.743	1.884	1.454	192.858



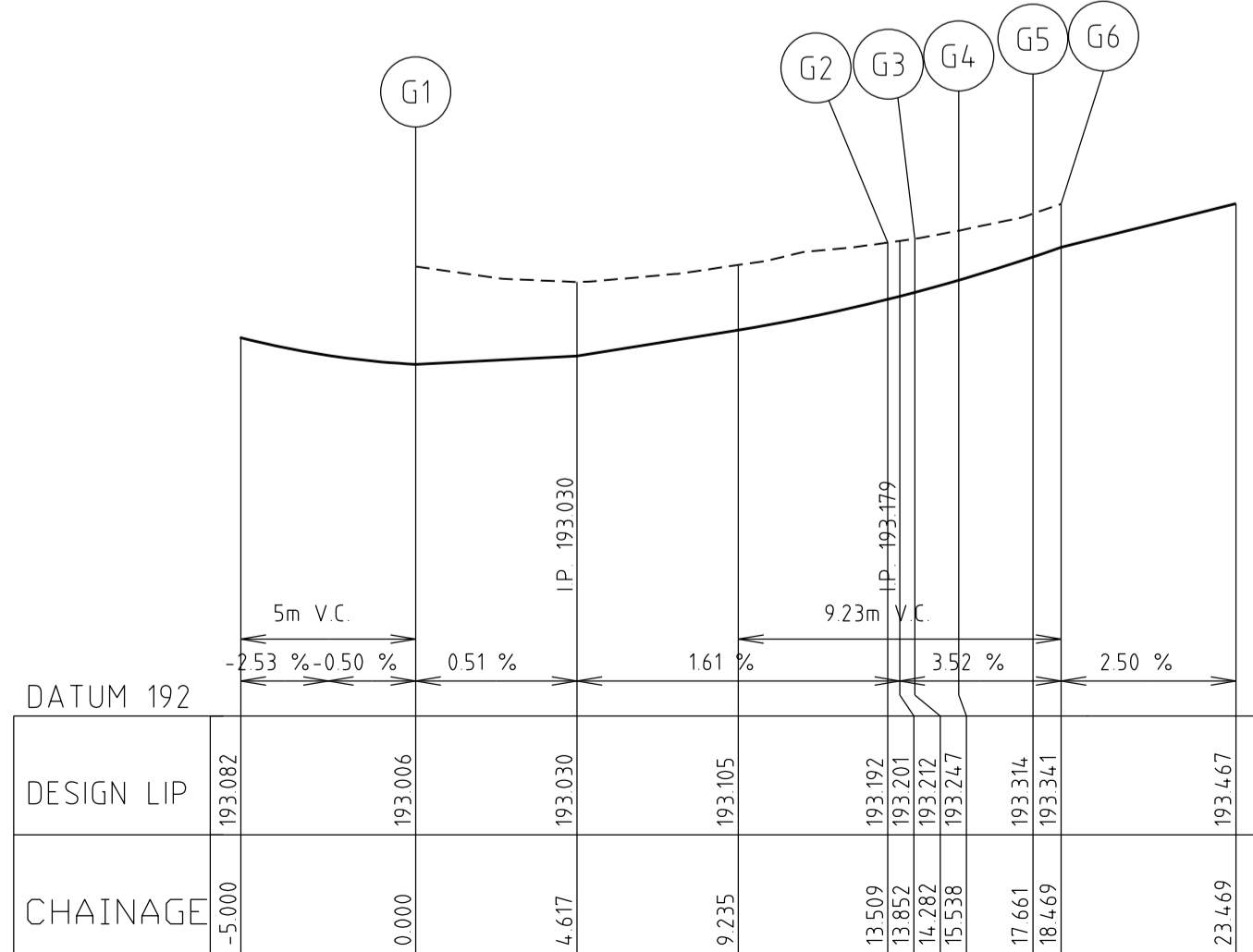
LIP LINE H



LIP LINE J



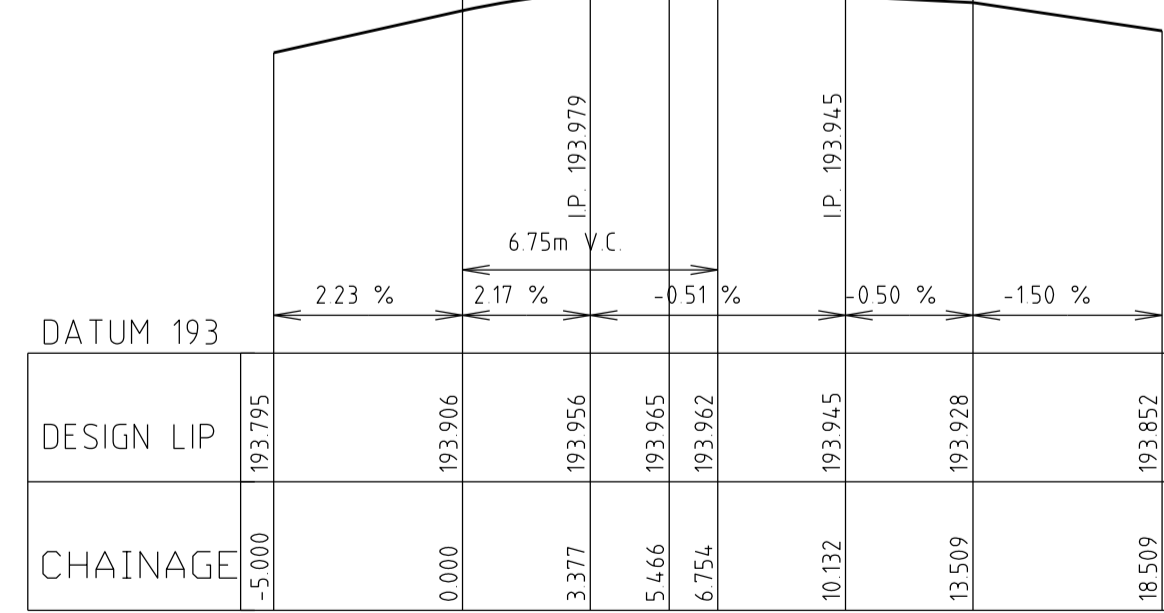
LIP LINE K



LIP LINE G

Point no	Easting	Northing	RL
J1	322424.163	5836832.682	193.928
J2	322431.735	5836823.105	194.336
J3	322424.520	5836829.089	194.012
J4	322425.938	5836826.355	194.128
J5	322428.306	5836824.322	194.245

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
J 1	-8.600	12.162	2.519	1.963	194.128



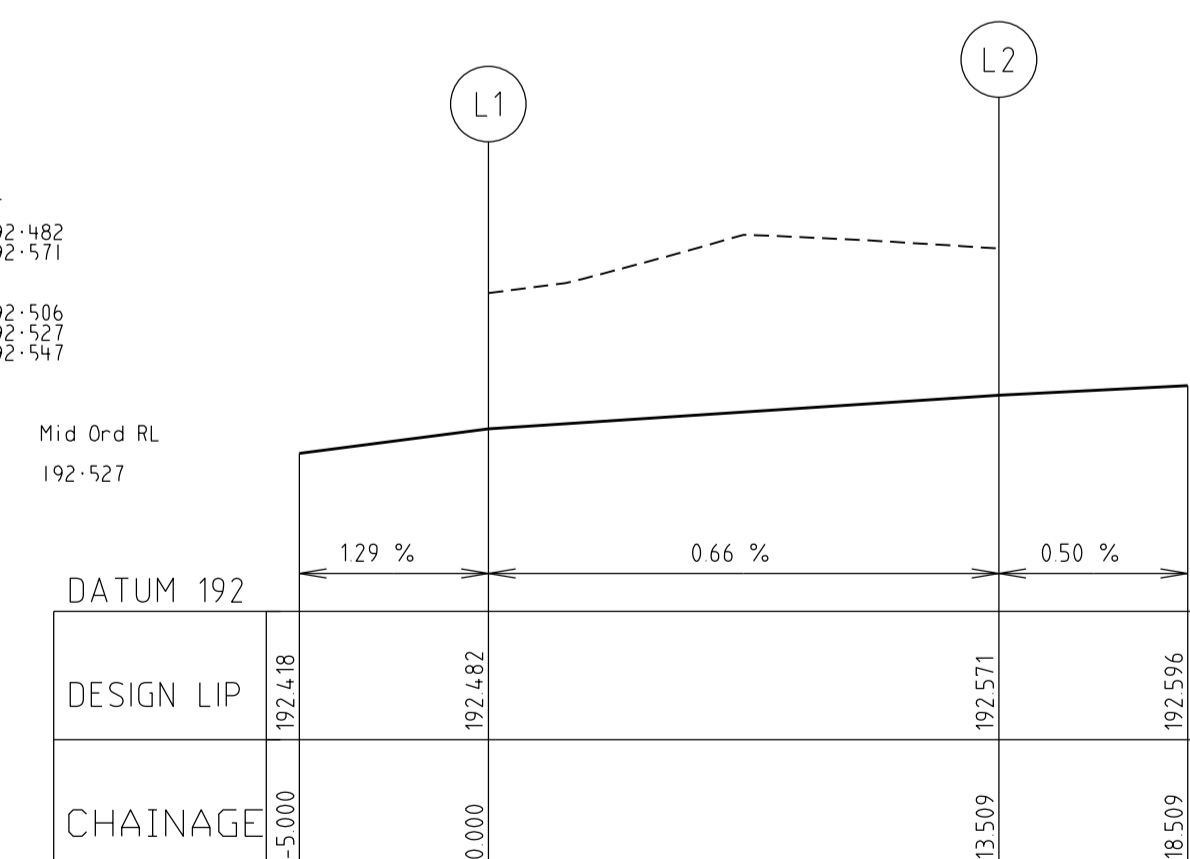
LIP LINE I

Point no	Easting	Northing	RL
L1	322433.542	5836915.050	192.482
L2	322441.114	5836905.532	192.571
L3	322433.898	5836911.448	192.506
L4	322435.357	5836908.723	192.527
L5	322437.684	5836906.689	192.547

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
L 1	-8.600	12.162	2.519	1.963	192.527

LIP OF KERB PROFILES

SCALE: HORIZONTAL 1:200
VERTICAL 1:20



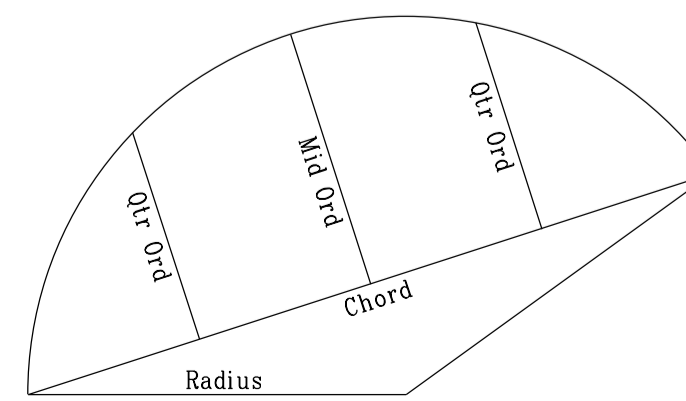
LIP LINE L

INTERSECTION DETAILS

SCALE 1:200

SCALE 1 : 200

LENGTHS ARE IN METRES



CURVE SETOUT DIAGRAM

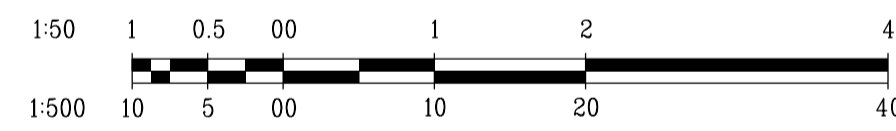
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS C 05.04.19 TGS1 UPDATES B 24.08.18 AMENDMENTS MADE TO DRAINAGE PIT 20 A 19.12.17 ISSUED FOR CONSTRUCTION		MELWAY REF. 388-C10 SURVEY BPD DESIGN SS DRAWN SS		RATHDOWNE ESTATE STAGE 2 INTERSECTION DETAILS MUNICIPALITY WHITTLESEA REFERENCE 8352 E/2	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
			DATE	JUL '17	SHEET 5 OF 21

TRUE LEFT & RIGHT ARE IN THE DIRECTION OF THE INCREASING CHAINAGE

VC LENGTH
DESIGN GRADELINE
DATUM 187

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
189.46			189.34			190.05	250.00
189.50			189.42			190.00	256.26
189.53			189.47			190.03	260.00
189.63			189.65			190.10	268.87
189.66			189.70			190.16	271.76
189.73			189.81			190.31	275.80
189.74			189.82			190.32	276.10
189.74			189.83			190.34	276.57
189.78			189.89			190.42	279.18
189.80			189.91			190.44	279.95
189.80			189.91			190.44	280.00
189.88			190.00			190.50	283.60
189.89			190.00			190.56	283.79
189.98			190.08			190.68	287.16
189.98			190.08			190.68	287.16
190.00			190.16			190.74	291.10
190.01			190.17			190.74	291.10
190.03			190.21			190.82	290.35
190.03			190.21			190.82	290.35
190.08			190.35			190.90	298.60
190.28			190.39			190.95	300.00
190.38			190.53			190.99	306.10
190.43			190.53			190.99	306.10
190.60			190.71			191.06	313.60
190.66			190.76			191.11	315.75
190.67			190.76			191.11	315.75
190.76			190.86			191.19	320.00
190.76			190.86			191.19	320.00
190.78			190.88			191.21	320.82
190.83			190.93			191.22	322.75
190.83			190.93			191.22	322.75
190.90			191.01			191.29	326.01
190.90			191.01			191.29	326.01
191.24			191.34			191.59	340.00
191.40			191.53			191.71	347.87
191.41			191.54			191.72	348.33
191.45			191.61			191.75	351.58
191.65			191.80			191.91	359.21
191.71			191.87			191.97	362.31
191.88			192.02			192.03	368.74
192.10			192.21			192.15	376.45
192.17			192.29			192.26	380.00
192.27			192.39			192.37	384.06
192.40			192.50			192.52	388.74
192.43			192.52			192.55	389.70
192.83			192.75			192.87	399.47
192.83			192.75			192.87	399.47
192.88			192.77			192.88	400.00
192.94			192.86			193.03	404.01
193.15			193.11			193.30	414.39
193.23			193.18			193.37	417.39
193.28			193.22			193.41	419.15
193.29			193.24			193.45	420.00
194.11			193.72			194.00	440.00
194.31			193.96			194.21	449.96
194.47			194.11			194.25	456.42
194.52			194.20			194.31	460.00
194.52			194.20			194.31	460.32
194.53			194.37			194.41	467.11
194.54			194.43			194.40	469.43
194.54			194.43			194.40	469.70
194.56			194.48			194.39	471.94
194.59			194.67			194.56	480.00
194.73			194.80			194.60	480.50
194.73			194.80			194.60	480.50
194.77			194.82			194.69	486.32
194.77			194.82			194.69	486.32
195.37			195.10			194.84	498.06
195.40			195.11			194.85	498.41
195.49			195.15			194.88	500.00
195.63			195.20			194.93	502.35
195.65			195.22			194.96	502.98
195.65			195.22			194.96	502.98
195.85			195.29			194.98	506.36
196.03			195.36			195.06	509.42
196.25			195.52			195.07	517.49
196.25			195.52			195.07	517.49
196.41			195.72			195.34	528.66
196.49			195.78			195.40	532.04
196.60			195.87			195.52	538.41
196.60			195.87			195.52	538.41
196.58			195.90			195.57	540.00
196.73			196.13			196.24	560.00
196.60			196.32			196.66	589.37
196.38			196.33			196.75	592.75
196.59			196.34			196.84	593.67
196.54			196.37			196.61	600.00

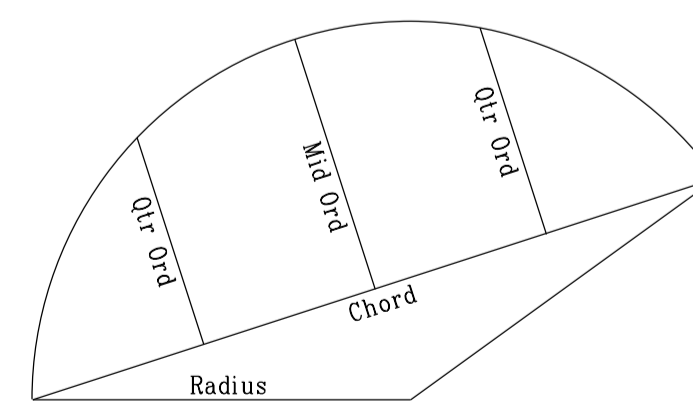
LONGITUDINAL SECTION
SCALE HORIZONTAL 1:500
VERTICAL 1:50



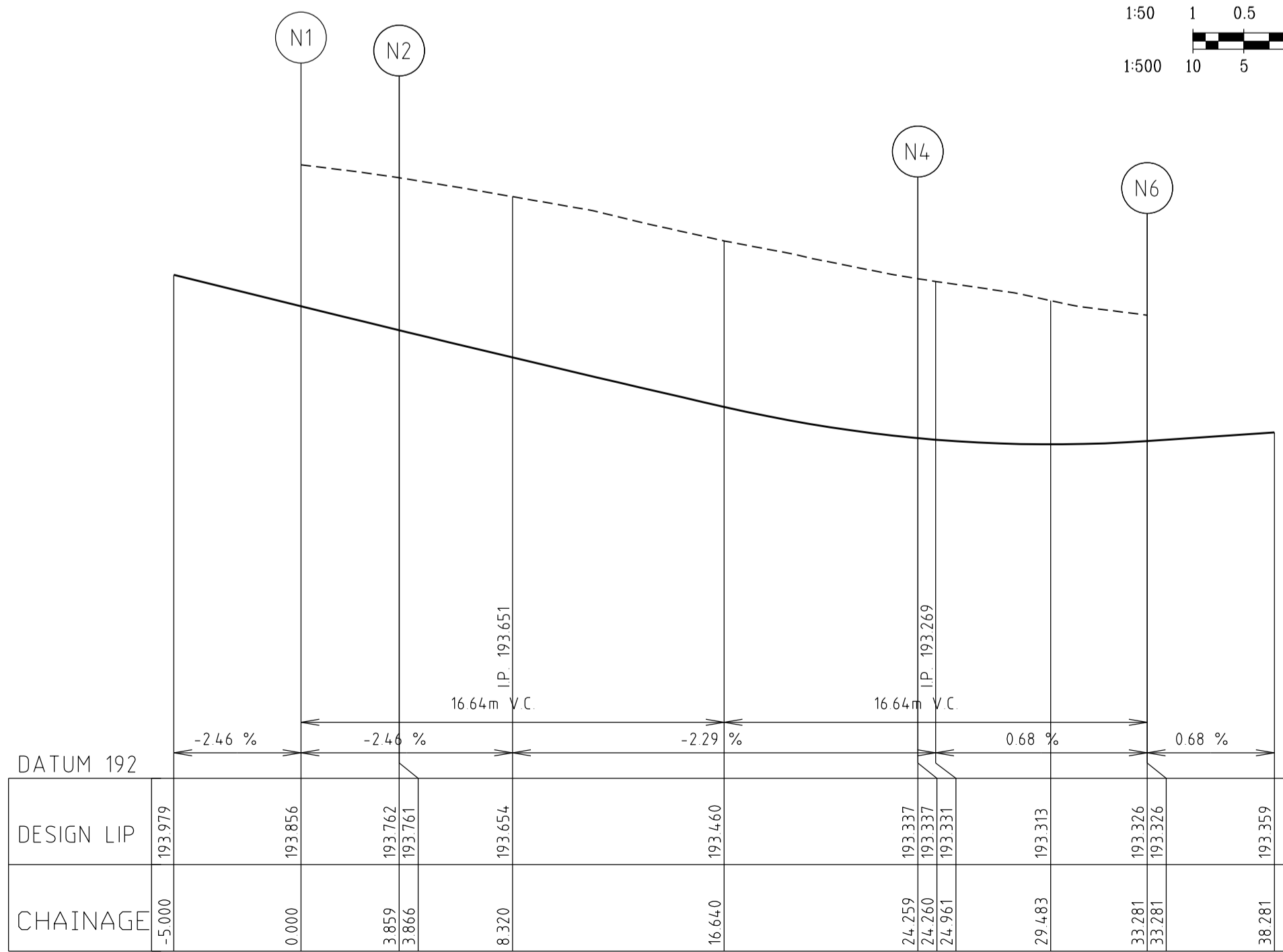
JARDIN ROAD

Point no	Easting	Northing	RL
1	322399.708	587666.708	192.838
2	322415.484	587671.527	193.198
3	322424.370	587670.163	193.259
4	322427.930	587668.818	193.364
5	322403.098	587670.806	192.929
6	322408.869	587672.706	193.016
7	322410.866	587673.645	193.104
8	322417.614	587673.555	193.238
9	322419.837	587672.334	193.272
10	322421.571	587671.310	193.301
11	322426.817	587668.296	193.351
12	322426.515	587667.781	193.366
13	322427.220	587666.275	193.360

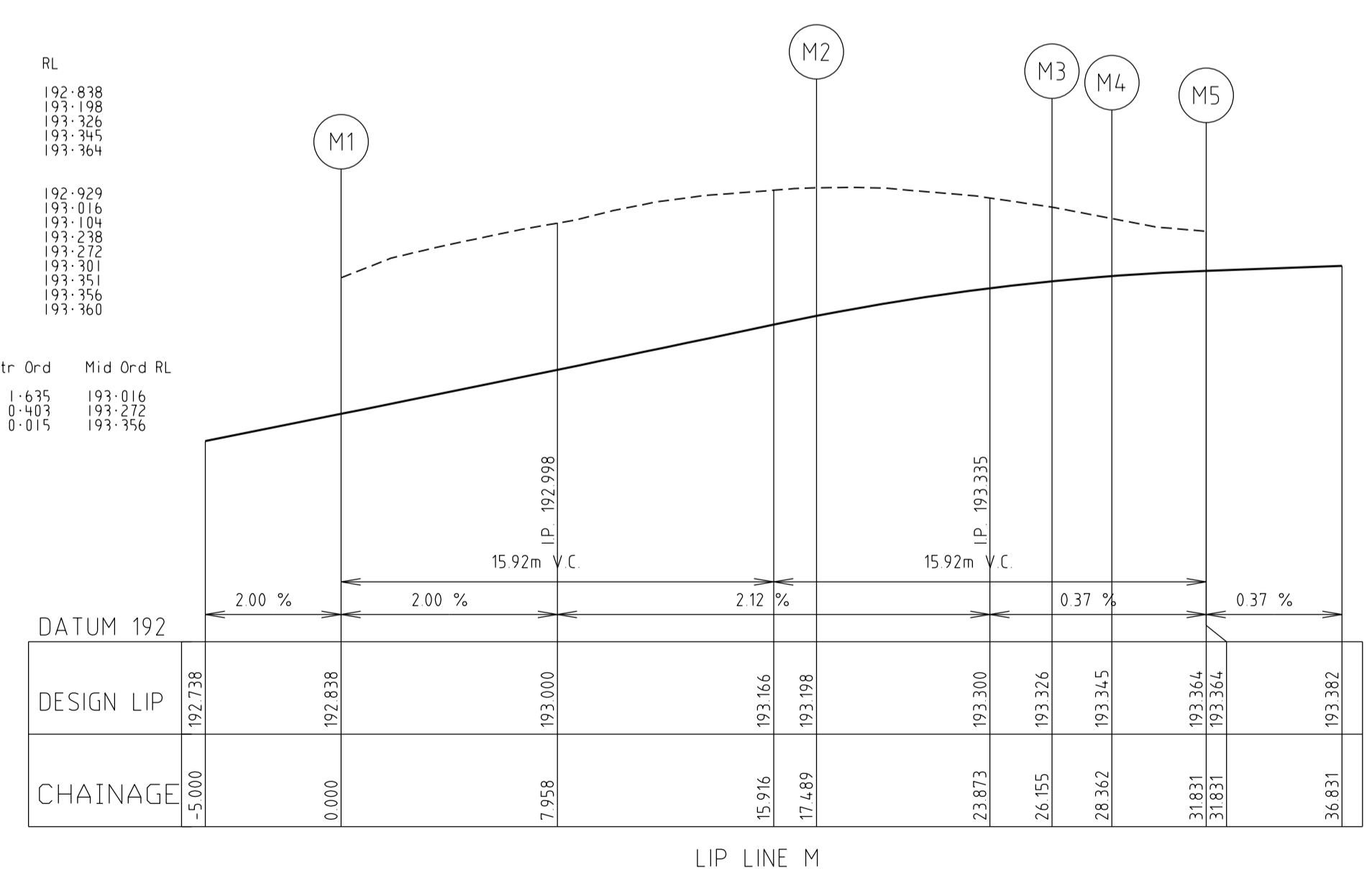
Curve no	Radius	Chord	Mid Ord	0tr Ord	Mid Ord RL
1	17.450	16.767	2.146	1.635	193.016
2	17.450	8.476	2.536	0.403	193.272
3	74.550	3.469	0.020	0.015	193.356



Curve no	Radius	Chord	Mid Ord	0tr Ord	Mid Ord RL
1	14.950	3.898	0.124	0.093	193.809
2	14.950	18.868	3.345	0.688	193.514
3	75.445	0.016	0.135	0.101	193.313



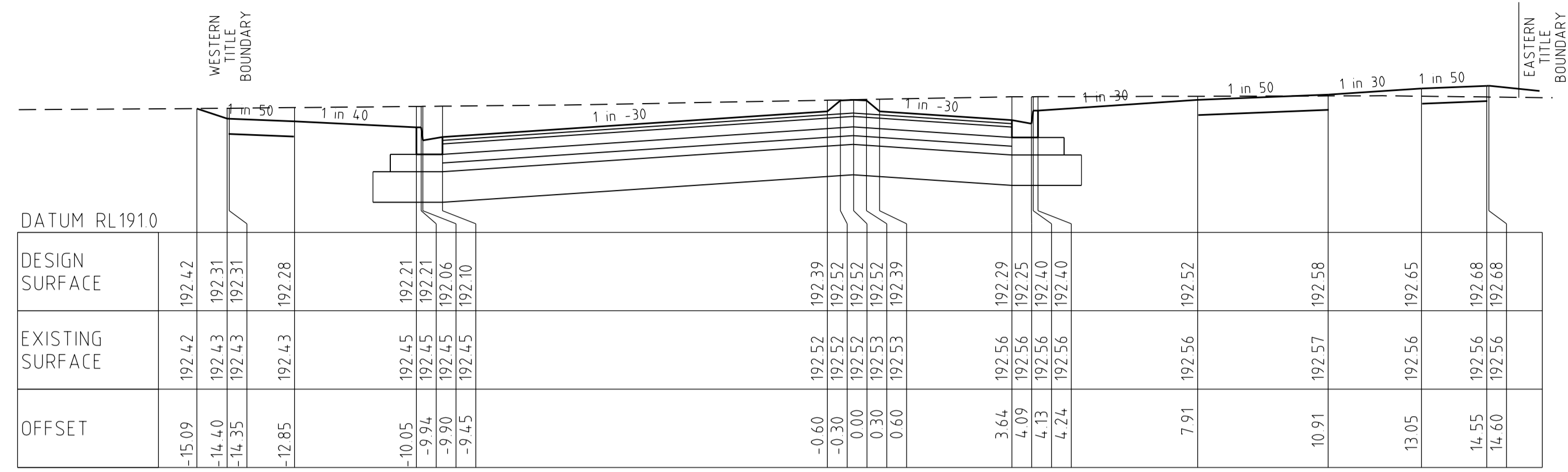
Point no	Easting	Northing	RL
1	322426.580	587660.324	193.856
2	322424.243	587660.186	193.762
3	322421.598	587659.270	193.337
4	322427.296	587657.912	193.326
5	322425.921	587660.536	193.832
6	322424.313	587660.791	193.809
7	322424.753	587660.007	193.785
8	322422.432	587659.118	193.632
9	322422.431	587659.345	193.519
10	322426.932	587656.091	193.320
11	322430.678	587657.665	193.313
12	322427.466	587657.292	193.315



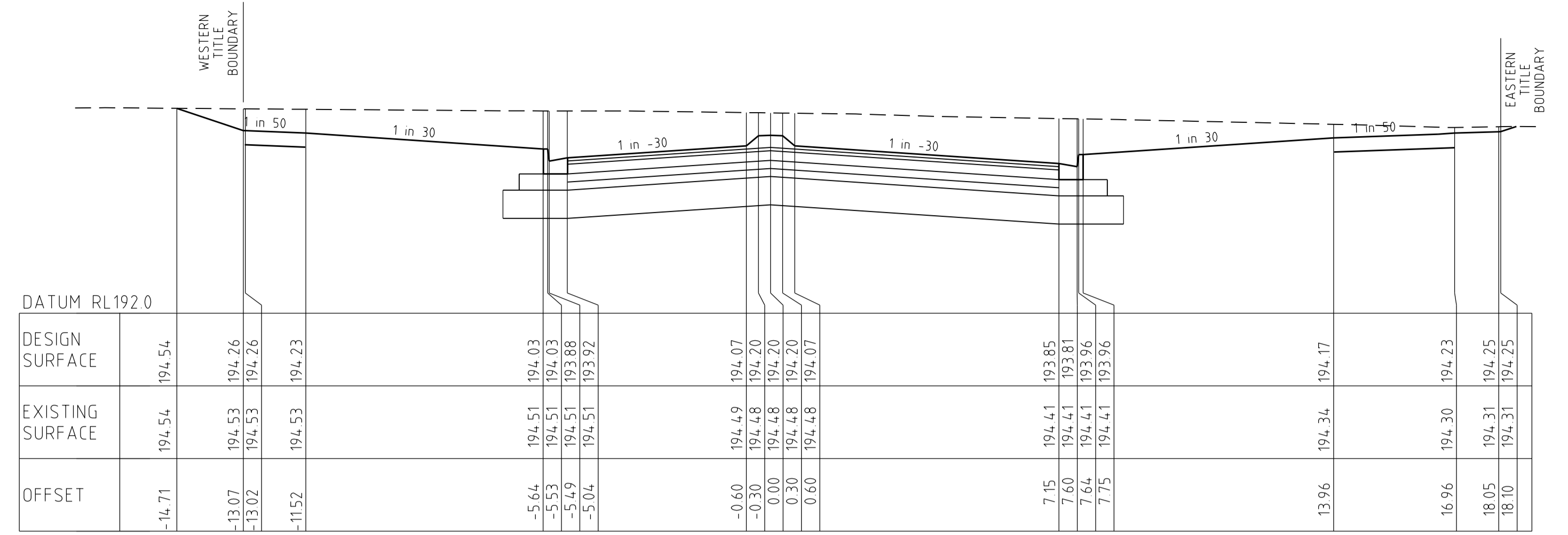
breese pitt dixon Pty. Ltd.
land surveyors
civil engineers

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

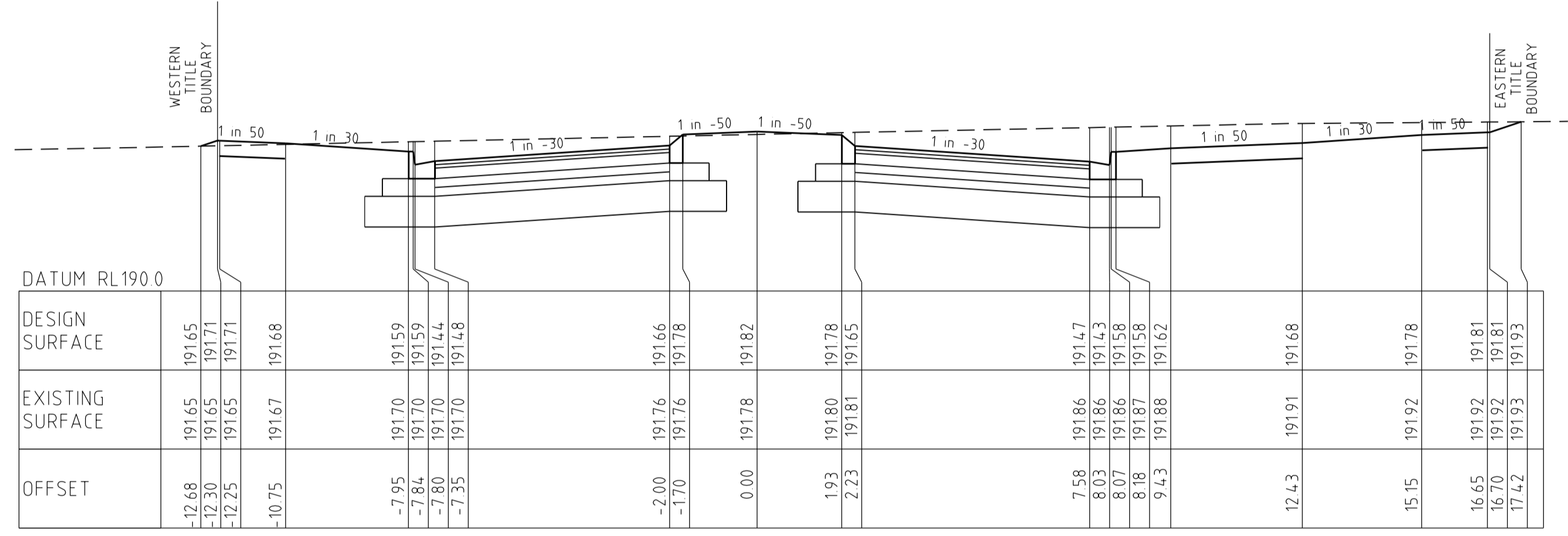
MELWAY REF.	388-C10	RATHDOWNE ESTATE STAGE 2 JARDIN ROAD	MUNICIPALITY WHITTLESEA
SURVEY	BPD	DESIGN	SS
DATE	19.12.17	DRAWN	SS
REMARKS	ISSUED FOR CONSTRUCTION	CHECKED	SCALE AS SHOWN
DATE	JUL '17	DATE	DATE
SHEET	6 OF 21	SHEET	6 OF 21



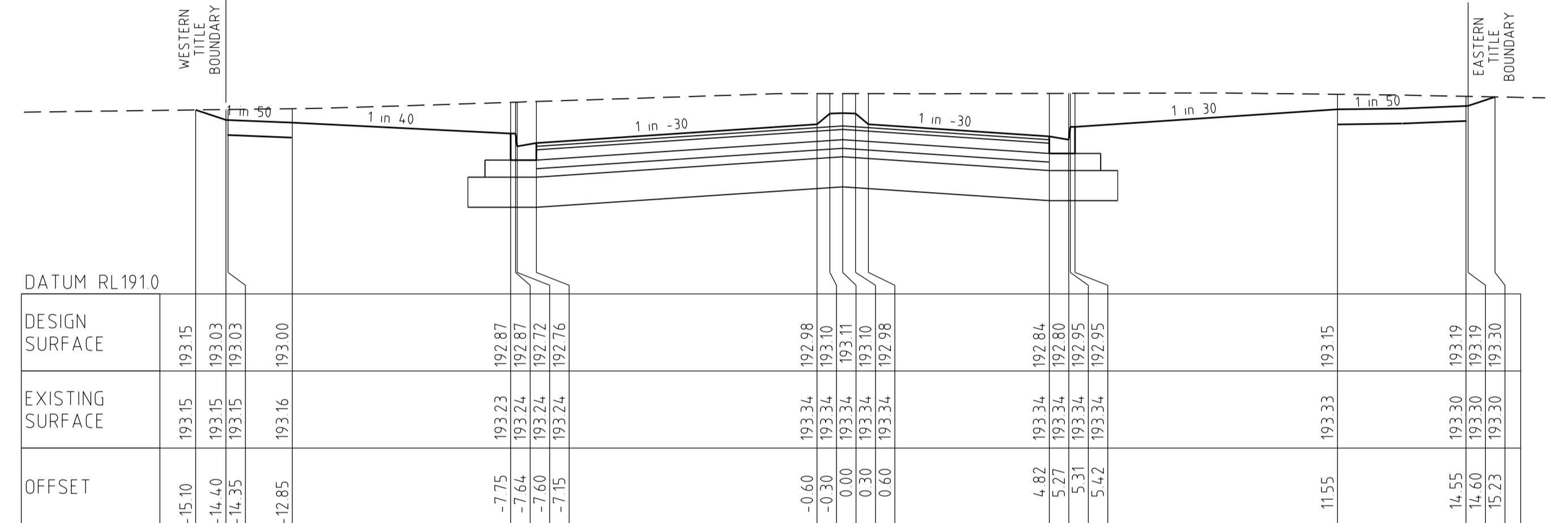
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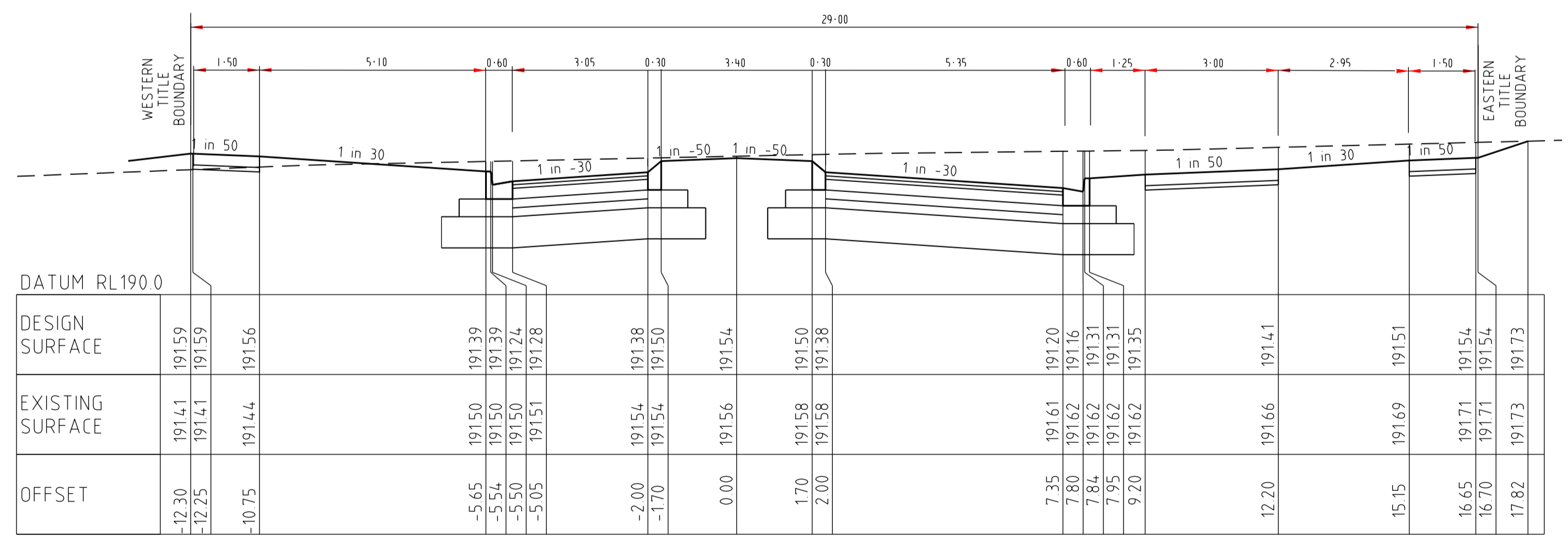
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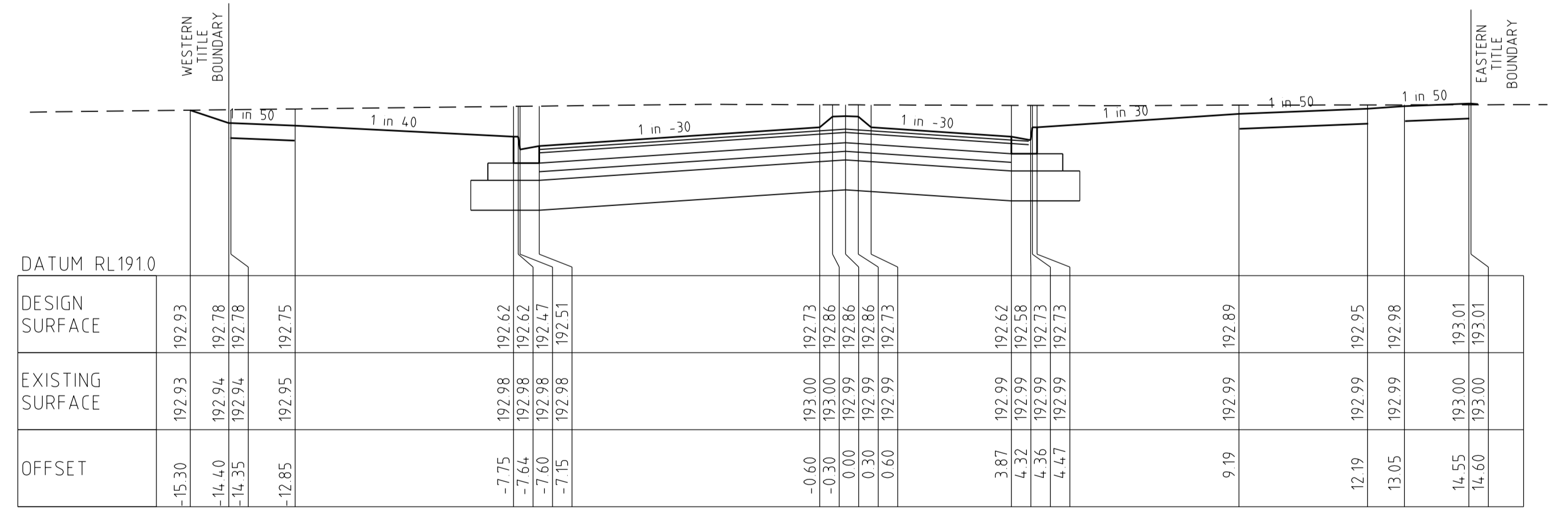
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414.39



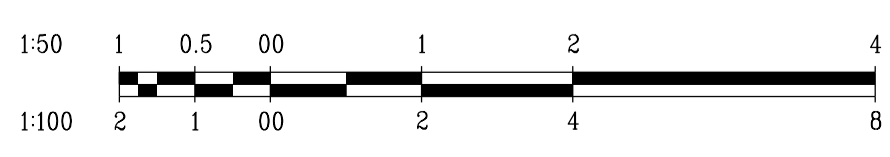
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404.01

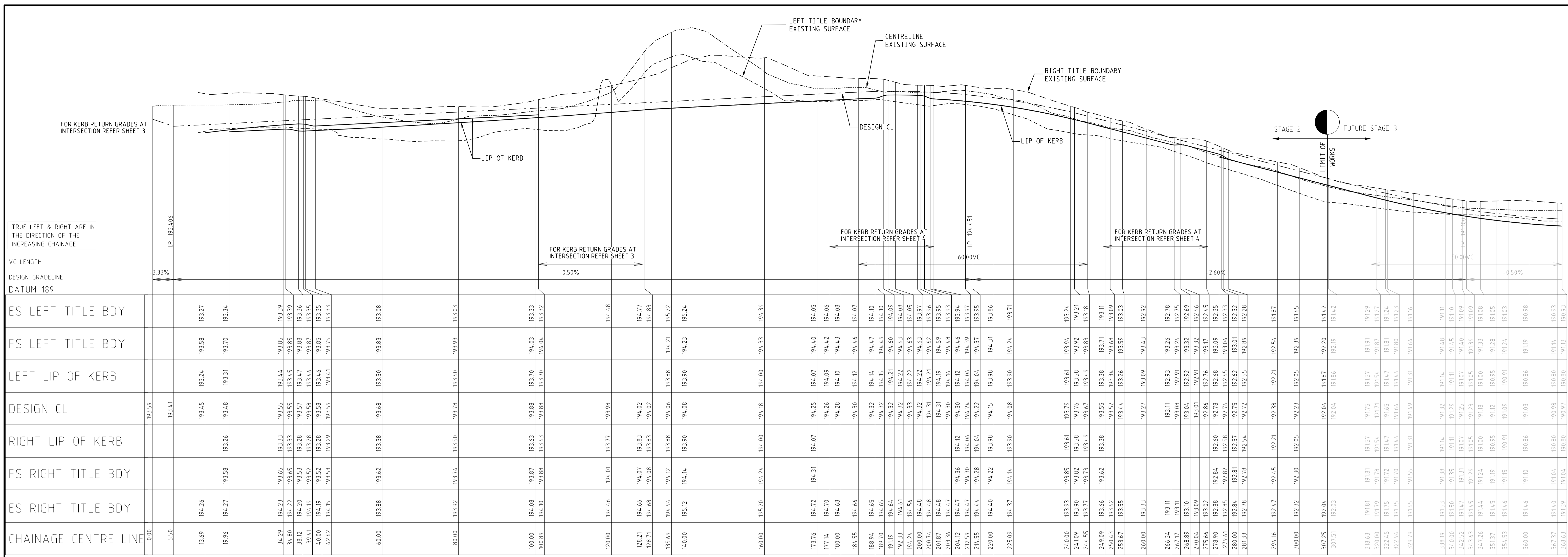
CRUSHED ROCK BACKFILL

CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



JARDIN ROAD

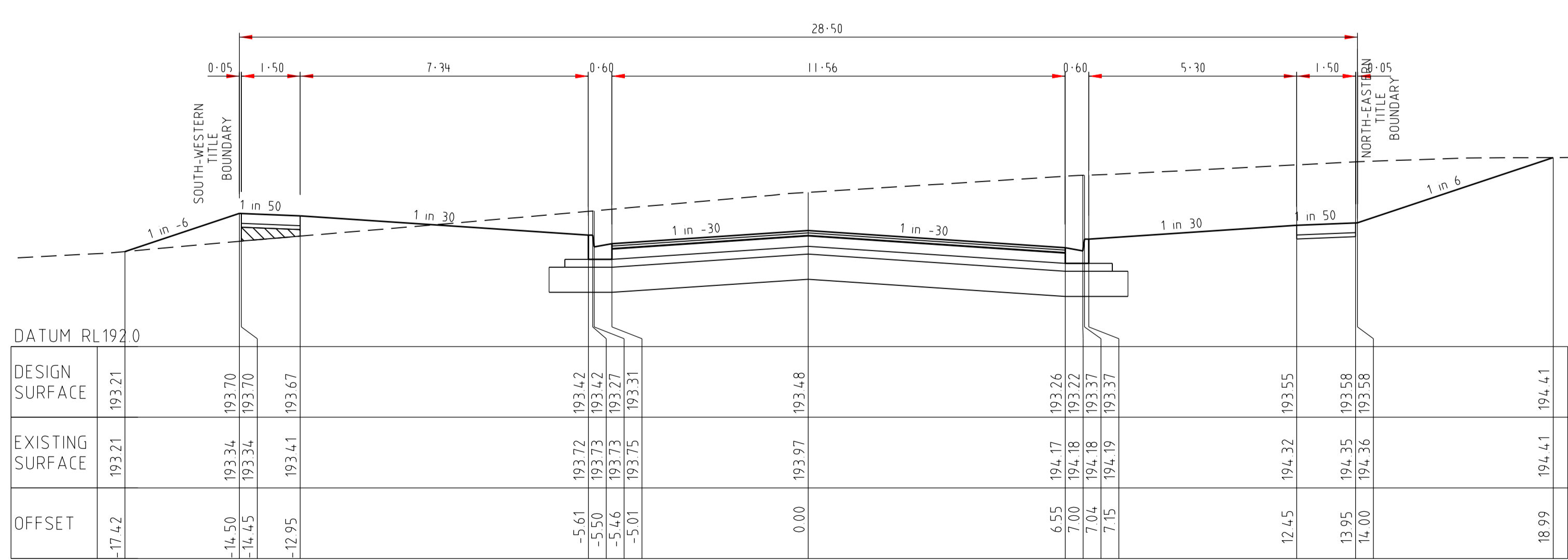
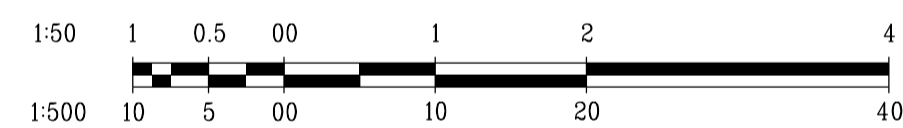
breese pitt dixon Pty. Ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C10 SURVEY BPD DESIGN SS DRAWN SS		RATHDOWNE ESTATE STAGE 2 JARDIN ROAD	
MUNICIPALITY WHITTLESEA REFERENCE 8352 E/2		SCALE AS SHOWN DATUM AHD DATE JUL '17 SHEET 7 OF 21	
AMENDMENTS A 19.12.17 ISSUED FOR CONSTRUCTION	CHECKED	VER DATE REMARKS	A



NORTH STREET WEST

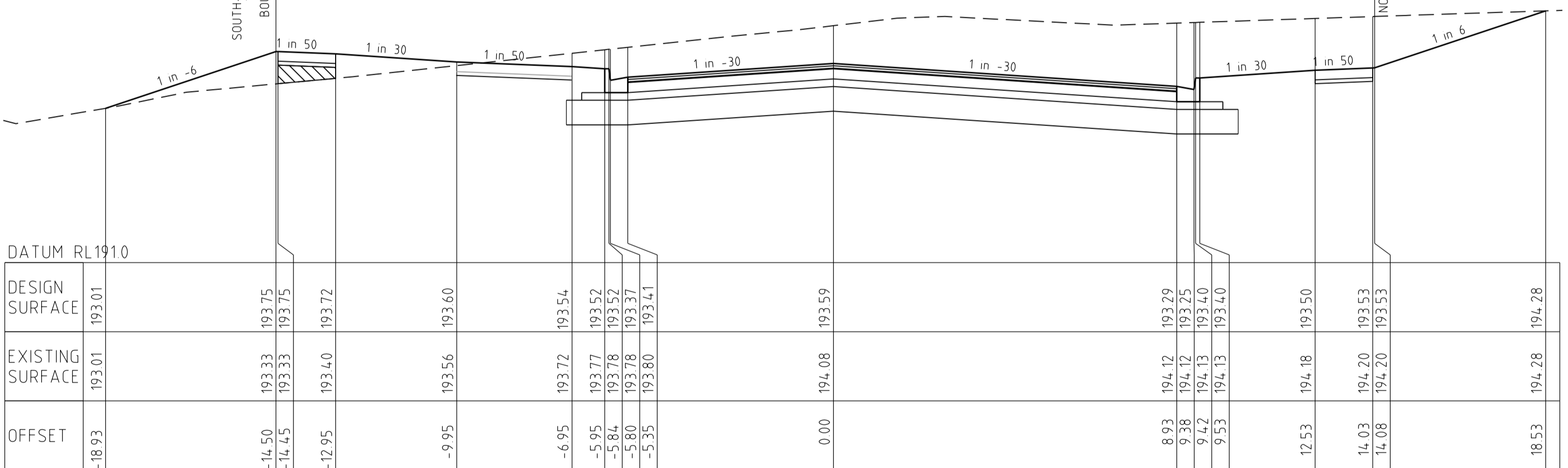
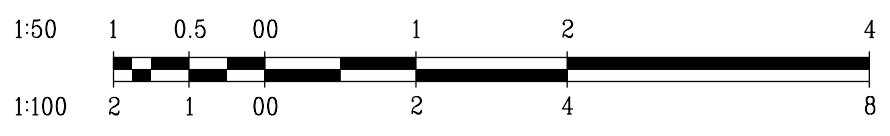
LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50



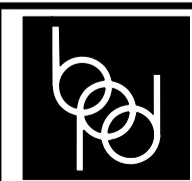
CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50



42.62

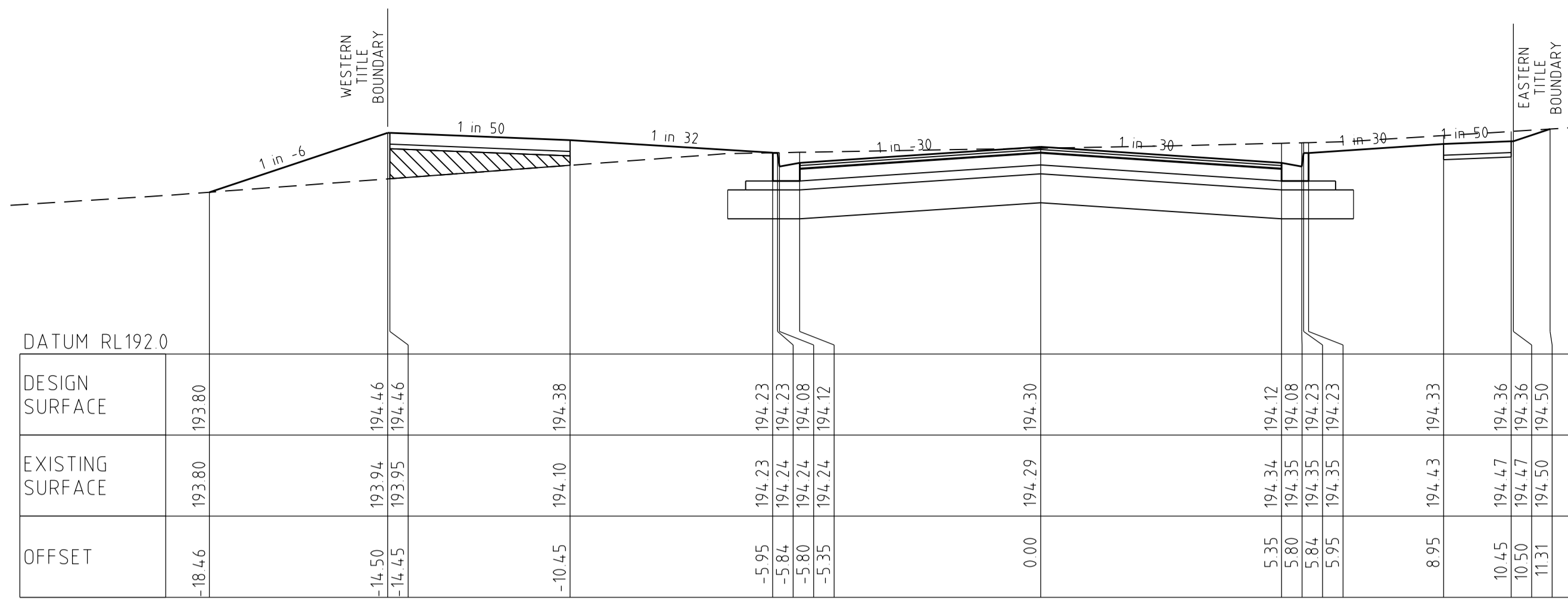
CRUSHED ROCK BACKFILL



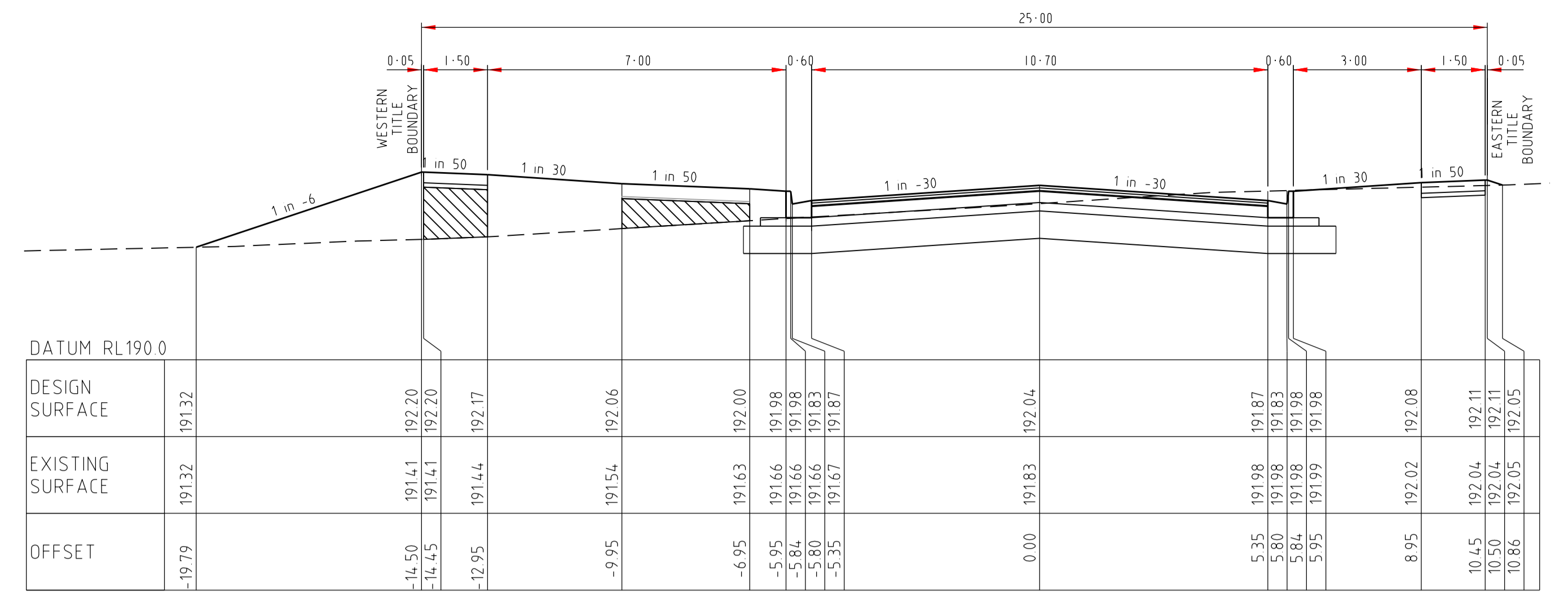
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

MELWAY REF.	388-C10	MUNICIPALITY	WHITTLESEA
SURVEY	BPD	REFERENCE	8352 E/2
DESIGN	SS	SHEET	8 OF 21
DRAWN	SS	DATE	JUL '17
CHECKED		SCALE	AS SHOWN
DATE		DATUM	AHD

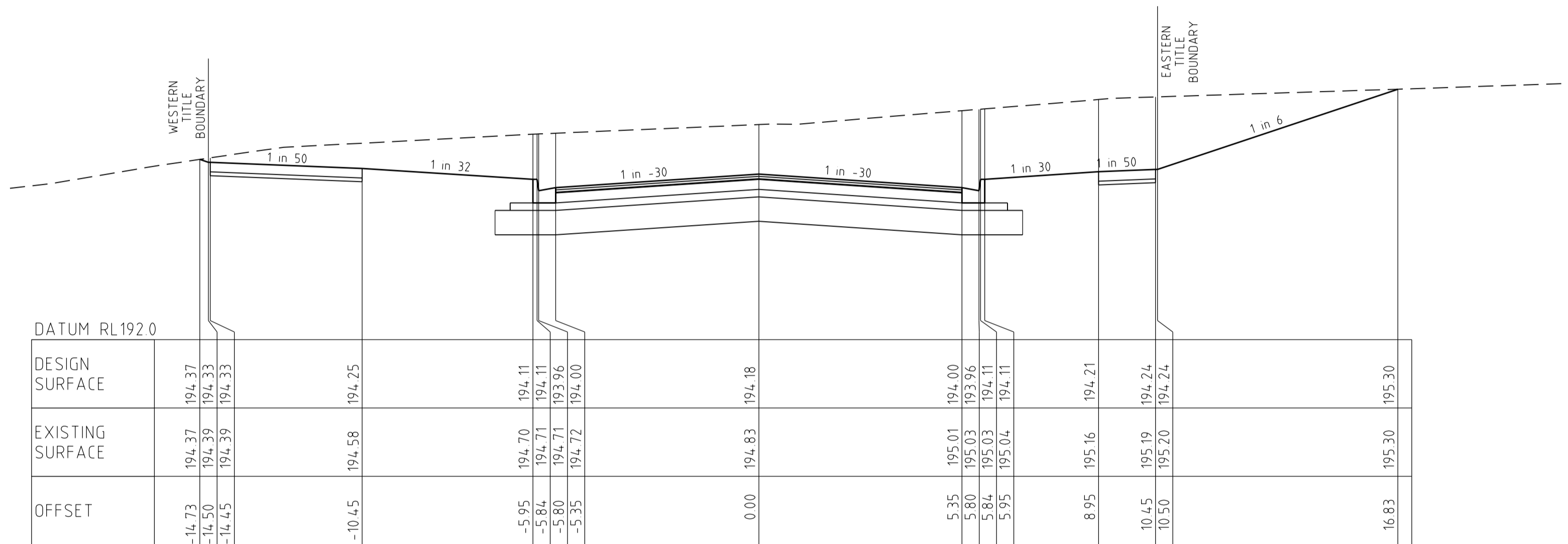
AMENDMENTS	DATE	REMARKS
B	13.11.18	BICYCLE PATH BOK OFFSET AND LEVEL MODIFIED
A	19.12.17	ISSUED FOR CONSTRUCTION



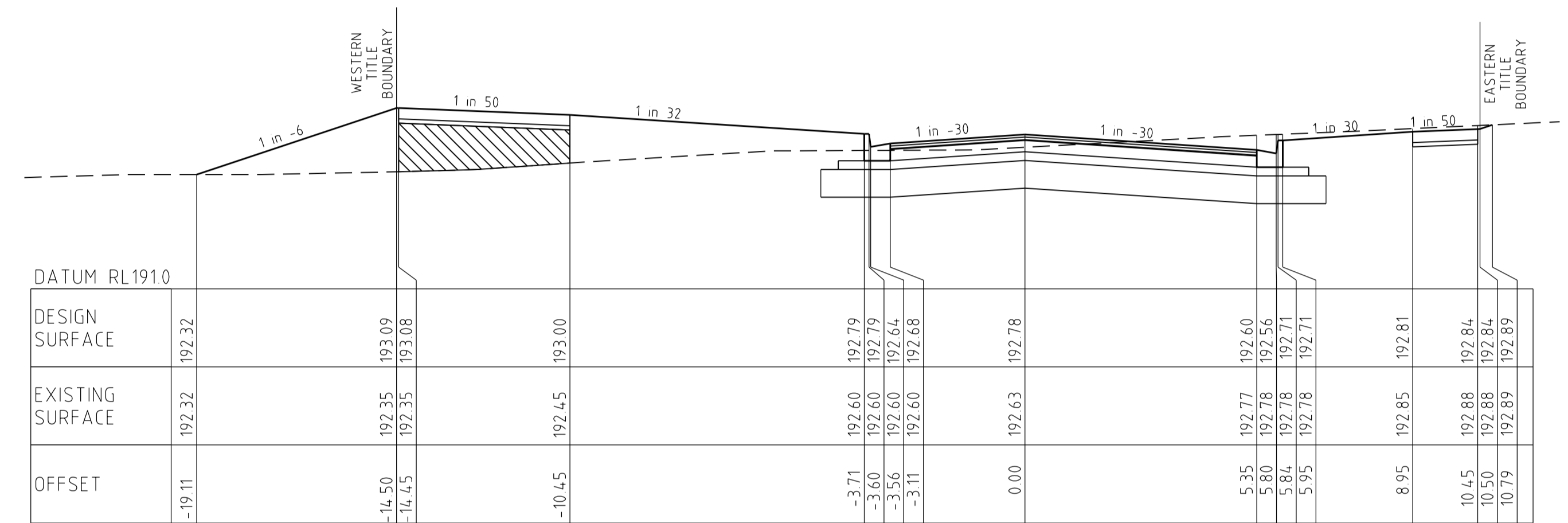
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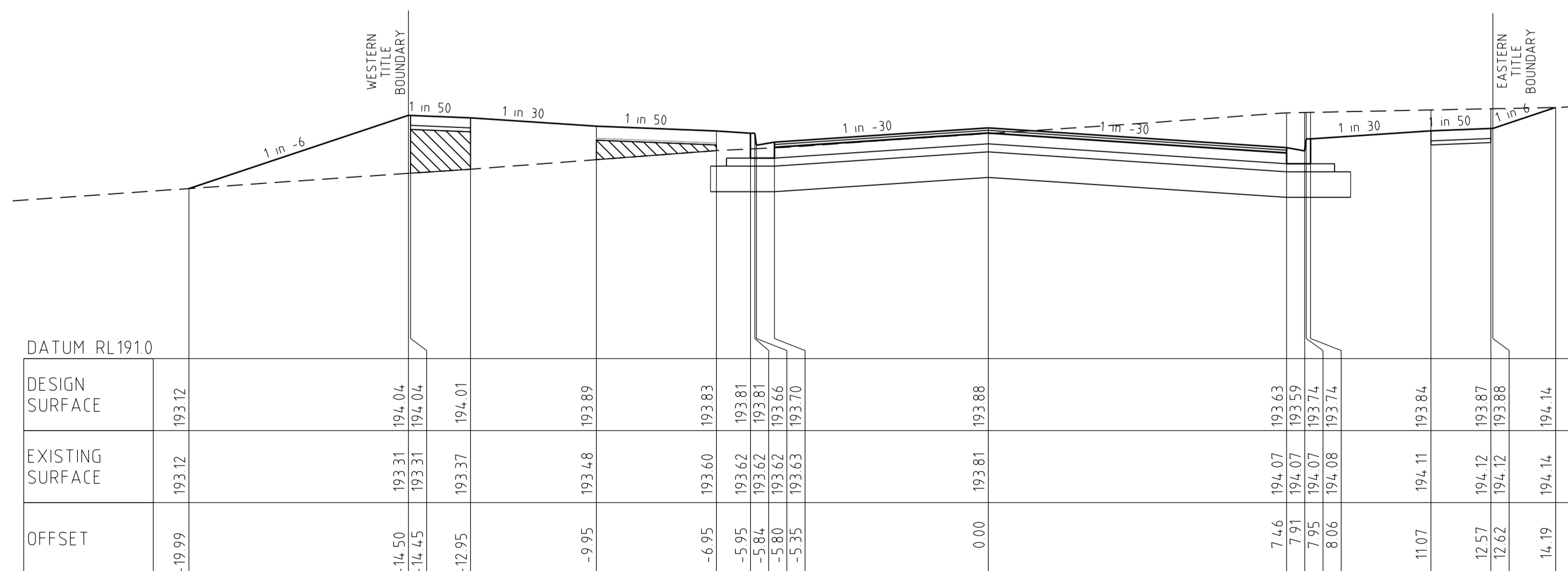
307.25



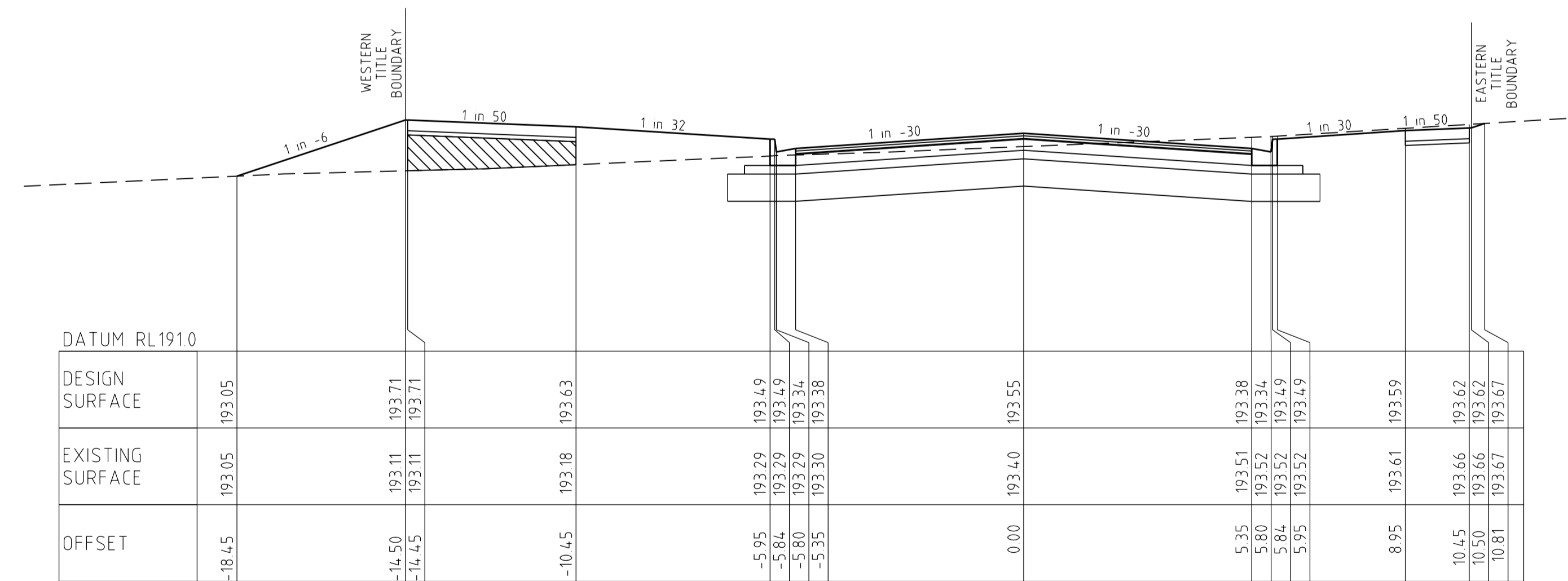
160.00



278.90



100.89

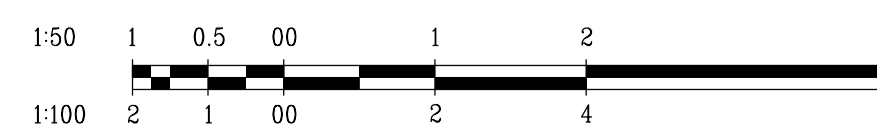


249.09

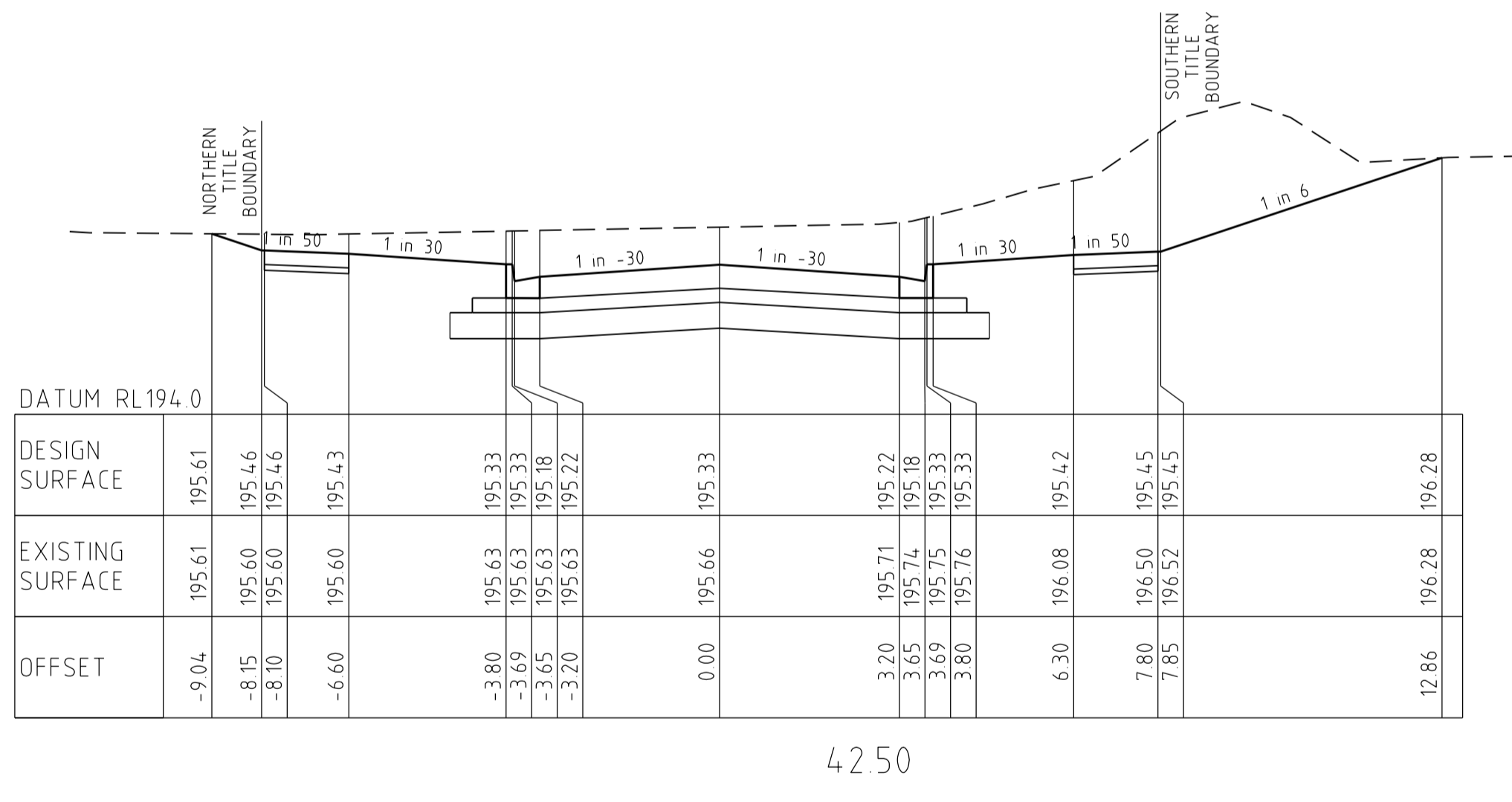
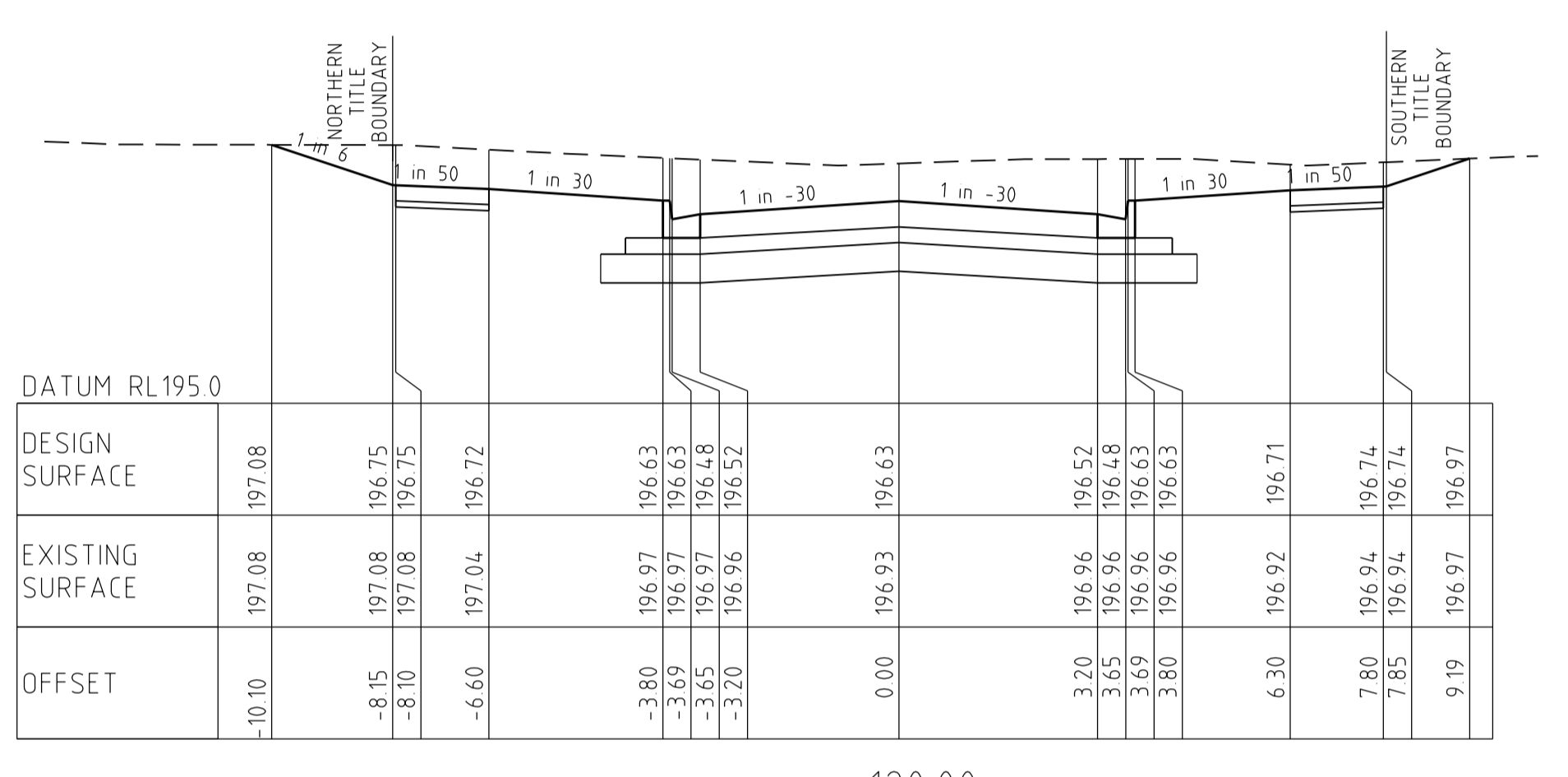
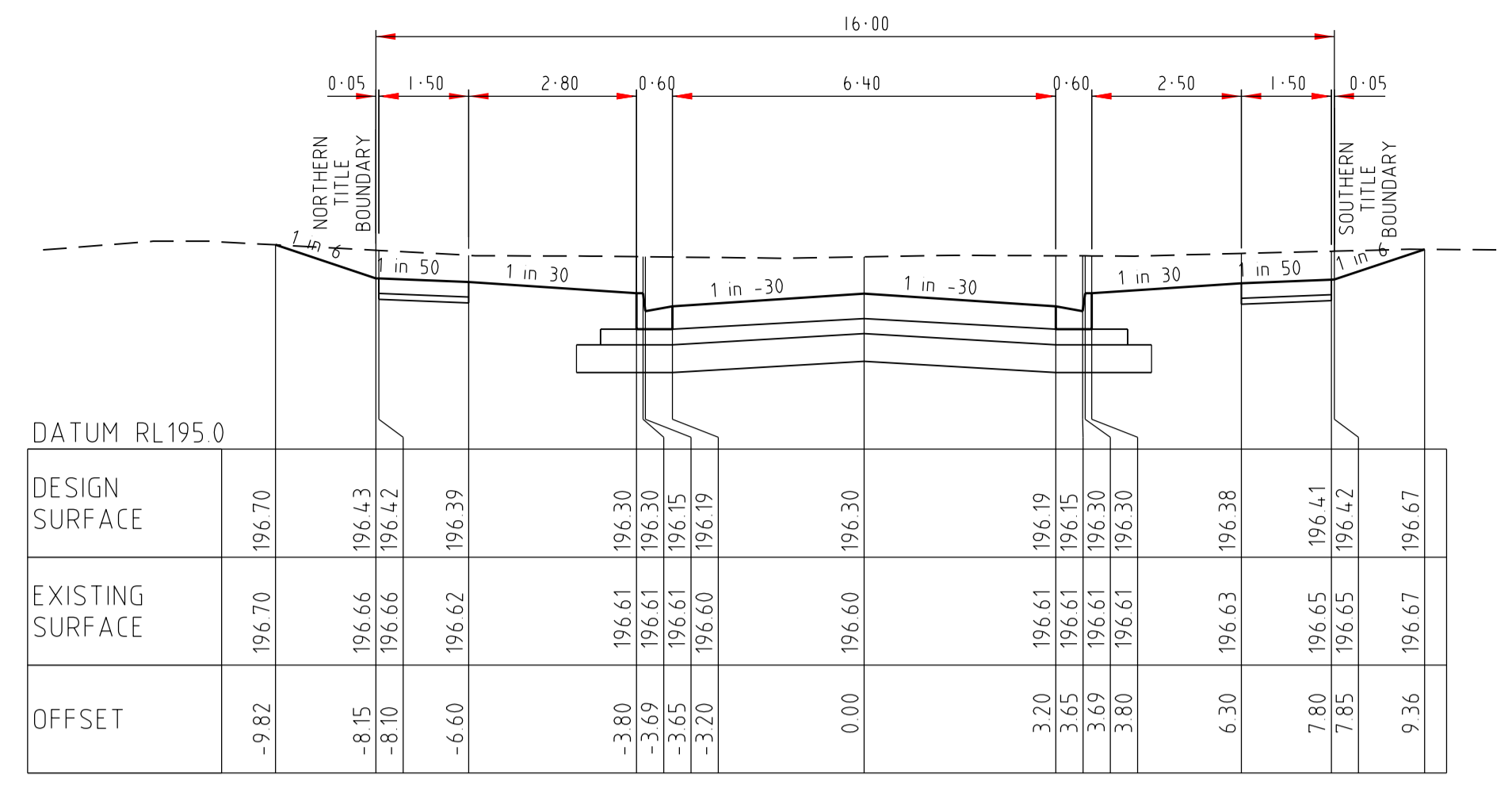
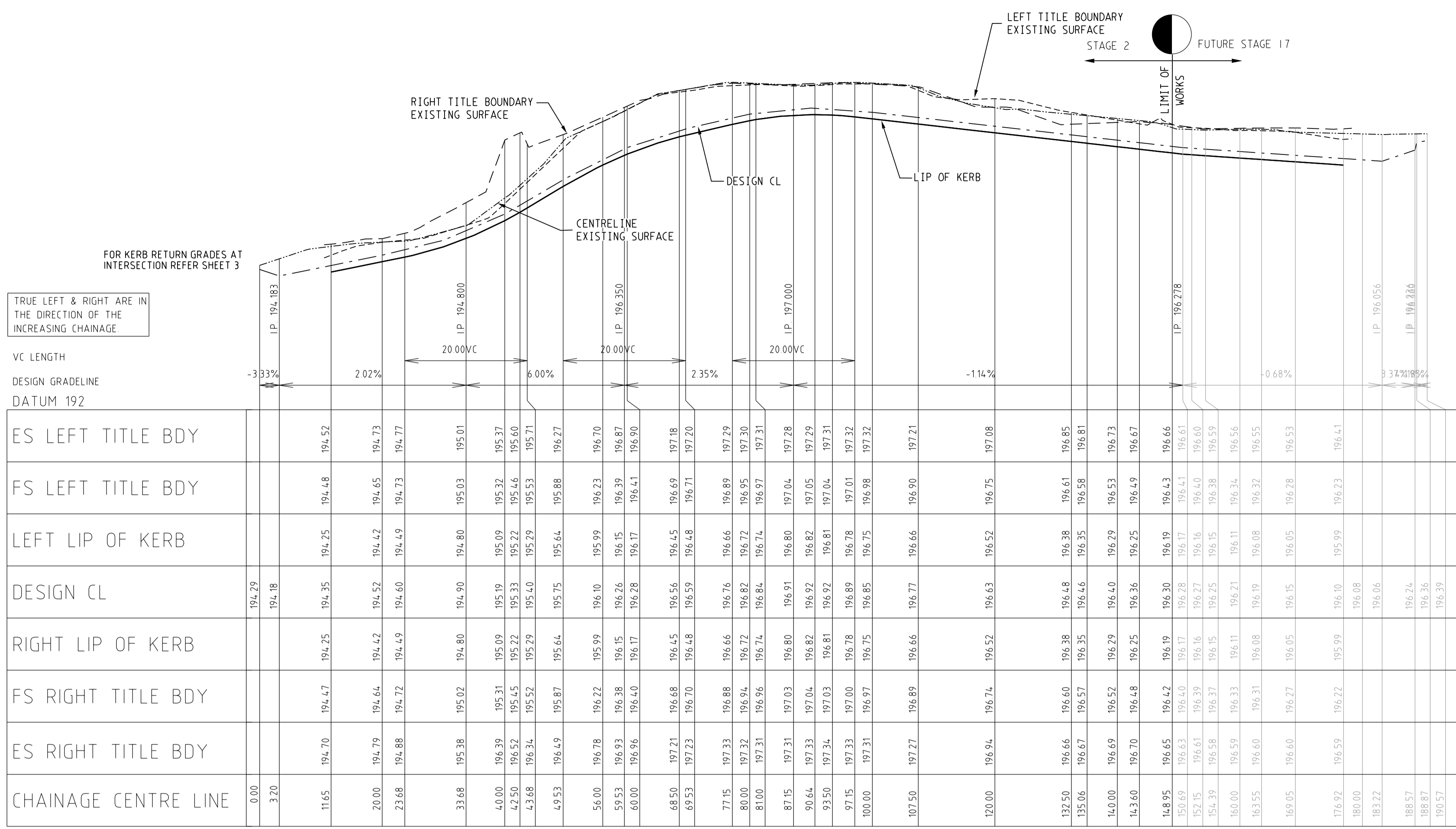
NORTH STREET WEST

CRUSHED ROCK BACKFILL

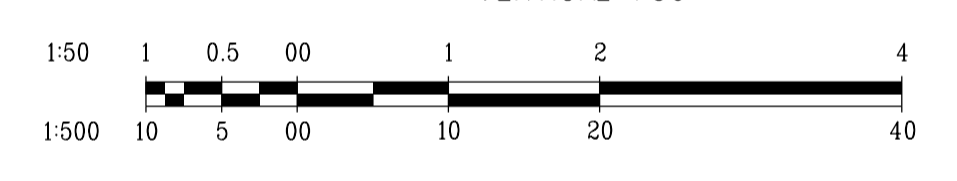
CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



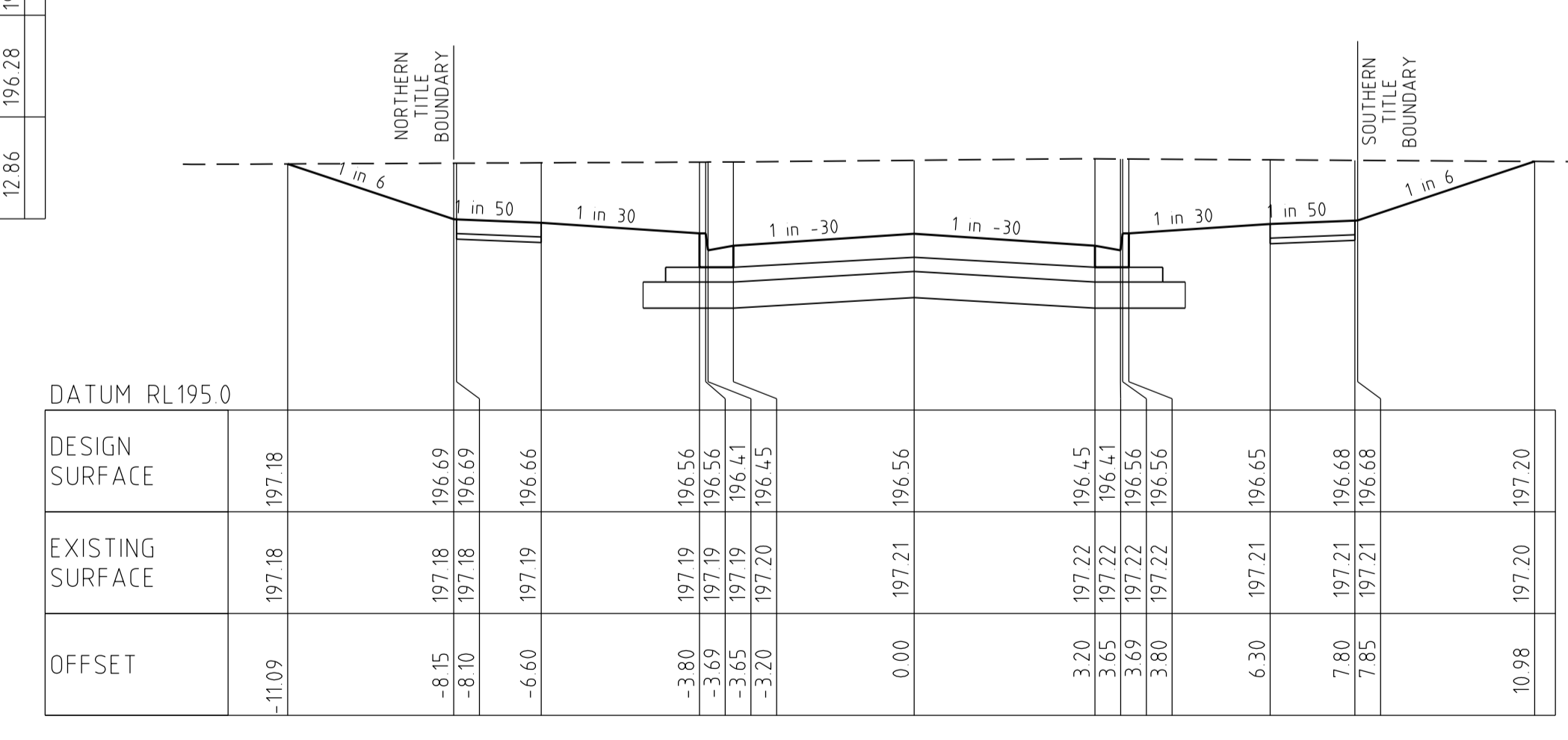
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS C 05.12.18 4m SHARED PATH BOK OFFSET AND LEVEL MODIFIED B 14.11.18 BICYCLE PATH BOK OFFSET AND LEVEL MODIFIED A 19.12.17 ISSUED FOR CONSTRUCTION		MELWAY REF. 388-C10 SURVEY BPD DESIGN SS DRAWN SS		RATHDOWNE ESTATE STAGE 2 NORTH STREET WEST	
VER DATE REMARKS CHECKED		SCALE AS SHOWN DATUM AHD DATE JUL '17		MUNICIPALITY WHITTLESEA REFERENCE 8352 E/2 SHEET 9 OF 21	



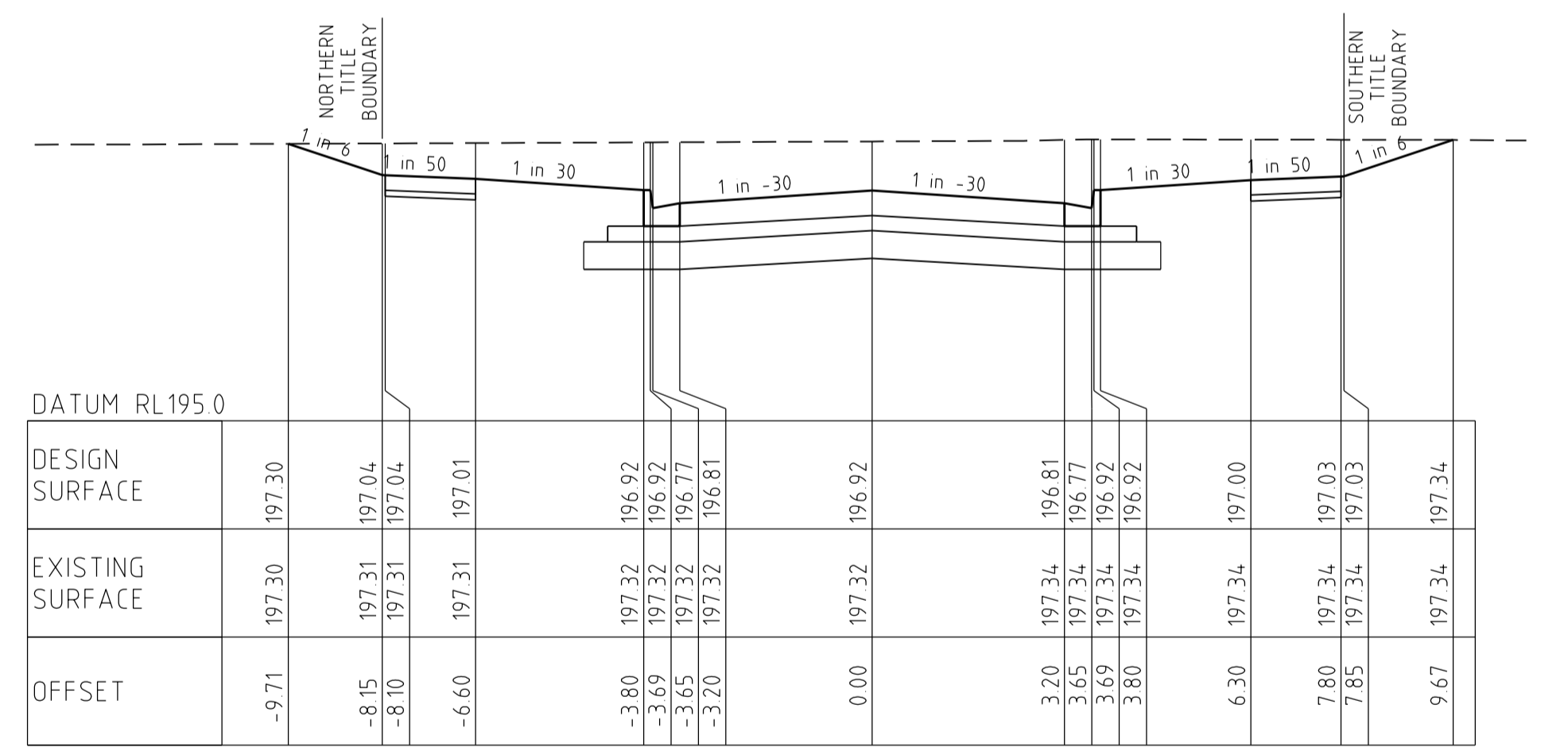
LONGITUDINAL SECTION
SCALE HORIZONTAL 1:500
VERTICAL 1:50



MEADOW LANE

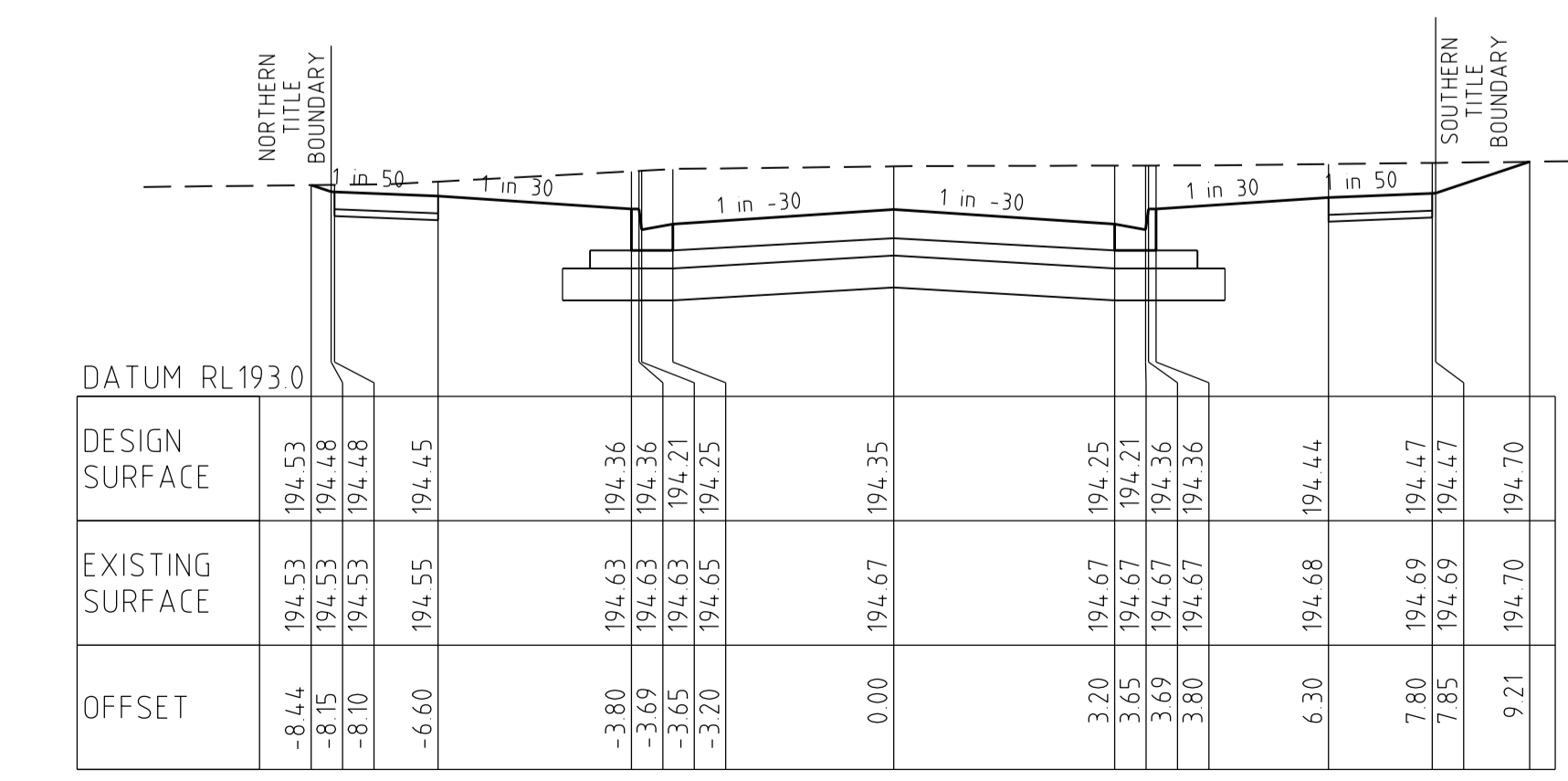


CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



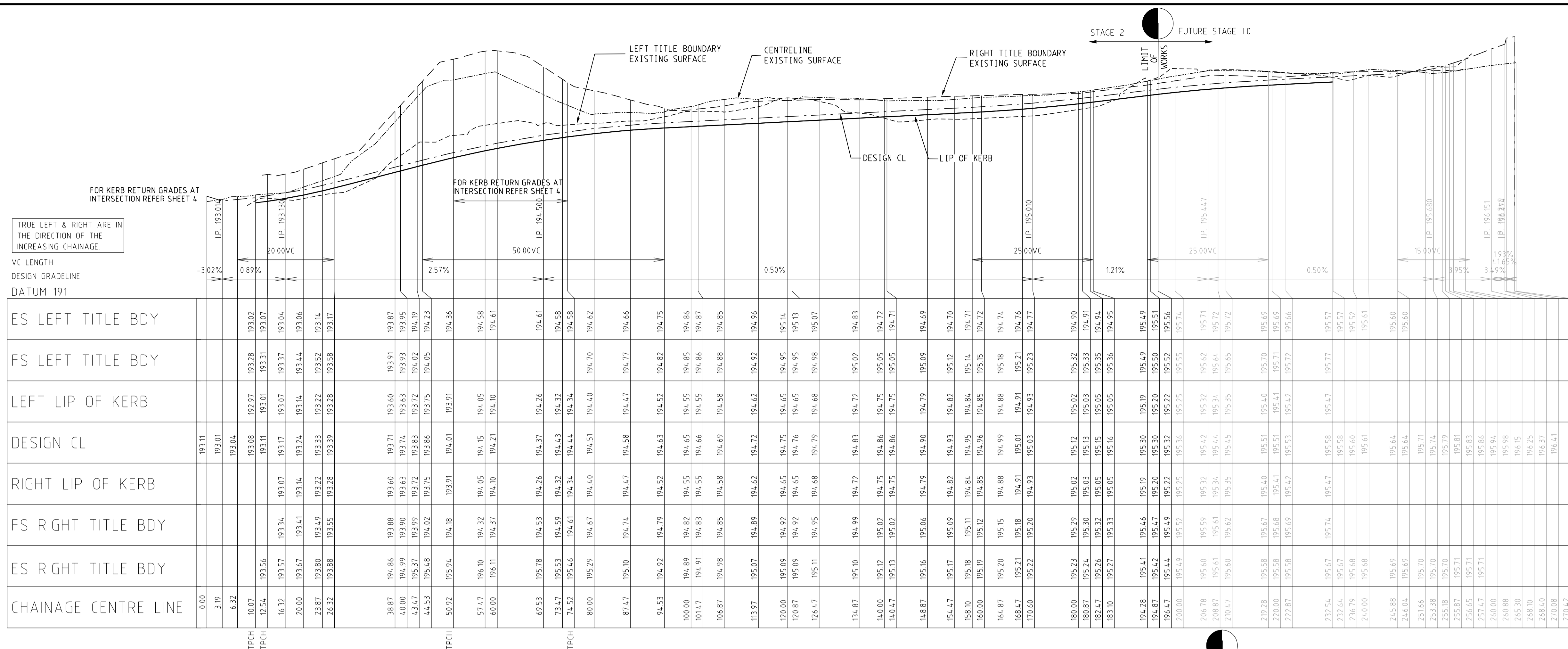
MEADOW LANE

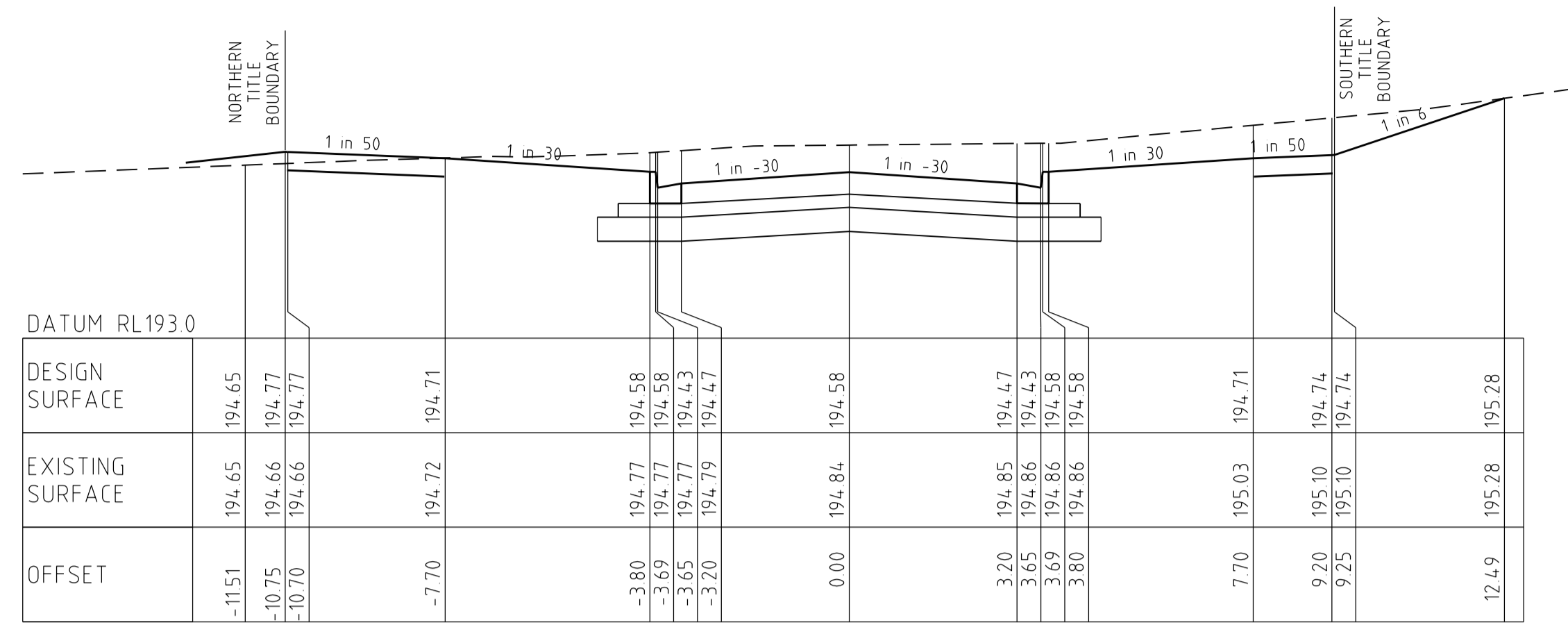
CRUSHED ROCK BACKFILL



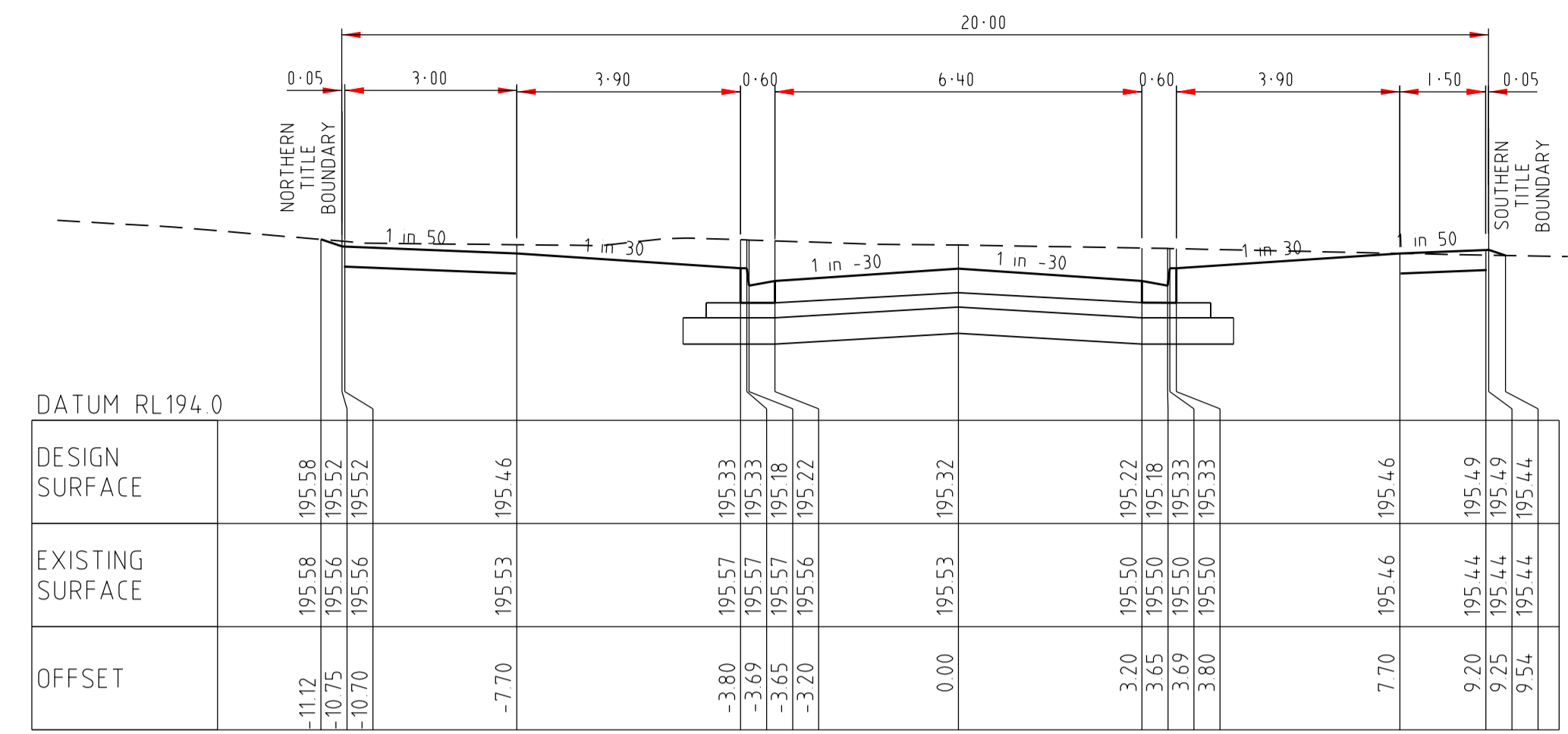
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		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C10		SURVEY BPD		MUNICIPALITY WHITTLESEA	
DESIGN SS		DRAWN SS		REFERENCE 8352 E/2	
AMENDMENTS		CHECKED		SCALE AS SHOWN	
DATE 19.12.17		REMARKS ISSUED FOR CONSTRUCTION		DATUM AHD	
VER		DATE		DATE JUL '17	
				SHEET 10 OF 21	

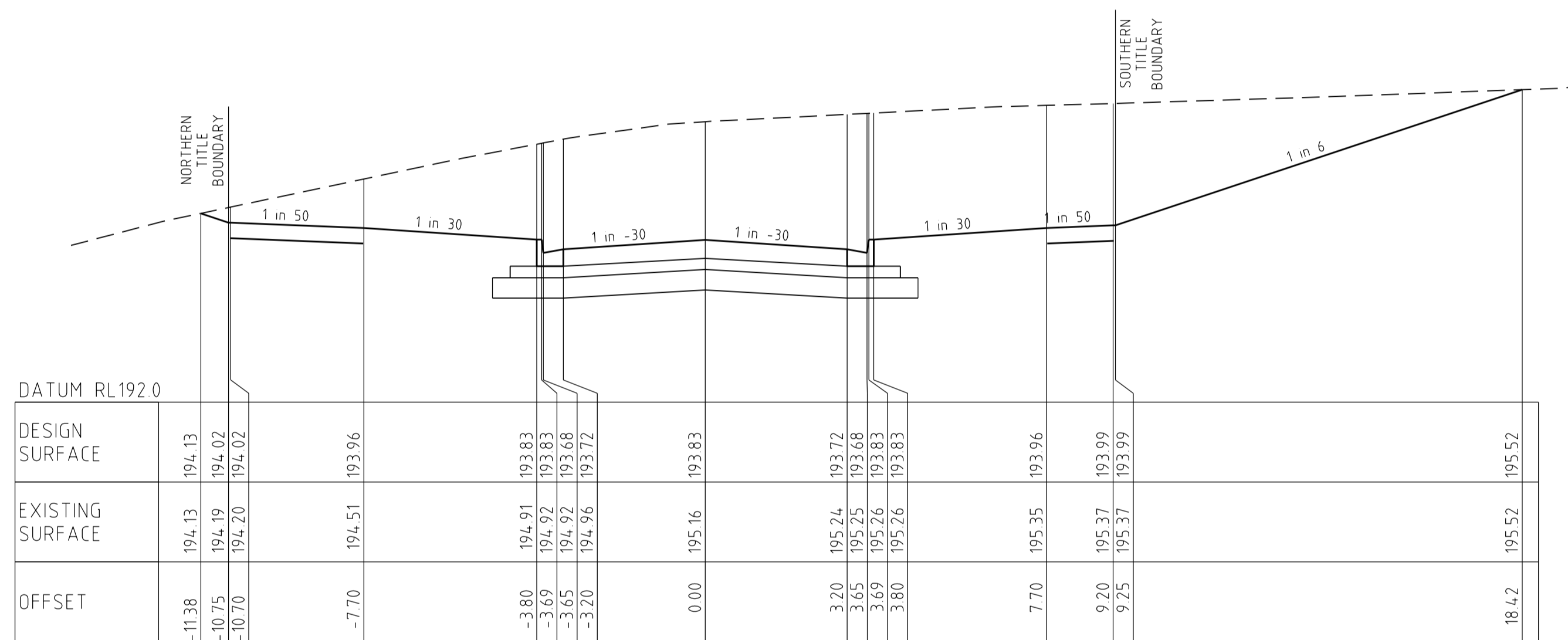




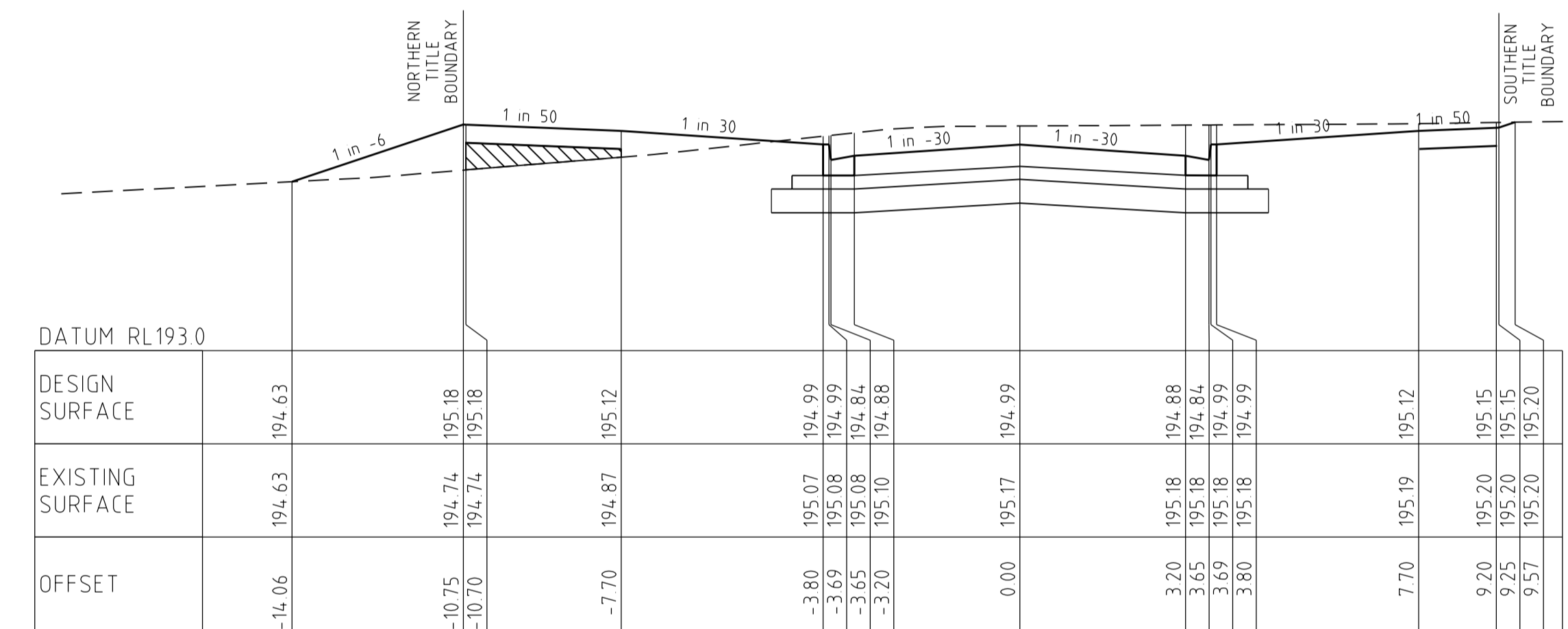
87.47



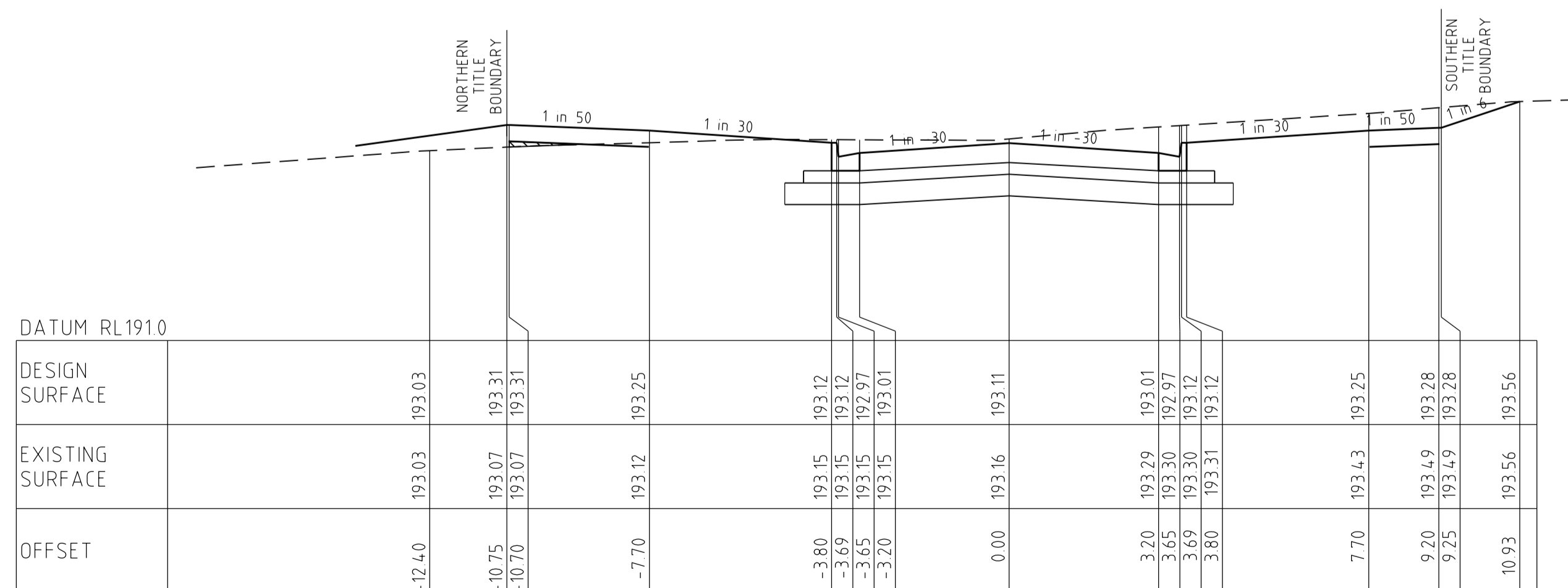
196.47



43.47



164.87

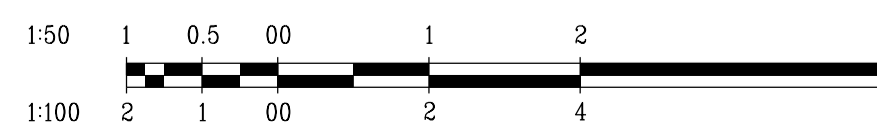


12.54

GLENWOOD AVENUE

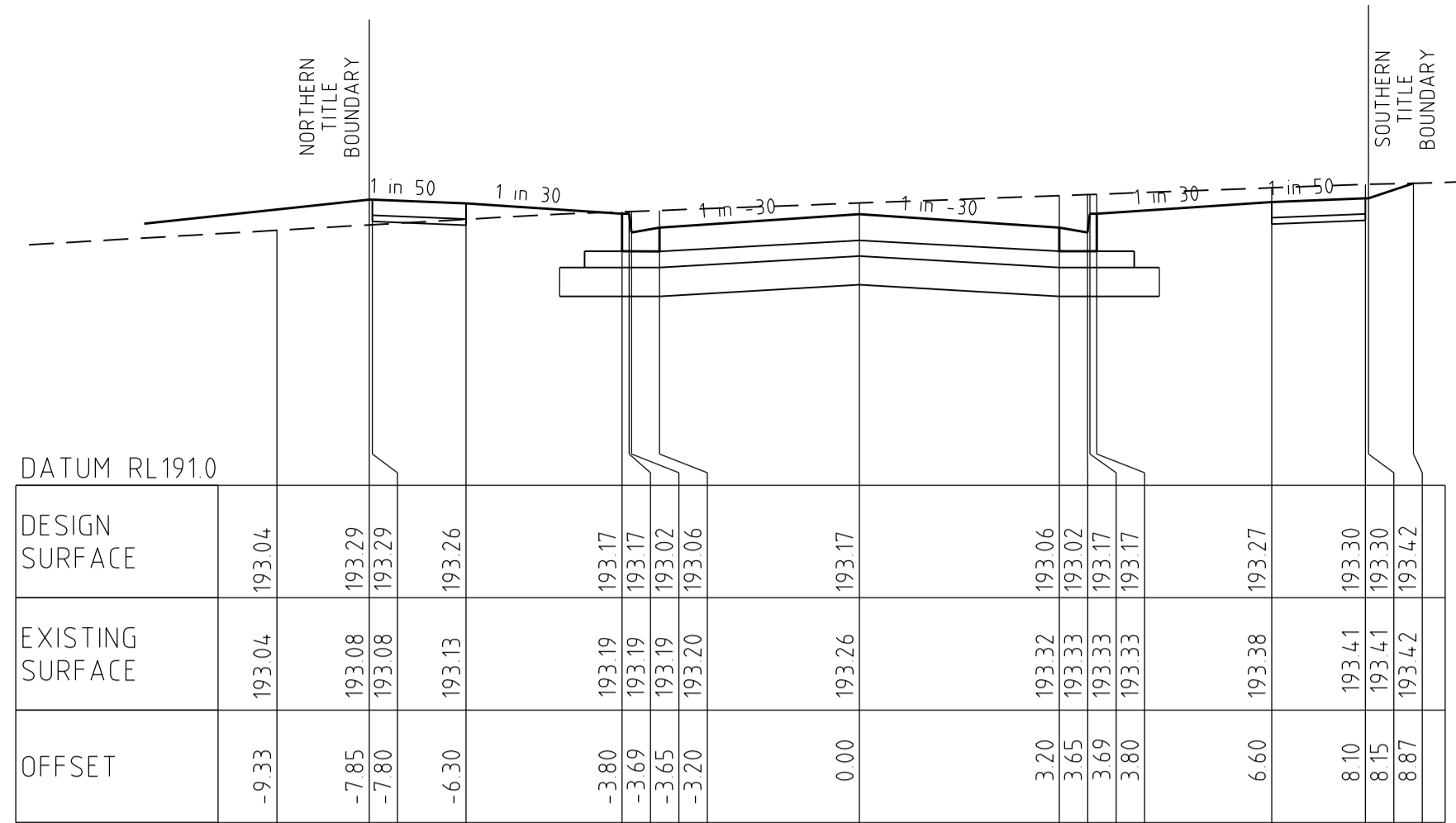
CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50

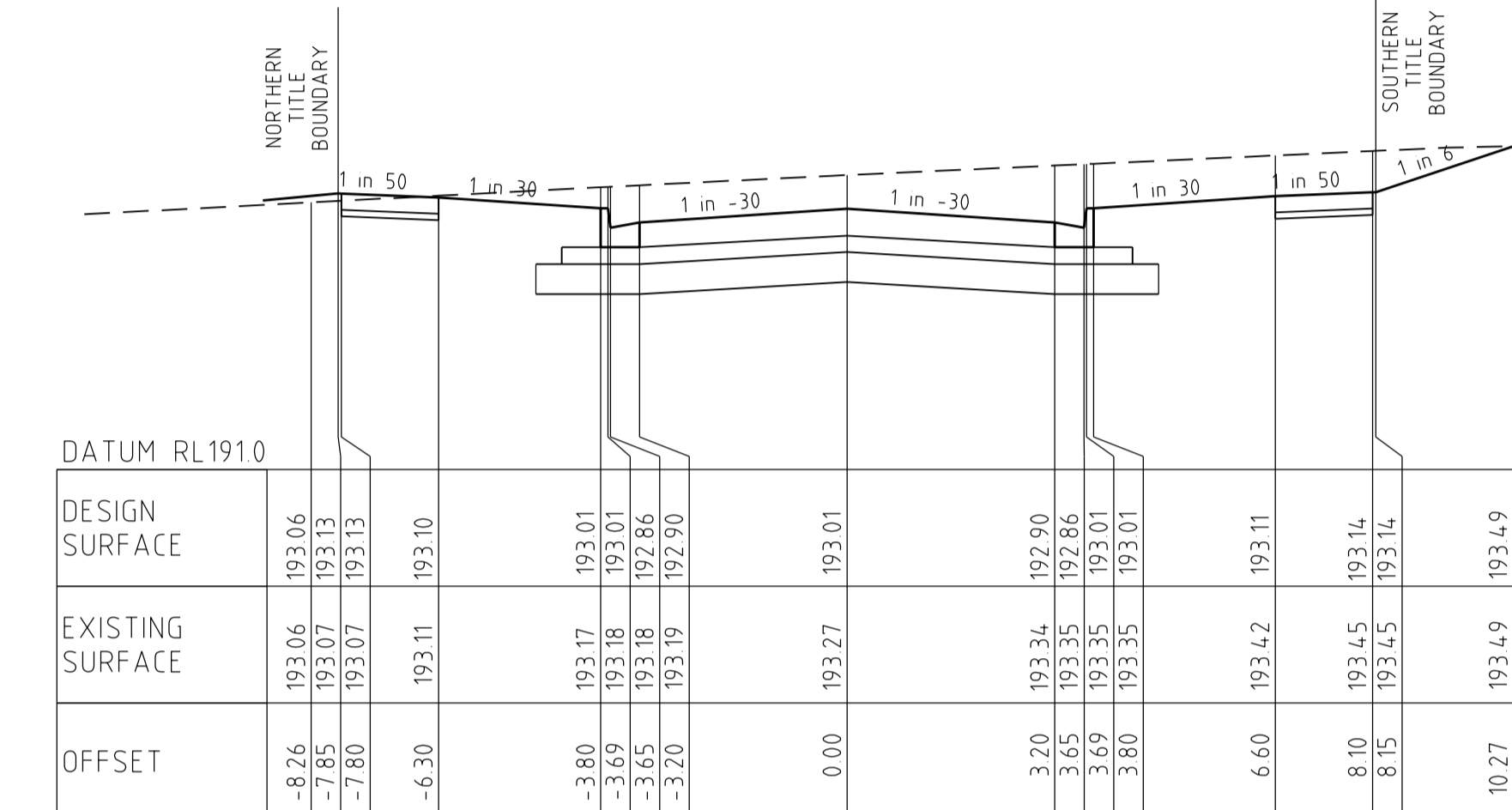


CRUSHED ROCK BACKFILL

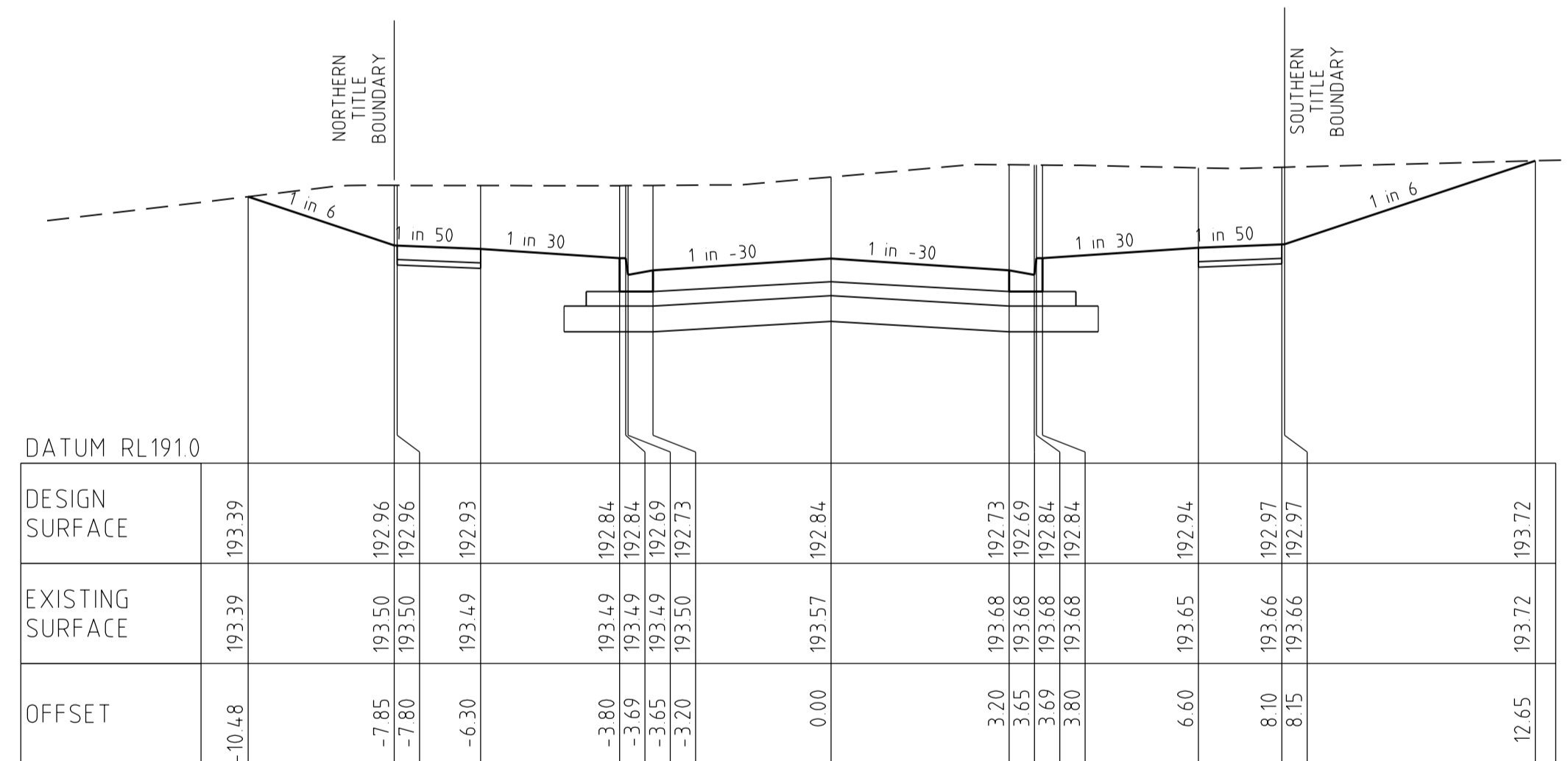
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C10 SURVEY BPD DESIGN SS DRAWN SS		RATHDOWNE ESTATE STAGE 2 GLENWOOD AVENUE		MUNICIPALITY WHITTLESEA REFERENCE 8352 E/2	
AMENDMENTS A 19.12.17 ISSUED FOR CONSTRUCTION	VER DATE 19.12.17	REMARKS ISSUED FOR CONSTRUCTION	CHECKED [Signature]	SCALE AS SHOWN DATUM AHD DATE JUL '17	SHEET 12 OF 21 A



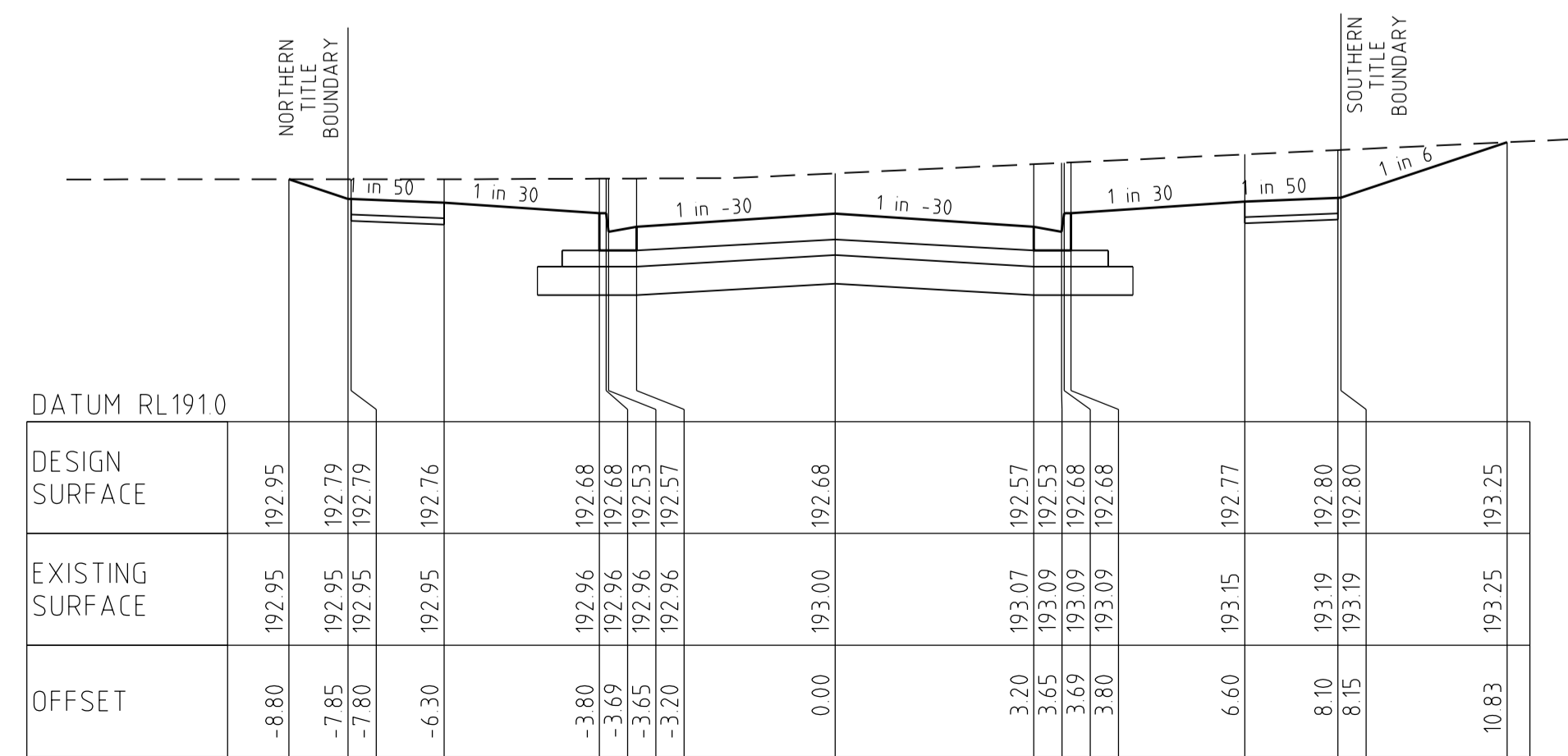
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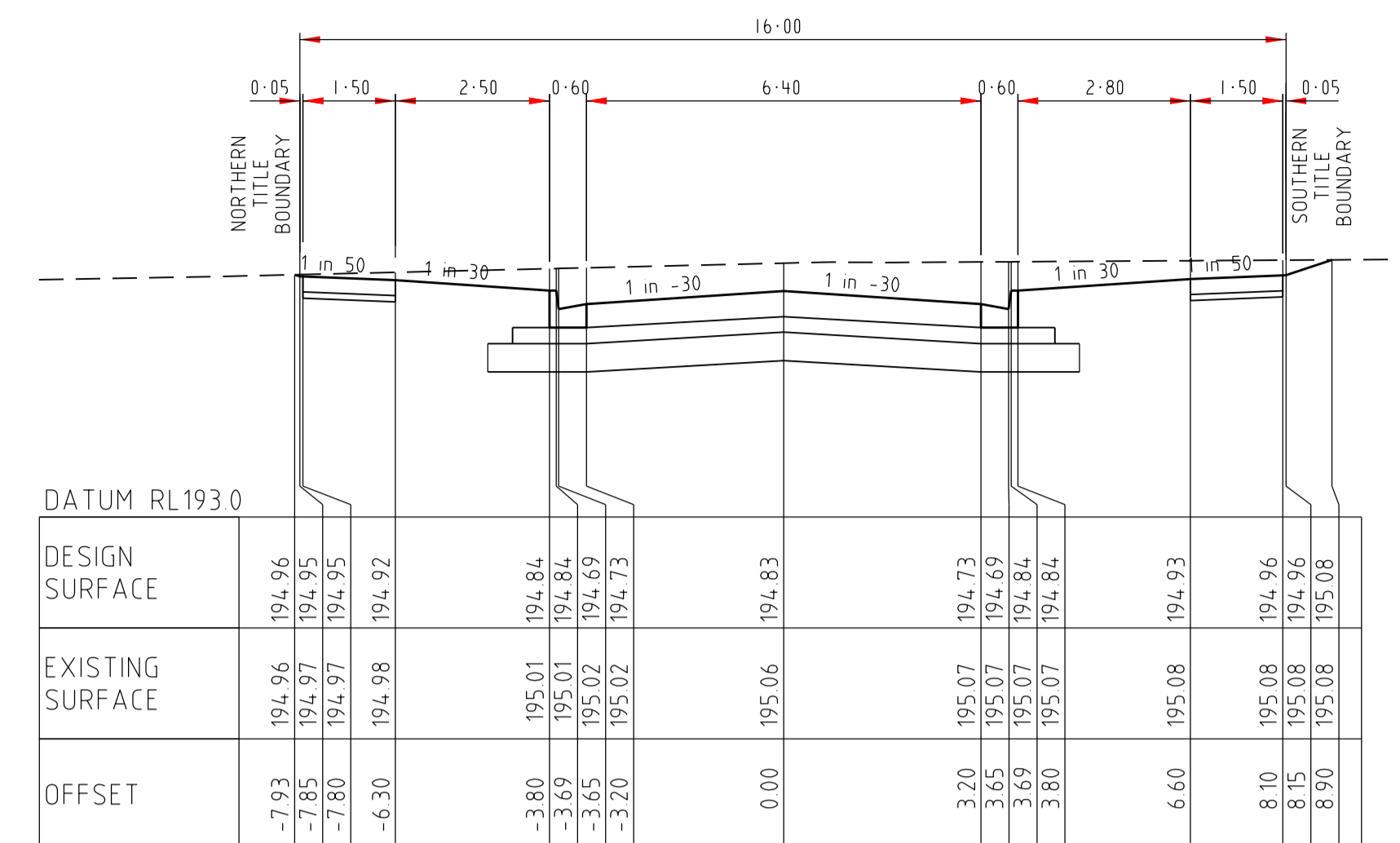
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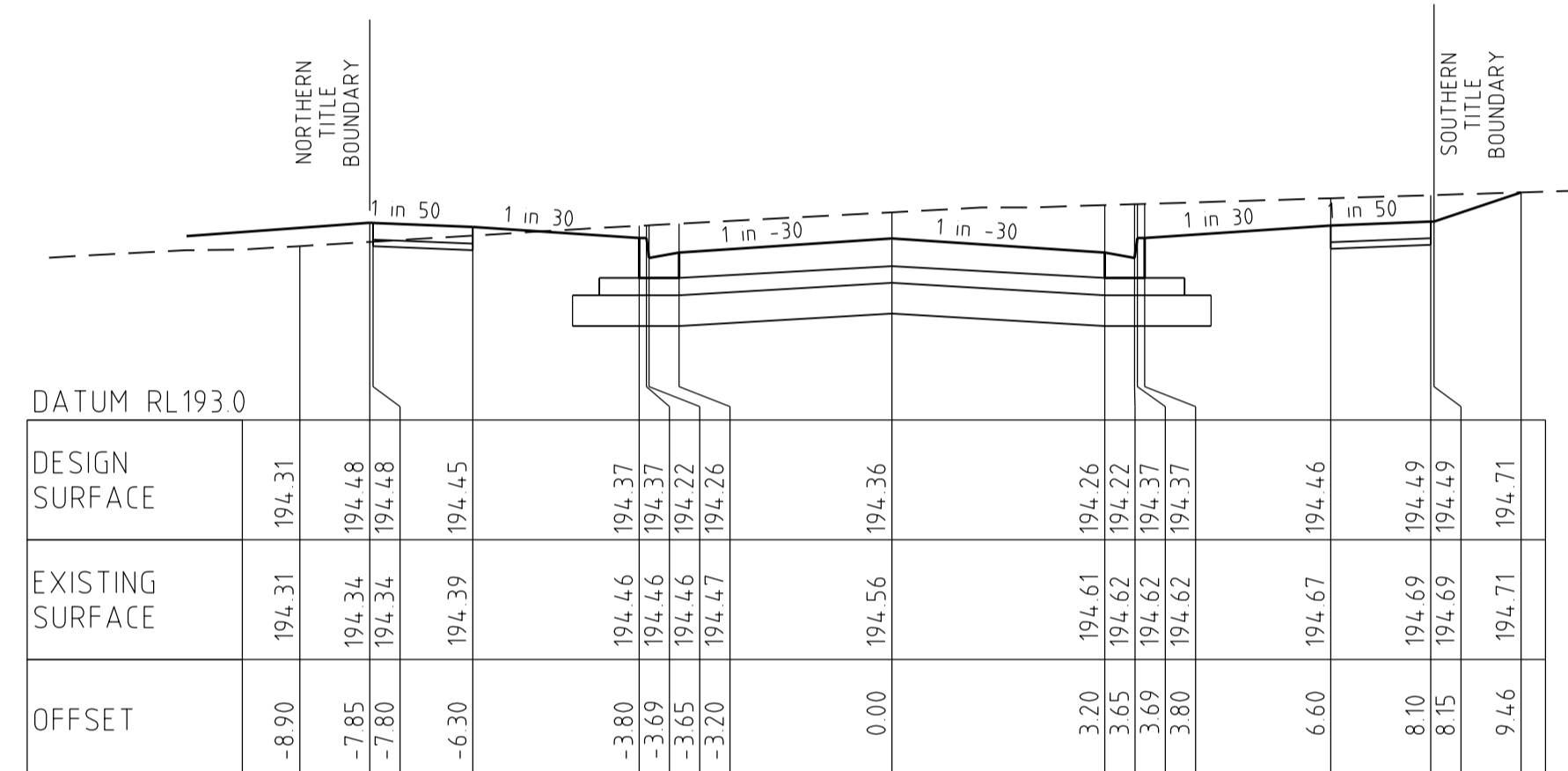
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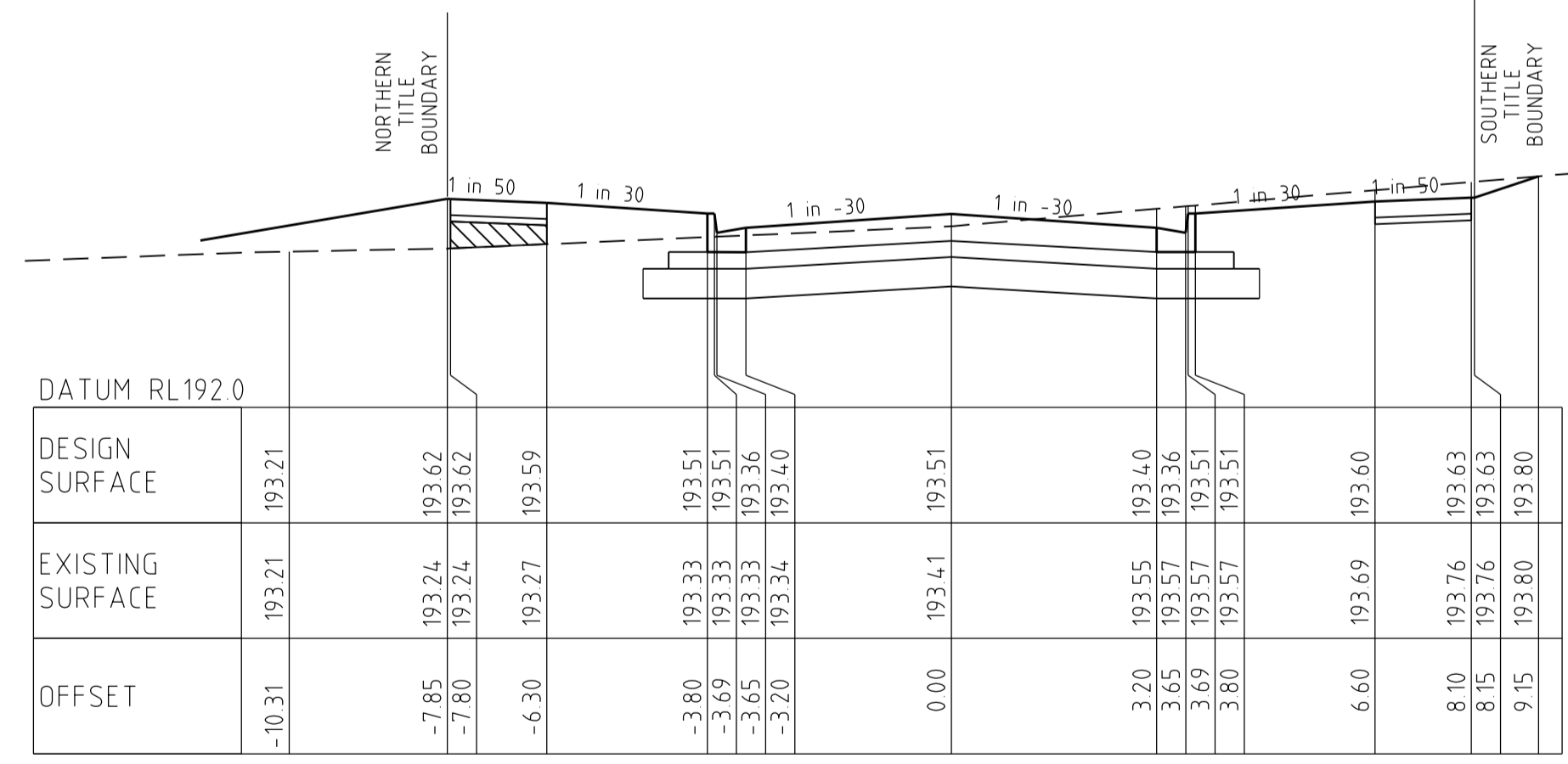
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210.15



180.15

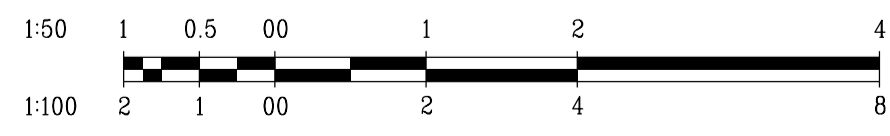


144.15

CARMICHAEL DRIVE

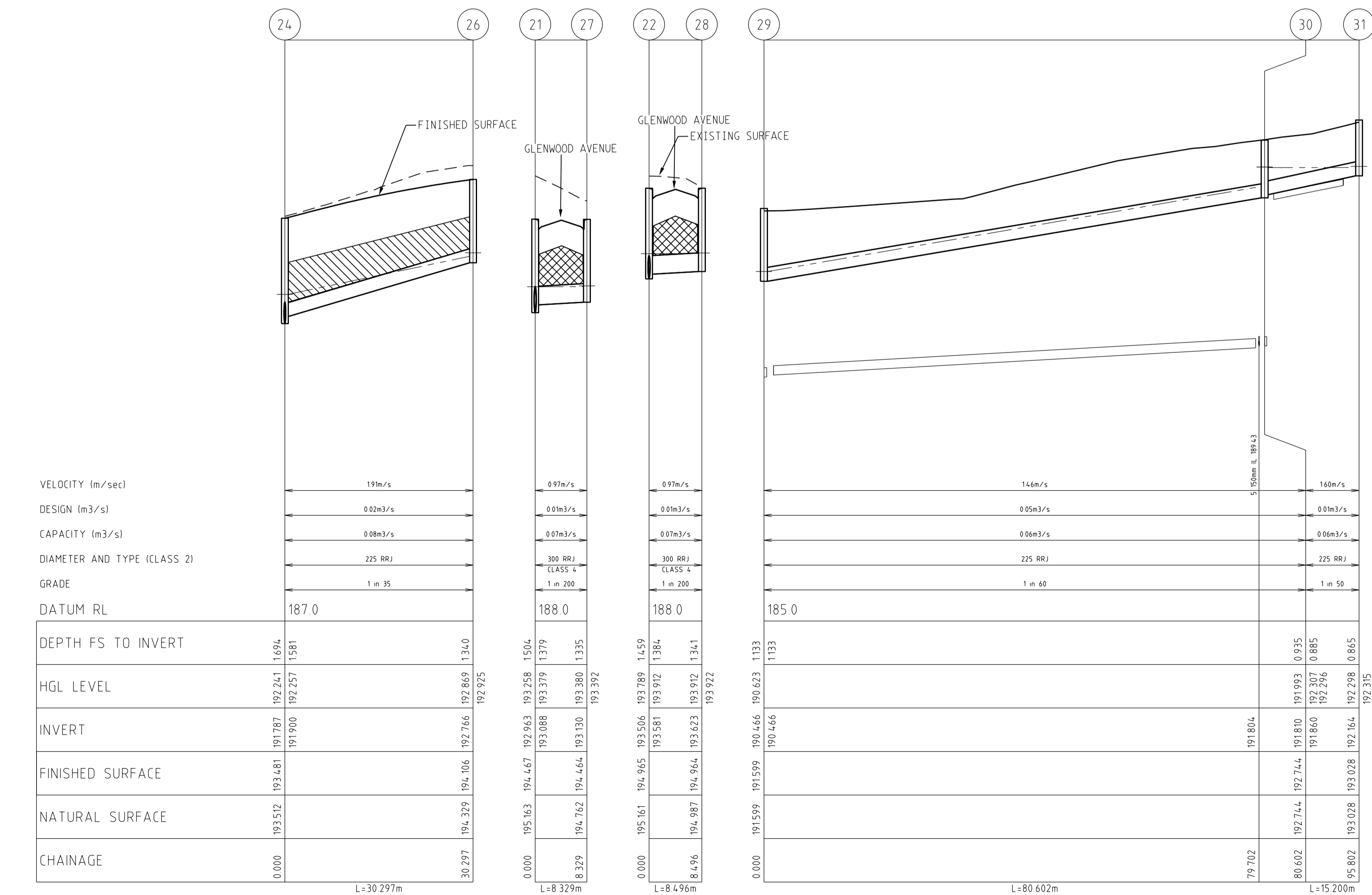
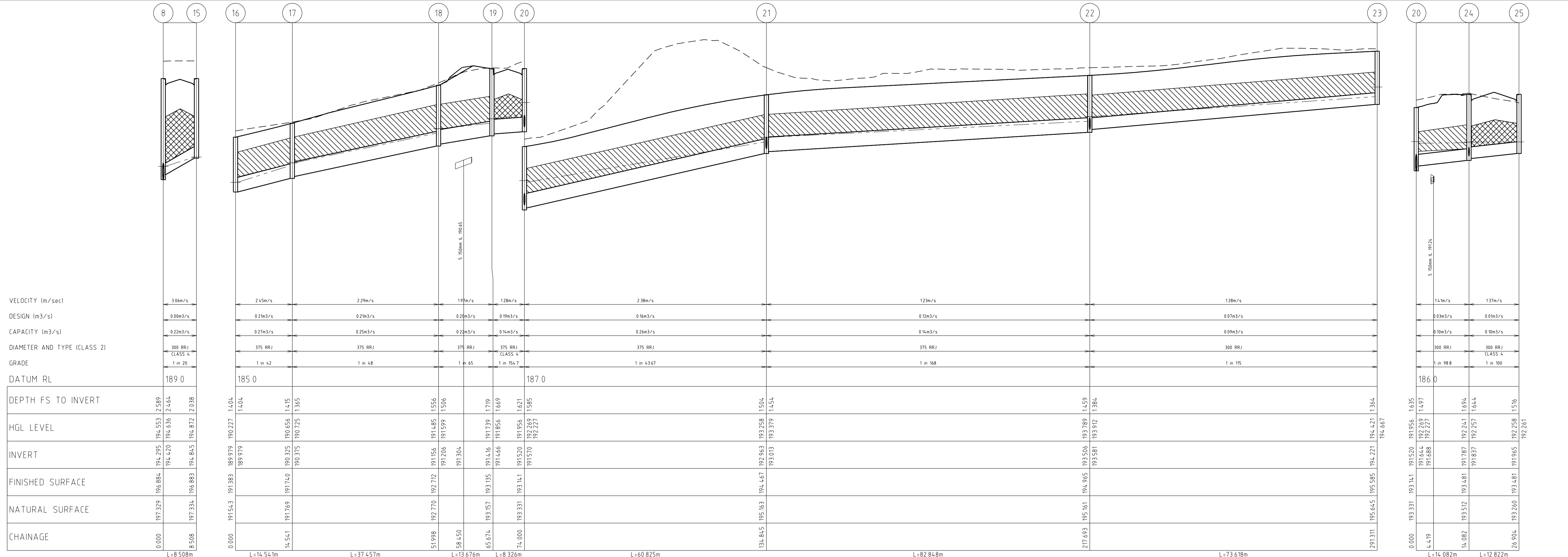
CROSS SECTIONS

SCALE HORIZONTAL 1:100
VERTICAL 1:50



CRUSHED ROCK BACKFILL

		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-C10 SURVEY BPD DESIGN SS DRAWN SS		RATHDOWNE ESTATE STAGE 2 CARMICHAEL DRIVE		MUNICIPALITY WHITTLESEA REFERENCE 8352 E/2	
AMENDMENTS A 19.12.17 ISSUED FOR CONSTRUCTION	VER DATE REMARKS	CHECKED	SCALE AS SHOWN DATUM AHD DATE JUL '17	SHEET 13 OF 21	A

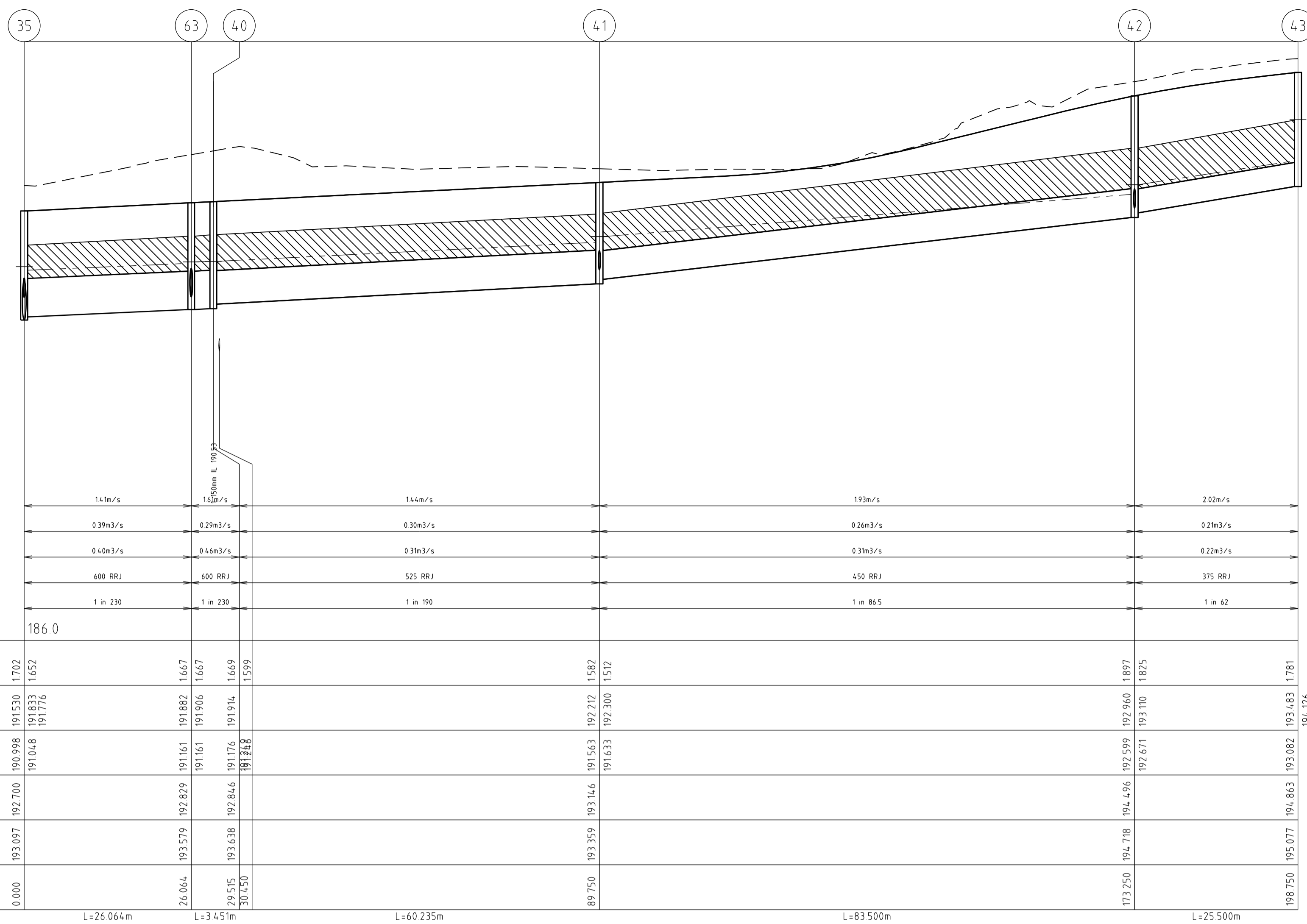


DRAINAGE LONGITUDINAL SECTIONS
 SCALE HORIZONTAL 1:500
 VERTICAL 1:50

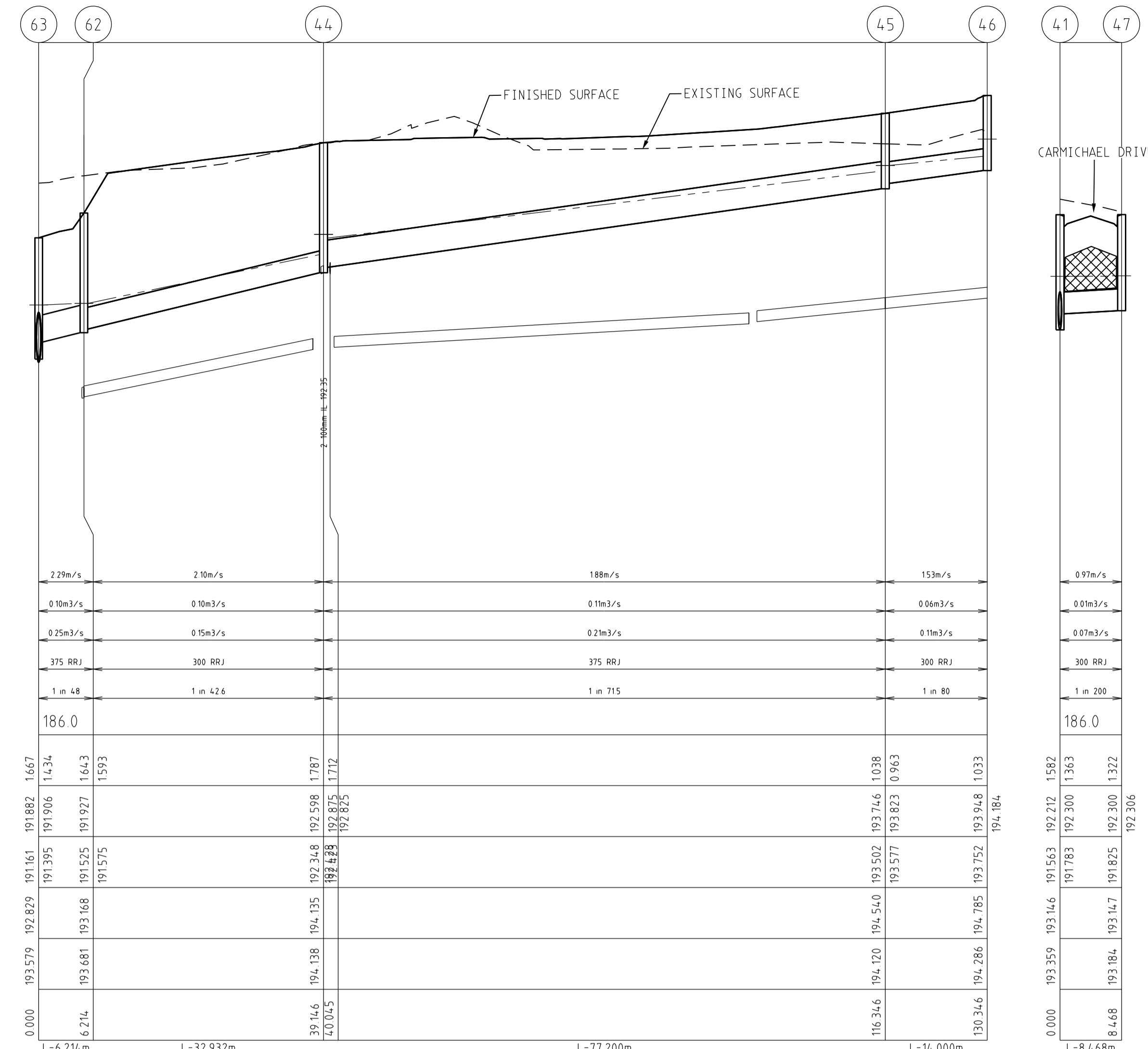
- SCHEDULE NOTES:-
- WHERE PIT HAUNCHING IS REQUIRED, INTERNAL PIT WALL DIMENSIONS MUST ALLOW 50mm CLEARANCE EACH SIDE OF PIPE OUTSIDE DIAMETER, INCLUDING ANGULAR PIPE ENTRY TO PIT. MINIMUM DIMENSIONS OF PIT BASE ARE TO BE AS PER SIZES SPECIFIED IN THE PIT SCHEDULE. TOP OF PIT OPENING FOR ALL HAUNCHED PITS TO BE 900mm x 600mm.
 - PIT BASE TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROP ACROSS PIT IS LESS THAN 50mm.
 - PROVIDE BICYCLE SAFE "V" SHAPED CLASS D GRATE (600mm MIN WIDTH).

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

MELWAY REF. 388-C10 SURVEY BPD DESIGN SS DRAWN SS		breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
RATHDOWNE ESTATE STAGE 2 DRAINAGE LONGITUDINAL SECTION		MUNICIPALITY WHITTLESEA REFERENCE 8352 E/2	
AMENDMENTS D 24-08-20 AMENDMENTS TO DRAINAGE PIT 20 C 15-08-18 AMENDMENTS TO DRAINAGE PIT 20 B 29-05-18 VARIOUS S/W PITS LOWERED AT INTERSECTIONS A 19.12.17 ISSUED FOR CONSTRUCTION	VER DATE REMARKS 79.702 80.602 82.329 84.965 86.329 87.922 89.623 91.804 93.935 95.885 97.298 99.298 101.865	CHECKED SCALE AS SHOWN DATUM AHD DATE JUL '17 SHEET 17 OF 21	D



VELOCITY (m/s)	DESIGN (m ³ /s)	CAPACITY (m ³ /s)	DIAMETER AND TYPE (CLASS 2)	GRADE	DATUM RL
14m/s	0.39m ³ /s	0.40m ³ /s	600 RRJ	1 in 230	186.0
16m/s	0.29m ³ /s	0.46m ³ /s	600 RRJ	1 in 230	
14m/s	0.30m ³ /s	0.31m ³ /s	525 RRJ	1 in 190	
19m/s	0.26m ³ /s	0.31m ³ /s	450 RRJ	1 in 86.5	
20m/s	0.21m ³ /s	0.22m ³ /s	375 RRJ	1 in 62	



VELOCITY (m/s)	DESIGN (m ³ /s)	CAPACITY (m ³ /s)	DIAMETER AND TYPE (CLASS 2)	GRADE	DATUM RL
2.29m/s	0.10m ³ /s	0.10m ³ /s	375 RRJ	1 in 48	186.0
2.10m/s	0.10m ³ /s	0.15m ³ /s	300 RRJ	1 in 42.6	
1.88m/s	0.11m ³ /s	0.11m ³ /s	375 RRJ	1 in 71.5	
1.53m/s	0.06m ³ /s	0.06m ³ /s	300 RRJ	1 in 80	
0.97m/s	0.01m ³ /s	0.01m ³ /s	300 RRJ	1 in 200	

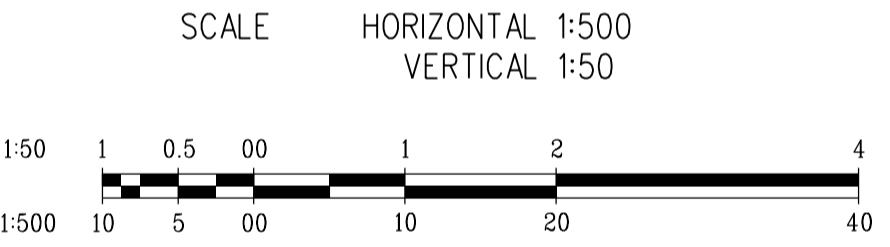
PIT SCHEDULE

PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP PIT RL	DEPTH INVERT	REMARKS
				INVERT	DIA	INVERT	DIA			
1	END PIPE			190.00	450			191.77	1.77	TEMPORARY SANDBAG ENDWALL
2	JUNCTION PIT (B2)	900	600	191.40	375	191.35	450	193.49	2.14	EDCM STD DWG 601, CLASS D GATIC COVER
3	GRADED ENTRY PIT (B2)	900	600	191.40	300	191.60	375	193.97	2.37	EDCM STD DWG 601 (HAUNCHED)
4	GRADED ENTRY PIT (B2)	900	600	192.05	375	192.00	375	194.21	2.21	EDCM STD DWG 601
5	GRADED ENTRY PIT (B2)	900	600	192.17	375	192.12	375	194.21	2.09	EDCM STD DWG 601
6	GRADED ENTRY PIT (B2)	900	600	192.30	375	192.25	375	194.38	2.13	EDCM STD DWG 601
7	GRADED ENTRY PIT (B2)	900	600	192.40	375	192.35	375	194.38	2.03	EDCM STD DWG 601
8	GRADED ENTRY PIT (B2)	900	600	192.48	300	194.30	375	196.88	2.59	EDCM STD DWG 601 (HAUNCHED)
9	JUNCTION PIT	900	600	194.55	375	194.50	375	196.44	1.94	EDCM STD DWG 605
10	END PIPE			194.59	375	196.32				BLANKED END
11	GRADED ENTRY PIT (B2)	900	600	192.93	300	194.24	1.31	193.93	1.31	EDCM STD DWG 601
12	JUNCTION PIT (B2)	900	600	191.61	450	193.52	1.91	193.52	1.91	EDCM STD DWG 601, CLASS D GATIC COVER
13	GRADED ENTRY PIT (B2)	900	600	191.66	300	191.77	450	193.83	2.06	EDCM STD DWG 601
14	GRADED ENTRY PIT (B2)	900	600	192.03	450	193.76	1.73	193.76	1.73	EDCM STD DWG 601
15	GRADED ENTRY PIT (B2)	900	600	194.85	300	196.88	2.04	196.88	2.04	EDCM STD DWG 601
16	END PIPE			189.98	375	191.38	1.40			TEMPORARY SANDBAG ENDWALL
17	JUNCTION PIT	900	600	190.38	375	190.33	375	191.74	1.42	EDCM STD DWG 605
18	GRADED ENTRY PIT (B2)	900	600	191.21	375	191.16	375	192.71	1.56	EDCM STD DWG 601
19	GRADED ENTRY PIT (B2)	900	600	191.47	375	191.42	375	193.14	1.72	EDCM STD DWG 601
20	GRADED ENTRY PIT (B2)	900	600	191.57	375	191.52	375	193.16	1.63	MODIFIED EDCM 602 (SEE DETAIL)
21	GRADED ENTRY PIT (B2)	900	600	193.01	375	192.96	375	194.47	1.50	EDCM STD DWG 601
22	GRADED ENTRY PIT (B2)	900	600	193.09	300	193.51	375	194.97	1.46	EDCM STD DWG 601
23	END PIPE			194.22	300	195.59	1.36			BLANKED END
24	GRADED ENTRY PIT (B2)	900	600	191.84	300	191.79	300	193.48	1.69	EDCM STD DWG 601
25	GRADED ENTRY PIT (B2)	900	600	191.90	225	191.97	300	193.48	1.52	EDCM STD DWG 601
26	JUNCTION PIT	900	600	192.77	225	194.11	1.34	194.11	1.34	EDCM STD DWG 605
27	GRADED ENTRY PIT (B2)	900	600	193.13	300	194.46	1.34	194.46	1.34	EDCM STD DWG 601
28	GRADED ENTRY PIT (B2)	900	600	193.62	300	194.96	1.34	194.96	1.34	EDCM STD DWG 601
29	END PIPE			190.47	225	191.64	1.17			TEMPORARY SANDBAG ENDWALL
30	EASEMENT PIT	600	600	191.86	225	191.81	225	192.74	0.93	EDCM STD DWG 605
31	EASEMENT PIT	600	600	192.16	225	193.06	0.90	193.06	0.90	EDCM STD DWG 605
32	END PIPE			190.39	600	191.98	1.59			TEMPORARY SANDBAG ENDWALL
33	GRADED ENTRY PIT (B2)	900	900	190.83	600	190.76	600	192.60	1.84	EDCM STD DWG 601 (HAUNCHED)
34	GRADED ENTRY PIT (B2)	900	900	190.95	600	190.90	600	192.70	1.80	EDCM STD DWG 601 (HAUNCHED)
35	GRADED ENTRY PIT (B2)	900	900	191.353	600	190.998	600	192.7	1.70	EDCM STD DWG 601 (HAUNCHED)
36	GRADED ENTRY PIT (B2)	900	600	191.518	300	191.468	300	192.919	1.451	EDCM STD DWG 601
37	GRADED ENTRY PIT (B2)	900	600	192.536	300	192.486	300	194.043	1.557	EDCM STD DWG 601
38	GRADED ENTRY PIT (B2)	900	600	192.593	300	194.044	1.452	194.044	1.452	EDCM STD DWG 601
39	GRADED ENTRY PIT (B2)	900	600	191.218	300	192.599	1.381	192.599	1.381	EDCM STD DWG 601

PIT SCHEDULE

PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP PIT RL	DEPTH INVERT	REMARKS
				INVERT	DIA	INVERT	DIA			
40	JUNCTION PIT	900	900	191.246	525	191.176	600	192.846	1.669	EDCM STD DWG 605
41	GRADED ENTRY PIT (B2)	900	900	191.633	450	191.563	525	193.146	1.582	EDCM STD DWG 601
42	GRADED ENTRY PIT (B2)	900	600	192.671	375	192.599	450	194.496	1.897	EDCM STD DWG 601
43	END PIPE			193.082	375	194.863	1.781			BLANKED END
44	JUNCTION PIT	900	600	192.423	375	192.348	375	194.142	1.794	EDCM STD DWG 605
45	JUNCTION PIT	900	600	193.577	300	193.502	375	194.572	1.07	EDCM STD DWG 605
46	END PIPE			193.752	300	194.785	1.033			BLANKED END
47	GRADED ENTRY PIT (B2)	900	600	191.825	300	193.147	1.322	193.147	1.322	EDCM STD DWG 601
48	GRADED ENTRY PIT (B2)	900	600	193.028	300	194.494	1.466	194.494	1.466	EDCM STD DWG 601
49	END PIPE			190.494	375	191.982	1.488			TEMPORARY SANDBAG ENDWALL
50	JUNCTION PIT	900	600	190.796	375	190.721	375	192.713	1.992	EDCM STD DWG 605
51	JUNCTION PIT	900	600	191.333	300	191.258	375	192.813	1.555	EDCM STD DWG 605
52	JUNCTION PIT	900	600	192.608	300	193.707	1.174	193.707	1.174	EDCM STD DWG 605
53	END PIPE			193.9	300	194.969	1.069			BLANKED END
54	GRADED ENTRY PIT (B2)	900	900	189.76	600	191.416	1.656	191.416	1.656	EDCM STD DWG 601
55	JUNCTION PIT	900	900	190.418	600	190.368	600	192.436	2.068	EDCM STD DWG 607 (HAUNCHED)
56	GRADED ENTRY PIT (B2)	900	900	190.943	300	190.593	600	192.868	2.275	EDCM STD DWG 605
57	GRADED ENTRY PIT (B2)	900	600	190.643	600	191.56	300	193.446	1.885	EDCM STD DWG 601
58	GRADED ENTRY PIT (B2)	900	600	191.885	300	191.834	300	193.385	1.551	EDCM STD DWG 601
59	JUNCTION PIT	900	600	192.496	300	194.069	1.573	194.069	1.573	EDCM STD DWG 605
60	GRADED ENTRY PIT (B2)	900	900	190.792	600	190.742	600	192.944	2.202	EDCM STD DWG 601 (HAUNCHED)
61	GRADED ENTRY PIT (B2)	900	600	190.123	300	191.411	1.289	191.411	1.289	EDCM STD DWG 601
62	JUNCTION PIT	900	600	191.575	375	191.525	375	193.046	1.538	EDCM STD DWG 601
63	JUNCTION PIT	900	900	191.161	600	191.161	600	192.831	1.643	EDCM STD DWG 605
64	GRADED ENTRY PIT (B2)	900	900	190.919	600	190.869	600	193.454	2.585	EDCM STD DWG 601 (HAUNCHED)
65	GRADED ENTRY PIT (B2)	900	900	191.012	600	193.447	2.435	193.447	2.435	EDCM STD DWG 601 (HAUNCHED)
66	GRADED ENTRY PIT (B2)	900	600	192.500	300	193.541	1.041	193.541	1.041	EDCM STD DWG 601
67	GRADED ENTRY PIT (B2)	900	600	192.500	300	193.541	1.041	193.541	1.041	EDCM STD DWG 601
68	GRADED ENTRY PIT (B2)	900	600	191.412	300	193.494	2.229	193.494	2.229	EDCM STD DWG 601
69	GRADED ENTRY PIT (B2)	900	600	191.670	300	193.645	1.974	193.645	1.974	EDCM STD DWG 601

DRAINAGE LONGITUDINAL SECTIONS

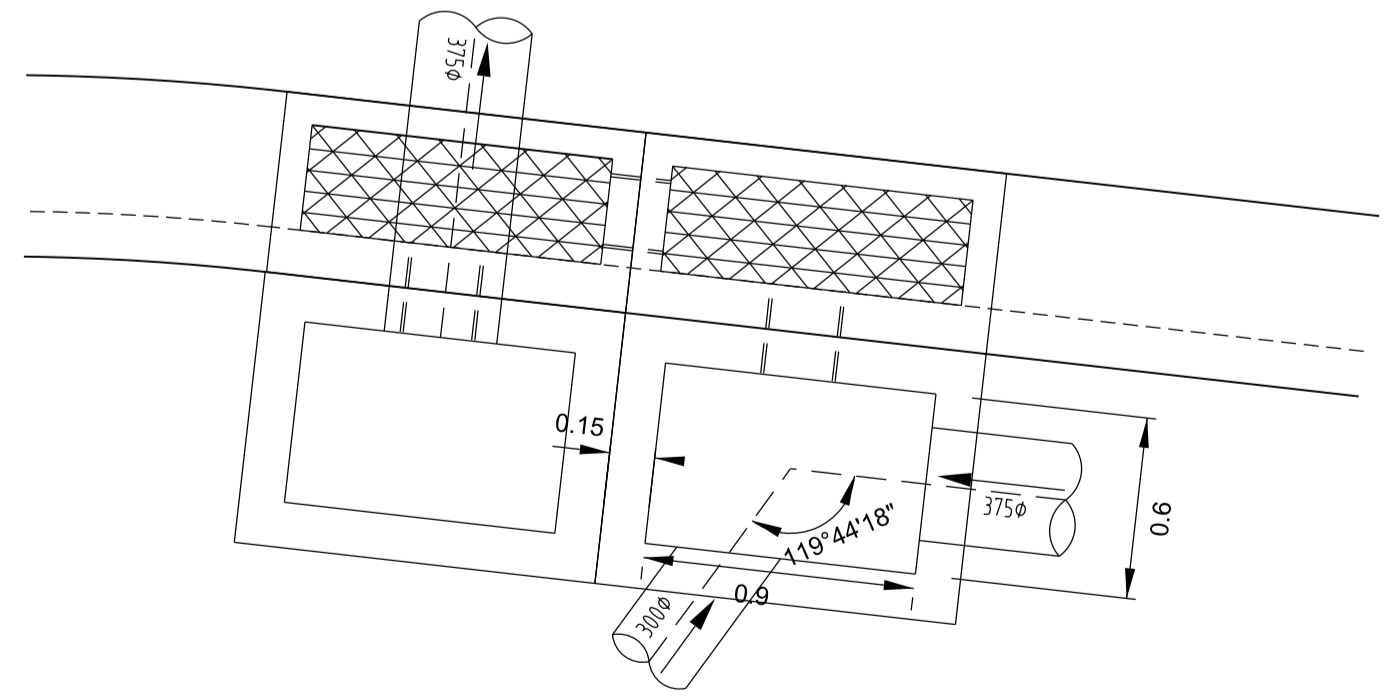


SCHEDULE NOTES:-

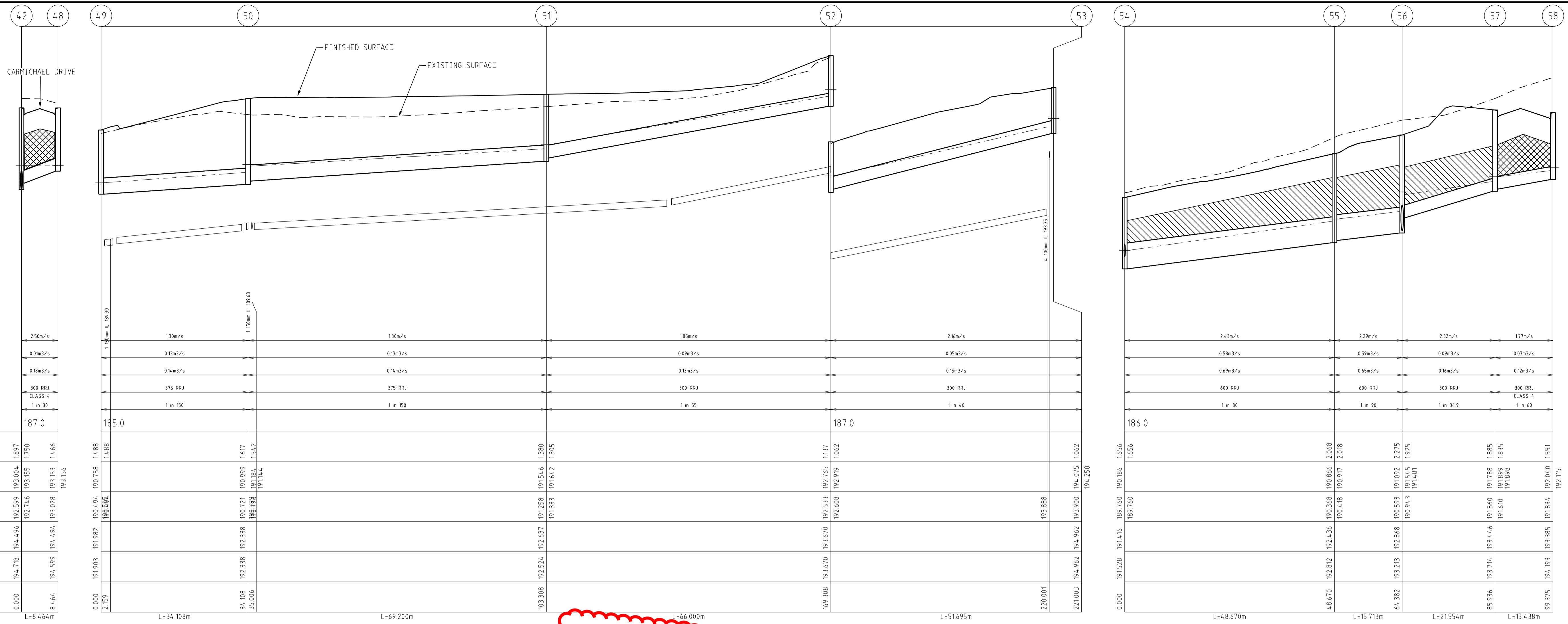
- WHERE PIT HAUNCHING IS REQUIRED, INTERNAL PIT WALL DIMENSIONS MUST ALLOW 50mm CLEARANCE EACH SIDE OF PIPE OUTSIDE DIAMETER, INCLUDING ANGULAR PIPE ENTRY TO PIT. MINIMUM DIMENSIONS OF PIT BASE ARE TO BE AS PER SIZES SPECIFIED IN THE PIT SCHEDULE. TOP OF PIT OPENING FOR ALL HAUNCHED PITS TO BE 900mm x 600mm.
- PIT BASE TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROP ACROSS PIT IS LESS THAN 50mm.
- PROVIDE BICYCLE SAFE 'V' SHAPED CLASS D GRATE (600mm MIN WIDTH).

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

PIT 20 DETAIL



AMENDMENTS	I	24.05.19	PIT SCHEDULE UPDATED, PITS 68-69 ADDED	 breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
	H	22.01.19	PIT SCHEDULE UPDATED, PITS 66-67 ADDED		
	G	23.11.18	PIT SCHEDULE UPDATED		
	F	03.09.18	PITS UPDATED		
	E	31.08.18	PIT 40 UPDATED / PIT 62 ADDED		
C	15.08.18	PIT 20 UPDATED / DETAIL ADDED		RATHDOWNE ESTATE STAGE 2 DRAINAGE LONGITUDINAL SECTION	MUNICIPALITY WHITTLESEA REFERENCE 9365 E/2
A	19.12.17	ISSUED FOR CONSTRUCTION		DRAWN SS CHECKED SS	DATE JUL '17 SHEET 18 OF 21



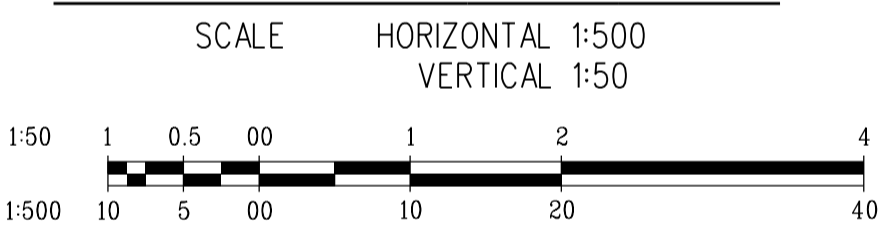
VELOCITY (m/sec)	2.50m/s
DESIGN (m ³ /s)	0.01m ³ /s
CAPACITY (m ³ /s)	0.18m ³ /s
DIAMETER AND TYPE (CLASS 2)	300 RRJ CLASS 4
GRADE	1 in 30
DATUM RL	187.0
DEPTH FS TO INVERT	193.004 - 1897
HGL LEVEL	192.599 - 1750
INVERT	192.716 - 193.028
FINISHED SURFACE	194.494 - 193.156
NATURAL SURFACE	194.599 - 193.156
CHAINAGE	0.000 - 8.464

VELOCITY (m/sec)	2.14m/s
DESIGN (m ³ /s)	0.05m ³ /s
CAPACITY (m ³ /s)	0.15m ³ /s
DIAMETER AND TYPE (CLASS 2)	300 RRJ CLASS 4
GRADE	1 in 41
DATUM RL	187.0
DEPTH FS TO INVERT	191.834 - 1551
HGL LEVEL	191.885 - 1459
INVERT	192.040 - 1573
FINISHED SURFACE	194.193 - 192.872
NATURAL SURFACE	194.513 - 192.872
CHAINAGE	99.375 - 124.407

VELOCITY (m/sec)	1.84m/s	1.25m/s	1.77m/s
DESIGN (m ³ /s)	0.50m ³ /s	0.48m ³ /s	0.49m ³ /s
CAPACITY (m ³ /s)	0.52m ³ /s	0.35m ³ /s	0.50m ³ /s
DIAMETER AND TYPE (CLASS 2)	600 RRJ CLASS 4	600 RRJ CLASS 4	600 RRJ CLASS 4
GRADE	1 in 160	1 in 300	1 in 150
DATUM RL	186.0	186.0	186.0
DEPTH FS TO INVERT	190.593 - 2.275	191.000 - 2.202	191.610 - 2.435
HGL LEVEL	191.089 - 2.225	191.557 - 2.152	192.160 - 1.908
INVERT	191.228 - 2.225	191.671 - 2.152	192.216 - 1.908
FINISHED SURFACE	192.066 - 191.089	193.454 - 191.815	193.447 - 191.012
NATURAL SURFACE	192.213 - 191.089	193.554 - 191.815	193.842 - 191.447
CHAINAGE	0.000 - 13.837m	31.120 - 23.283m	51.015 - 13.895m

VELOCITY (m/sec)	0.97m/s	0.07m/s	0.07m/s
DESIGN (m ³ /s)	0.01m ³ /s	0.07m ³ /s	0.07m ³ /s
CAPACITY (m ³ /s)	0.07m ³ /s	0.07m ³ /s	0.07m ³ /s
DIAMETER AND TYPE (CLASS 2)	300 RRJ CLASS 4	300 RRJ CLASS 4	300 RRJ CLASS 4
GRADE	1 in 200	1 in 300	1 in 300
DATUM RL	184.0	180.0	180.0
DEPTH FS TO INVERT	189.760 - 1.656	191.000 - 2.094	191.610 - 1.908
HGL LEVEL	190.039 - 1.377	191.400 - 2.094	191.670 - 1.974
INVERT	190.216 - 1.289	191.412 - 2.229	192.216 - 1.908
FINISHED SURFACE	191.411 - 1.902	193.642 - 2.144	193.584 - 1.974
NATURAL SURFACE	191.726 - 1.902	193.642 - 2.144	193.584 - 1.974
CHAINAGE	16.786 - 16.786m	3.704 - 3.704m	3.990 - 3.990m

DRAINAGE LONGITUDINAL SECTIONS



SCHEDULE NOTES:-

- WHERE PIT HAUNCHING IS REQUIRED, INTERNAL PIT WALL DIMENSIONS MUST ALLOW 50mm CLEARANCE EACH SIDE OF PIPE OUTSIDE DIAMETER, INCLUDING ANGULAR PIPE ENTRY TO PIT. MINIMUM DIMENSIONS OF PIT BASE ARE TO BE AS PER SIZES SPECIFIED IN THE PIT SCHEDULE. TOP OF PIT OPENING FOR ALL HAUNCHED PITS TO BE 900mm x 600mm.
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- PROVIDE BICYCLE SAFE "V" SHAPED CLASS D GRATE (600mm MIN WIDTH).

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

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS D 24-05-19 DRAINAGE LINES 68-69 ADDED C 23-11-18 DRAINAGE LINE 60-65 ADDED B 29-05-18 VARIOUS S/W PITS LOWERED AT INTERSECTIONS A 19-12-17 ISSUED FOR CONSTRUCTION		MELWAY REF. 388-C10 SURVEY BPD DESIGN SS DRAWN SS		RATHDOWNE ESTATE STAGE 2 DRAINAGE LONGITUDINAL SECTION REFERENCE 9365 E/2	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
					DATE JUL '17
					SHEET 19 OF 21

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.

WARNING
CONTRACTOR TO TAKE EXTRA CAUTION OF OPTIC FIBER CABLE IN DAVIS ROAD



PLAN
SCALE 1:500
SCALE 1 : 500
LENGTHS ARE IN METRES

SYMBOL LEGEND

Prop	Exist	Ex/Natural/FS Level +28.51
Drains	— S —	FS @ Building Line
Sewer <300	— S —	Top/Toe of Batter
Sewer >300	— S —	Top Ret. Wall Level
Water	— W —	100yr Flood Level
House Drain	— H —	Fill Prop/Ex
Property Inlet	— P —	Cut Prop/Ex
Street Sign	— S —	
PSM	— P —	
Retaining Wall	— R —	
Conduits 50mm	— C —	
Conduits 100mm	— C —	
Ex Gas/Elect/Tel	— G —	

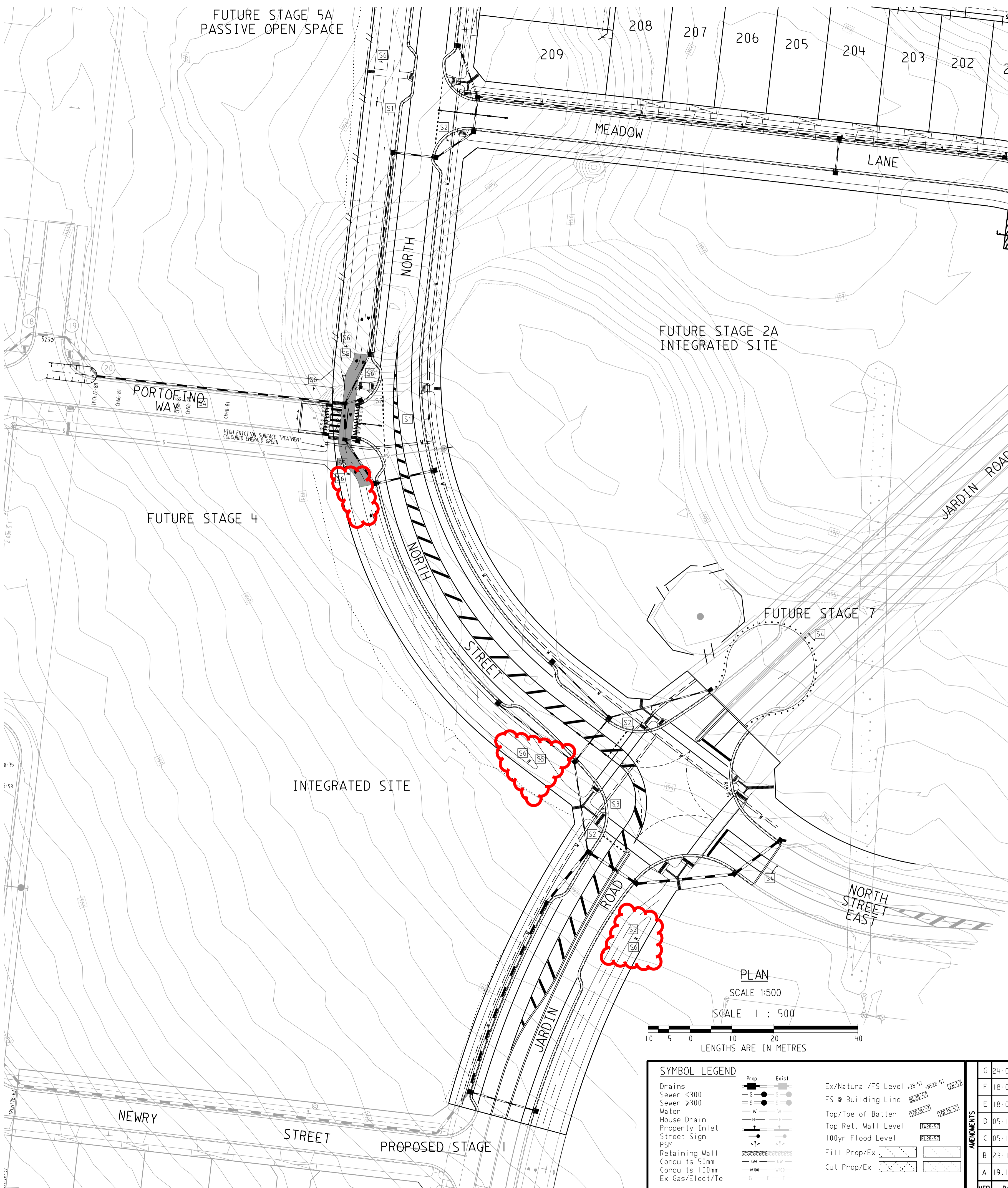
SIGNAGE & LINEMARKING LEGEND

S1	"STREET" SIGN	GIVE WAY
S2	"GIVE WAY" SIGN (R1-2A)	KEEP LEFT
S3	"KEEP LEFT" SIGN (R2-3L)	NO THROUGH ROAD
S4	"NO ROAD" SIGN & "HAZARD" SIGN (G9-18)	ONLY ONLY RB-3(R)
S5	SEGREGATED FOOTWAY (R8-3)	WG-9
S6	BICYCLE / PEDESTRIAN WARNING (W6-9) & W8-23	WB-23

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 388-C10		SURVEY BPD		MUNICIPALITY WHITTLESEA	
AMENDMENTS		DESIGN SS		REFERENCE 9365 E/2	
C 05-04-19 SHARED PATH SIGNS UPDATED ALONG NORTH STREET		DRAWN SS		SHEET 20 OF 21	
B 05-12-18 SHARED PATH SIGNS UPDATED ALONG NORTH STREET		SCALE AS SHOWN		DATE JUL '17	
A 19.12.17 ISSUED FOR CONSTRUCTION		DATUM AHD		DATE JUL '17	
VER		CHECKED		SHEET 20 OF 21	

FOR CONTINUATION REFER SHEET 2

FUTURE STAGE 5A
PASSIVE OPEN SPACE



WARNING
CONTRACTOR TO TAKE EXTRA CAUTION
OF OPTIC FIBER CABLE IN DAVIS ROAD

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.

SIGNAGE & LINEMARKING LEGEND

— S1	"STREET" SIGN	
— S2	"GIVE WAY" SIGN (R1-2A)	
— S3	"KEEP LEFT" SIGN (R2-3L)	
— S4	"NO ROAD" SIGN & "HAZARD" SIGN (G9-18)	
— S5	SEGREGATED FOOTWAY (R8-3)	R8-3(R)
— S6	BICYCLE / PEDESTRIAN WARNING (W6-9) & W8-23	W6-9 W8-23

PLAN
SCALE 1:500
LENGTHS ARE IN METRES

SYMBOL LEGEND		Prop	Exist
Drains	— S	— S	— S
Sewer <300	— S	— S	— S
Sewer >300	— S	— S	— S
Water	— W	— W	— W
House Drain	— H	— H	— H
Property Inlet	— P	— P	— P
Street Sign	— S	— S	— S
PSM	— P	— P	— P
Retaining Wall	— R	— R	— R
Conduits 50mm	— C	— C	— C
Conduits 100mm	— C	— C	— C
Ex Gas/Elect/Tel	— G	— G	— G
Ex/Natural/FS Level	— L	— L	— L
FS @ Building Line	— B	— B	— B
Top/Toe of Batter	— T	— T	— T
Top Ret. Wall Level	— W	— W	— W
100yr Flood Level	— F	— F	— F
Fill Prop/Ex	— F	— F	— F
Cut Prop/Ex	— C	— C	— C

AMENDMENTS	DATE	REMARKS
G	24-05-19	PORTO/NORTH INTERSECTION UPDATED
F	18-04-19	COUNCIL COMMENTS
E	18-04-19	SHARED PATH SIGNS UPDATED ALONG NORTH STREET
D	05-12-18	SHARED PATH SIGNS UPDATED ALONG NORTH STREET
C	05-12-18	SHARED PATH SIGNS UPDATED ALONG NORTH STREET
B	23-11-18	NORTH / RATHDOWNE INTERSECTION UPDATED
A	19-12-17	ISSUED FOR CONSTRUCTION

	breese pitt dixon Pty. Ltd.		1/19 coto street
	land surveyors		hawthorn east, 3123
		civil engineers	telephone 8823 2300
			fax no. 8823 2310
RATHDOWNE ESTATE STAGE 2			MUNICIPALITY WHITTLESEA
SIGNAGE AND LINE MARKING PLAN SHEET 2 OF 2			REFERENCE 9365 E/2
SCALE AS SHOWN	DATUM AHD	DATE JUL '17	SHEET 21 OF 21