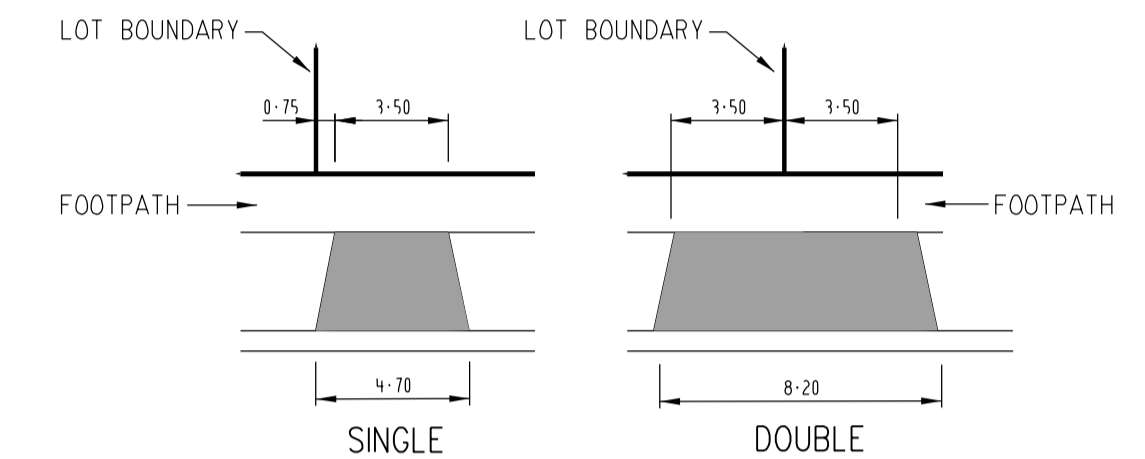


SHEET INDEX

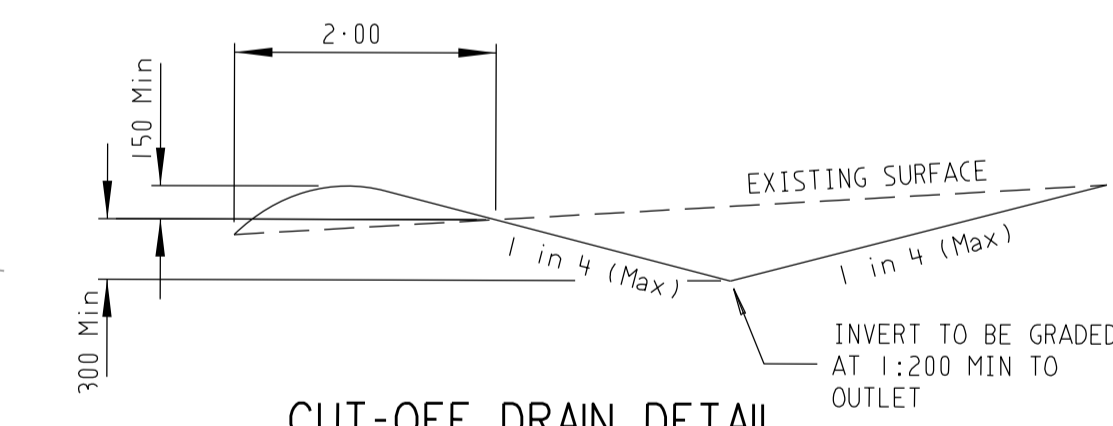
SHT No.	VER	DESCRIPTION
1	H	DETAIL PLAN -1, SHEET INDEX & SERVICES SCHEDULE
2	C	DETAIL PLAN -2, LOCALITY PLAN & GENERAL NOTES
3	B	TYPICAL CROSS SECTIONS, PAVEMENT DETAIL & INTERSECTION PLAN -1
4	B	INTERSECTION PLAN -2
5	A	INTERSECTION PLAN -3
6	A	INTERSECTION PLAN -4
7	B	LONGITUDINAL SECTION - LITTLEWICK PARADE & UPTHORPE WAY
8	A	LONGITUDINAL SECTION - ALLERBY CRESCENT, ECCLES LANE & ASTBURY CRESCENT
9	A	LONGITUDINAL SECTION - HARFIELD AVENUE & NORTHALL ROAD
10	A	CROSS SECTIONS - LITTLEWICK PARADE
11	B	CROSS SECTIONS - UPTHORPE WAY & ASTBURY CRESCENT
12	A	CROSS SECTIONS - ALLERBY CRESCENT, ECCLES LANE
13	A	CROSS SECTIONS - HARFIELD AVENUE-1
14	B	CROSS SECTIONS - HARFIELD AVENUE-2 & NORTHALL ROAD
15	B	DRAINAGE LONGITUDINAL SECTIONS-1
16	B	DRAINAGE LONGITUDINAL SECTIONS-2
17	B	DRAINAGE LONGITUDINAL SECTIONS-3
18	A	DRAINAGE LONGITUDINAL SECTIONS-4
19	B	PIT SCHEDULE & DETAIL
20	B	PARKING PLAN
21	A	VEHICLE TURNING PLAN
22	B	IRRIGATION CONDUIT PLAN



DRIVEWAY PLAN
NOT TO SCALE

SERVICES OFFSETS AND LOCATIONS

STREET NAME	RD. RESERVE	WATER		GAS	ELECTRICITY		NBN CABLES		NBN PITS	Bk. of KERB	JOINT TRENCHING
		DW	NDW		POLES	NBN	NBN				
NORTHALL ROAD	16.00	3.20 W	2.70 W	2.25 W	2.50 E	1.00 BOK	1.85 E	1.85 W	4.20 W 3.90 E	G DW NDW & E NBN	
ASTBURY CRESCENT	16.00	3.20 S	2.70 S	2.25 S	2.50 N	1.00 BOK	1.85 N	1.85 S	4.20 S 3.90 N	G DW NDW & E NBN	
HARFIELD AVENUE (CH171-CH240)	31.40.4	3.20 E	2.70 E	2.25 E	2.40 W	1.00 BOK	1.85 W	1.85 E	VARIES	G DW NDW & E NBN	
HARFIELD AVENUE (CH241-CH404)	31.40.4	3.20 E	2.70 E	2.25 E	1.95 W	1.00 BOK	1.00 W	1.85 E	VARIES	G DW NDW & E NBN	
UPTHORPE WAY	16.00	3.20 N	2.70 N	2.25 N	2.50 S	1.00 BOK	1.85 S	1.85 N	4.20 N 3.90 S	G DW NDW & E NBN	
LITTLEWICK PARADE (214-218)	14.00	3.20 W	2.70 W	2.25 W	0.90 E	1.00 BOK	1.85 W	1.85 W	4.20 W 3.90 E	G DW NDW NBN	
LITTLEWICK PARADE (219-221)	16.00	3.20 W	2.70 W	2.25 W	2.50 E	1.00 BOK	1.85 E	1.85 W	4.20 W 3.90 E	G DW NDW & E NBN	
ALLERBY CRESCENT (222-225)	14.00	3.20 S	2.70 S	2.25 S	0.90 N	1.00 BOK	1.85 S	1.85 S	4.20 S 2.00 N	G DW NDW NBN	
ALLERBY CRESCENT (226)	16.00	3.20 W	2.70 W	2.25 W	2.50 E	1.00 BOK	1.85 E	1.85 W	4.20 W 3.90 E	G DW NDW & E NBN	
ECCLES LANE (226-229)	8.00	1.80 S	1.40 S	1.00 S	1.55 N	1.00 BOK	0.90 N	0.60 S	4.20 S 2.00 N	G DW NDW & E NBN	
ATLSWORTH WAY	14.00	3.20 S	2.70 S	2.25 S	0.90 N	1.00 BOK	1.85 S	1.85 S	4.20 S 2.00 N	G DW NDW NBN	



AS CONSTRUCTED

ATTENTION TO CONTRACTOR

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- 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

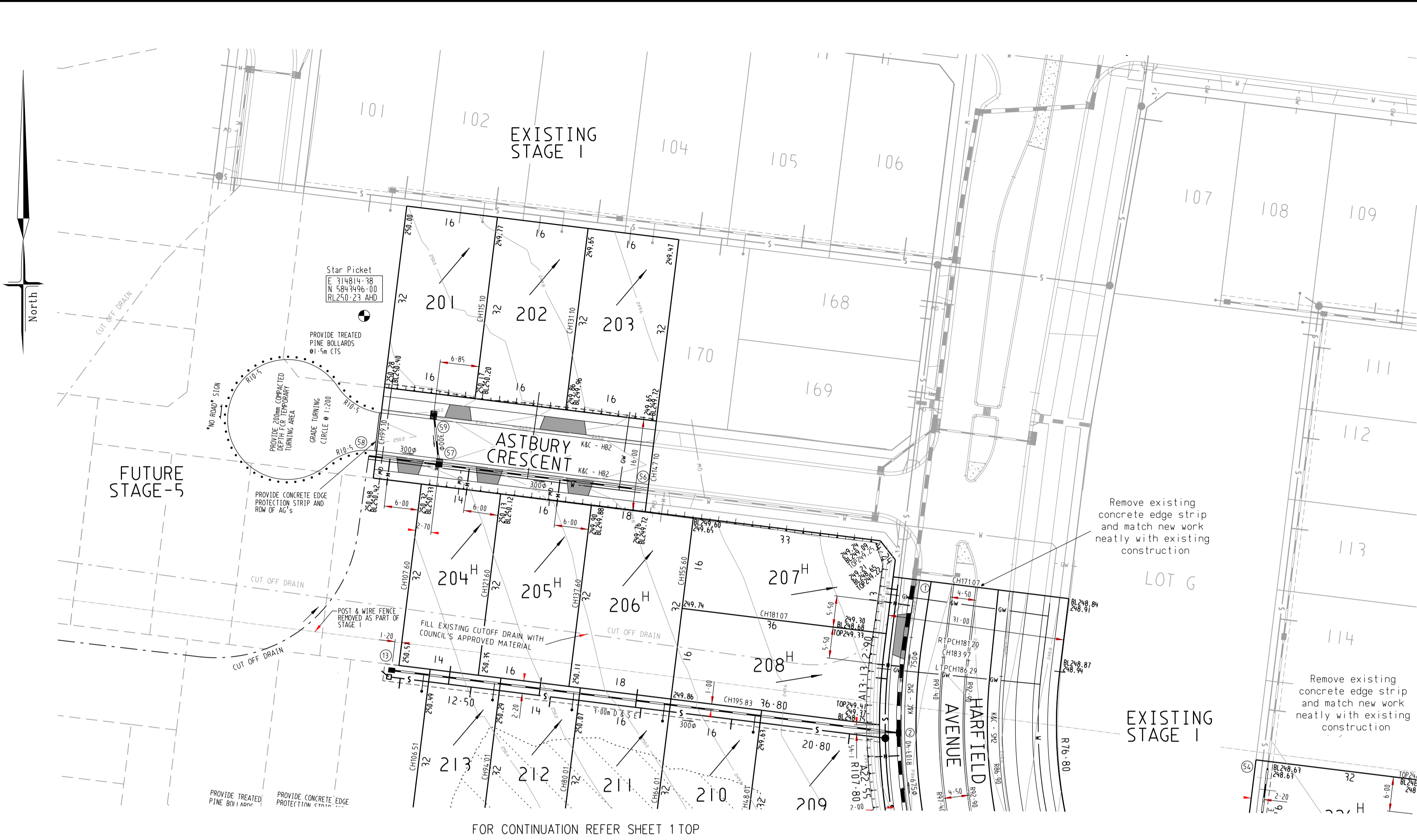
Drains	Prop	Exist	Ex/Natural/FS Level -28.51
Sewer <300	—S—	—S—	FS @ Building Line
Sewer >300	—S—	—S—	Top/Toe of Batter
Water	—W—	—W—	Top Ret. Wall Level
House Drain	—H—	—H—	100yr Flood Level
Property Inlet	—P—	—P—	Fill Prop/Ex
Street Sign	—S—	—S—	Cut Prop/Ex
PSM	—P—	—P—	Fill Prop/Ex >50mm
Retaining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

WARNING
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PLAN
SCALE 1:500

H 23.03.17	ROAD NAME UPDATED	MELWAY REF. 366-E-6	breese pitt dixon pty. ltd. land surveyors	1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
G 13.02.17	SERVICES OFFSET SCHEDULE UPDATED	SURVEY BOSCO J		
F 07.11.16	PIT 33A & 34A ADDED. SHEET INDEX UPDATED	DESIGN SBS		
E 15.09.16	SERVICES OFFSET TABLE FOR ECCLES LANE UPDATED GAS & WATER CONDUIT LOCATION UPDATED	DRAWN SBS		
D 12.08.16	SHEET INDEX UPDATED			
C 03.08.16	SHEET 22 ADDED. SHEET INDEX UPDATED			
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN
				DATUM AHD
				DATE FEB'16
				SHEET 1 OF 22
				MUNICIPALITY HUME
				REFERENCE 8711 E/2



FOR CONTINUATION REFER SHEET 1 TOP

PLAN
SCALE 1:500

NOTES

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRECOMMENCEMENT MEETING.
- PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCE 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.
- 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.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL". APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AHD.
- ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA MGA.
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE HUME CITY COUNCIL SPECIFICATIONS.
- FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
- FILLING TO COMPLY WITH A.S.3798-1996 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 IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
- NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL'S SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNED ON SITE.
- BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5M DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES/FENCES AND FOR ANY RETAINING WALLS OVER 1.0M IN HEIGHT.
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
- ALL DISTURBED AREAS, i.e. NATURE STRIPS, BATTERS, ALLOTMENTS & RESERVES, ARE TO BE REINSTATED TO A CLEAN CONDITION. TOP DRESSED 100mm TOP SOIL FREE OF CLUMPS, SOOTS AND CLAY LUMPS AND SOON WITH GRASS SEED. SEED IS TO BE A DROUGHT TOLERANT COUCH/FESCUE MIX UNLESS OTHERWISE DETAILED. BLEND IS GENERALLY AS FOLLOWS:
 - 40% DWARF TALL FESCUE - DROUGHT TOLERANT CULTIVARS
 - 40% COUK
 - 20% HARD FESCUE
- NOTE: GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD.
- FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
- ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG V20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
- ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
- SERVICE CONDUITS TRENCHES UNDER DRIVEWAYS AND FOOTPATHS ARE TO BE 50MM P.V.C. LAYED 450mm DEEP AND EXTENDING 250mm EACH SIDE OF DRIVEWAYS/FOOTPATHS. TRENCHES ARE TO BE BACKFILLED WITH 20mm CLASS 2 CRUSHED ROCK. ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20mm 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003.
- STORMWATER DRAINS TO BE CLASS 2 R.C. OR RIGID F.R.C. WITH ADCOL FLEXIBLE COLLARS PIPES UNLESS NOTED OTHERWISE. ALL PIPES UP TO & INCLUDING 600mm DIA. ARE TO BE RUBBER RING JOINTED INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPES LARGER THAN 600mm DIA.
- WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
- ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- 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.
- PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROVE ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
- ALL EXISTING ASSETS AFFECTED BY THE WORKS, SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION DEVELOPED BY C.F.A., M.F.E.S.B. & N.R.E., MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A RED TOPPED WHITE POST.
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

- ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742-1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH STANDARD DRAWING 5048.
- ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING GOLD APPLIED PLASTIC TROMBLED INTO PLACE. MATERIAL DEGRADABLE PLASTIC AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
- ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743-2001.
- HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
- LOTS DENOTED THIS 36H ARE TO BE PROVIDED WITH A 100mm HOUSE DRAIN CONNECTION TO BE LAID AT AN OFFSET OF 50mm FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0M FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN.
- DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. CENTRELINE OF PITS AT KERB T.P.'s TO BE 1.20m OFF T.P.
- BATTERS SHALL BE IN 1 IN 5 FOR FILL AND 1 IN 3 FOR CUT UNLESS OTHERWISE SHOWN.
- LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER. ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.
- THE WATER CONDUIT OFF SET 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.
- TELSTRA TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
- LOCATION OF GAS, WATER AND TELSTRA CONDUITS ARE TO BE APPROPRIATELY MARKED ON THE FACE OF THE KERB AND CHANNEL WITH G, W, T AND O RESPECTIVELY. ALL CONDUIT ENDS SHALL BE SECURELY PLUGGED. TELSTRA, GAS & WATER CONDUITS TO BE 50mm CLASS 12 UPVC.
- ALL DRIVEWAYS ARE TO BE CONSTRUCTED AS PER MPA EDCM 501 UNLESS OTHERWISE SHOWN.
- ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 4 TO THE SATISFACTION OF THE ENGINEER.
- CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING, STRUTTING AND Dewatering DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION AND PROTECT THE PUBLIC FROM THE WORKS.
- ALL CONCRETE TO BE 25MPa.
- 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 CONSULTANT TO ARRANGE RE-INSTANTMENT AT THE CONTRACTORS EXPENSE.
- KERB TYPES TO BE USED AS SHOWN.
- STANDARD FOOTPATH AS MPA EDCM 401
- EXISTING DAM OR WATERCOURSE TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. CONSULTING ENGINEER TO BE NOTIFIED IN WRITING IF ANY DAM OR WATERCOURSE 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.
- BLASTING: BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER, BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL. RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTOR AND CONSULTANT CONTACT NAMES AND TELEPHONE NUMBERS. ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN A.S.2187.2.1993. ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. *FORM A* FROM AS2187.2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED. BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00am AND 3:00pm. BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS. BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.
- PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. PALINGS TO BE ON THE RESERVE SIDE AND STAINED IN A DARK GREEN COLOUR ON THE SIDE FACING THE RESERVE TO THE SATISFACTION OF COUNCIL.

AS CONSTRUCTED

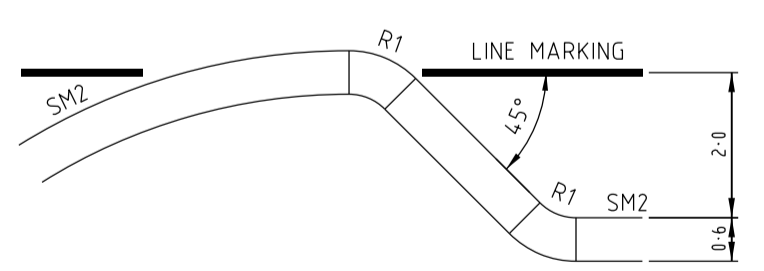
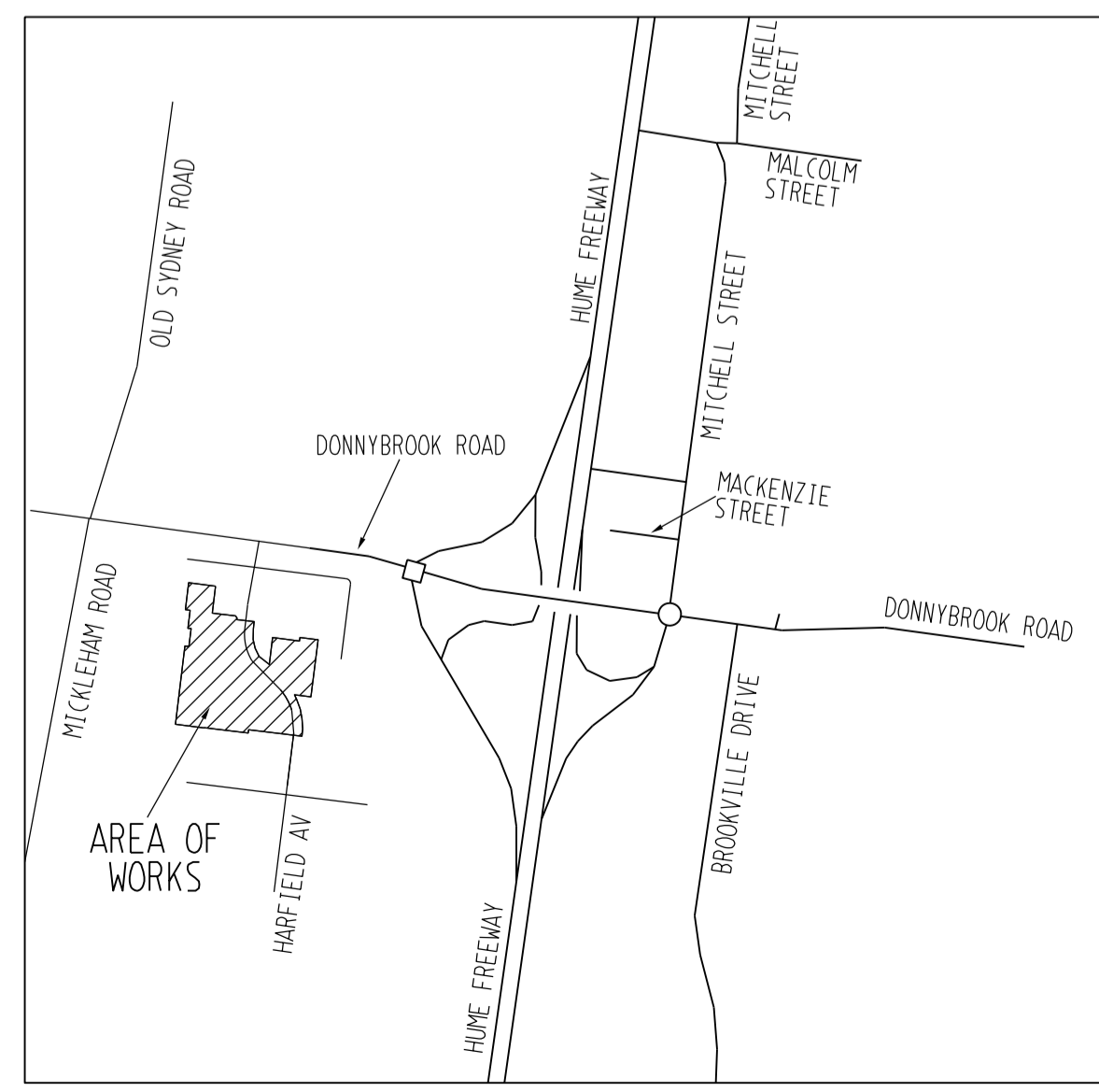
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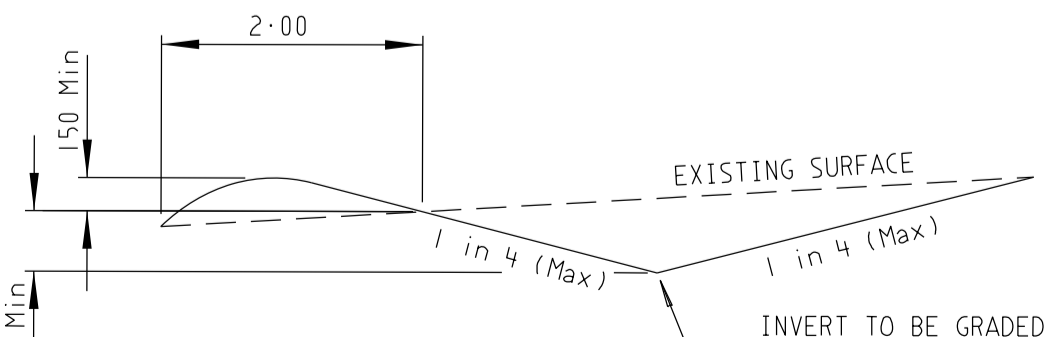
SYMBOL LEGEND

Drains	Ex/Natural/FS Level	28.51	28.57
Sewer <300	FS @ Building Line	28.53	28.57
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P5M			
Retaining Wall			
Conduits 50mm			
Conduits 100mm			
Ex Gas/Elect/Tel			

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PARKING BAY TRANSITION AND LINEMARKING DETAIL



CUT-OFF DRAIN DETAIL
(Dimensions in millimetres)
(N.T.S.)

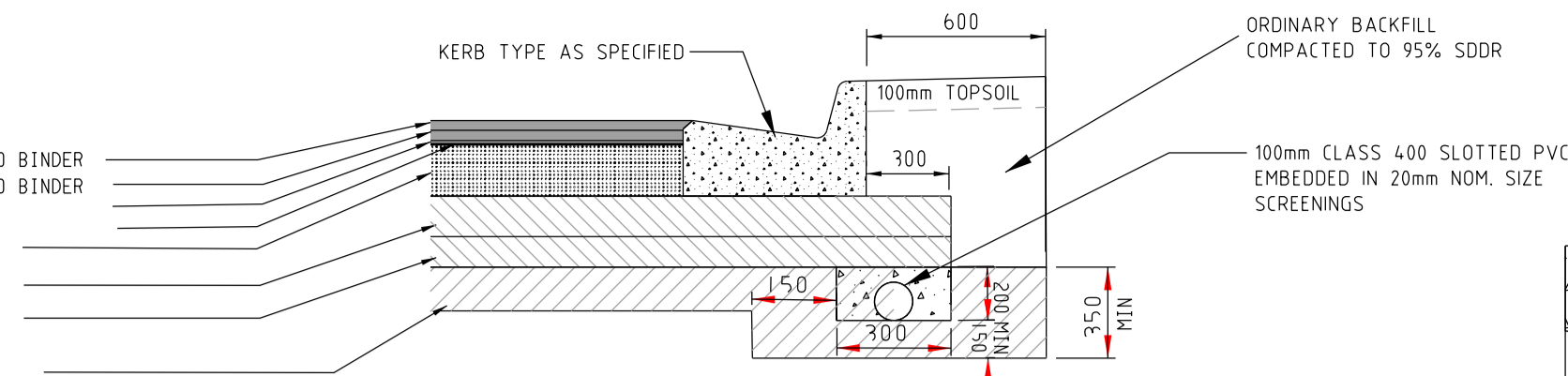
AMENDMENTS		MELWAY REF.	366-E-6	breese pitt dixon pty. ltd.		1/19 coto street
C	07.11.16	SURVEY	BOSCO J	land surveyors		hawthorn east, 3123
B	15.09.16	DESIGN	SBS	civil engineers		telephone 8823 2300
A	29.06.16	DRAWN	SBS	WARATAH ESTATE		fax no. 8823 2310
VER	DATE	REMARKS	CHECKED	SCALE	AS SHOWN	DATUM
						AHD
						DATE
						FEB'16
						SHEET
						2 OF 22
						C
						MUNICIPALITY
						HUME
						REFERENCE
						8711 E/2

PAVEMENT TO CONSIST OF:
DEPTH (585mm)

- a) i 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH C170 BINDER
- ii 30mm COMPACTED DEPTH SIZE 10 TYPE N ASPHALT WITH C170 BINDER
- b) 10mm SAMI SEAL
- c) PRIME
- d) 125mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 FCR
- e) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 FCR
- f) 140mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 4 FCR
- g) 150mm COMPACTED DEPTH SELECT GRANULAR MATERIAL WITH MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% SDDR.

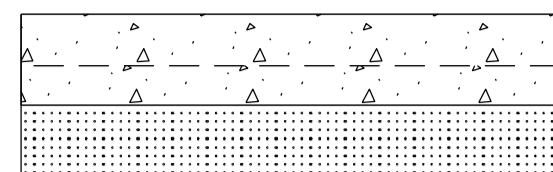
SUBGRADE

SILTY CLAY COMPACTED TO AT LEAST 100% STD DRY DENSITY RATIO (SOAKED C.B.R > 2.5%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.



PAVEMENT DETAILS

**NORTHALL,ASTBURY CRESCENT,UPTHORPE LOOP
LITTLEWICK PARADE,ALLERBY CRESCENT,AILSWORTH WAY**



PAVEMENT DETAILS

ECCLES LANE

PAVEMENT TO CONSIST OF:
DEPTH (300mm)

- a) 200mm DEPTH REINFORCED SLB2 MESH CENTRALLY PLACED, PATTERN PRESSED COLOURED CONCRETE 32MPa, BLACK COBBLESTONE PATTERN
 - b) 100mm COMPACTED DEPTH CLASS 2 CRUSHED ROCK.
- COLOUR: ABLOW BLACK 2.00% BY WEIGHT
CONTACT SUPERVISING ENGINEER PRIOR TO COMMENCEMENT OF PATTERN PRESS STENCILING
SUFFICIENT DEPTH OF SOFT GROUND MUST BE EXCAVATED & REPLACED WITH APPROVED CRAIGIEBURN SANDSTONE OR EQUIVALENT TO ACHIEVE SUBGRADE COMPACTION DENSITY OF 95% AS PER AS 1289.
ALL JOINTING TO BE AS PER C & C AA GUIDELINES.

SUBGRADE

MATERIAL AS FOUND (SILTY CLAY) COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STD) AS 1289, 5.1.1

Alignment A

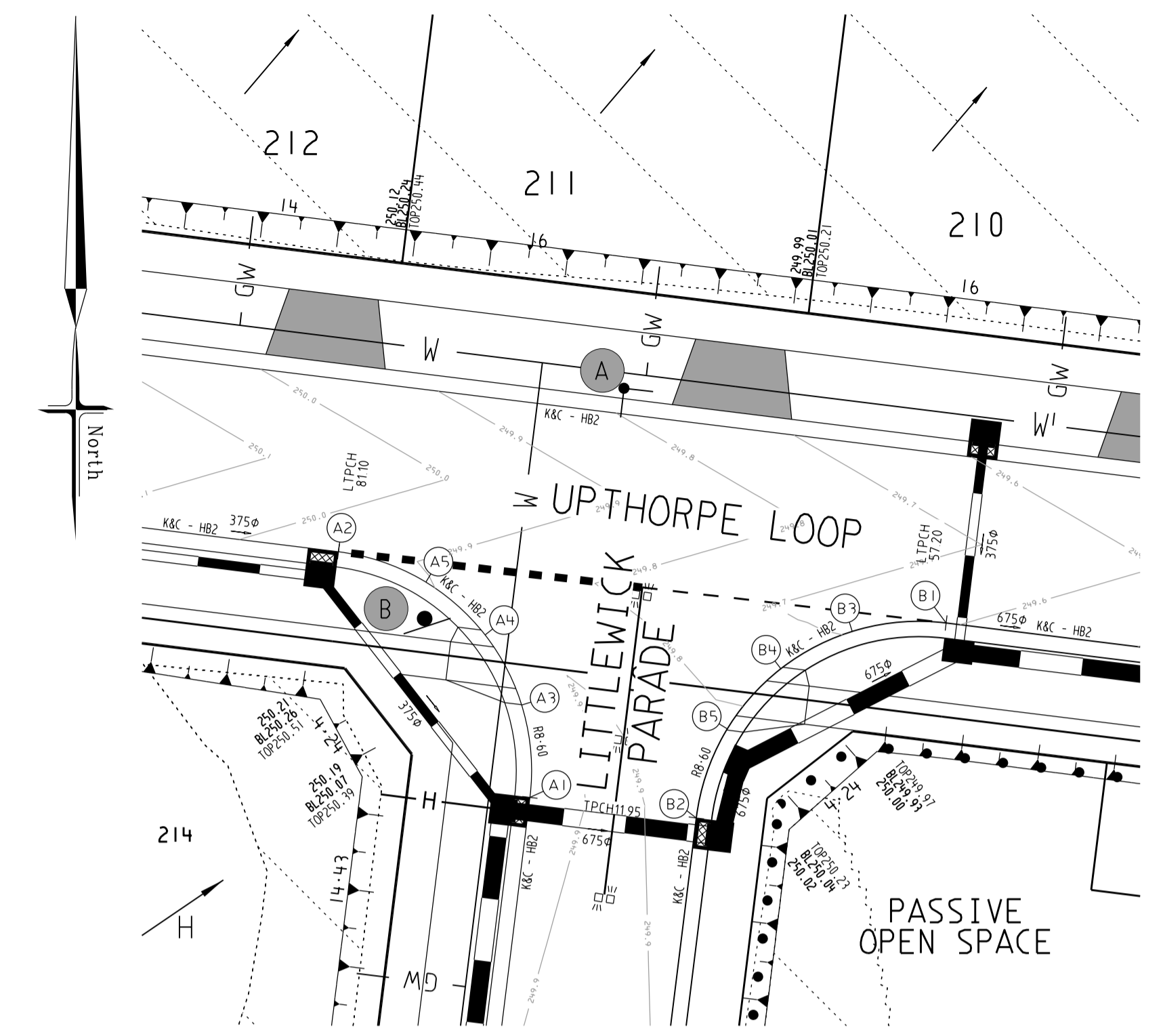
Point no	Easting	Northing	RL
A 1	314853.289	5813178.220	249.827
A 2	314845.808	5813187.809	249.944
A 3	314852.967	5813181.825	249.845
A 4	314851.535	5813184.564	249.871
A 5	314849.227	5813186.629	249.995

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
A 1 2	-8.600	12.162	2.519	1.963	249.871

CONCRETE INFILL : TRAFFIC ISLAND
DEPTH (250mm)



- a) 200mm COMPACTED DEPTH REINFORCED CONCRETE SLB2, 32MPa.
- b) 50mm COMPACTED DEPTH CLASS 3 FCR.



PAVEMENT TO CONSIST OF:
DEPTH (580mm)

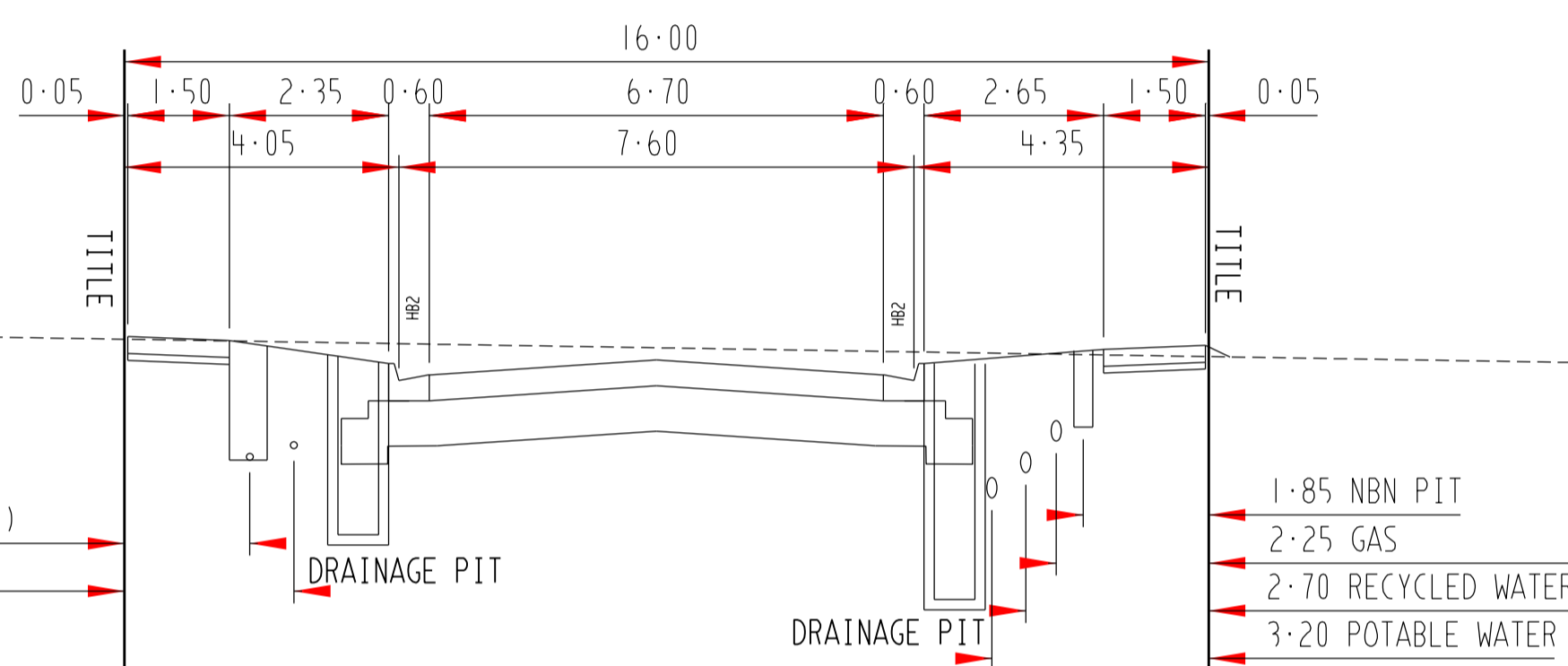
- a) i 40mm COMPACTED DEPTH SIZE 14 TYPE H ASPHALT WITH C320 BINDER
- ii 75mm COMPACTED DEPTH SIZE 20 TYPE S1 ASPHALT WITH C320 BINDER
- iii 75mm COMPACTED DEPTH SIZE 20 TYPE SF ASPHALT WITH C320 BINDER
- c) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 FCR
- d) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 4 FCR.
- e) 190mm COMPACTED DEPTH SELECT GRANULAR MATERIAL WITH MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% SDDR.

SUBGRADE

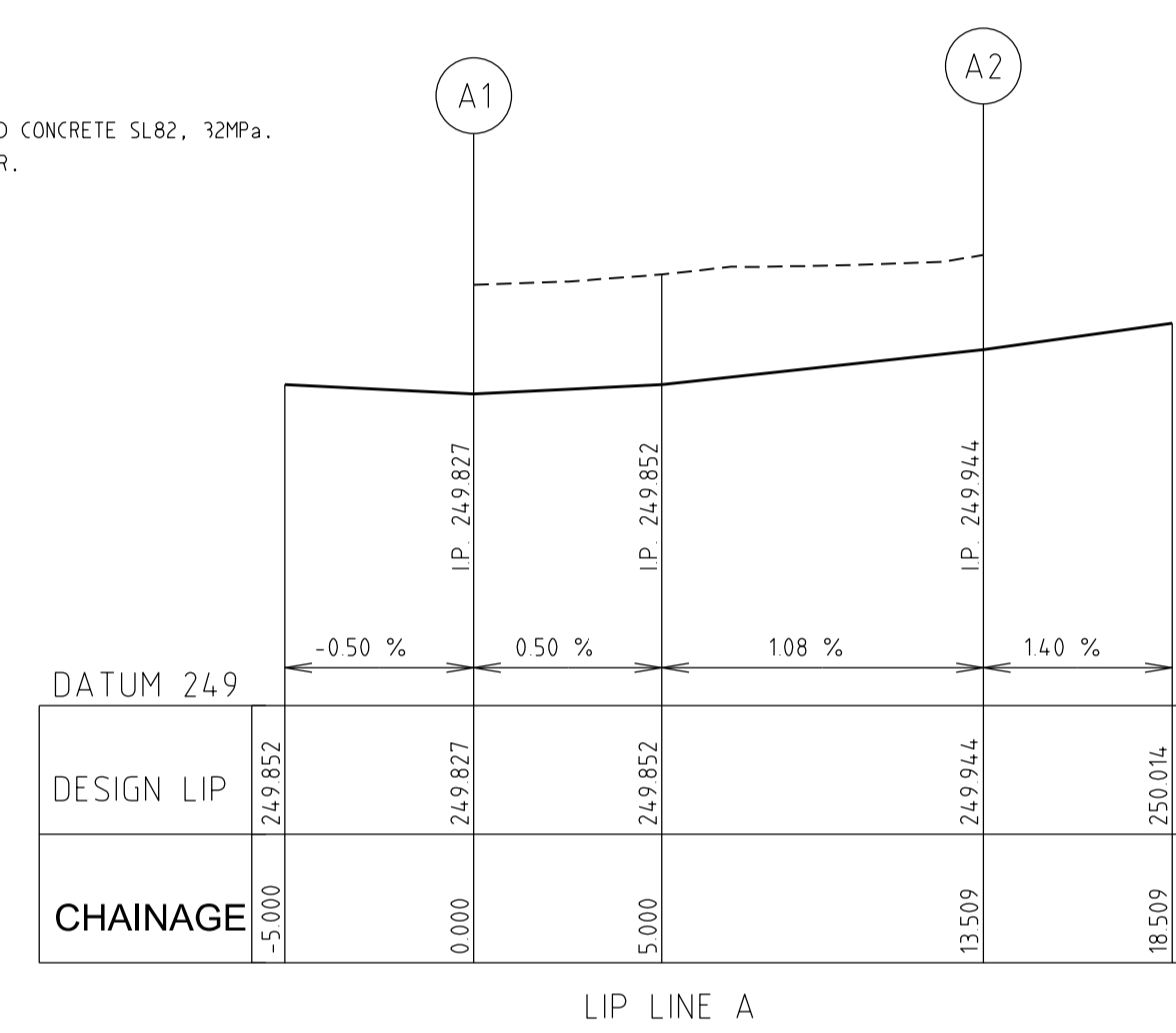
SILTY CLAY COMPACTED TO AT LEAST 100% STD DRY DENSITY RATIO (SOAKED C.B.R > 2.5%) WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.

PAVEMENT DETAILS

HARFIELD AVENUE



**NORTHALL ROAD,ASTBURY CRESCENT,UPTHORPE LOOP (LOT214)
LITTLEWICK PARADE(LOT219-221),ALLERBY CRESCENT (LOT226)**



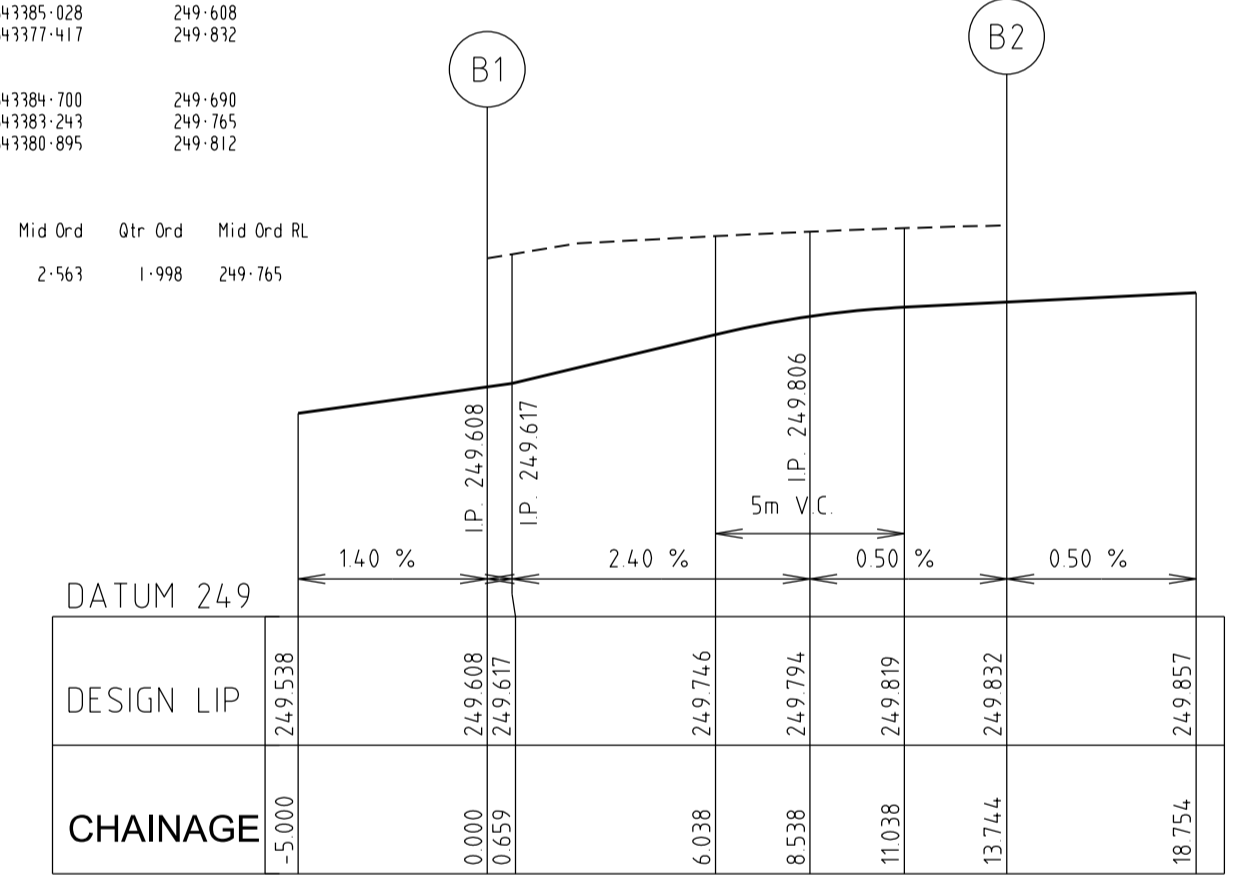
INTERSECTION DETAILS

SCALE 1:200

Alignment B

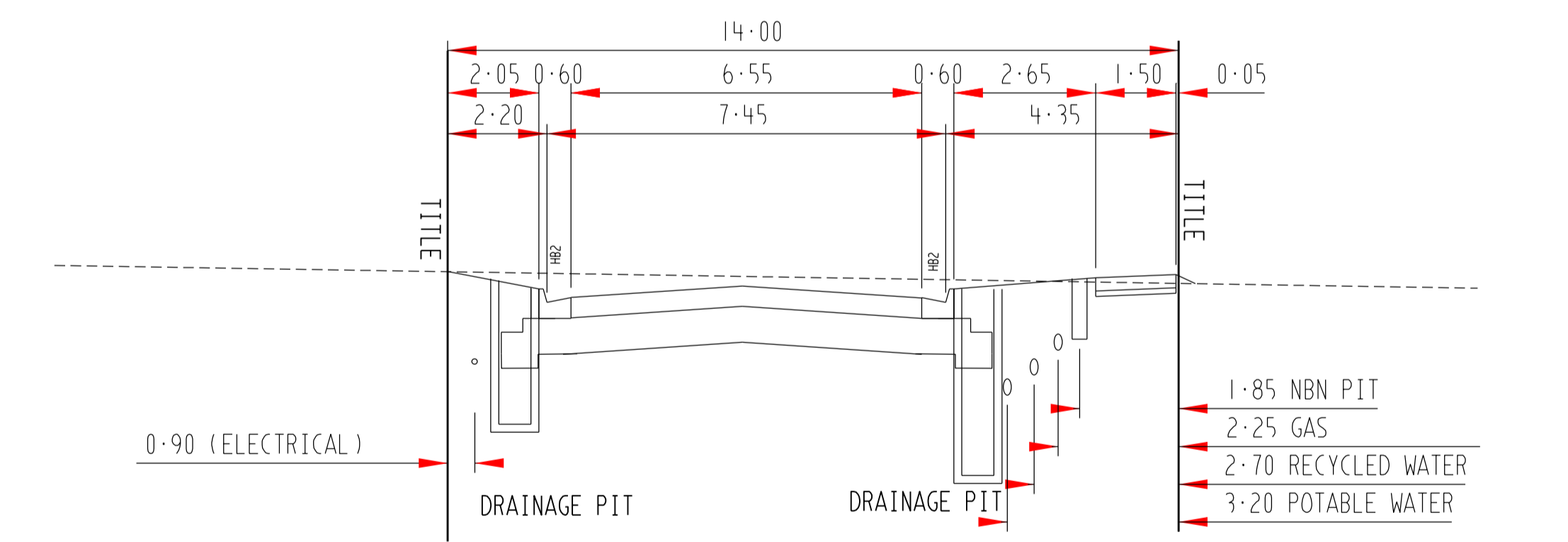
Point no	Easting	Northing	RL
B 1	314869.547	5813185.828	249.888
B 2	314859.700	5813177.417	249.812
B 3	314865.879	5813184.700	249.890
B 4	314863.092	5813182.242	249.765
B 5	314861.000	5813180.895	249.812

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
B 1 2	-8.750	12.374	2.563	1.998	249.765

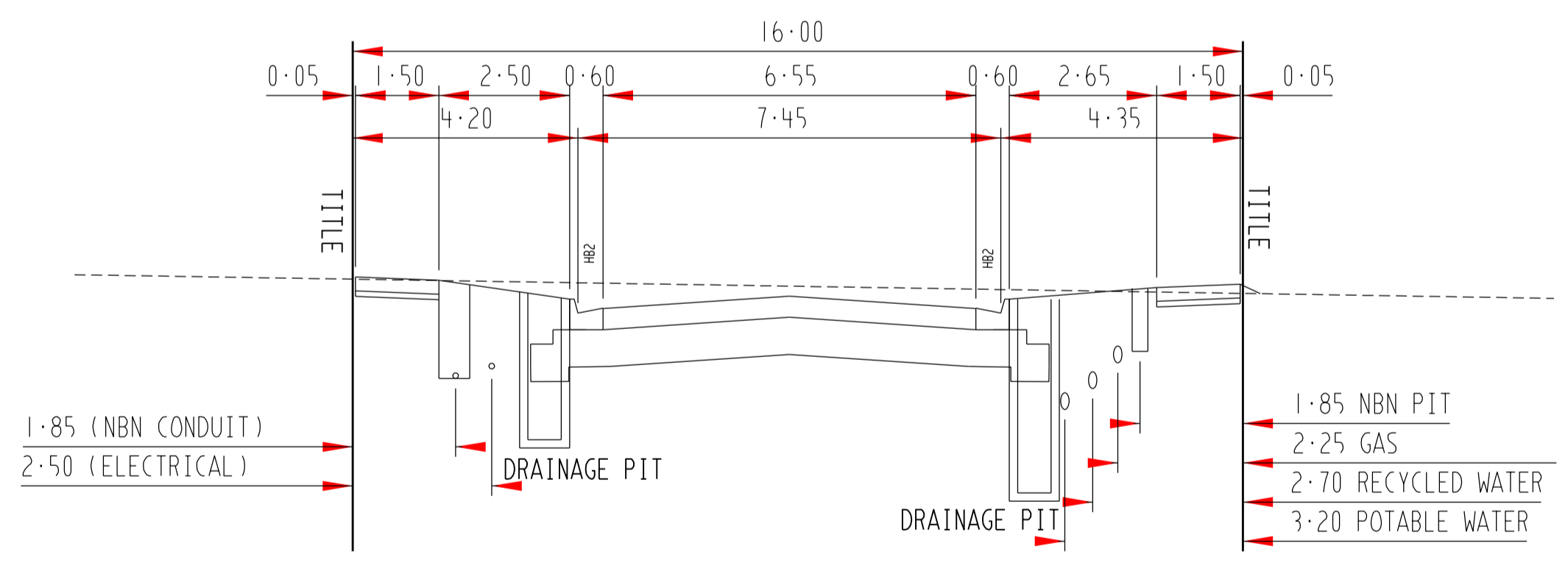


LIP OF KERB PROFILES

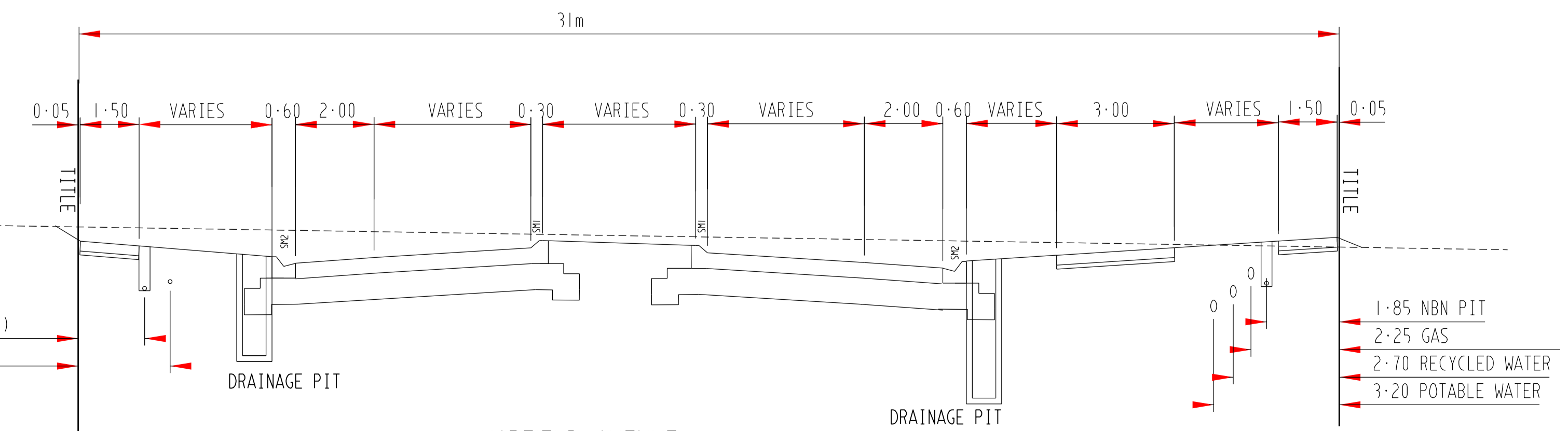
SCALE: HORIZONTAL 1:200
VERTICAL 1:20



**LITTLEWICK PARADE(LOT214-218)
ALLERBY CRESCENT (LOT222-225),AILSWORTH WAY**



UPTHORPE LOOP(RESERVE)



HARFIELD AVENUE

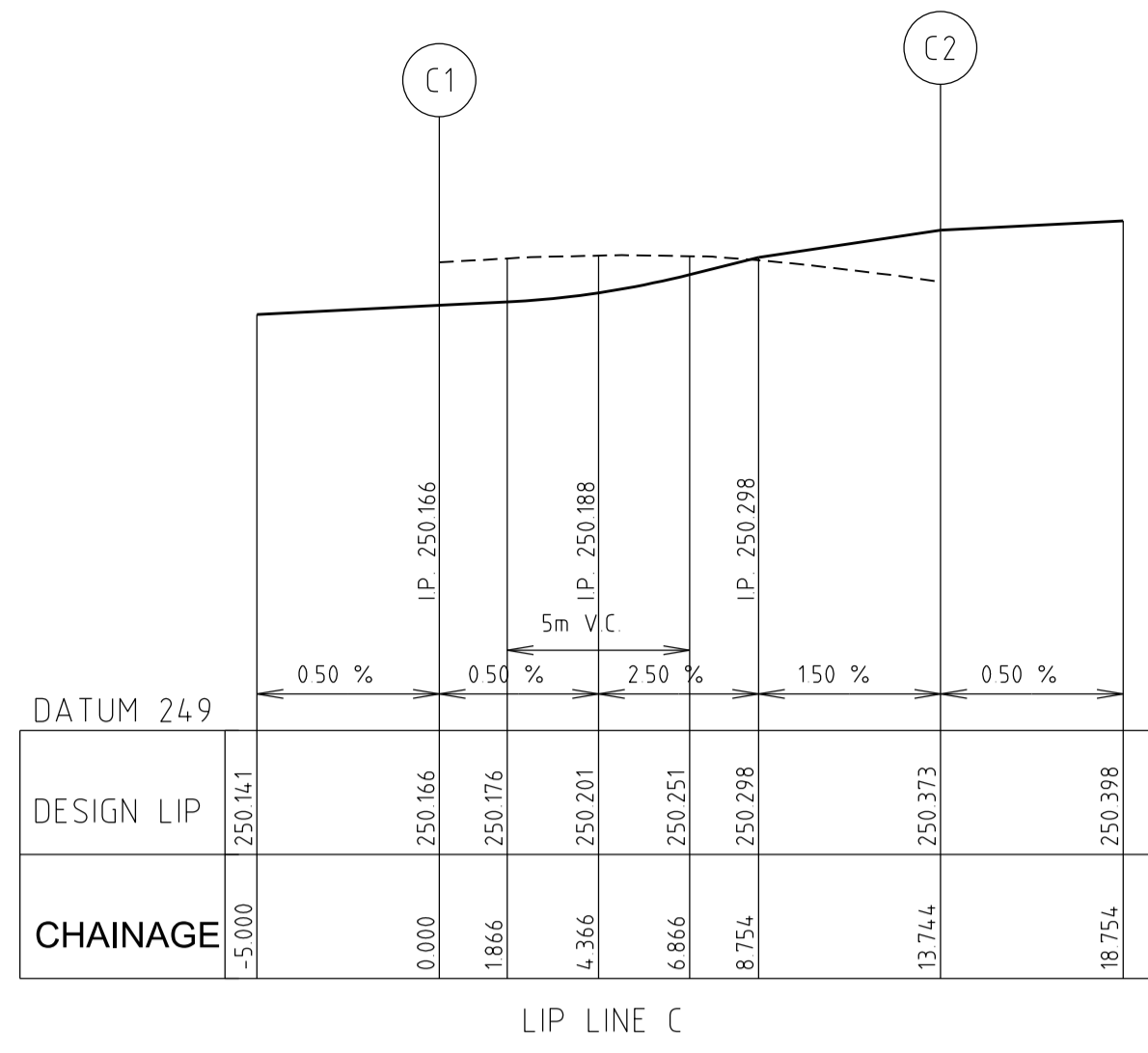
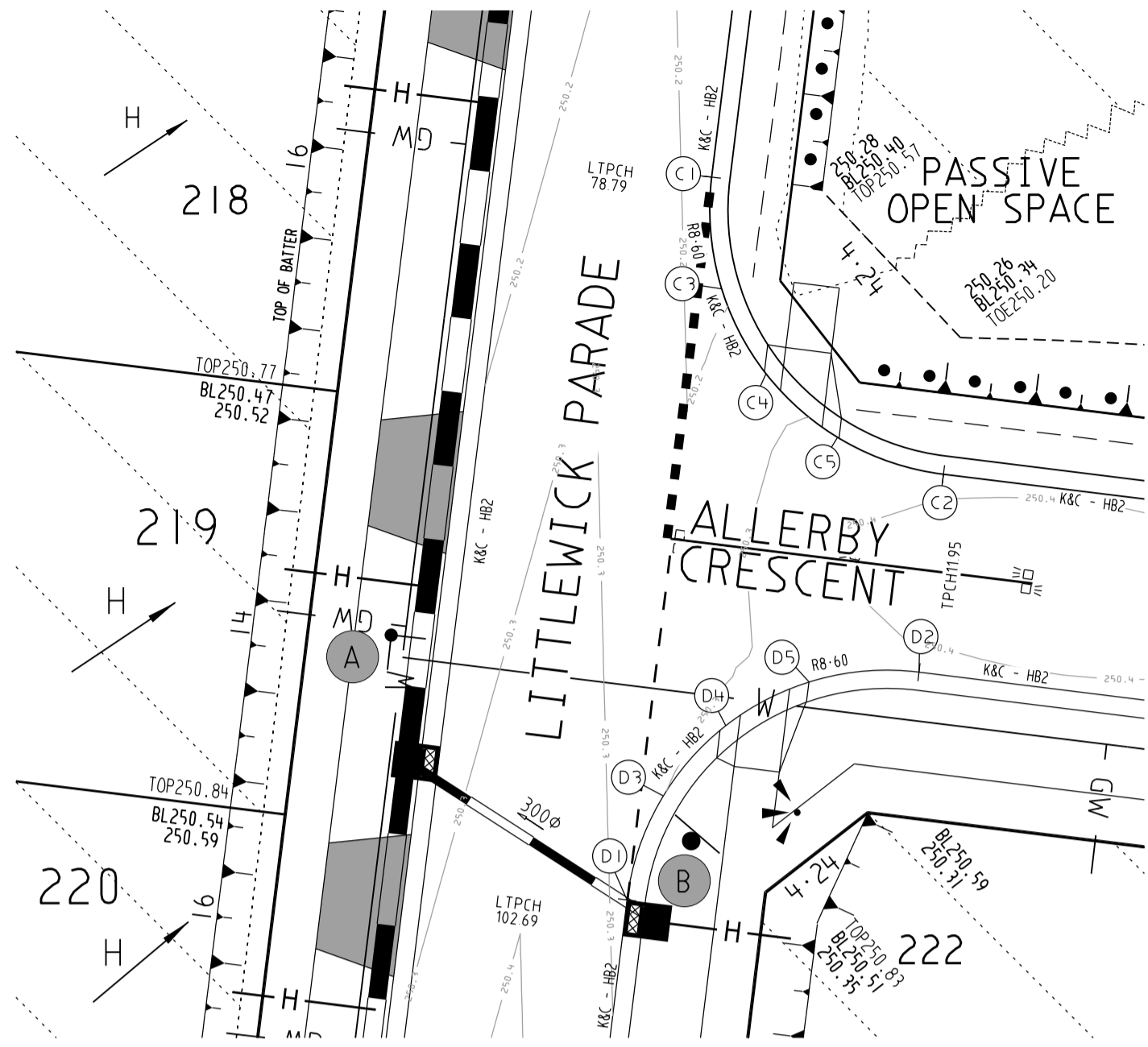
AS CONSTRUCTED

SIGN SCHEDULE

- (A) "STREET NAME" SIGN
- (B) R1-2

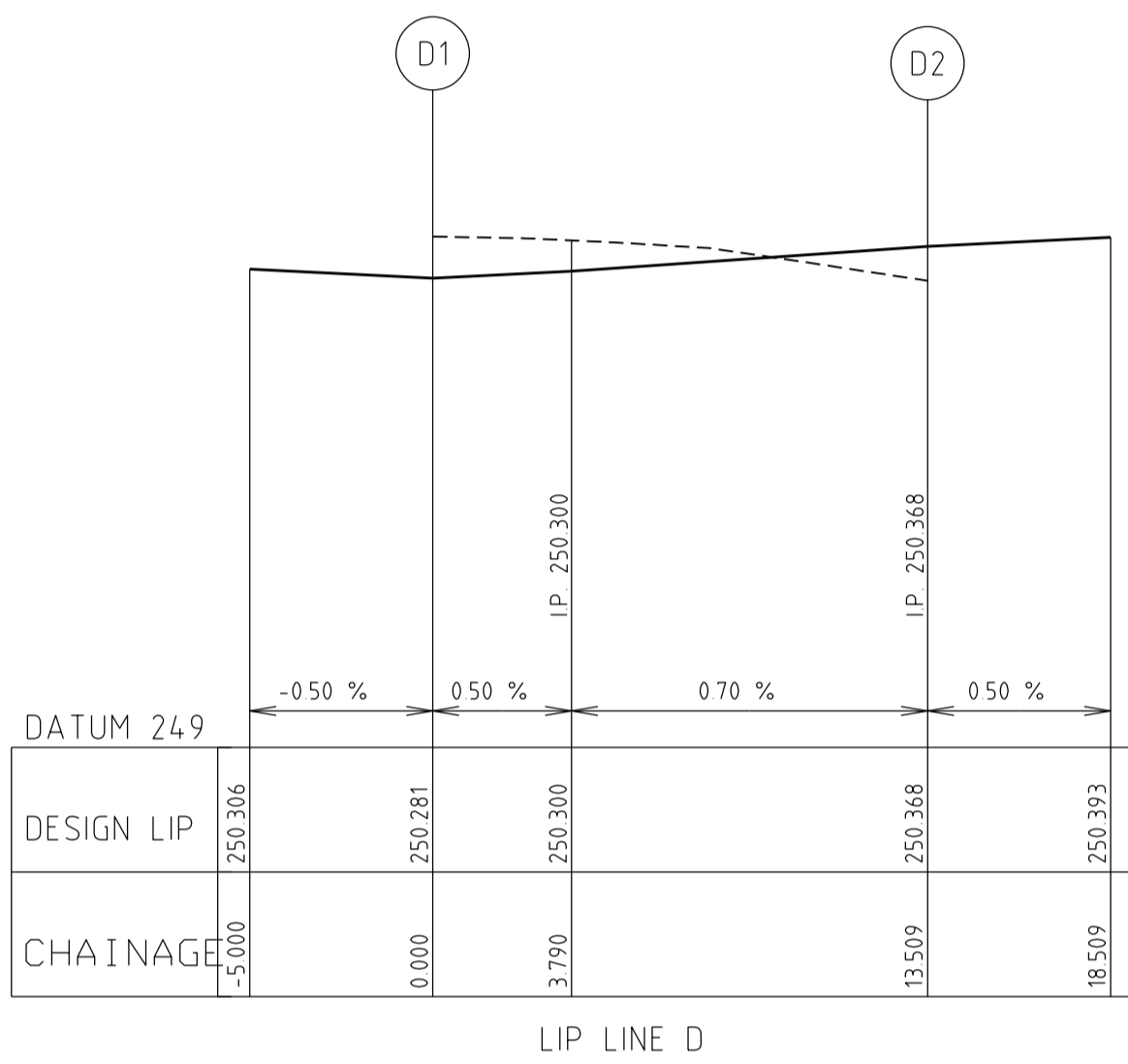
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN SBS		WARATAH ESTATE STAGE 2		MUNICIPALITY HUME REFERENCE 8711 E/2	
A 29-06-16 ISSUED FOR APPROVAL		CHECKED		SCALE AS SHOWN DATUM AHD DATE FEB'16 SHEET 3 OF 21	

AS CONSTRUCTED



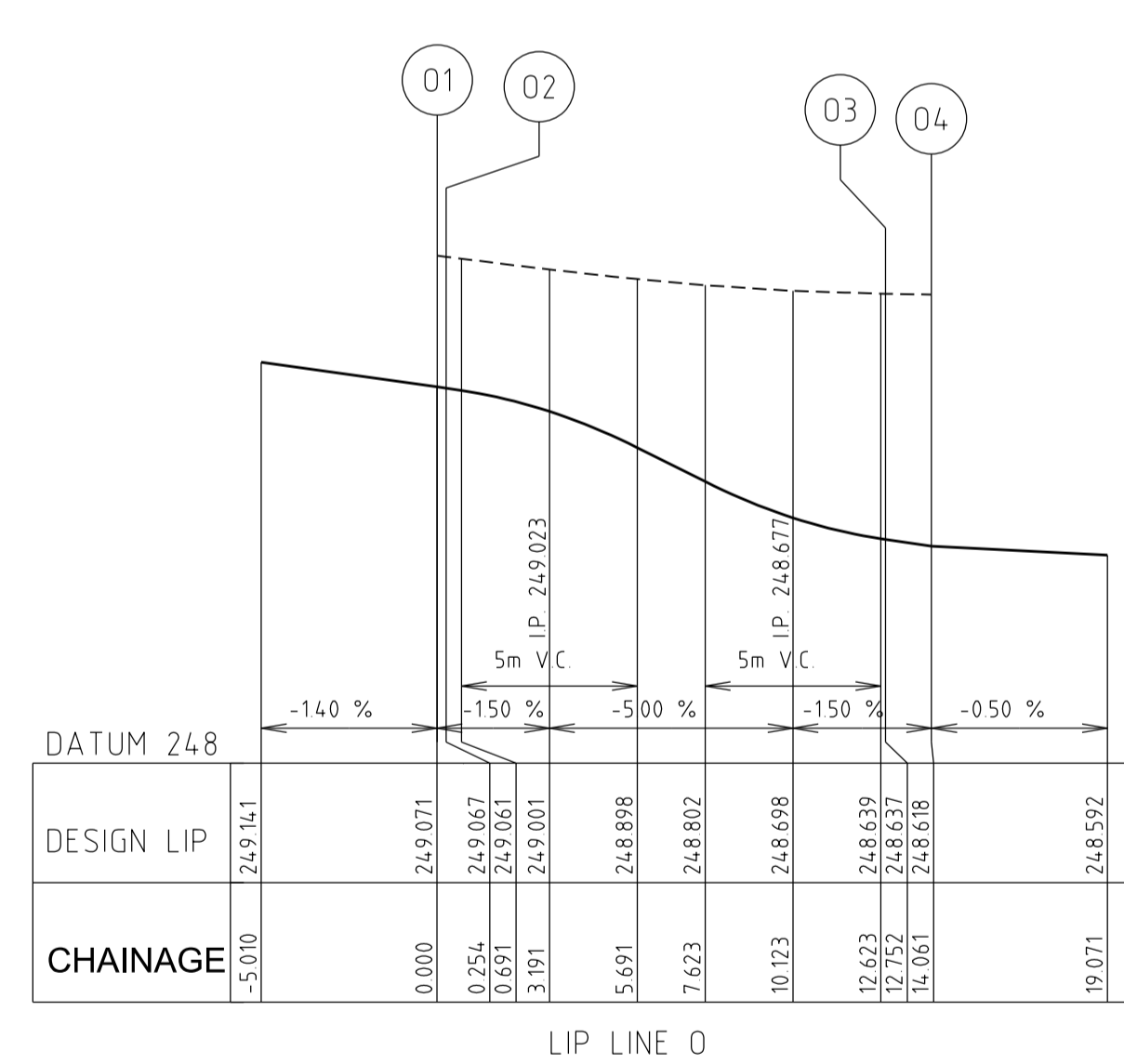
Point no	Easting	Northing	RL
C 1	314851.596	5843311.084	250.166
C 2	314859.208	5843301.328	250.373
C 3	314851.924	5843307.416	250.192
C 4	314853.381	5843304.630	250.251
C 5	314855.730	5843302.538	250.317

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
C 1 2	-8.750	12.374	2.563	1.998	250.251



Point no	Easting	Northing	RL
D 1	314848.815	5843287.346	250.281
D 2	314858.405	5843294.627	250.368
D 3	314850.005	5843290.764	250.299
D 4	314852.061	5843293.073	250.320
D 5	314854.800	5843294.505	250.342

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
D 1 2	8.600	12.162	2.519	1.963	250.320

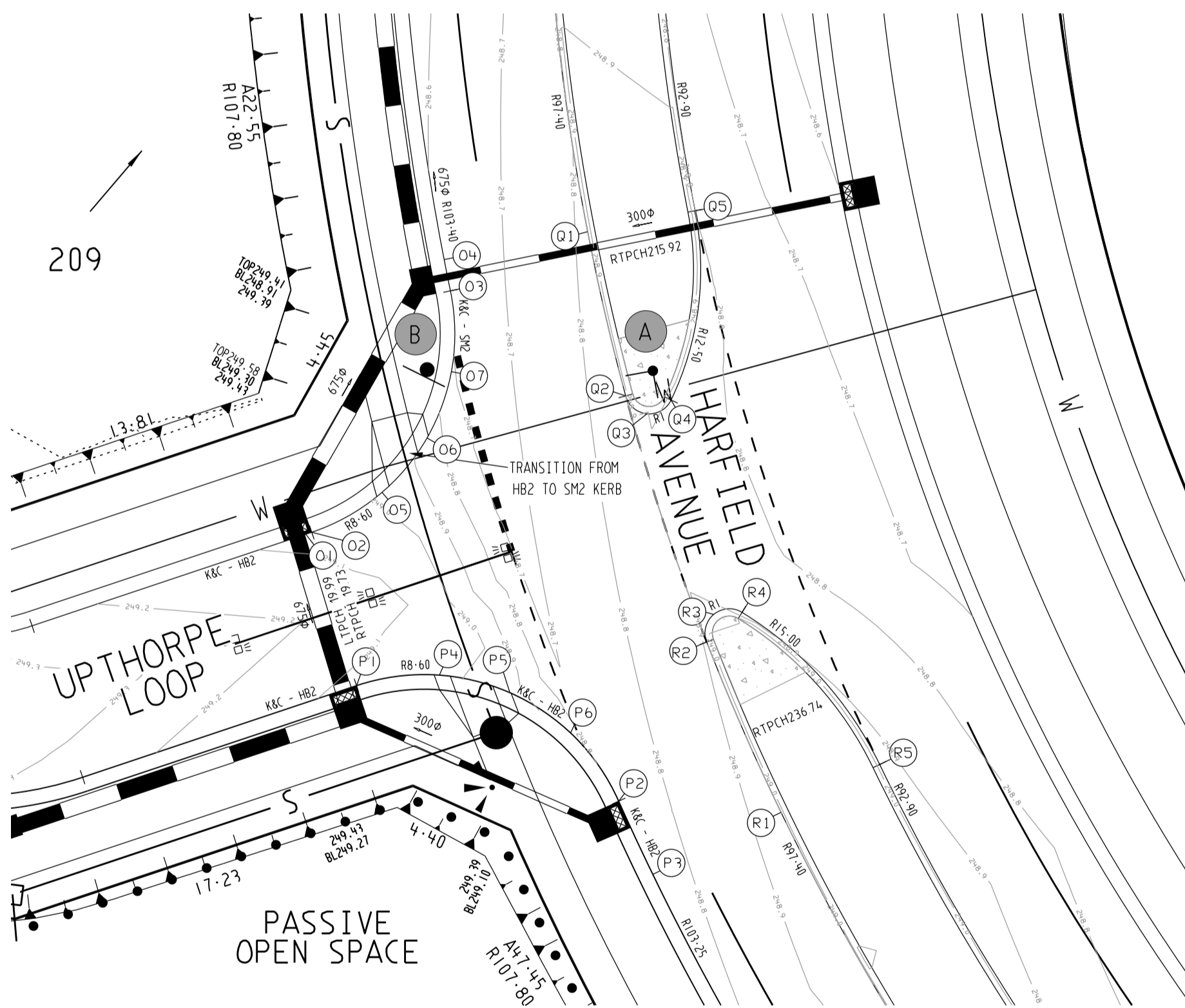
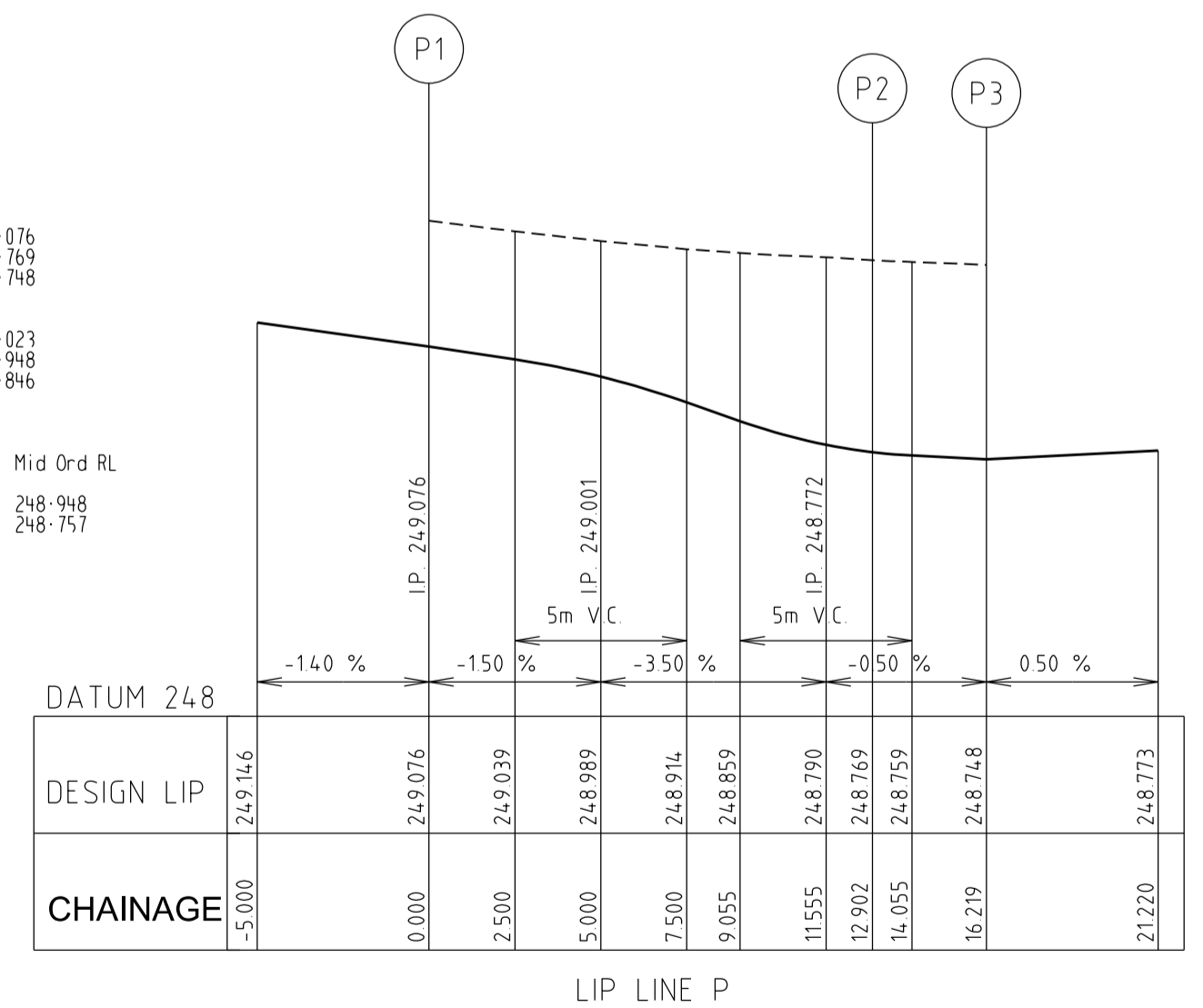


Point no	Easting	Northing	RL
O 1	314905.252	5843393.212	249.071
O 2	314905.493	5843393.292	249.067
O 3	314911.187	5843401.200	248.617
O 4	314910.928	5843404.483	248.618
O 5	314908.377	5843394.930	248.988
O 6	314910.223	5843397.164	248.858
O 7	314911.223	5843399.884	248.723

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
O 2 3	-8.600	11.427	2.172	1.684	248.858
O 3 4	103.400	1.309	0.002	0.002	248.627

Point no	Easting	Northing	RL
P 1	314907.329	5843387.000	249.076
P 2	314918.056	5843382.280	248.749
P 3	314919.494	5843379.252	248.748
P 4	314910.731	5843387.429	249.023
P 5	314913.628	5843386.710	248.948
P 6	314916.115	5843385.059	248.846

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
P 1 2	8.750	11.765	2.272	1.763	248.948
P 2 3	-103.250	3.317	0.013	0.010	248.757



INTERSECTION DETAILS
SCALE 1:200

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

SIGN SCHEDULE

- (A) "STREET NAME" SIGN
- (B) R1-2

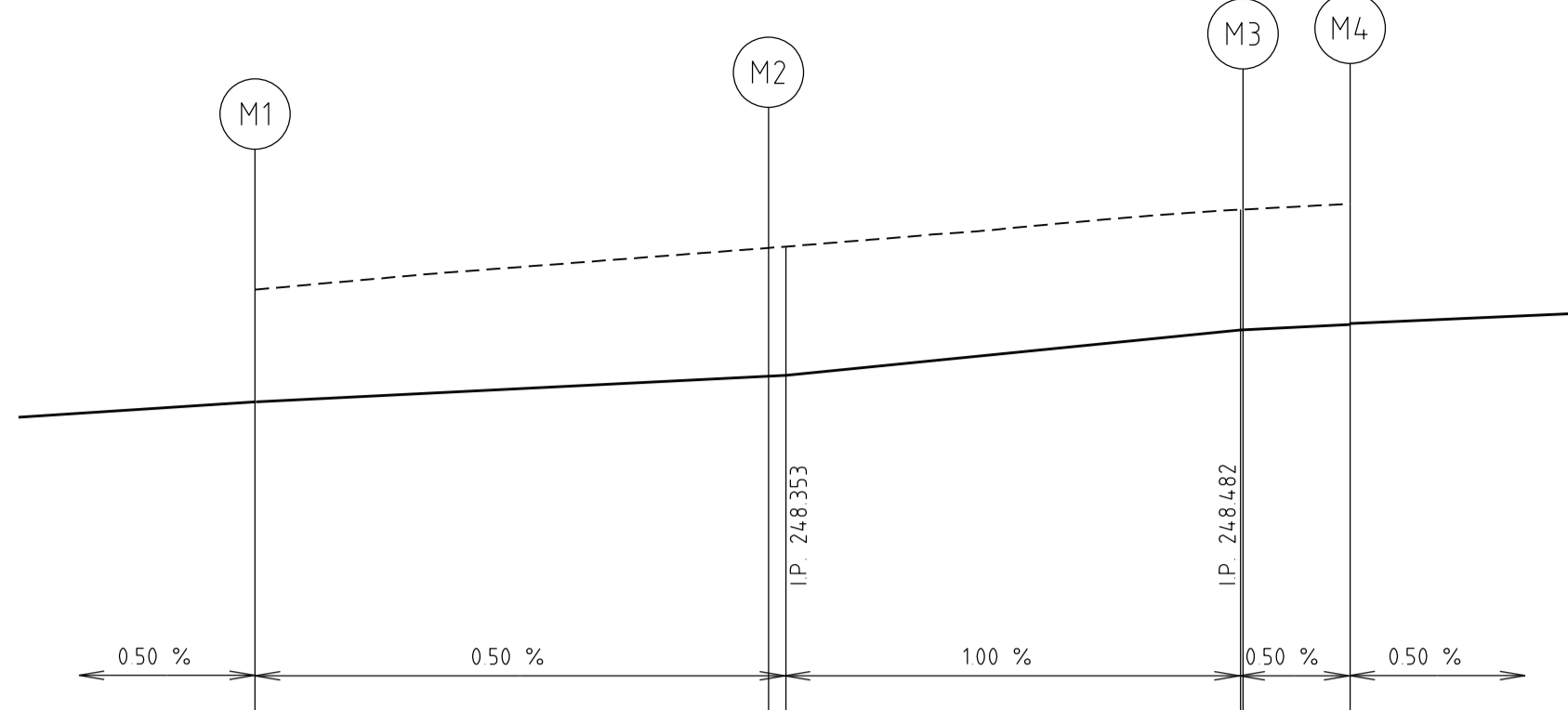
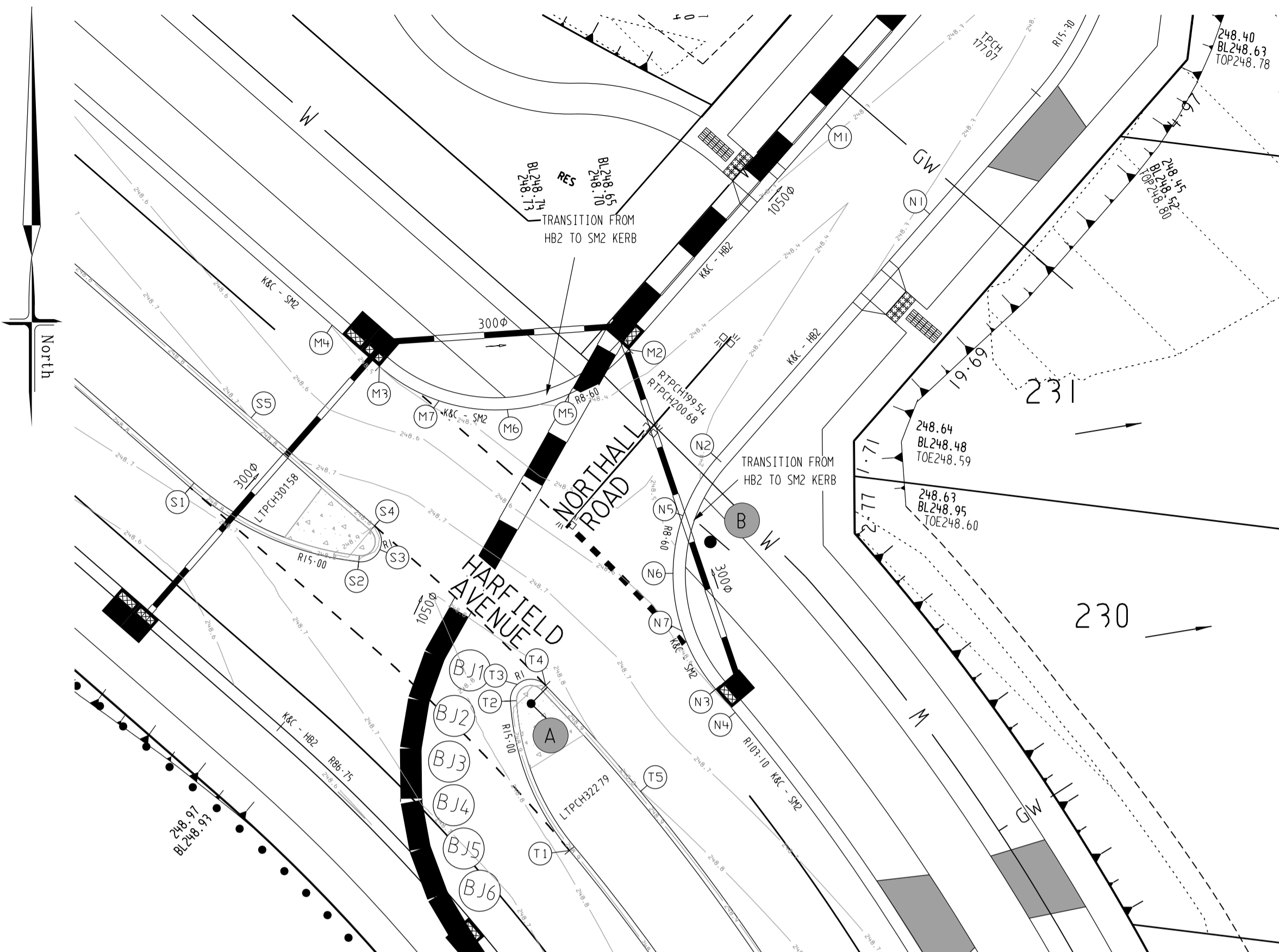
Point no	Easting	Northing	RL
O 1	314916.818	5843405.630	248.817
O 2	314916.381	5843398.892	248.851
O 3	314919.256	5843398.156	248.848
O 4	314920.249	5843398.122	248.844
O 5	314921.235	5843406.491	248.797

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
O 1 2	-97.400	6.917	0.061	0.046	248.834
O 2 3	-1.000	1.143	0.179	0.138	248.850
O 3 4	-1.000	1.143	0.179	0.138	248.846
O 4 5	-12.500	7.871	0.629	0.475	248.822

Point no	Easting	Northing	RL
R 1	314924.759	5843381.802	248.947
R 2	314921.707	5843388.790	248.905
R 3	314921.997	5843389.921	248.901
R 4	314923.162	5843390.006	248.898
R 5	314928.809	5843383.763	248.923

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
R 1 2	97.400	7.625	0.075	0.056	248.924
R 2 3	1.000	1.168	0.188	0.145	248.903
R 3 4	1.000	1.168	0.188	0.145	248.900
R 4 5	15.000	8.418	0.603	0.454	248.909

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.	366-E-6		WARATAH ESTATE STAGE 2	MUNICIPALITY HUME
	SURVEY	BOSCO J			REFERENCE 8711 E/2
	DESIGN	SBS			
	A 29-06-16	ISSUED FOR APPROVAL	DRAWN SBS		
VER.	DATE	REMARKS	CHECKED	SCALE AS SHOWN	
				DATUM AHD	
				DATE FEB'16	
				SHEET 4 OF 21	

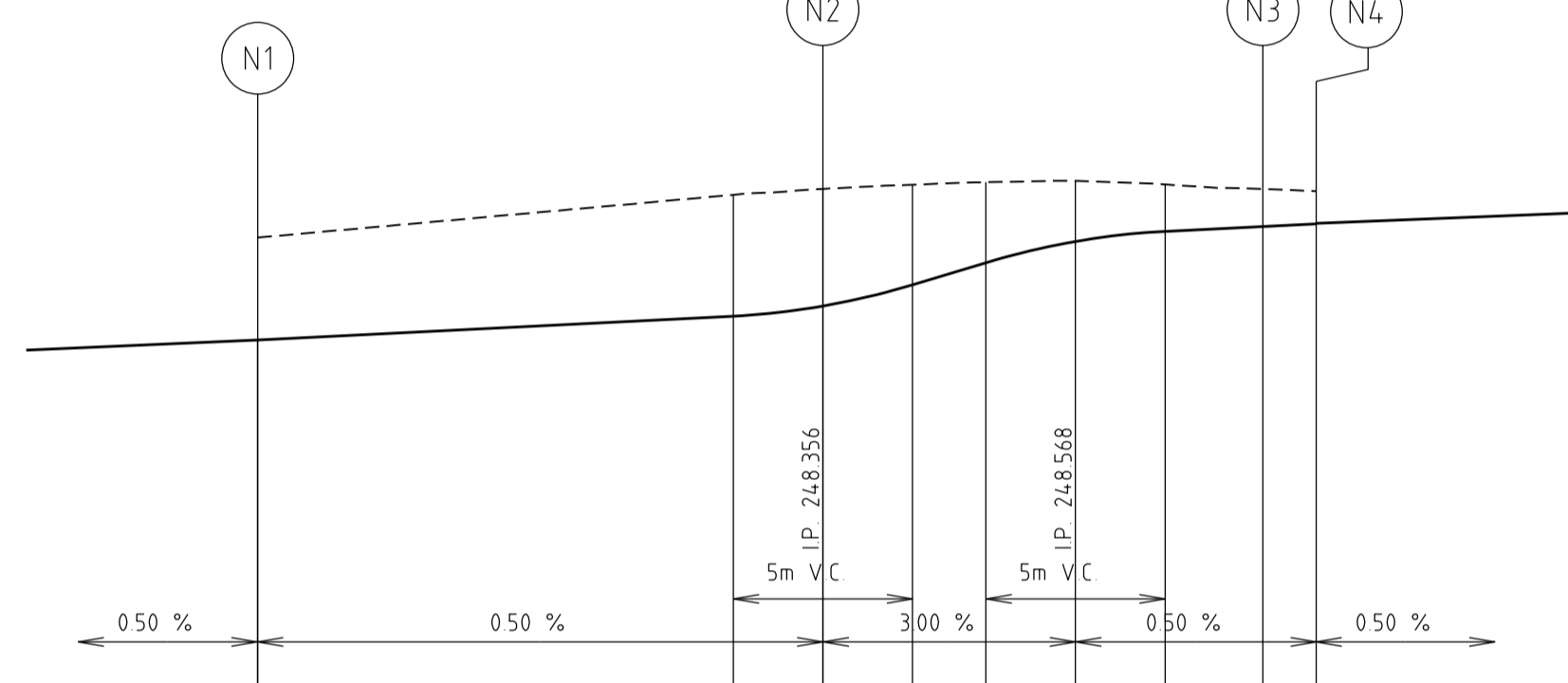


DATUM 247		Point no	Easting	Northing	RL
DESIGN LIP	0.000				
CHAINAGE	0.000	14.615	248.351	248.353	28.051
		15.115	248.353		28.124
					31.174

Alignment M	Point no	Easting	Northing	RL
M	1	314994.003	5843355.770	248.351
M	2	314994.385	5843344.766	248.483
M	3	314972.250	5843343.951	248.498
M	4	314969.953	5843345.958	
M	5	314981.483	5843342.603	248.384
M	6	314978.486	5843341.895	248.416
M	7	314975.415	5843342.195	248.447

Alignment S	Point no	Easting	Northing	RL
S	1	314963.043	5843338.052	248.718
S	2	314971.247	5843334.439	248.782
S	3	314972.274	5843335.030	248.779
S	4	314972.016	5843336.186	248.776
S	5	314966.005	5843341.440	248.699

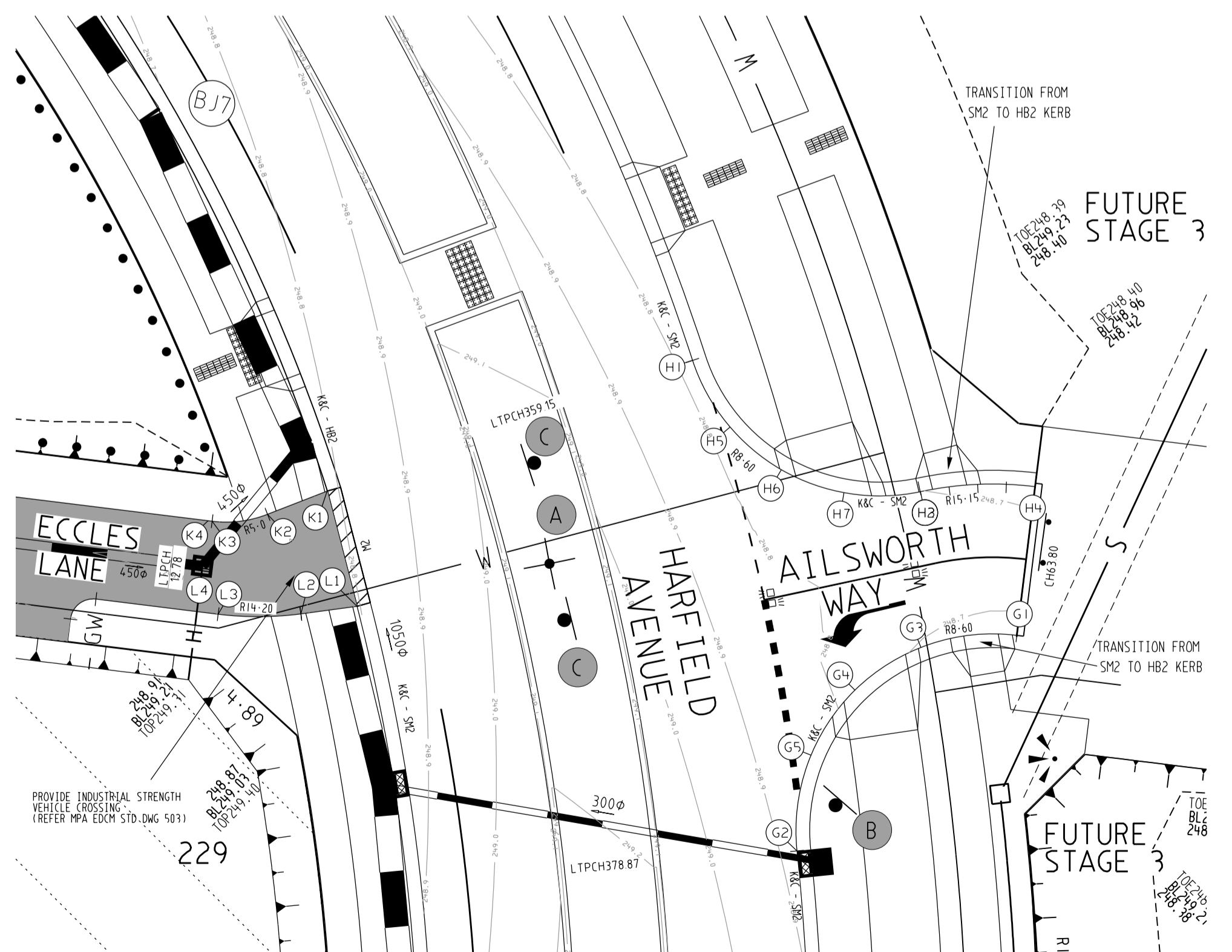
Alignment T	Point no	Easting	Northing	RL
T	1	314981.510	5843320.380	248.820
T	2	314978.635	5843327.663	248.835
T	3	314979.233	5843328.637	248.832
T	4	314980.354	5843328.414	248.829
T	5	314984.968	5843323.260	248.801



DATUM 247		Point no	Easting	Northing	RL
DESIGN LIP	0.000				
CHAINAGE	0.000	13.264	248.344		
		15.764	248.372		
		15.764	248.372		
		18.264	248.431		
		20.309	248.493		
		22.809	248.552		
		25.309	248.580		
		28.038	248.594		
		29.521	248.601		

Alignment N	Point no	Easting	Northing	RL
N	1	314999.047	5843351.361	248.277
N	2	314988.673	5843339.492	248.372
N	3	314988.821	5843326.233	248.594
N	4	314989.578	5843327.101	248.601
N	5	314987.035	5843336.685	248.454
N	6	314986.549	5843333.872	248.534
N	7	314987.009	5843331.055	248.577

Alignment G	Point no	Easting	Northing	RL
G	1	315022.522	5843281.169	248.662
G	2	315012.913	5843271.747	248.675
G	3	315018.328	5843280.640	248.691
G	4	315015.446	5843278.774	248.768
G	5	315013.524	5843275.929	248.846



Alignment K	Point no	Easting	Northing	RL
K	1	314992.366	5843287.469	248.802
K	2	314989.162	5843286.457	248.977
K	3	314987.138	5843286.155	249.131
K	4	314987.161	5843286.177	249.142

Alignment L	Point no	Easting	Northing	RL
L	1	314993.673	5843282.436	248.827
L	2	314991.217	5843282.109	248.938
L	3	314987.402	5843282.092	249.110
L	4	314986.671	5843282.207	249.142

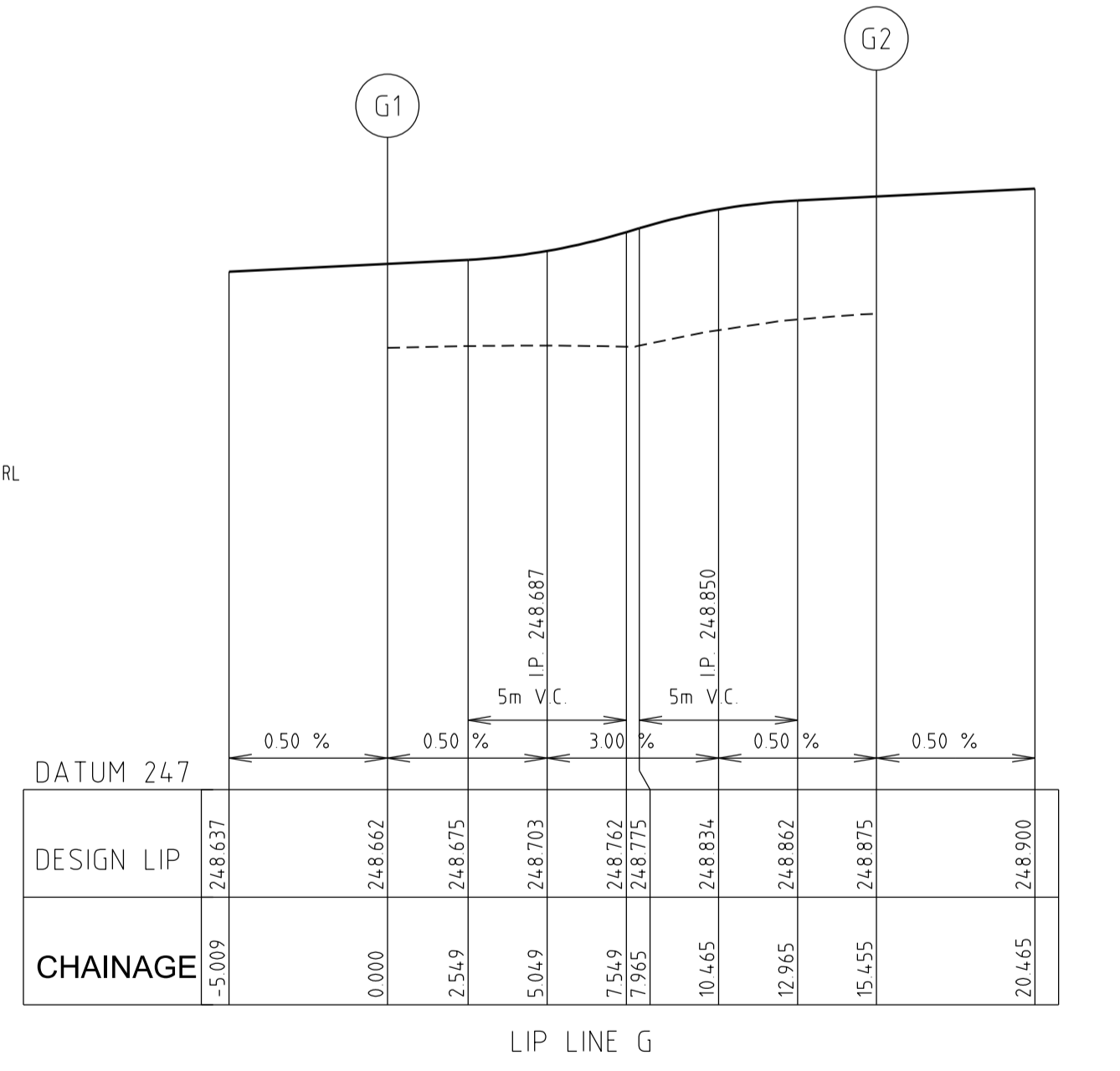
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
L 2 3	14.200	3.614	0.115	0.087	249.019



DATUM 248		Point no	Easting	Northing	RL
DESIGN LIP	-5.010				
CHAINAGE	0.000	7.245	248.710		
		12.593	248.703		
		17.634	248.667		
		22.634	248.642		

Alignment H	Point no	Easting	Northing	RL
H	1	315008.347	5843293.187	248.776
H	2	315018.311	5843281.452	248.703
H	3	315018.311	5843281.452	248.702
H	4	315023.325	5843287.670	248.667
H	5	315009.985	5843290.272	248.759
H	6	315012.210	5843288.409	248.745
H	7	315014.968	5843287.404	248.726

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
H 1 2	-8.600	11.498	2.204	1.709	248.745
H 3 4	15.150	5.018	0.209	0.157	248.685



DATUM 247		Point no	Easting	Northing	RL
DESIGN LIP	-5.009				
CHAINAGE	0.000	2.549	248.662		
		5.049	248.703		
		7.549	248.742		
		7.965	248.775		
		10.465	248.834		
		12.965	248.862		
		15.455	248.875		
		20.445	248.900		

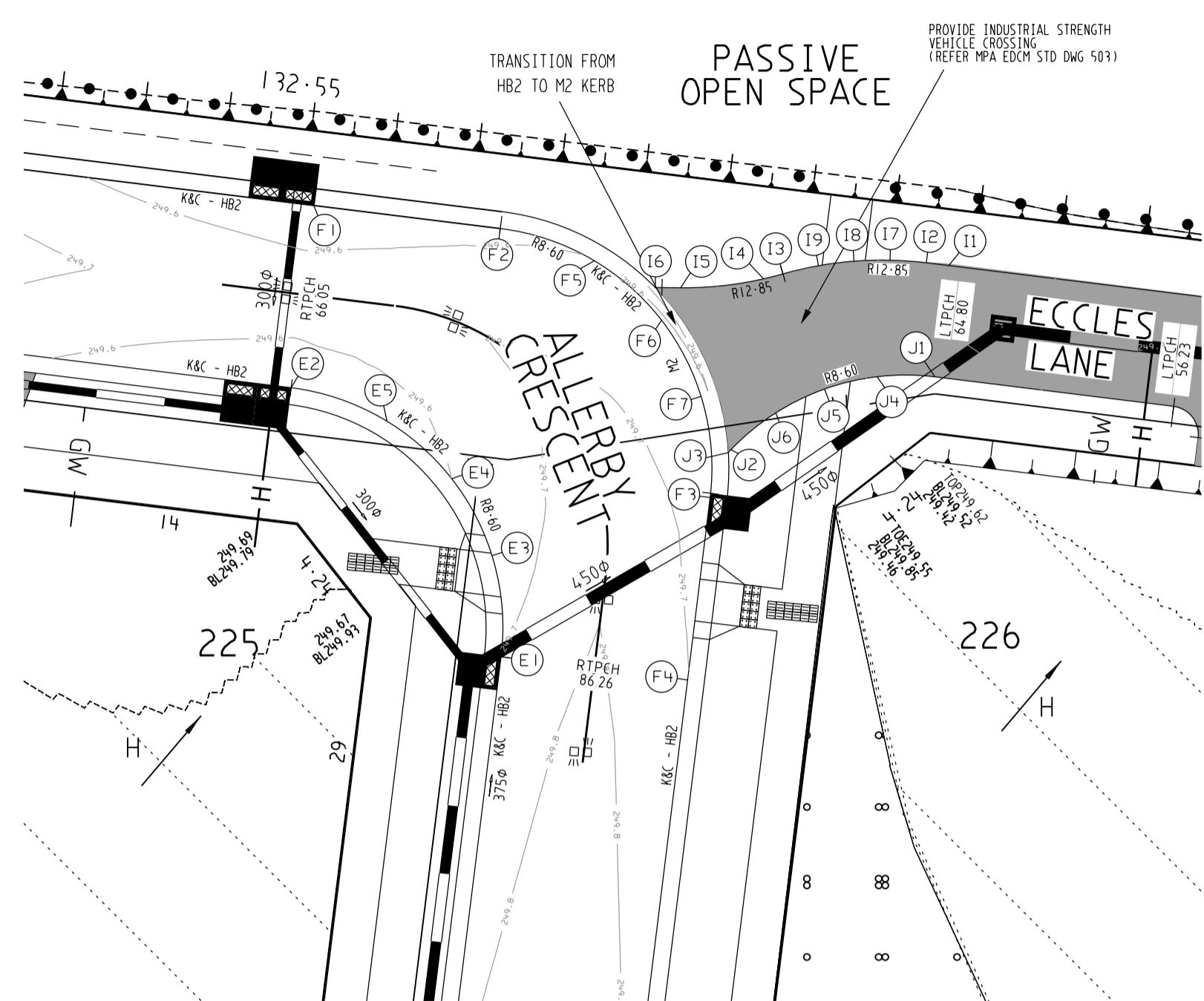
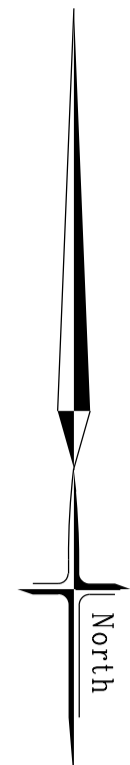
SIGN SCHEDULE



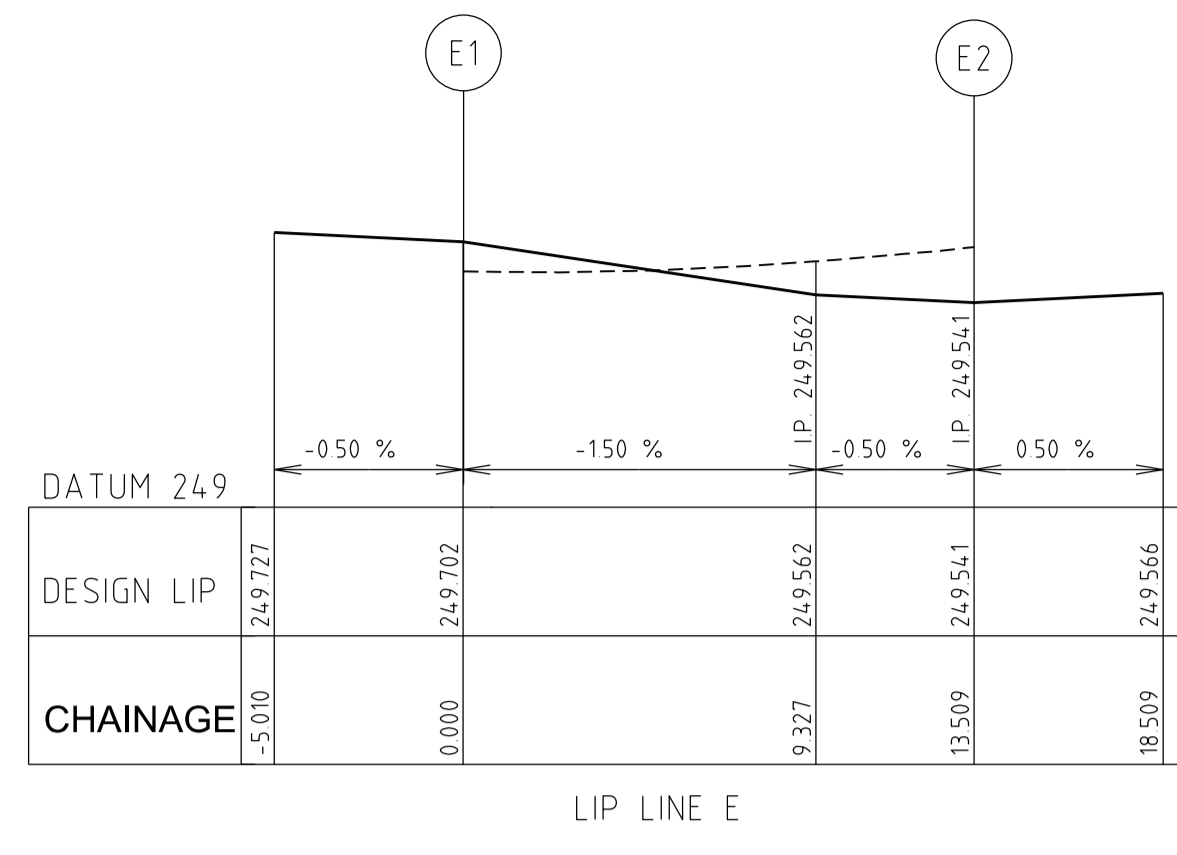
INTERSECTION DETAILS
SCALE 1:200

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

AMENDMENTS				breese pitt dixon pty. ltd. land surveyors civil engineers	
MELWAY REF. 366-E-6		SURVEY BOSCO J		WARATAH ESTATE STAGE 2	
DESIGN SBS		DRAWN SBS		MUNICIPALITY HUME	
A 29-06-16 ISSUED FOR APPROVAL		CHECKED		REFERENCE 8711 E/2	
VER	DATE	REMARKS	SCALE AS SHOWN	DATUM AHD	DATE FEB'16
					SHEET 5 OF 21



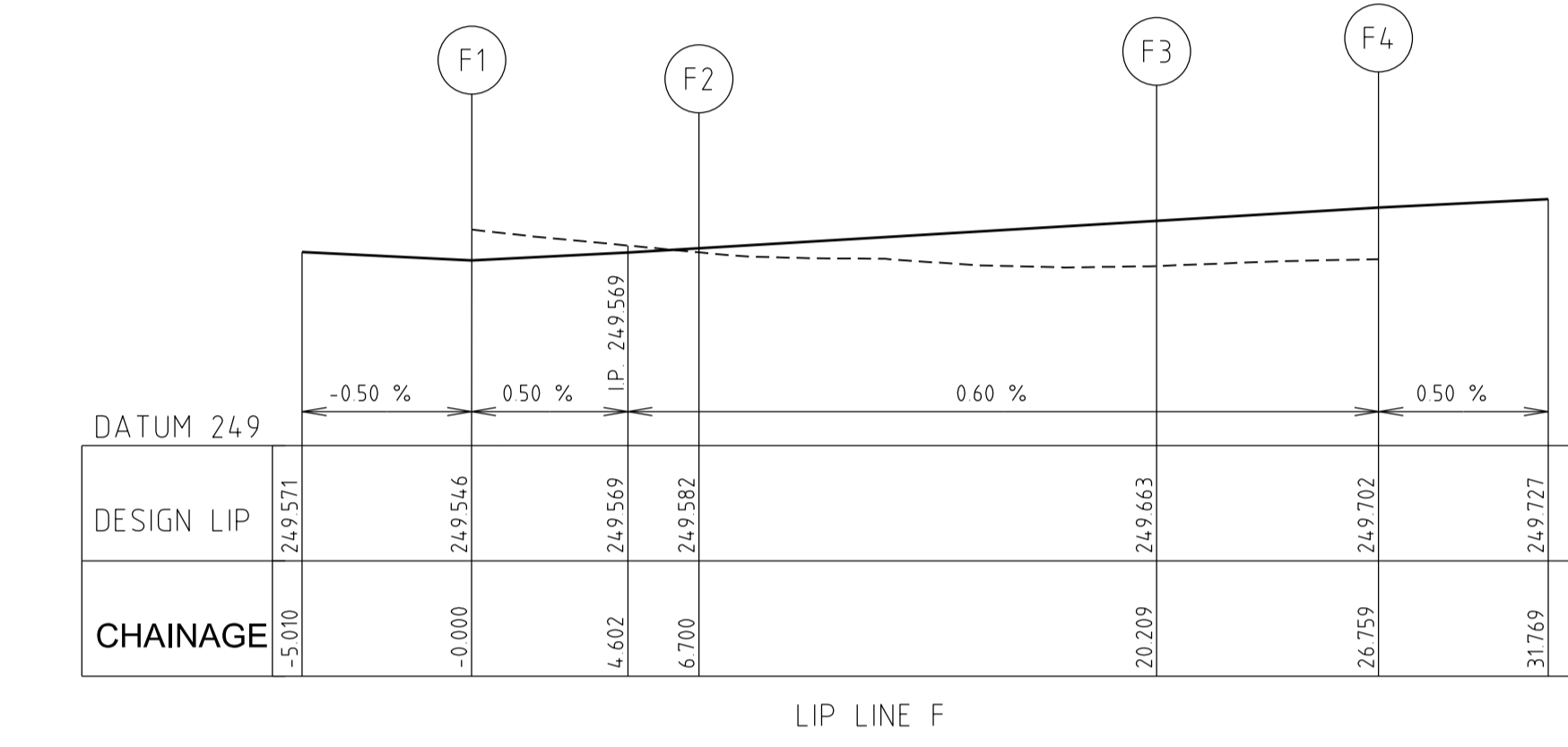
INTERSECTION DETAILS
SCALE 1:200



Alignment E

Point no	Easting	Northing	RL
1	314919.577	5843278.605	249.702
2	314912.097	5843288.195	249.541
3	314919.255	5843282.210	249.647
4	314917.823	5843284.949	249.601
5	314915.515	5843287.005	249.559

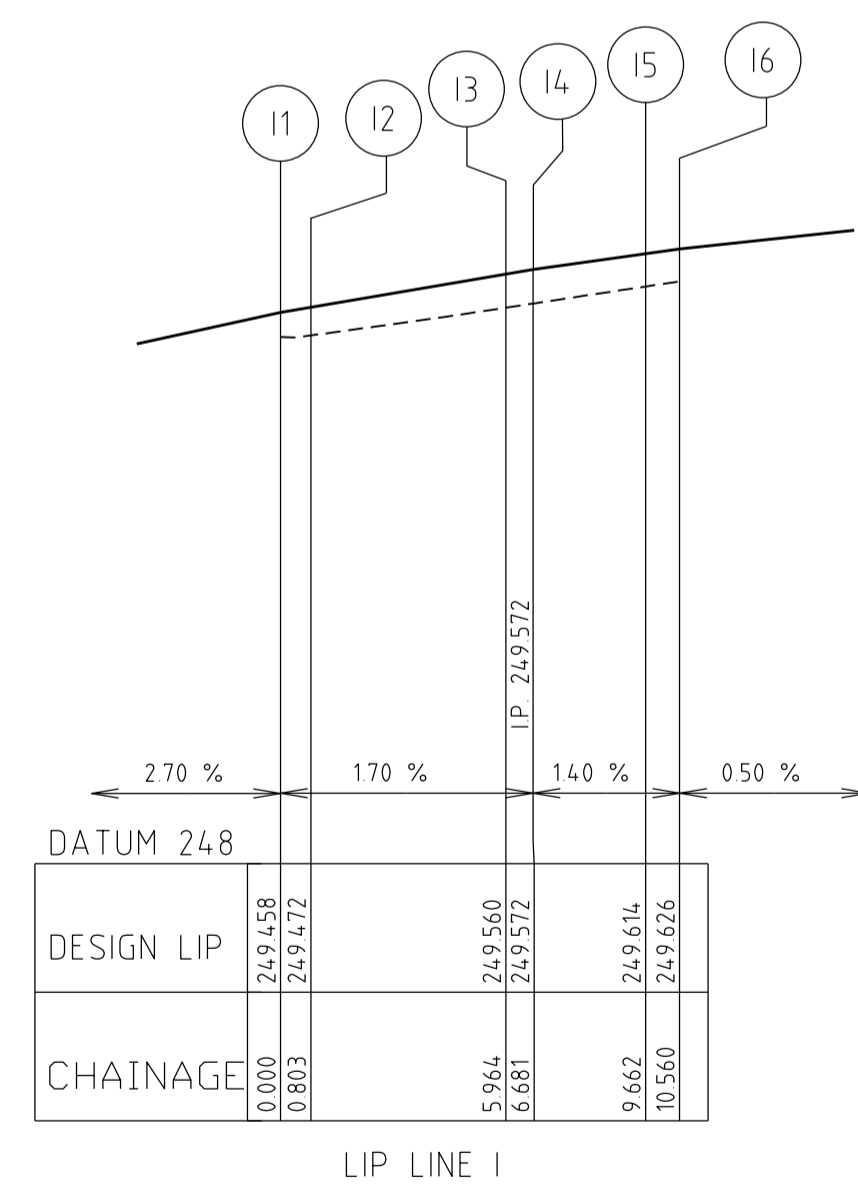
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
E 1 2	-8.600	12.162	2.519	1.963	249.601



Alignment F

Point no	Easting	Northing	RL
1	314912.900	5843294.695	249.546
2	314919.549	5843293.874	249.582
3	314927.830	5843289.285	249.663
4	314926.227	5843277.784	249.702
5	314922.967	5843292.684	249.604
6	314925.276	5843290.669	249.622
7	314926.708	5843287.890	249.641

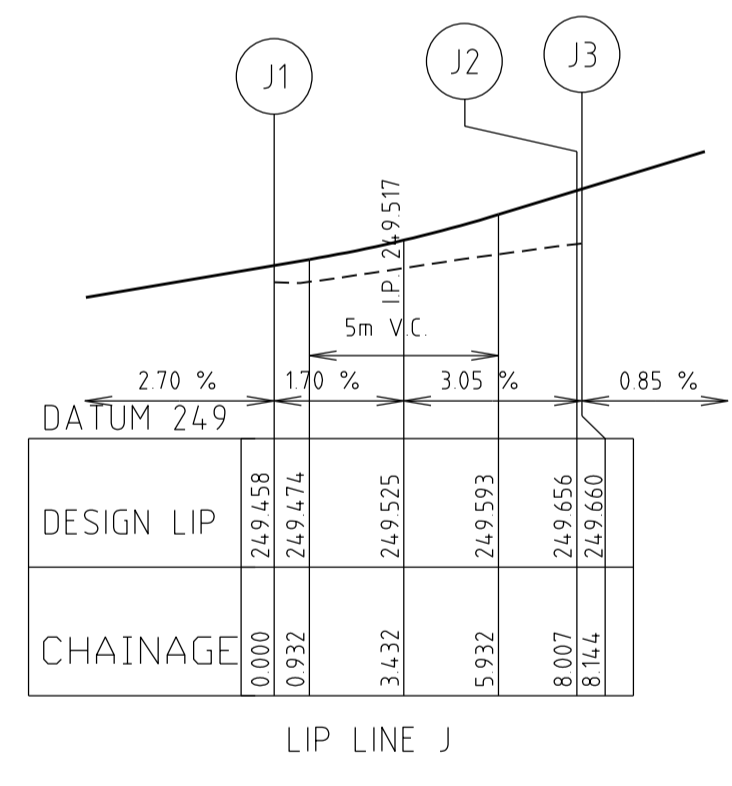
Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
F 2 3	8.600	12.162	2.519	1.963	249.622



Alignment I

Point no	Easting	Northing	RL
1	314935.535	5843292.554	249.458
2	314934.738	5843292.653	249.472
3	314929.627	5843292.254	249.560
4	314928.993	5843292.076	249.572
5	314925.976	5843291.758	249.614
6	314925.077	5843291.766	249.626
7	314933.445	5843292.747	249.494
8	314932.162	5843292.711	249.516
9	314930.890	5843292.547	249.538

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
I 2 3	-12.850	5.127	0.258	0.194	249.516
I 3 5	12.850	3.685	0.133	0.100	249.588



Alignment J

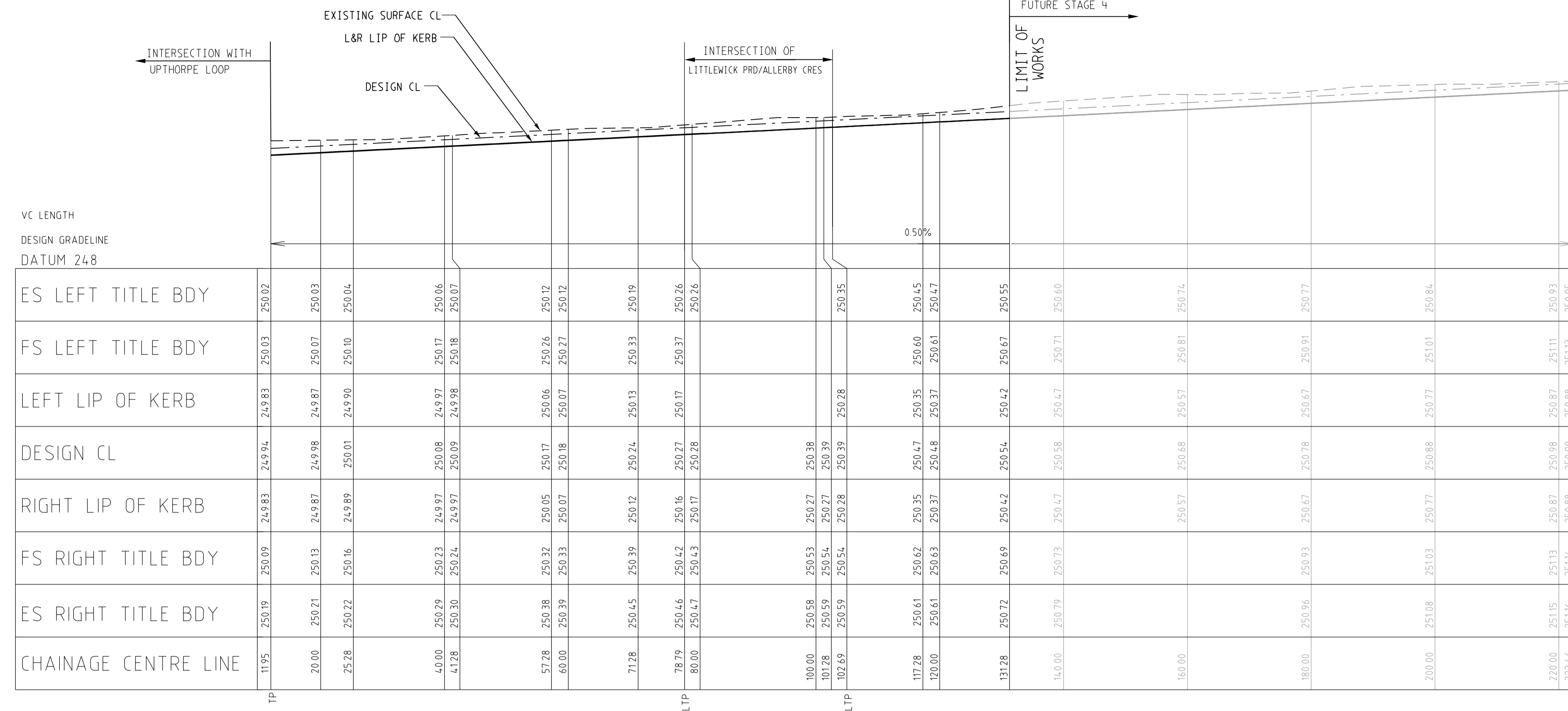
Point no	Easting	Northing	RL
J 1	314935.045	5843288.584	249.458
J 2	314927.773	5843285.991	249.656
J 3	314927.688	5843285.902	249.660
J 4	314932.993	5843288.591	249.495
J 5	314931.101	5843288.150	249.539
J 6	314929.357	5843287.294	249.593

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
J 1 2	-8.600	7.721	0.915	0.696	249.539

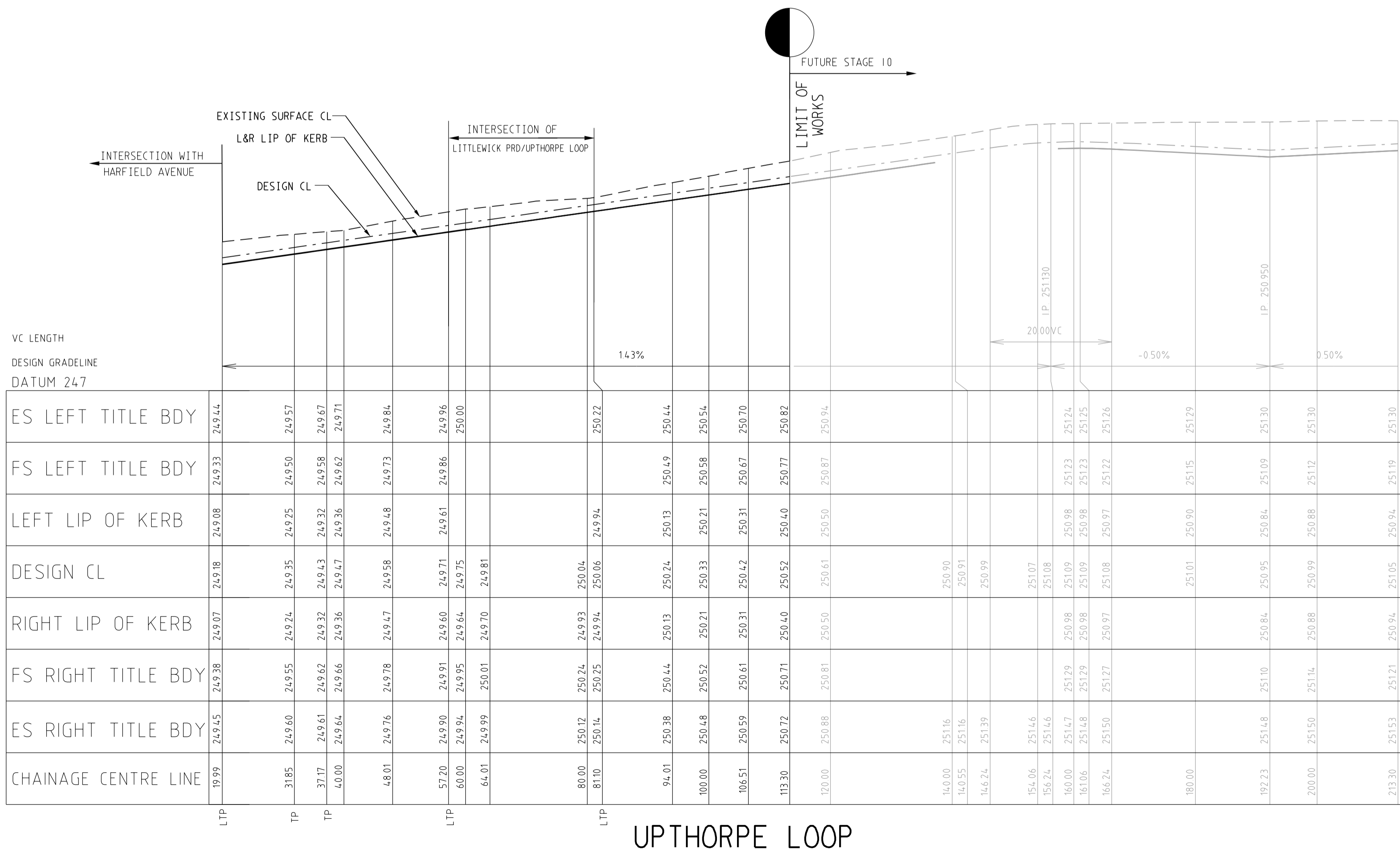
LIP OF KERB PROFILES
SCALE: HORIZONTAL 1:200
VERTICAL 1:20

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. 366-E-6 SURVEY BOSCO J DESIGN SBS		WARATAH ESTATE STAGE 2		MUNICIPALITY HUME	
DRAWN SBS				REFERENCE 8711 E/2	
A 29-06-16 ISSUED FOR APPROVAL	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE FEB'16	SHEET 6 OF 21



LITTLEWICK PARADE

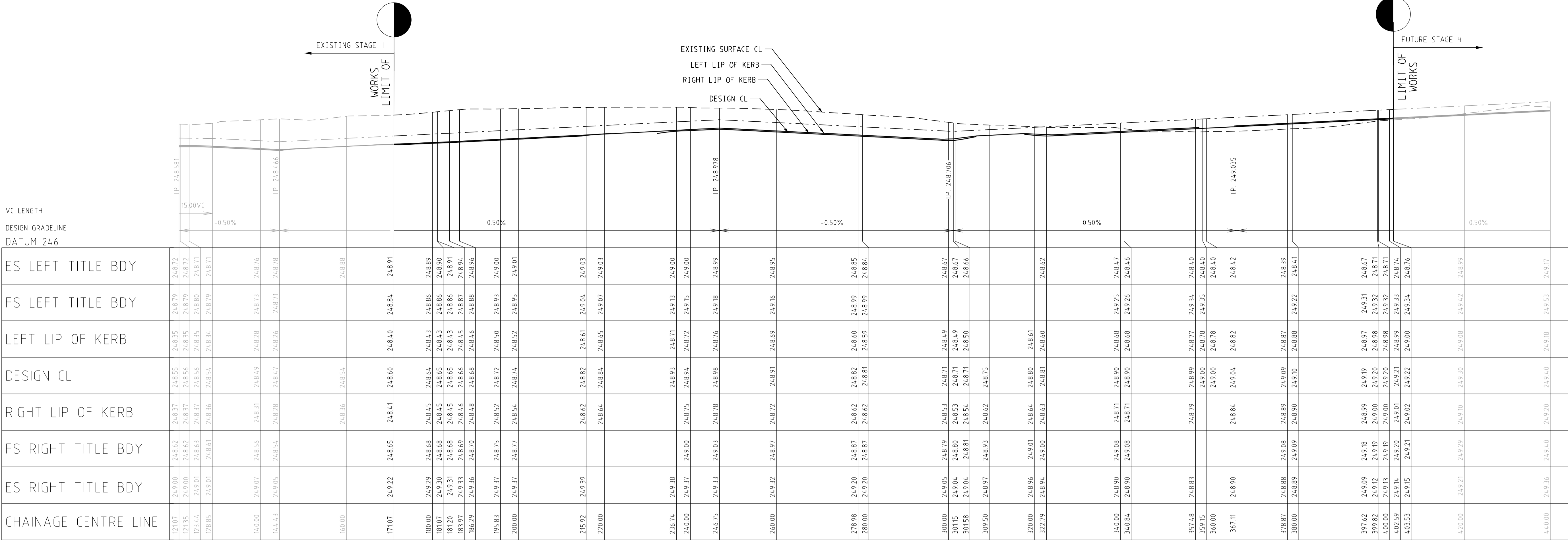


UPTHORPE LOOP

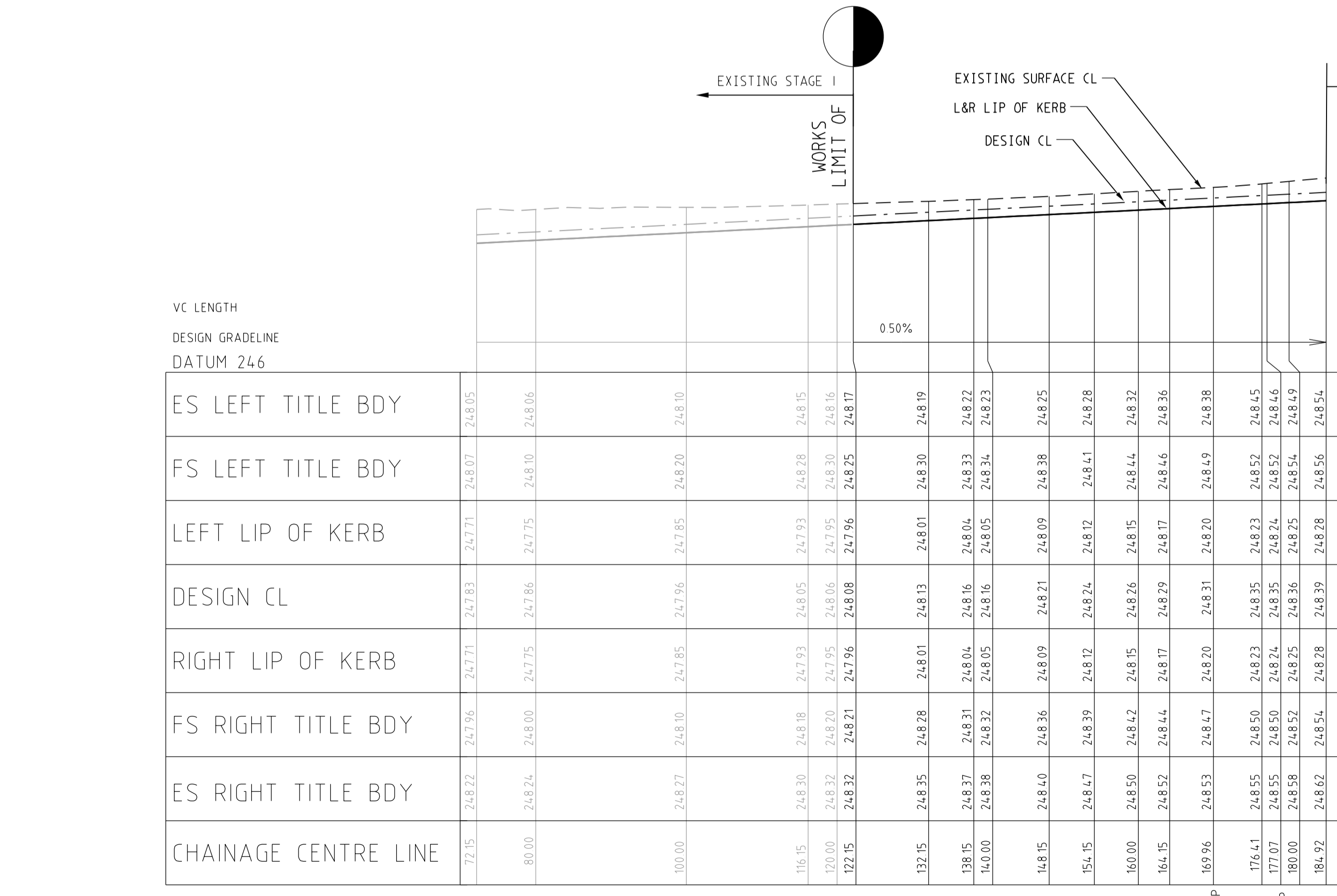
LONGITUDINAL SECTION
SCALE HORIZONTAL 1:500
VERTICAL 1:50

AS CONSTRUCTED

AMENDMENTS	VER	DATE	REMARKS		MELWAY REF. 366-E-6	breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	MUNICIPALITY HUME REFERENCE 8711 E/2
	A	29-06-16	ISSUED FOR APPROVAL		WARATAH ESTATE STAGE 2		
CHECKED				SCALE AS SHOWN	DATUM AHD	DATE FEB'16	SHEET 7 OF 21



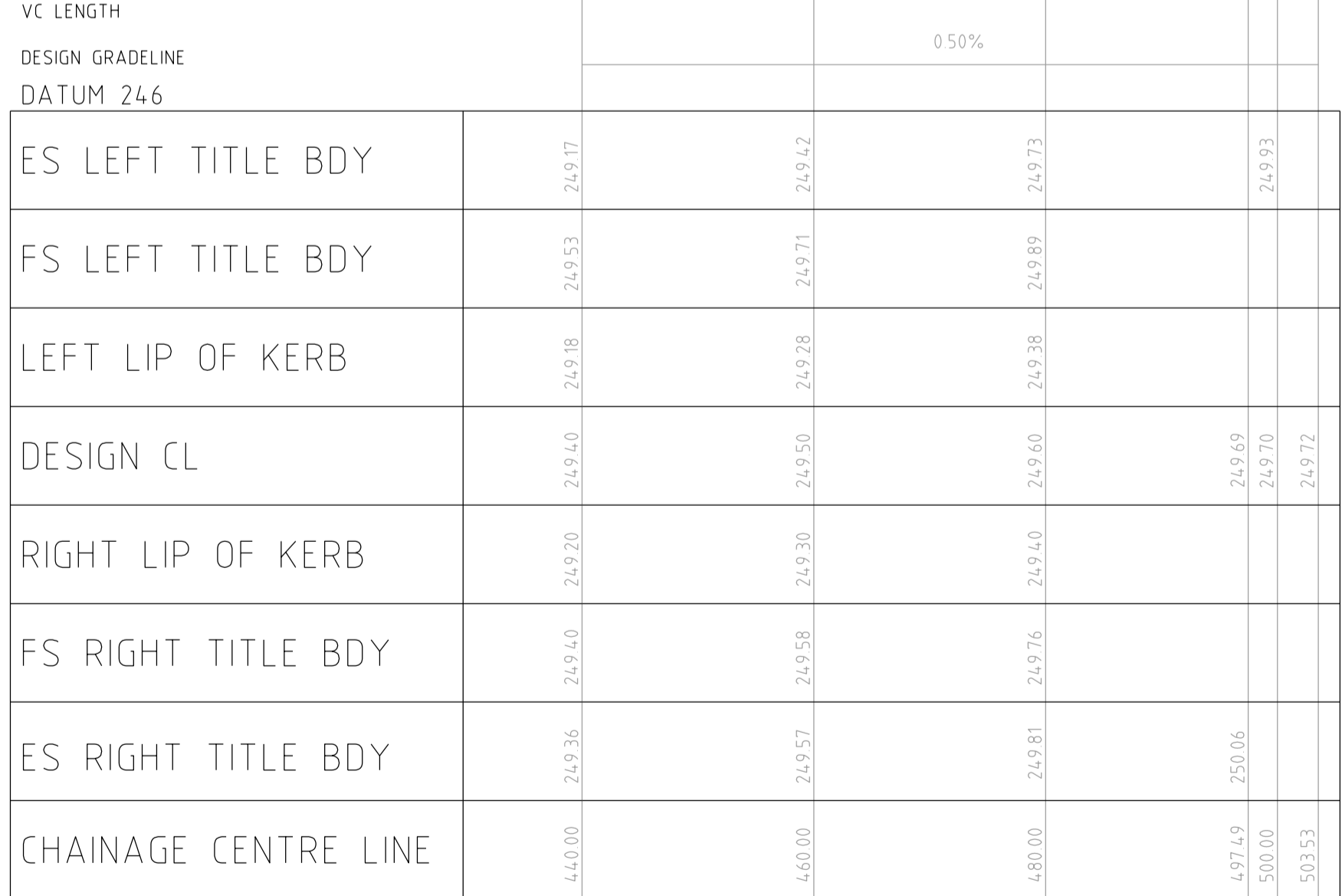
HARFIELD AVENUE



NORTHALL ROAD

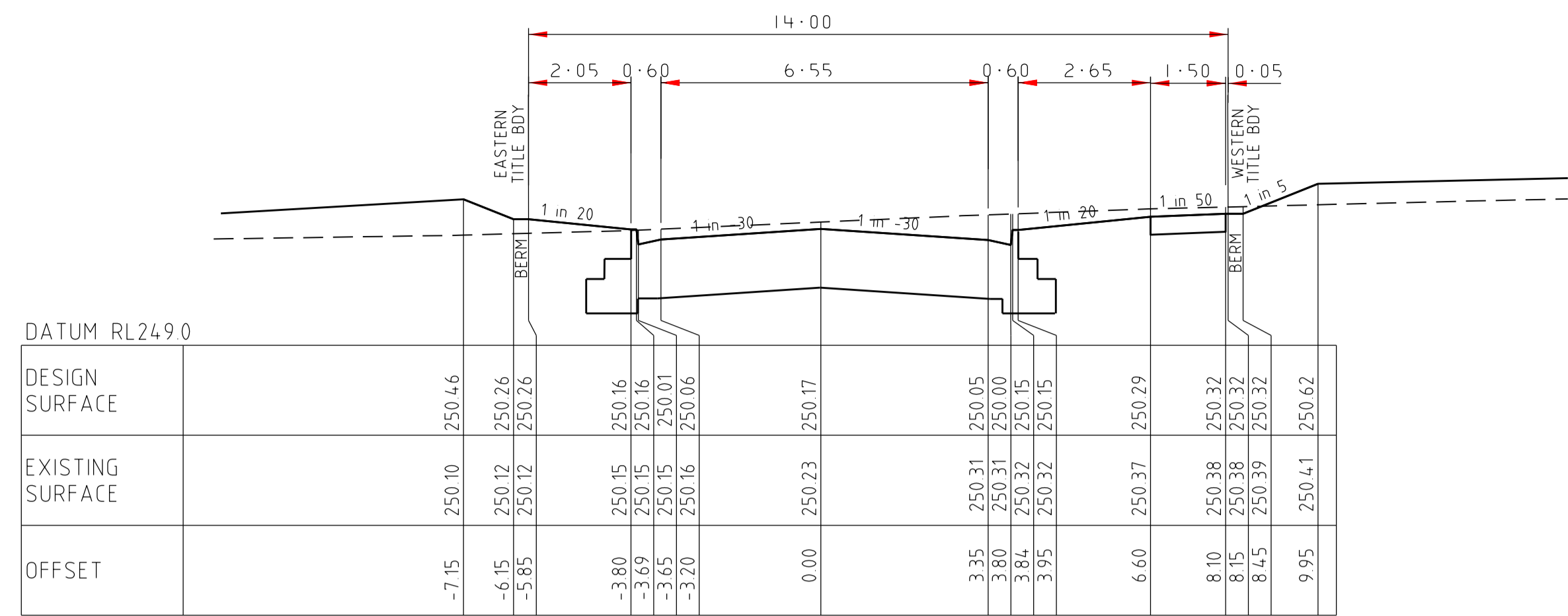
LONGITUDINAL SECTION
SCALE HORIZONTAL 1:500
VERTICAL 1:50

HARFIELD AVENUE

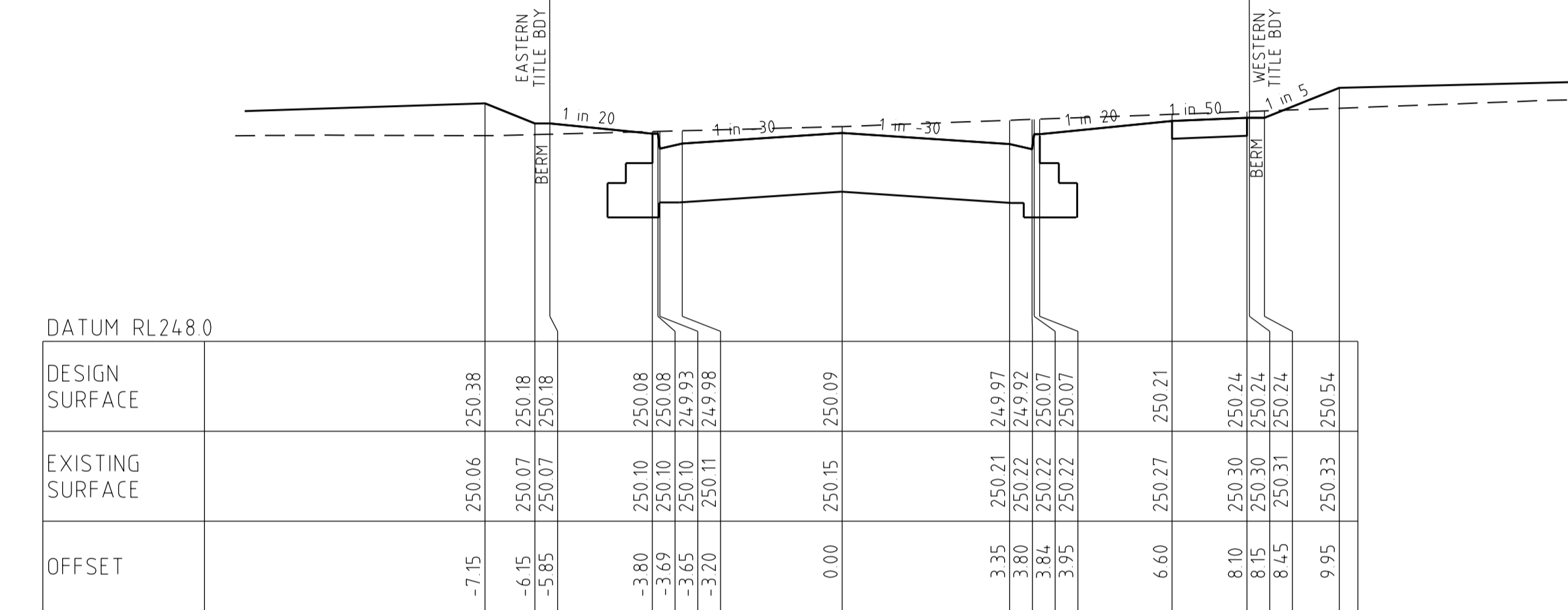


AS CONSTRUCTED

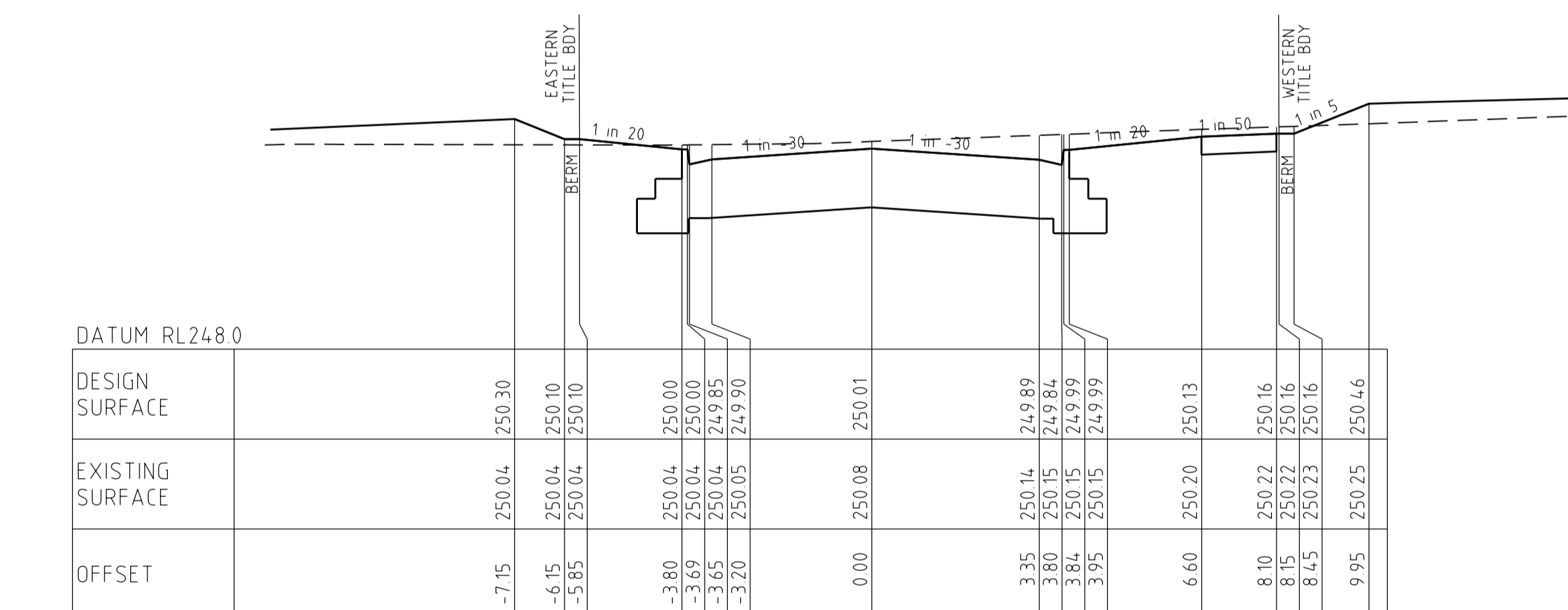
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS		MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN CHECKED		WARATAH ESTATE STAGE 2	
A 29-06-16 ISSUED FOR APPROVAL		SCALE AS SHOWN D.A.H.		MUNICIPALITY HUME REFERENCE 8711 E/2	
VER	DATE	REMARKS	SCALE	DATUM	SHEET 9 OF 21
				AHD	
				DATE	FEB'16



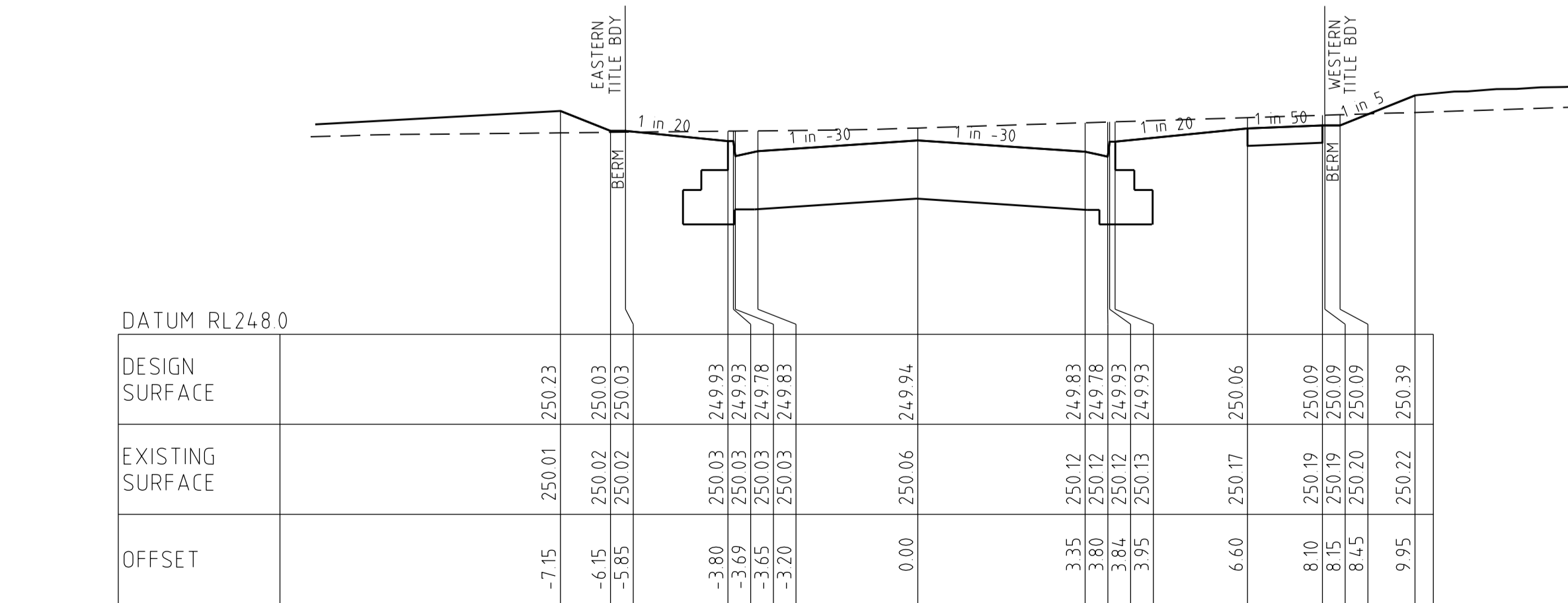
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41.28

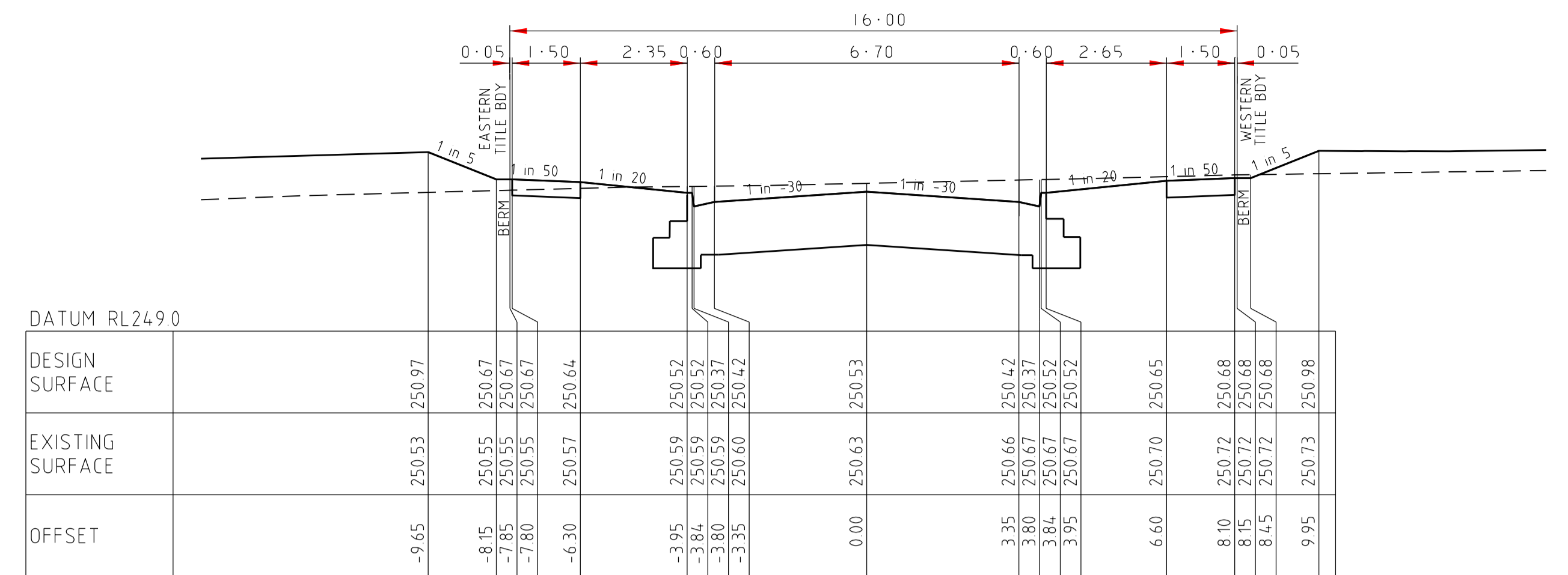


25.28

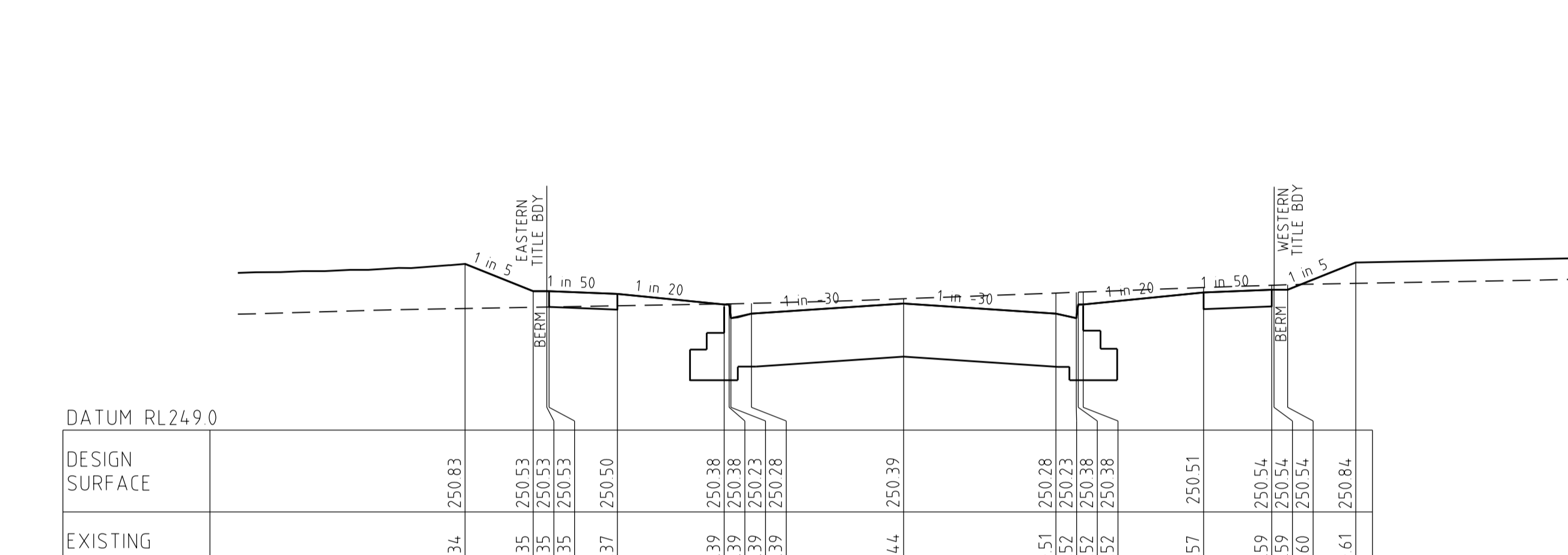


LITTLEWICK PARADE

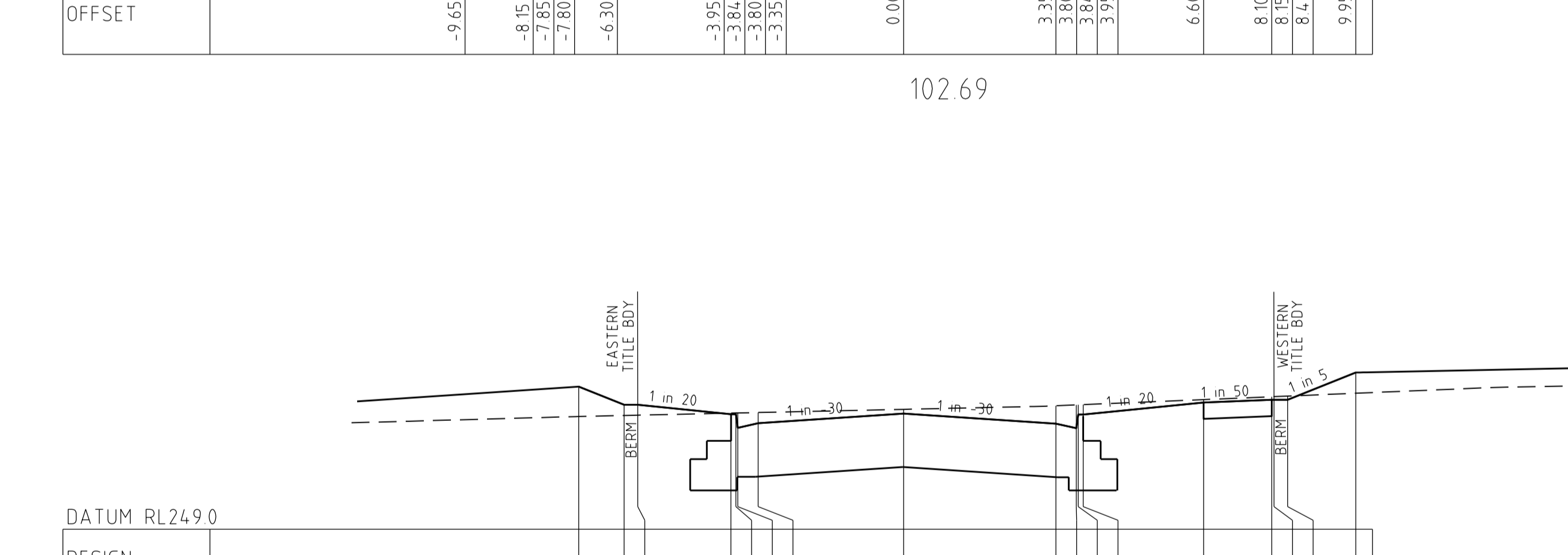
11.95



131.00



102.69

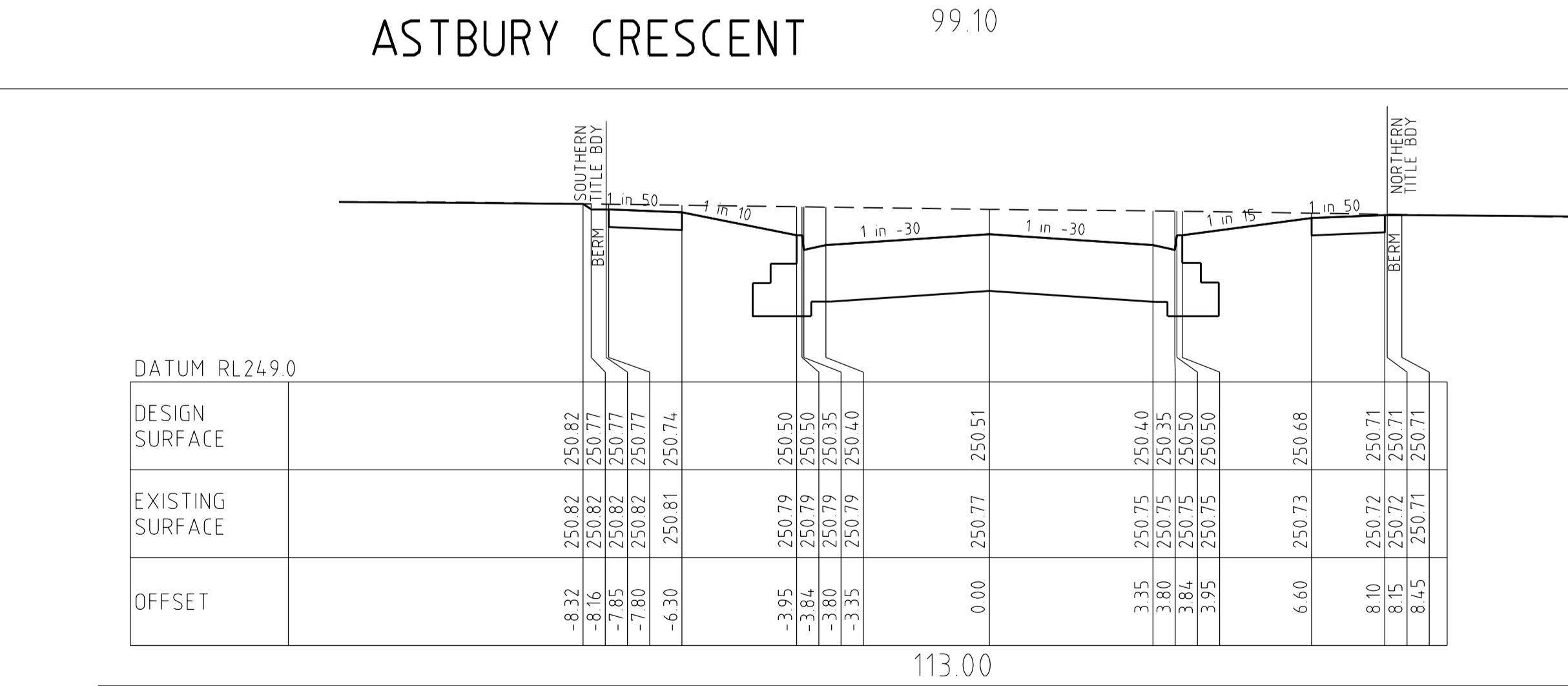
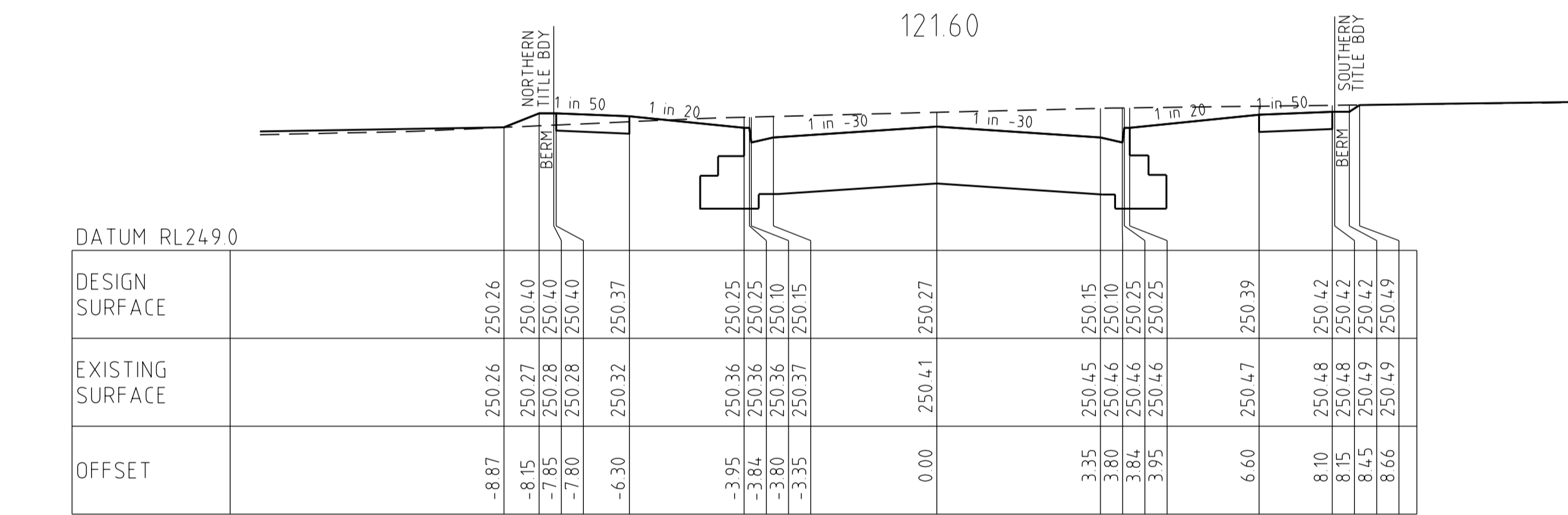
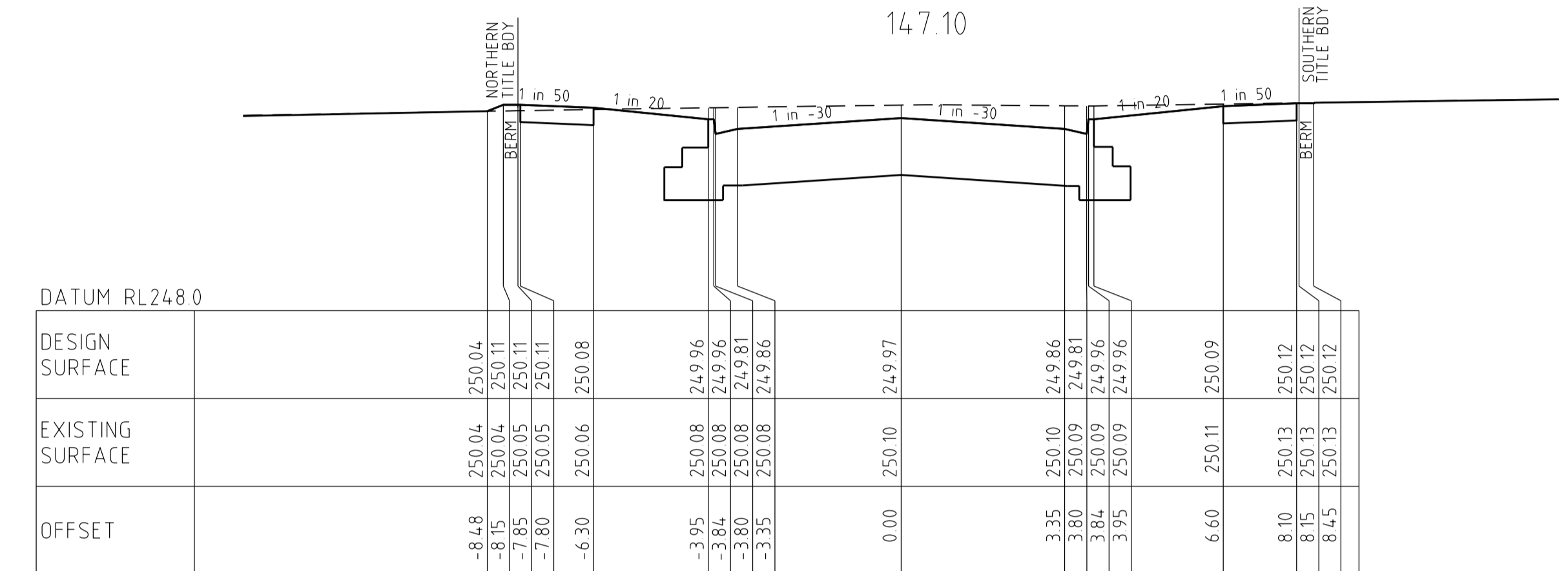
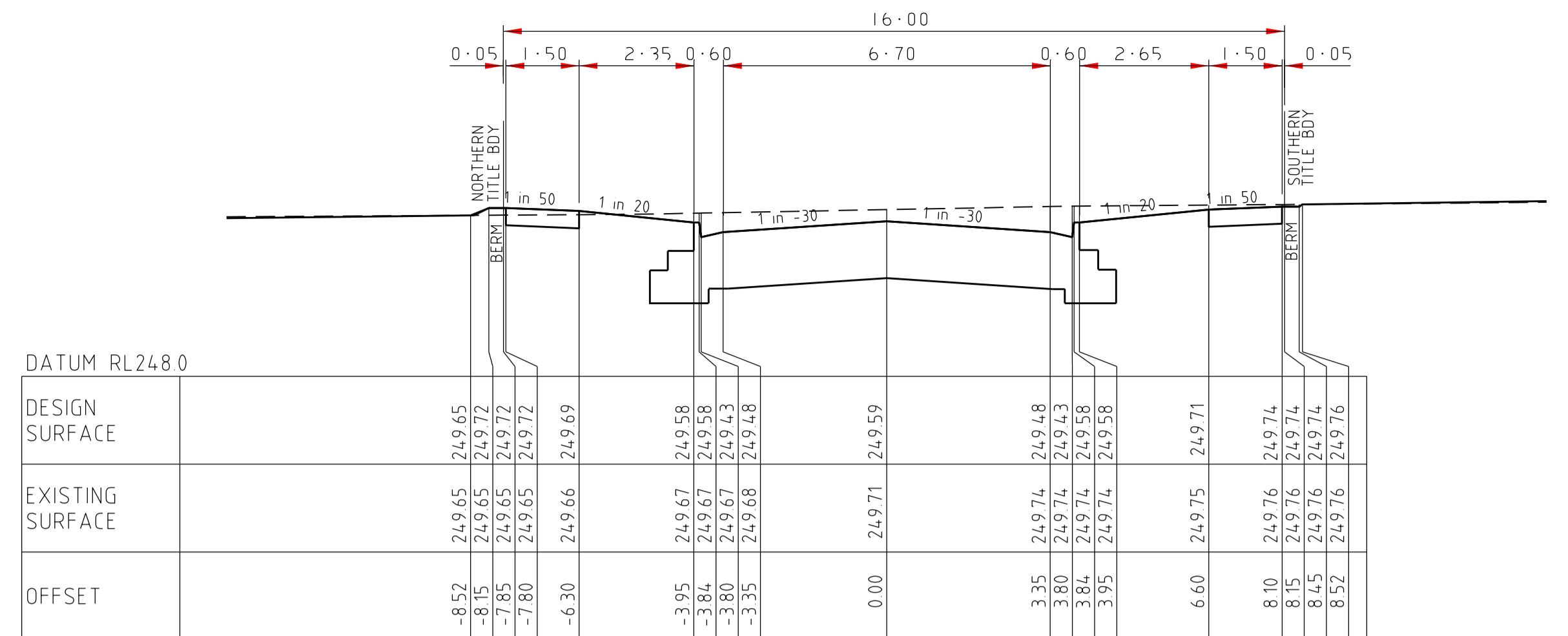
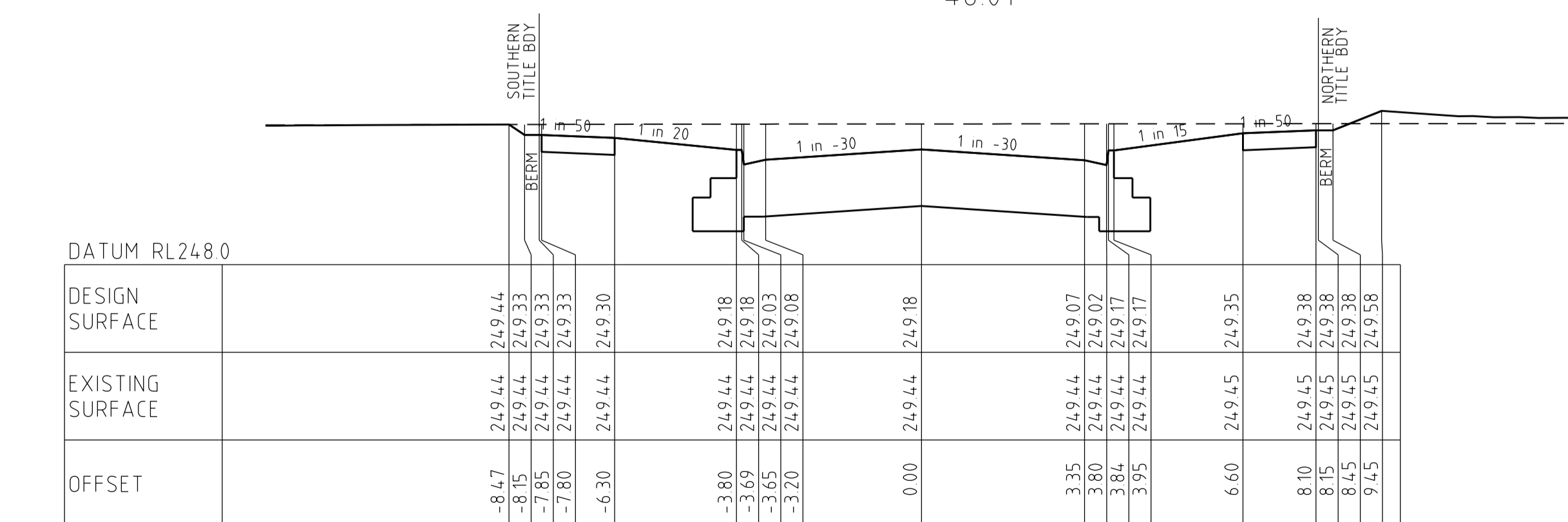
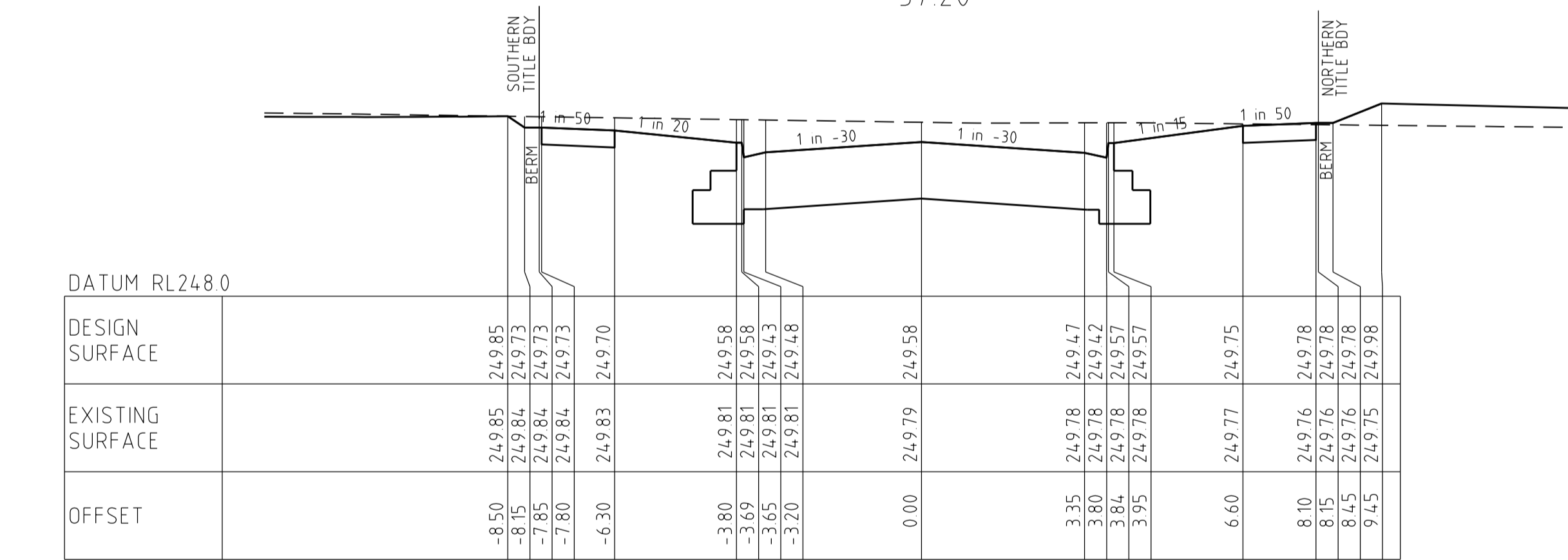
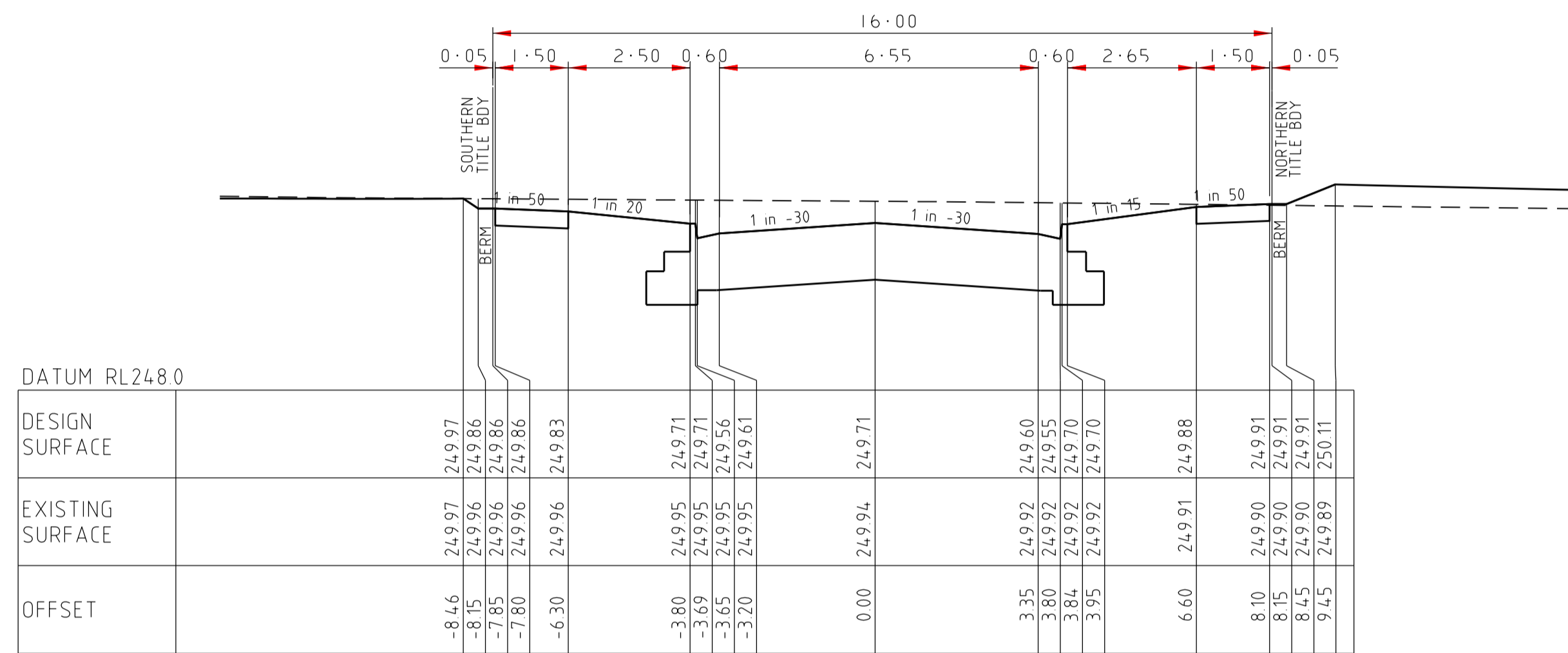
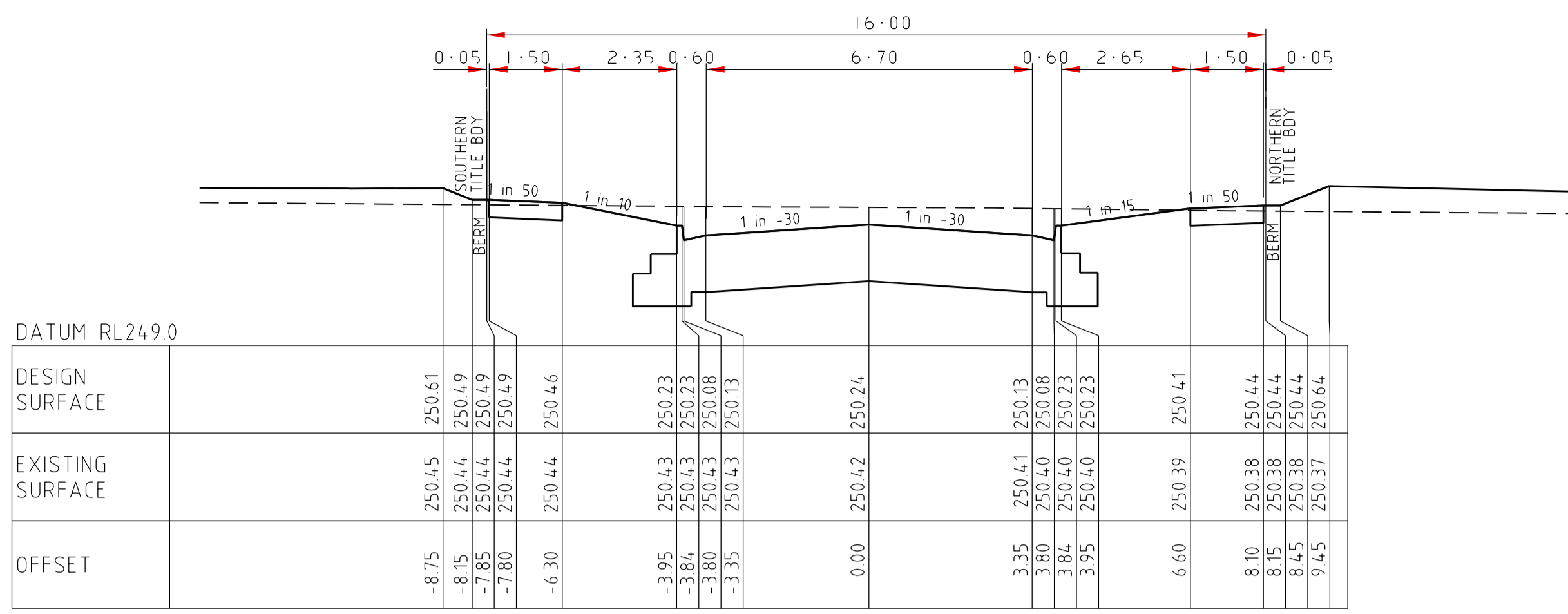


78.79

AS CONSTRUCTED

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	
MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN SBS		WARATAH ESTATE STAGE 2		MUNICIPALITY HUME REFERENCE 8711 E/2	
AMENDMENTS A 29.06.16 ISSUED FOR APPROVAL	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE FEB'16	SHEET 10 OF 21

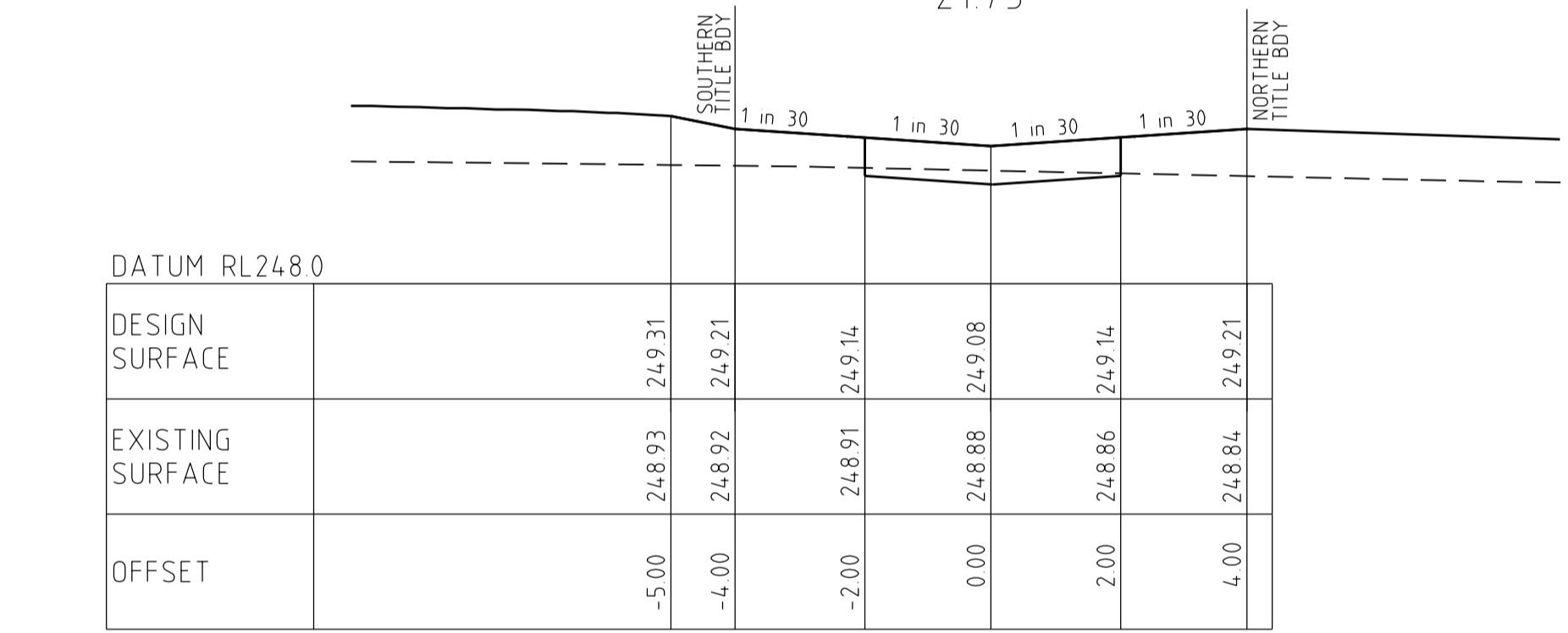
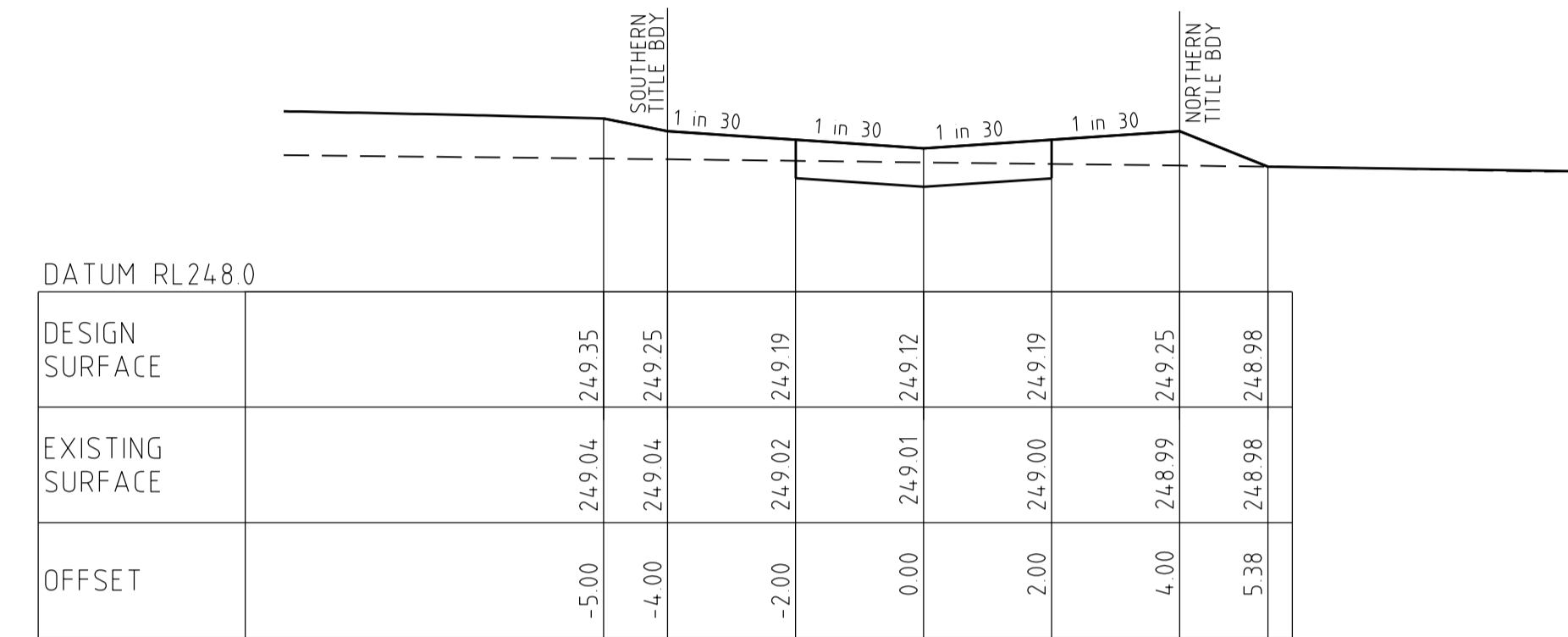
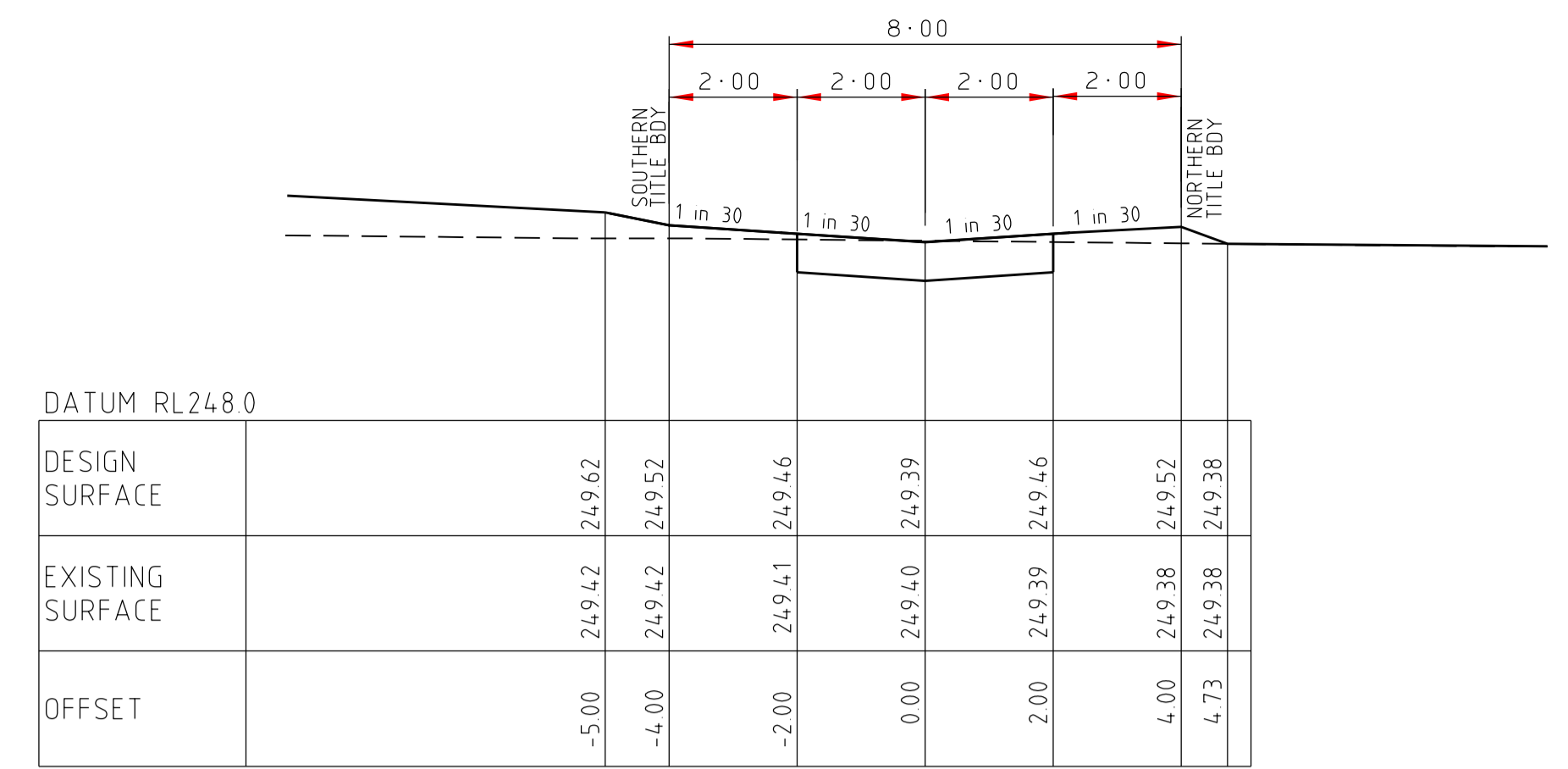
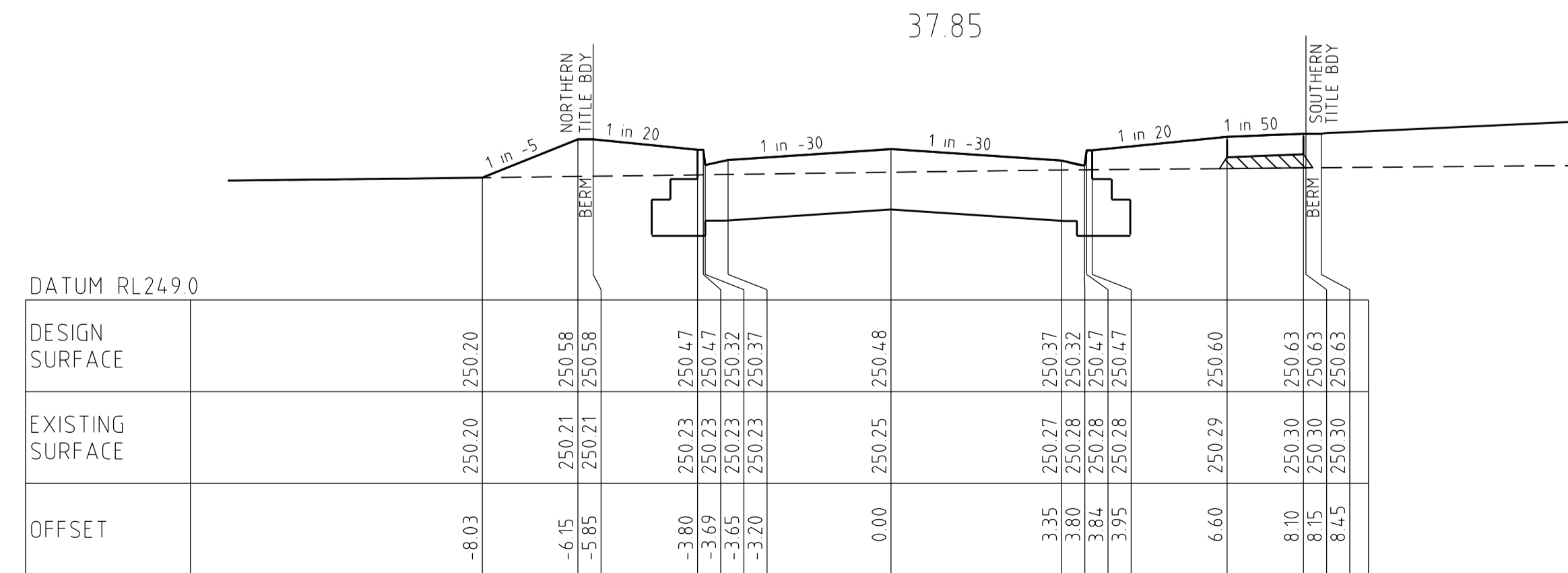
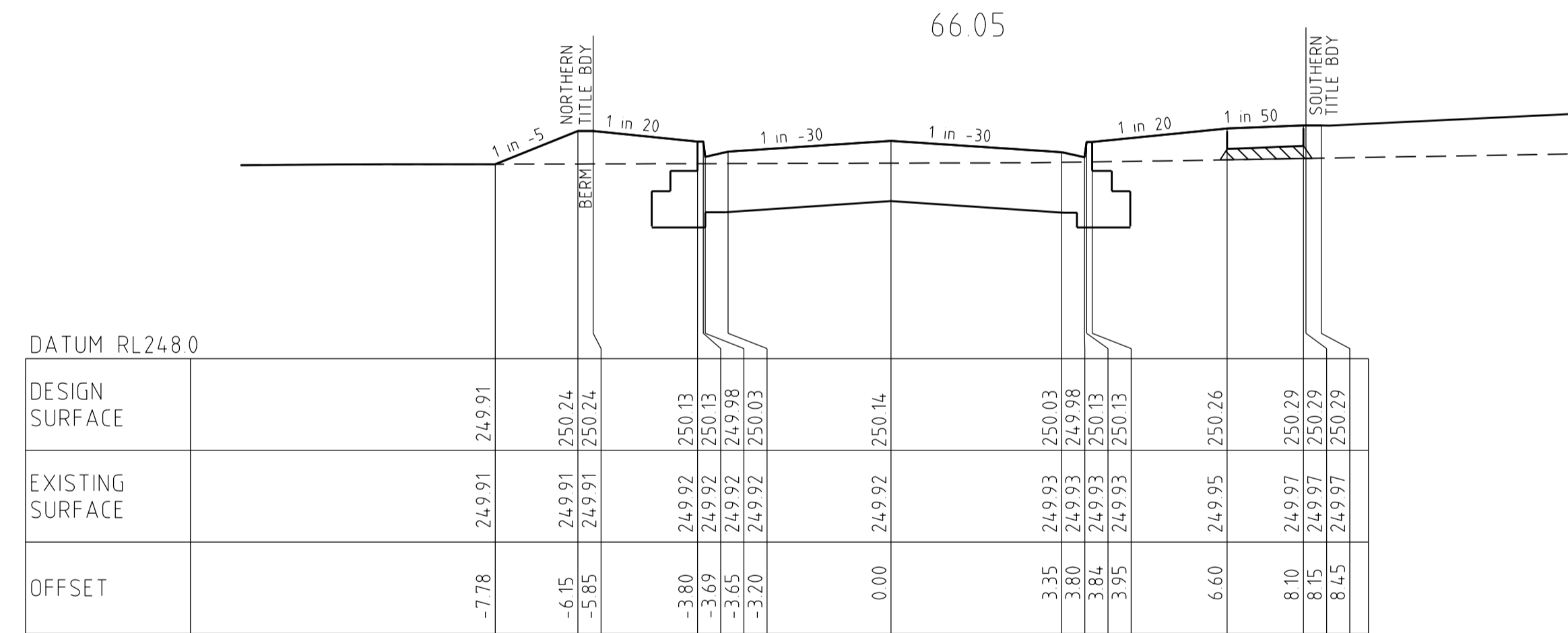
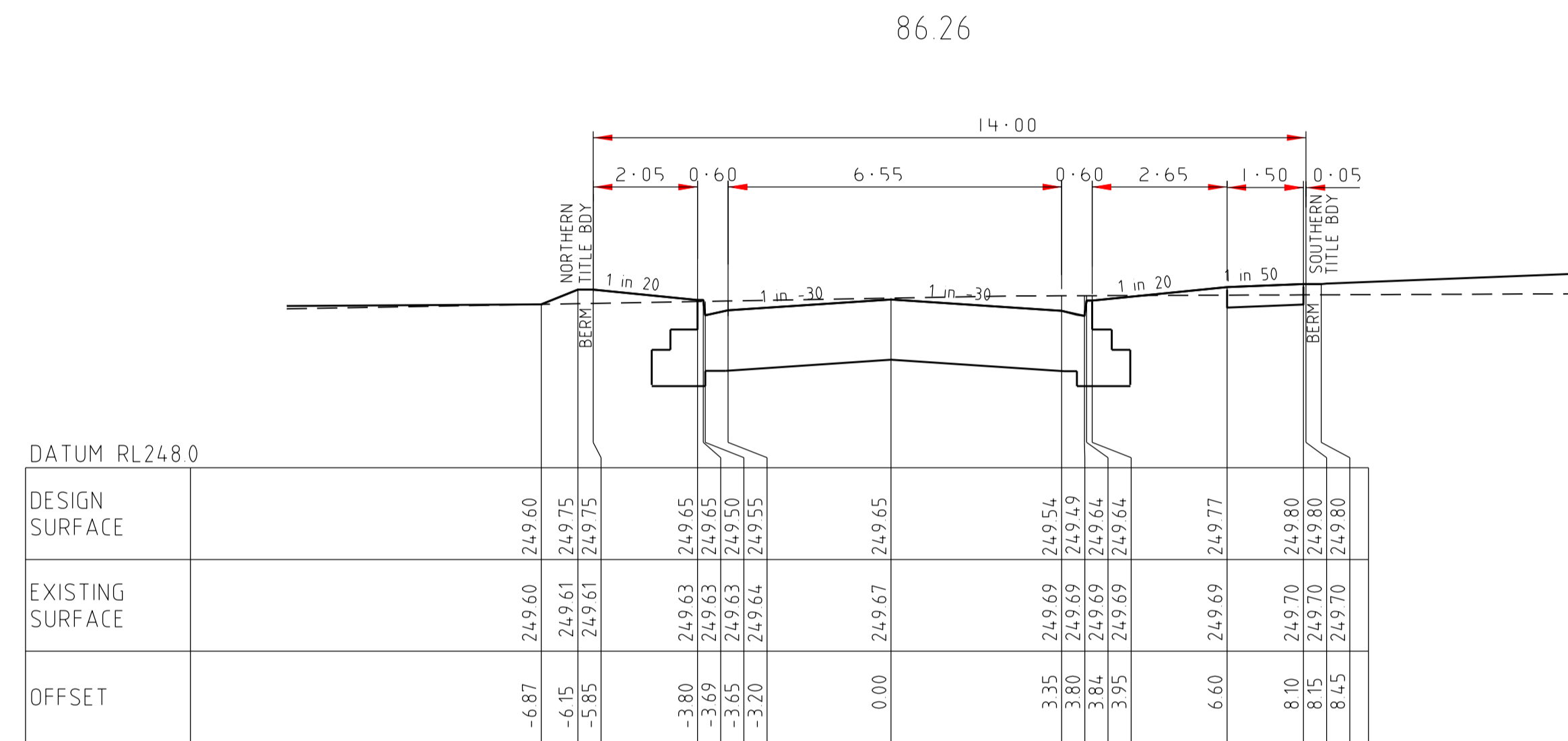
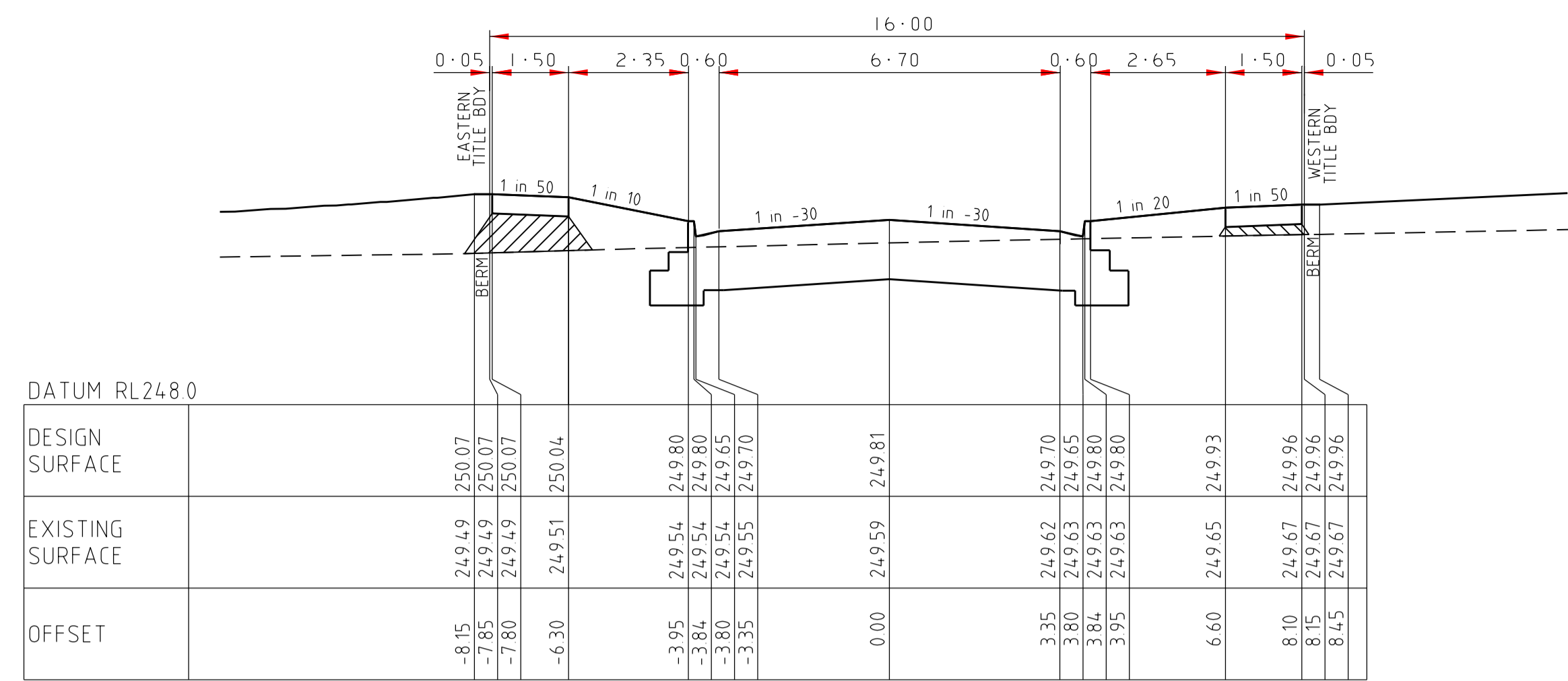


AS CONSTRUCTED

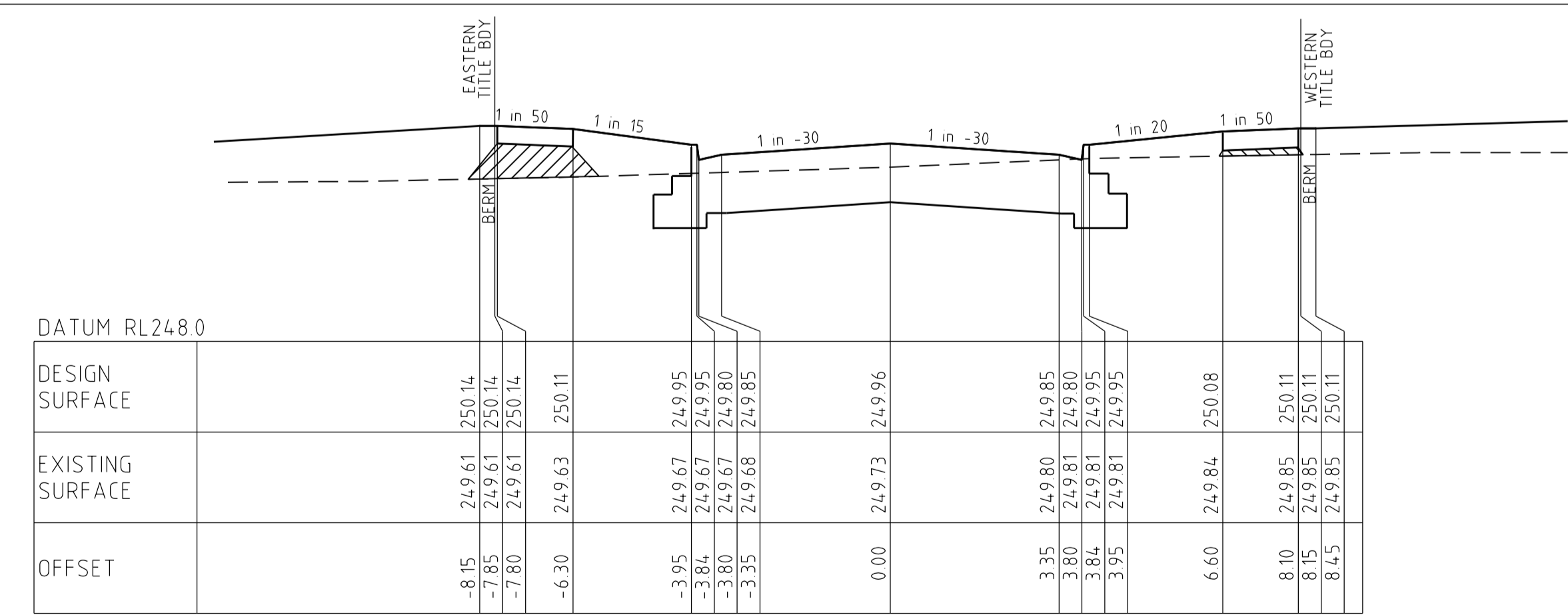
UPTHORPE LOOP

CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50

AMENDMENTS	VER	DATE	REMARKS		MELWAY REF. 366-E-6	breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	MUNICIPALITY HUME REFERENCE 8711 E/2	
	A 29-06-16 ISSUED FOR APPROVAL				SURVEY BOSCO J			
					DESIGN SBS			
					DRAWN SBS			
				CHECKED	SCALE AS SHOWN	DATUM AHD	DATE FEB'16	SHEET 11 OF 21



ECCLES LANE



AS CONSTRUCTED

ALLERBY CRESCENT

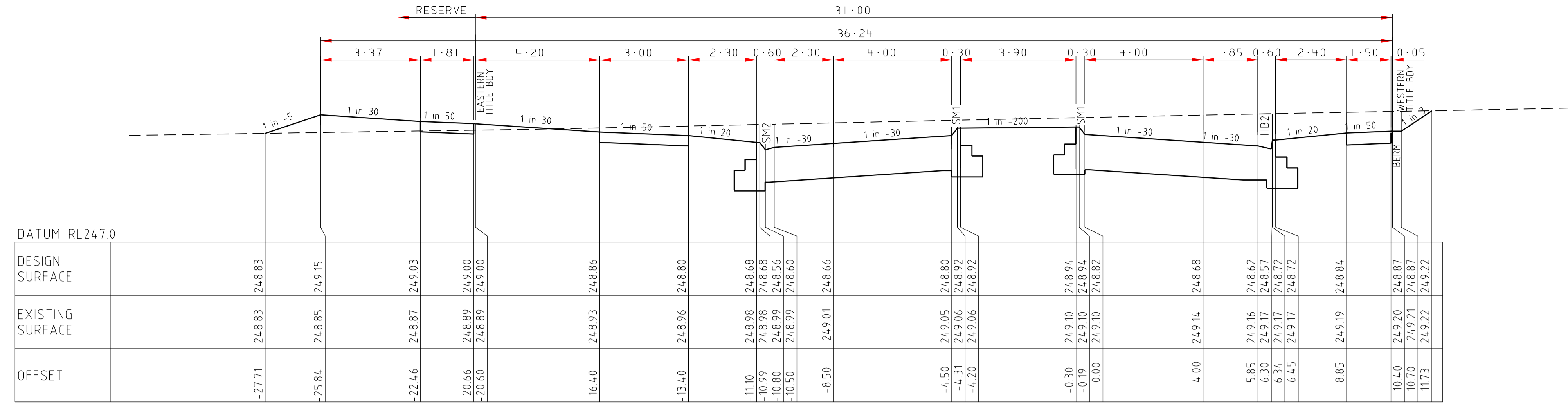
INDICATES CRUSHED ROCK BACKFILL

CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50

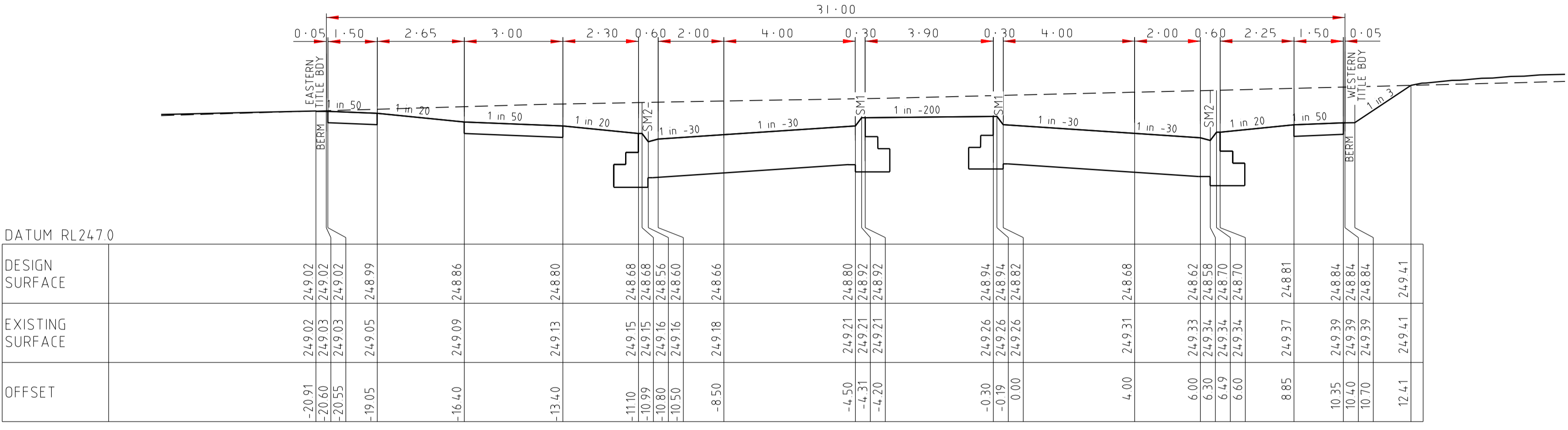
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN SBS		WARATAH ESTATE STAGE 2		MUNICIPALITY HUME REFERENCE 8711 E/2	
A 29-06-16 ISSUED FOR APPROVAL		CHECKED		SCALE AS SHOWN DATUM AHD DATE FEB'16 SHEET 12 OF 21	

I:\8711\VENGOSTOPEZ_R12_AC\REL_XS1.dgn

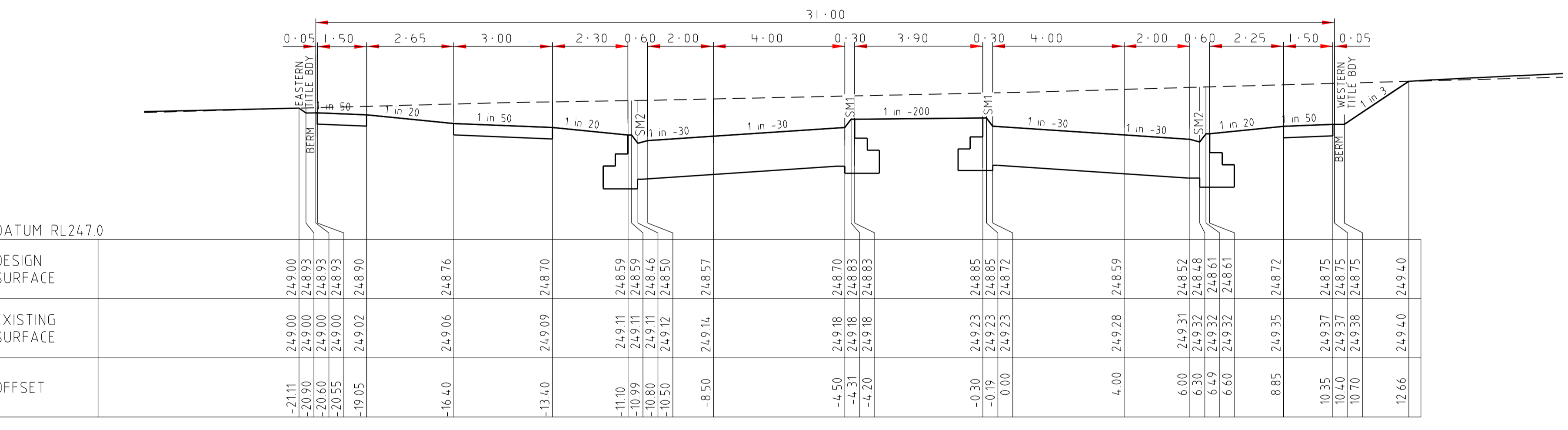
AS CONSTRUCTED



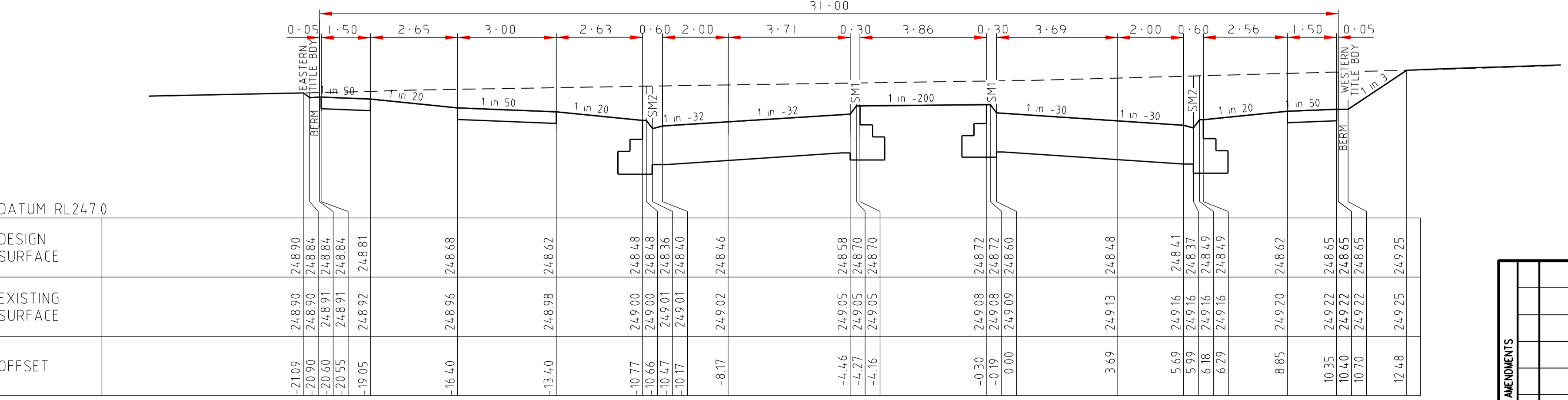
279.30



214.68



195.83



171.07

HARFIELD AVENUE - I

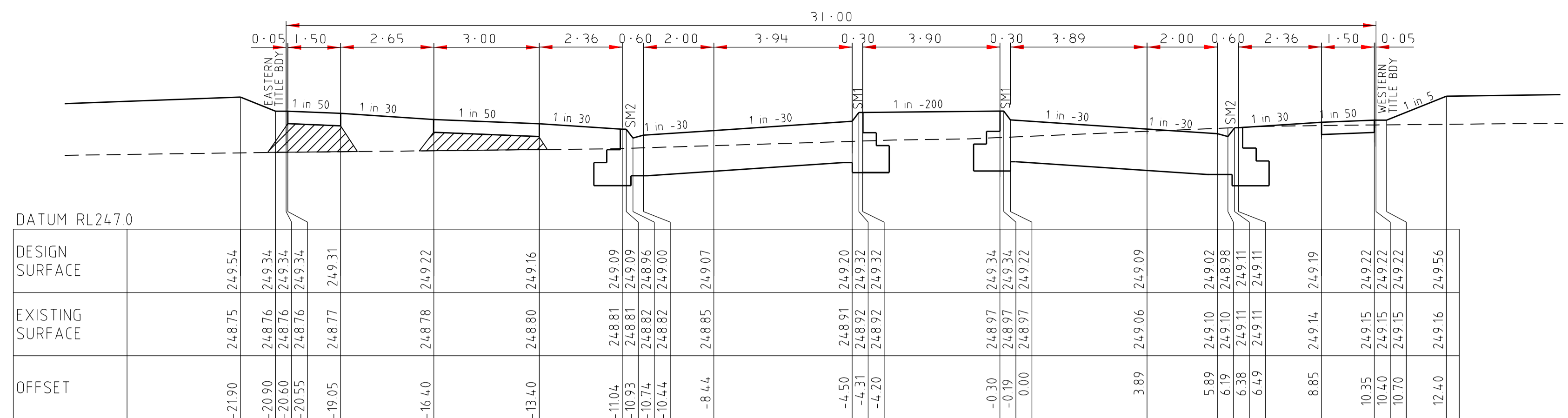
CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50



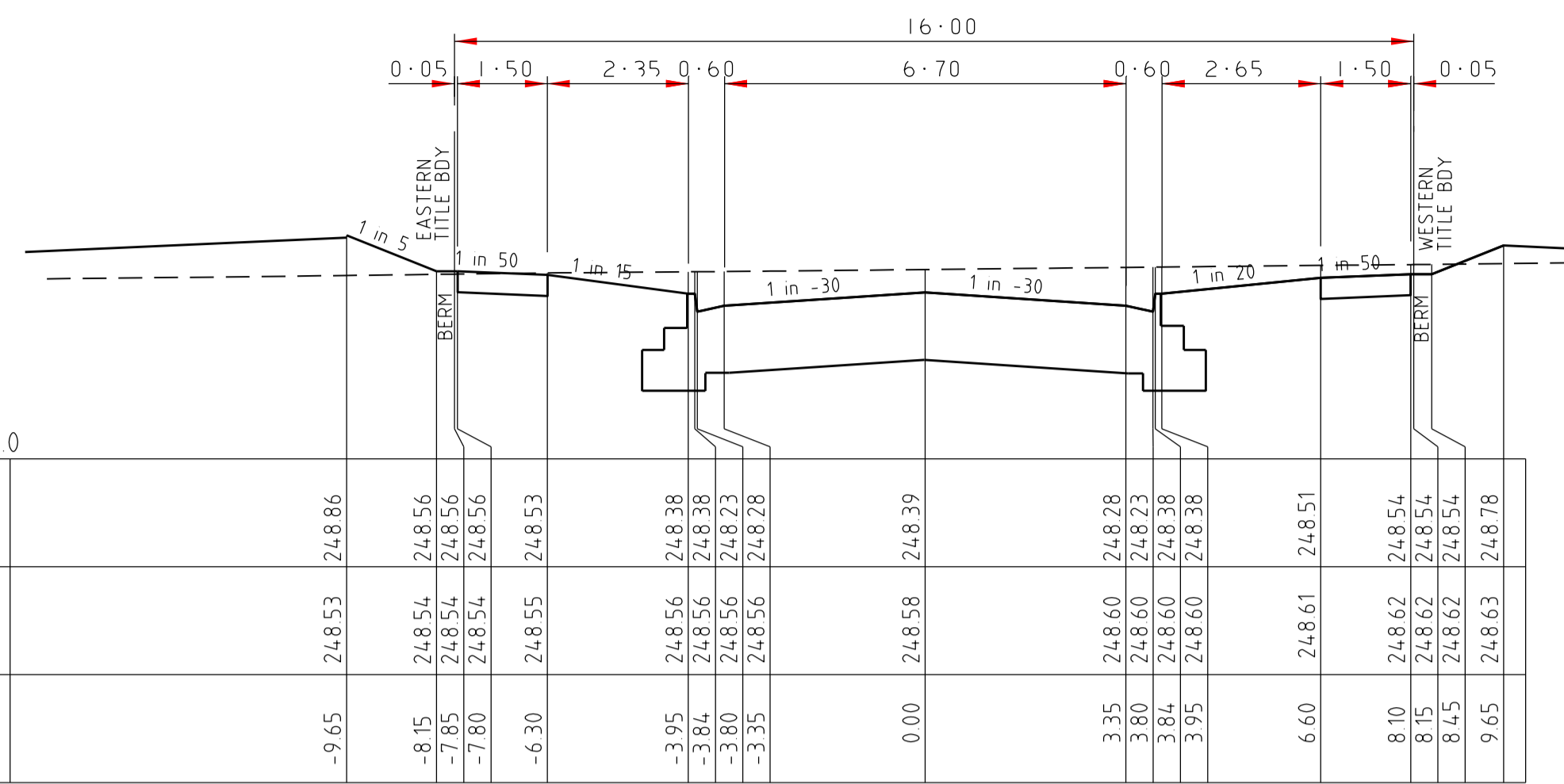
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 366-E-6		WARATAH ESTATE STAGE 2		MUNICIPALITY HUME	
SURVEY BOSCO J		DESIGN SBS		REFERENCE 8711 E/2	
DATE 29-06-16		ISSUED FOR APPROVAL		DRAWN SBS	
AMENDMENTS	VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN
DATUM AHD		DATE FEB'16		SHEET 13 OF 21	

I:\8711\ENG\ST02\02.01\3A.X59.dgn

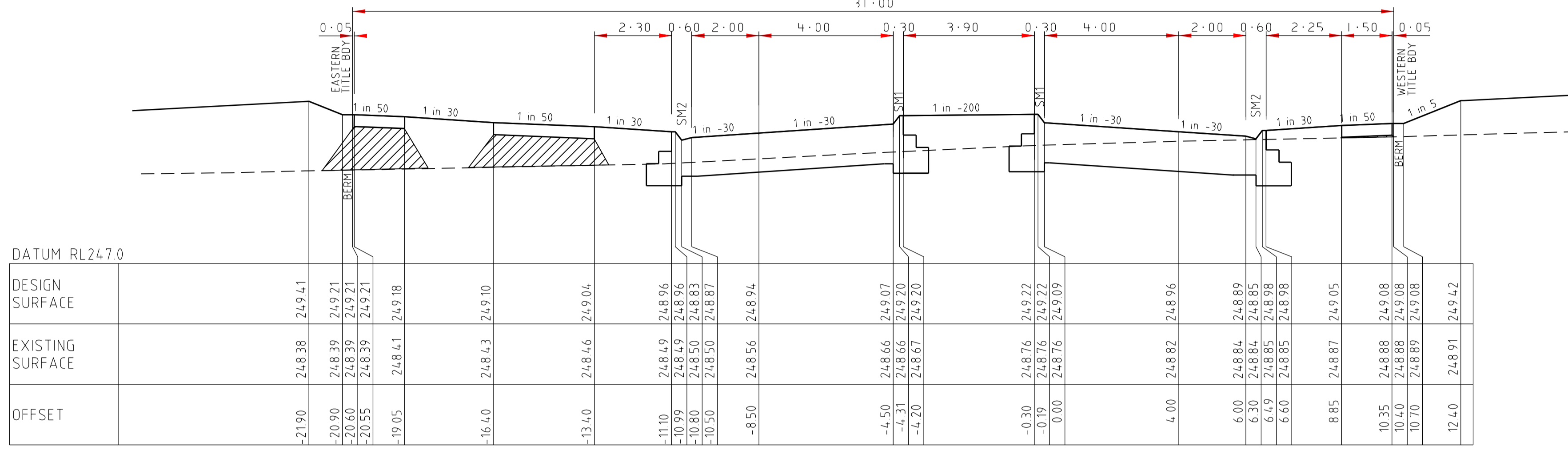
AS CONSTRUCTED



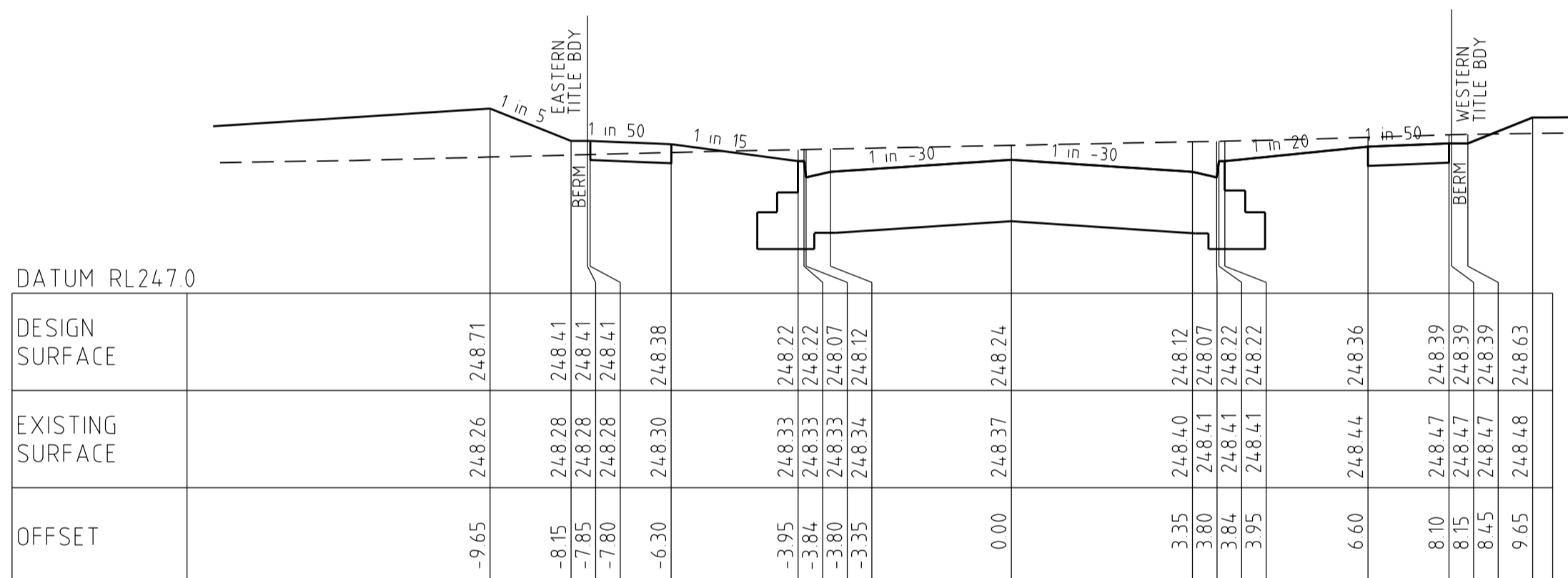
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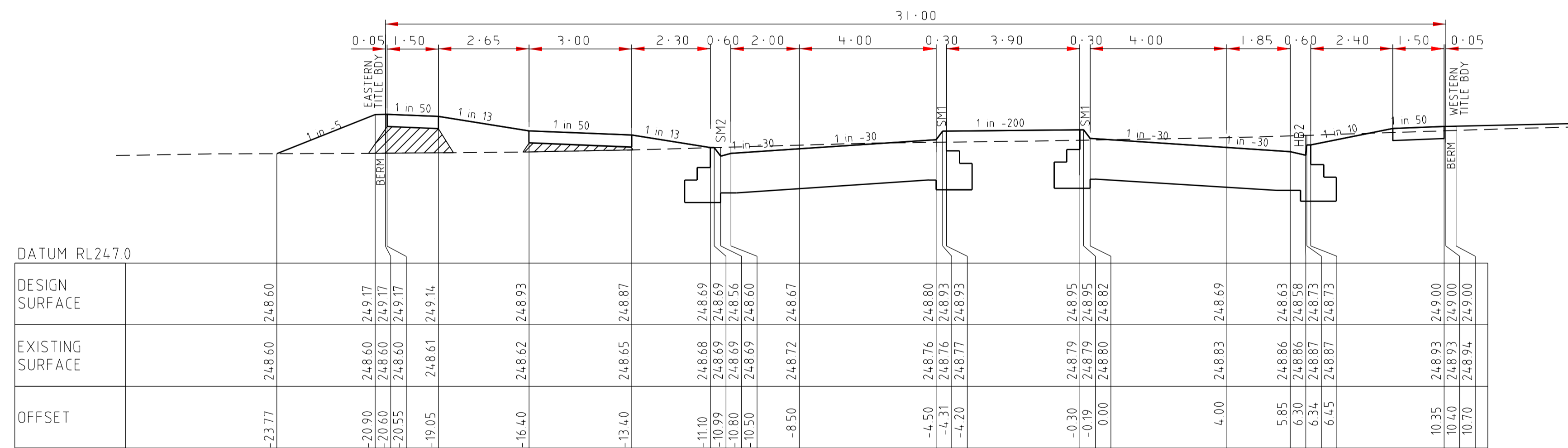
184.92



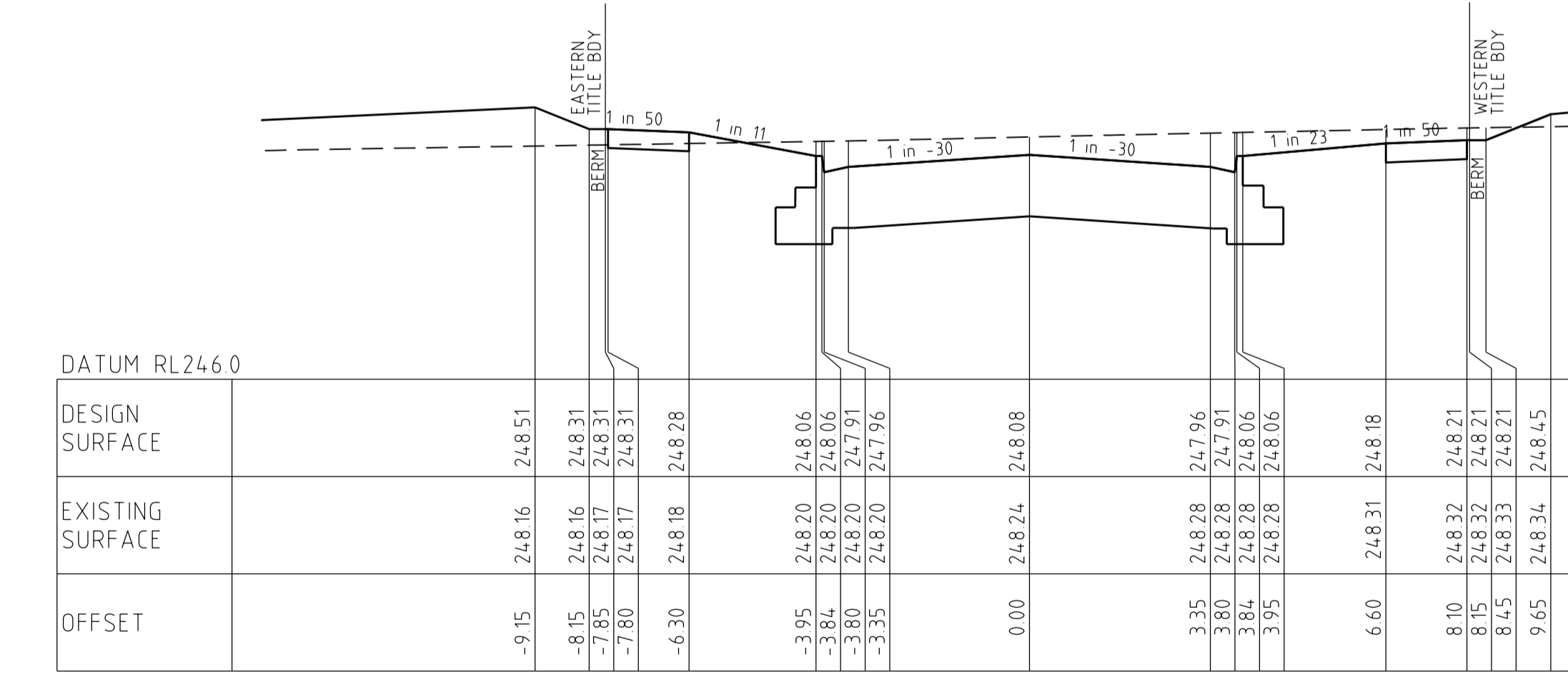
378.87



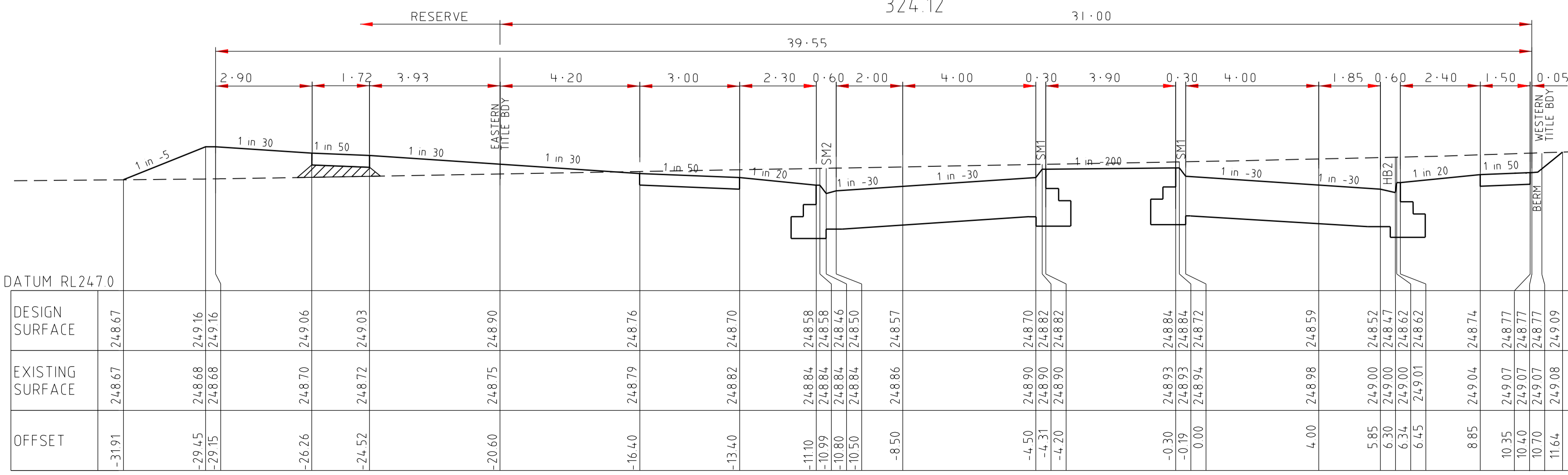
154.15



324.12



122.15



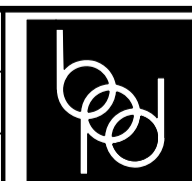
298.53

HARFIELD AVENUE-2

INDICATES CRUSHED ROCK BACKFILL

NORTHALL ROAD

CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50

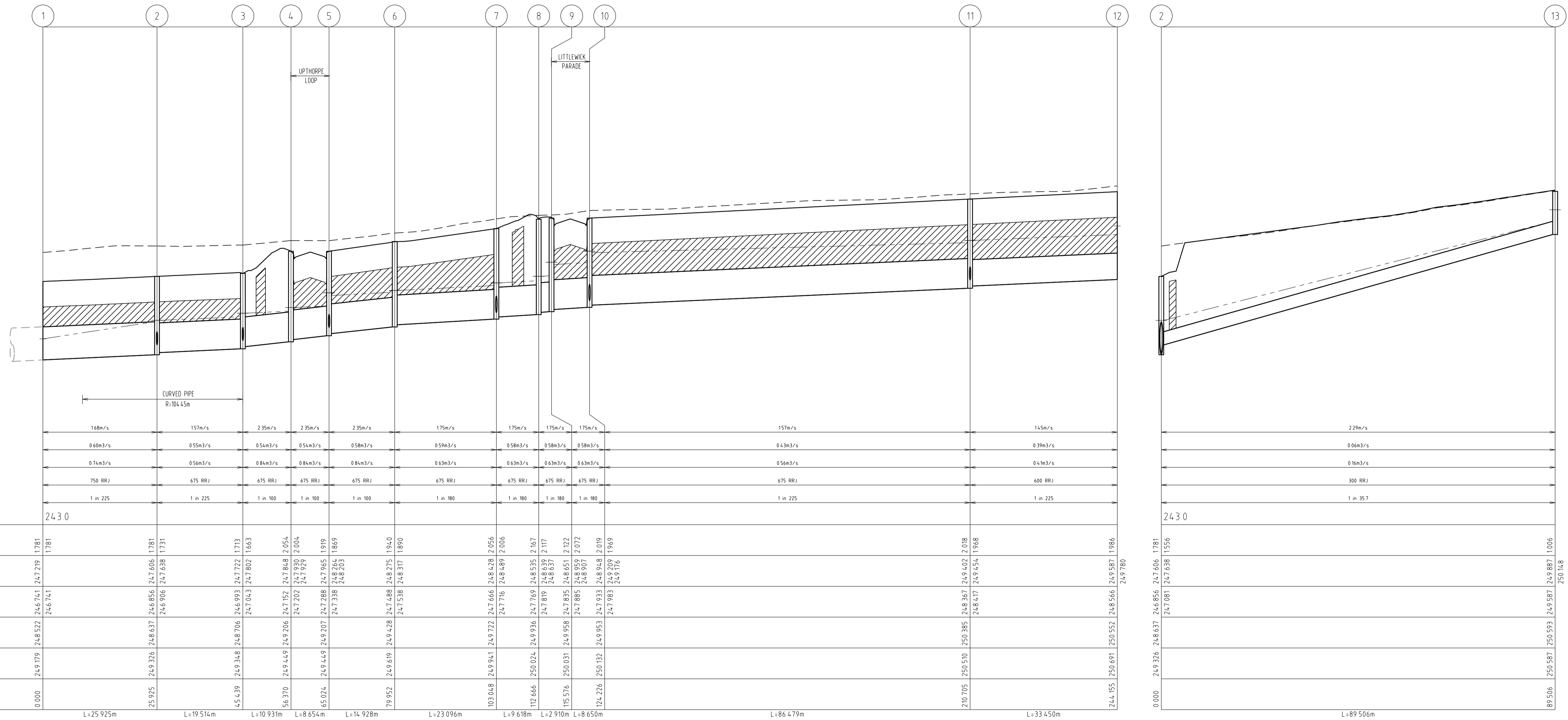


breese pitt dixon pty. ltd.
land surveyors
civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

WARATAH ESTATE
STAGE 2

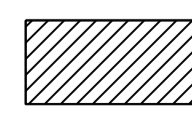
MUNICIPALITY
HUME
REFERENCE
8711 E/2

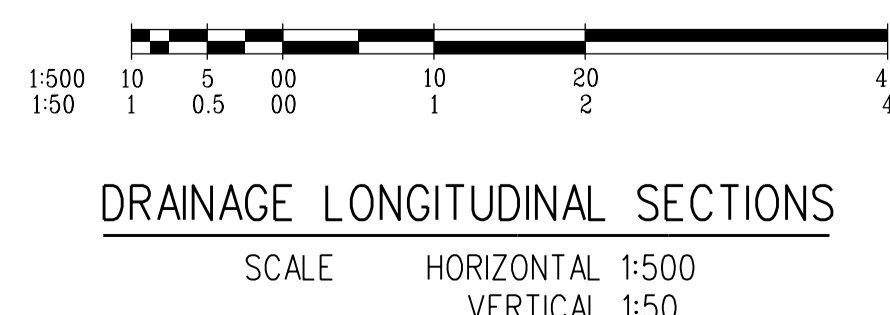
AMENDMENTS	DATE	REMARKS	CHECKED
B	12-08-16	CROSS SECTION FOR CH403.53 UPDATED	SBS
A	29-06-16	ISSUED FOR CONSTRUCTION	SBS



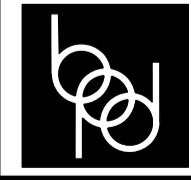

VELOCITY (m/sec)
 DESIGN (m³/s)
 CAPACITY (m³/s)
 DIAMETER AND TYPE (CLASS 2)
 GRADE
 DATUM RL
 DEPTH FS TO INVERT
 HGL LEVEL
 INVERT
 FINISHED SURFACE
 NATURAL SURFACE
 CHAINAGE

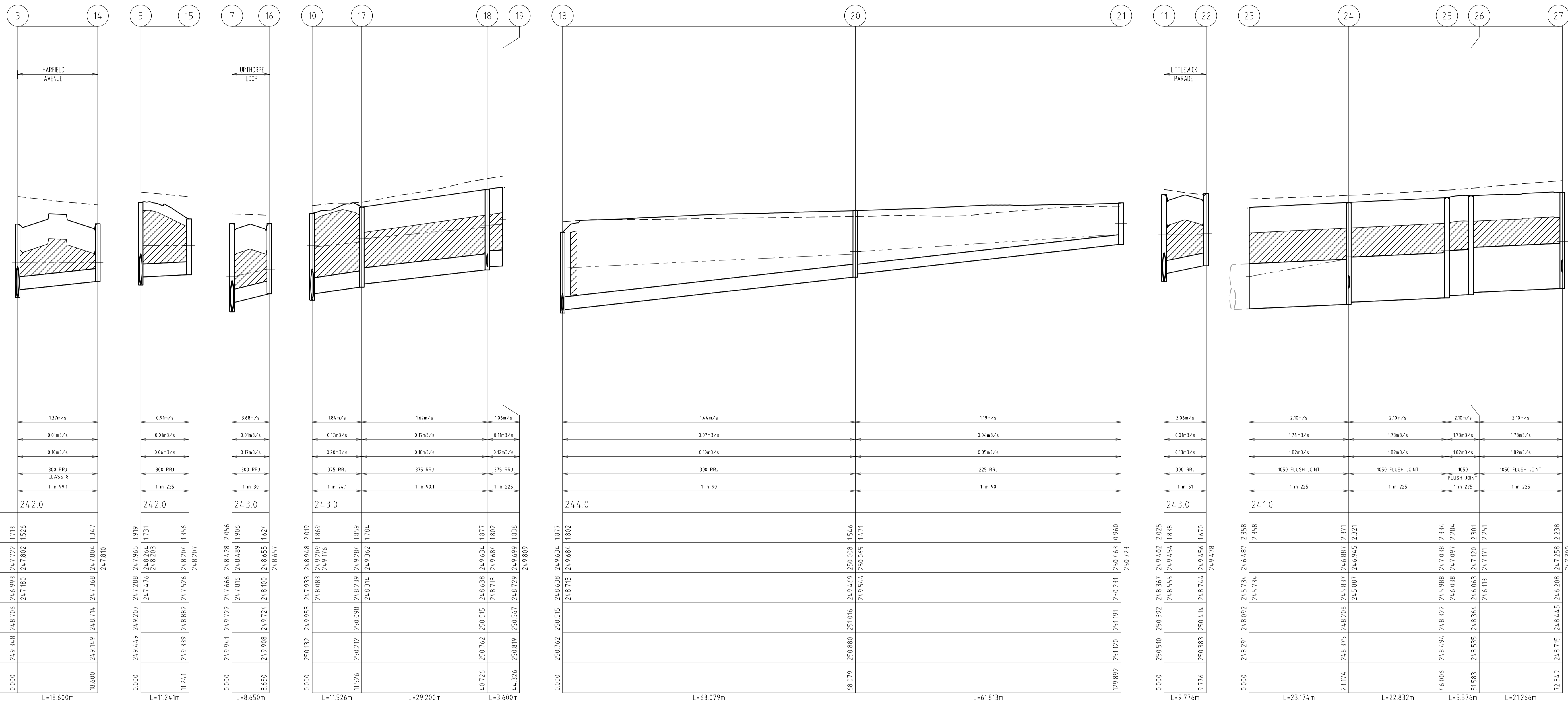
DATUM RL	24.30												
DEPTH FS TO INVERT	1.781	1.781											
HGL LEVEL	24.7219	24.7219	24.7222	24.7222	24.7222	24.7222	24.7222	24.7222	24.7222	24.7222	24.7222	24.7222	24.7222
INVERT	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741	24.6741
FINISHED SURFACE	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522	24.8522
NATURAL SURFACE	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179	24.9179
CHAINAGE	0.000	25.925	45.439	56.370	65.024	79.952	103.048	112.666	115.576	124.226	210.705	244.155	250.148
	L=25.925m	L=19.514m	L=10.931m	L=8.654m	L=14.928m	L=23.096m	L=9.618m	L=2.910m	L=8.650m	L=86.479m	L=33.450m	L=89.506m	

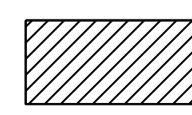
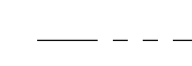
 INDICATES CRUSHED ROCK BACKFILL
 - - - - - INDICATES 5YR HGL

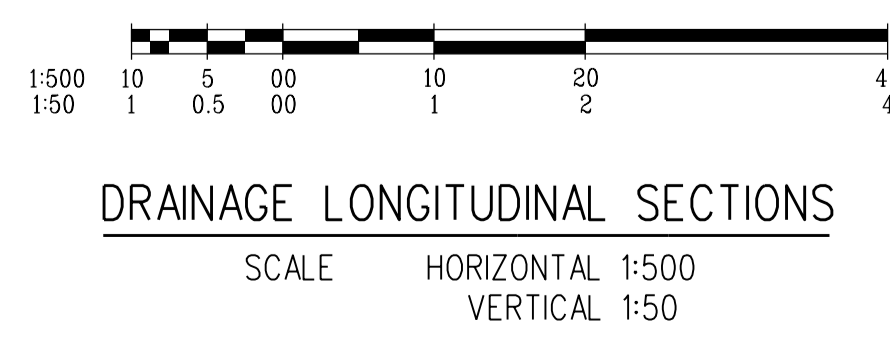


AS CONSTRUCTED

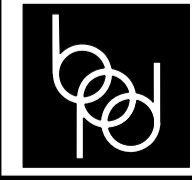
 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN SBS		WARATAH ESTATE STAGE 2 MUNICIPALITY HUME REFERENCE 8711 E/2	
AMENDMENTS A 29-06-16 ISSUED FOR APPROVAL	CHECKED 	SCALE AS SHOWN DATUM AHD DATE FEB'16	SHEET 15 OF 21 A

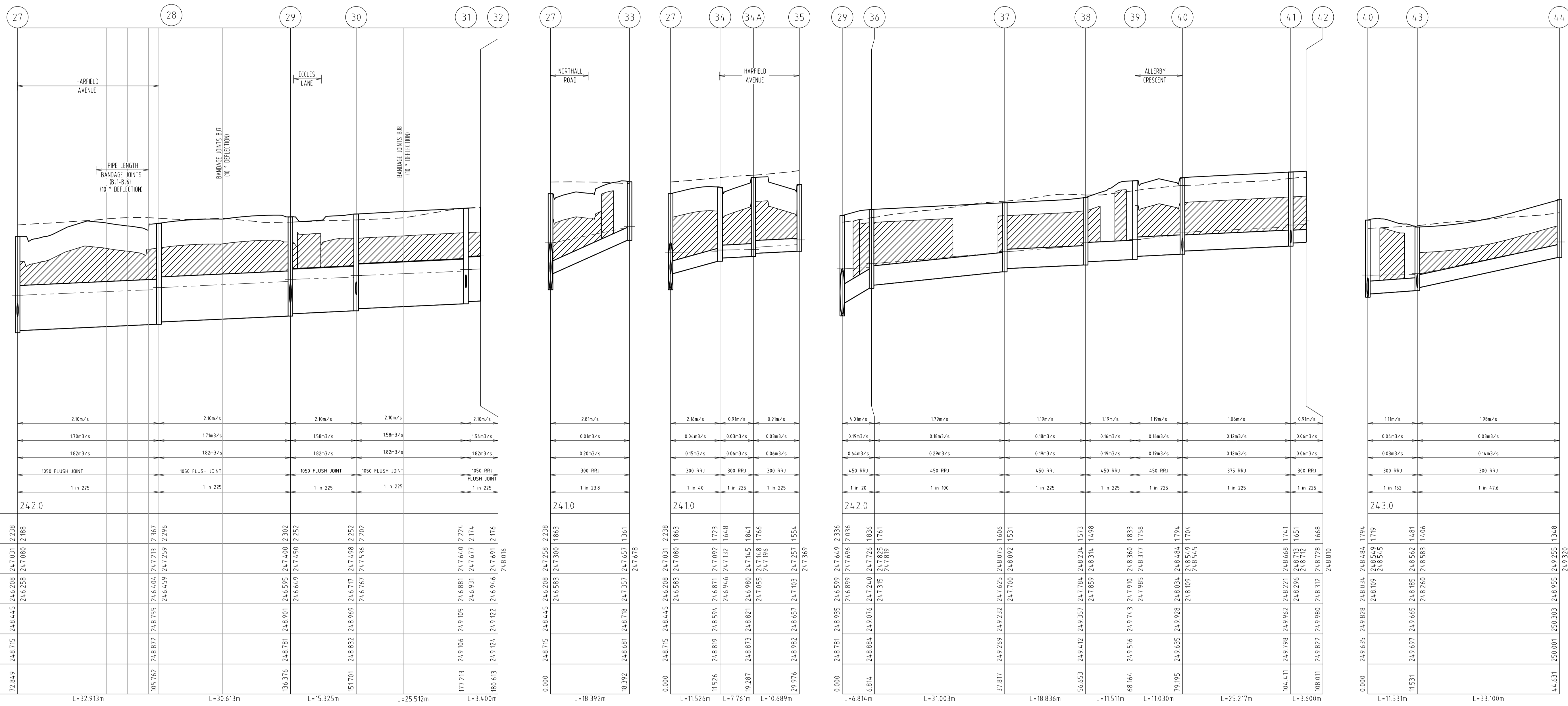


 INDICATES CRUSHED ROCK BACKFILL
 INDICATES 5YR HGL



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	
WARATAH ESTATE STAGE 2		MUNICIPALITY HUME REFERENCE 8711 E/2	
AMENDMENTS A 29-06-16 ISSUED FOR APPROVAL	MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN SBS	SCALE AS SHOWN DATUM AHD DATE FEB'16	SHEET 16 OF 21 A
VER DATE REMARKS	CHECKED	DATE	FILE: 29/06/2016



VELOCITY (m/sec)	DESIGN (m ³ /s)	CAPACITY (m ³ /s)	DIAMETER AND TYPE (CLASS 2)	GRADE	DATUM RL
2.10m/s	170m ³ /s	182m ³ /s	1050 FLUSH JOINT	1 in 225	242.0
2.10m/s	17m ³ /s	182m ³ /s	1050 FLUSH JOINT	1 in 225	
2.10m/s	158m ³ /s	182m ³ /s	1050 FLUSH JOINT	1 in 225	
2.10m/s	158m ³ /s	182m ³ /s	1050 FLUSH JOINT	1 in 225	
2.10m/s	154m ³ /s	182m ³ /s	1050 RRJ FLUSH JOINT	1 in 225	

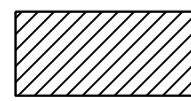
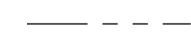
DEPTH FS TO INVERT	HGL LEVEL	INVERT	FINISHED SURFACE	NATURAL SURFACE	CHAINAGE
247.031 2.238	246.208 247.031 2.238	246.258 247.080 2.188	246.445 246.715	248.715	72.849
247.213 2.367	246.404 247.213 2.367	246.459 247.259 2.296	246.755 248.872	248.872	105.762
247.400 2.302	246.595 247.400 2.302	246.649 247.450 2.452	246.901 248.901	248.901	136.376
247.536 2.202	246.717 247.536 2.202	246.767 247.536 2.202	246.832 248.969	248.969	151.701
247.640 2.224	246.881 247.640 2.224	246.931 247.677 2.174	249.106 249.106	249.106	177.213
247.691 2.176	246.946 247.691 2.176	246.976 248.982	249.124 249.124	249.124	180.613

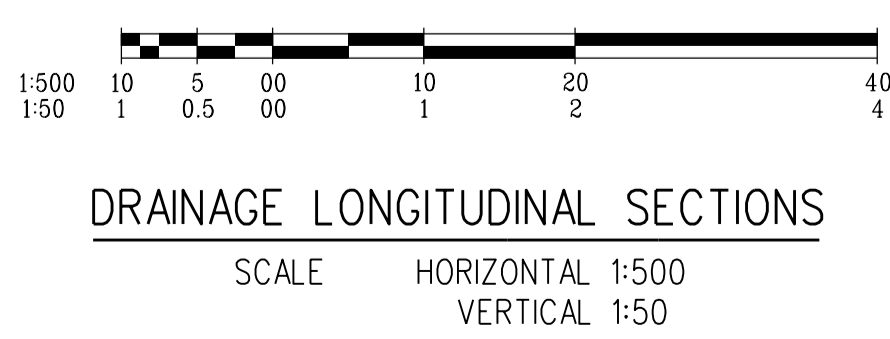
DEPTH FS TO INVERT	HGL LEVEL	INVERT	FINISHED SURFACE	NATURAL SURFACE	CHAINAGE
247.031 2.238	246.208 247.031 2.238	246.258 247.080 2.188	246.445 246.715	248.715	0.000
247.213 2.367	246.404 247.213 2.367	246.459 247.259 2.296	246.755 248.872	248.872	18.392
247.400 2.302	246.595 247.400 2.302	246.649 247.450 2.452	246.901 248.901	248.901	115.526
247.536 2.202	246.717 247.536 2.202	246.767 247.536 2.202	246.832 248.969	248.969	115.526
247.640 2.224	246.881 247.640 2.224	246.931 247.677 2.174	249.106 249.106	249.106	177.213
247.691 2.176	246.946 247.691 2.176	246.976 248.982	249.124 249.124	249.124	180.613

DEPTH FS TO INVERT	HGL LEVEL	INVERT	FINISHED SURFACE	NATURAL SURFACE	CHAINAGE
247.031 2.238	246.208 247.031 2.238	246.258 247.080 2.188	246.445 246.715	248.715	0.000
247.213 2.367	246.404 247.213 2.367	246.459 247.259 2.296	246.755 248.872	248.872	6.814
247.400 2.302	246.595 247.400 2.302	246.649 247.450 2.452	246.901 248.901	248.901	37.817
247.536 2.202	246.717 247.536 2.202	246.767 247.536 2.202	246.832 248.969	248.969	56.653
247.640 2.224	246.881 247.640 2.224	246.931 247.677 2.174	249.106 249.106	249.106	68.164
247.691 2.176	246.946 247.691 2.176	246.976 248.982	249.124 249.124	249.124	79.195


DEPTH FS TO INVERT	HGL LEVEL	INVERT	FINISHED SURFACE	NATURAL SURFACE	CHAINAGE
247.031 2.238	246.208 247.031 2.238	246.258 247.080 2.188	246.445 246.715	248.715	0.000
247.213 2.367	246.404 247.213 2.367	246.459 247.259 2.296	246.755 248.872	248.872	104.411
247.400 2.302	246.595 247.400 2.302	246.649 247.450 2.452	246.901 248.901	248.901	108.011
247.536 2.202	246.717 247.536 2.202	246.767 247.536 2.202	246.832 248.969	248.969	249.320
247.640 2.224	246.881 247.640 2.224	246.931 247.677 2.174	249.106 249.106	249.106	44.631
247.691 2.176	246.946 247.691 2.176	246.976 248.982	249.124 249.124	249.124	250.001

DEPTH FS TO INVERT	HGL LEVEL	INVERT	FINISHED SURFACE	NATURAL SURFACE	CHAINAGE
247.031 2.238	246.208 247.031 2.238	246.258 247.080 2.188	246.445 246.715	248.715	0.000
247.213 2.367	246.404 247.213 2.367	246.459 247.259 2.296	246.755 248.872	248.872	249.320
247.400 2.302	246.595 247.400 2.302	246.649 247.450 2.452	246.901 248.901	248.901	250.001
247.536 2.202	246.717 247.536 2.202	246.767 247.536 2.202	246.832 248.969	248.969	250.001
247.640 2.224	246.881 247.640 2.224	246.931 247.677 2.174	249.106 249.106	249.106	250.001
247.691 2.176	246.946 247.691 2.176	246.976 248.982	249.124 249.124	249.124	250.001

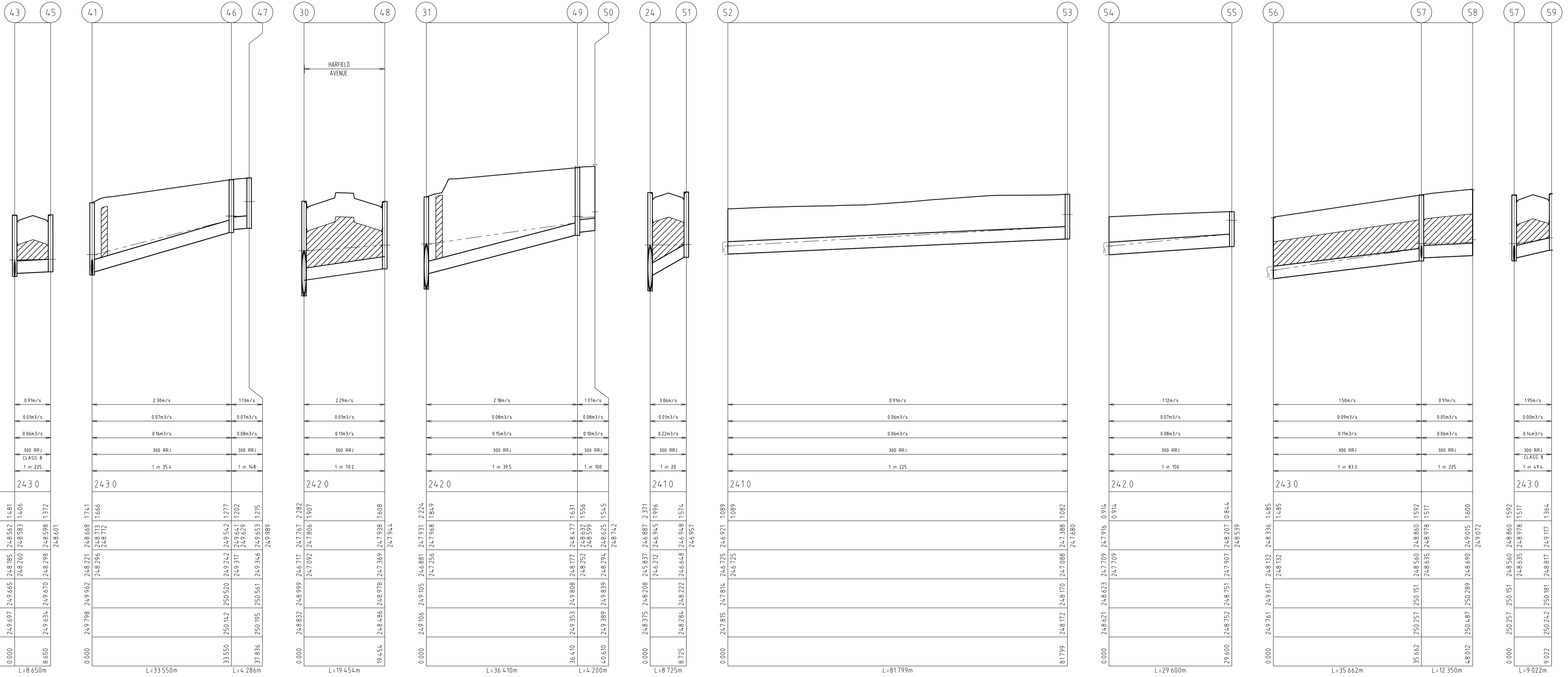
 INDICATES CRUSHED ROCK BACKFILL
 INDICATES 5YR HGL



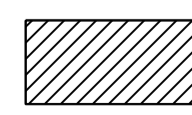
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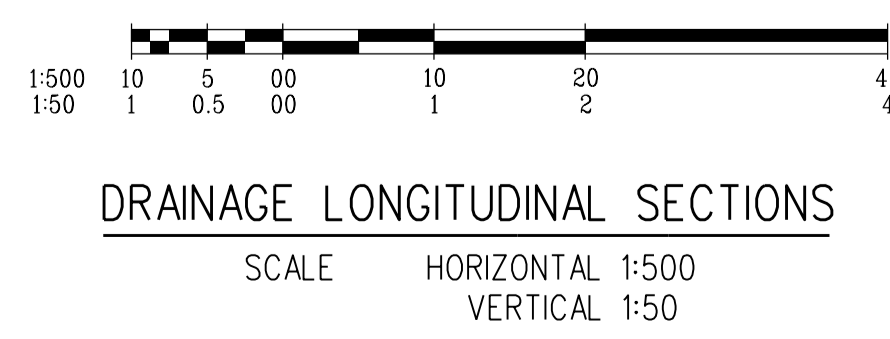
		breese pitt dixon pty. ltd. land surveyors		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 366-E-6 SURVEY BOSCO J		WARATAH ESTATE STAGE 2		MUNICIPALITY HUME	
DESIGN SBS DRAWN SBS				REFERENCE 8711 E/2	
DATE 07.11.16 REMARKS PIT 3HA ADDED		CHECKED		SCALE AS SHOWN DATUM AHD DATE FEB'16	
DATE 29.06.16 REMARKS ISSUED FOR CONSTRUCTION		DATE FEB'16		SHEET 17 OF 22 B	

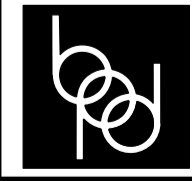

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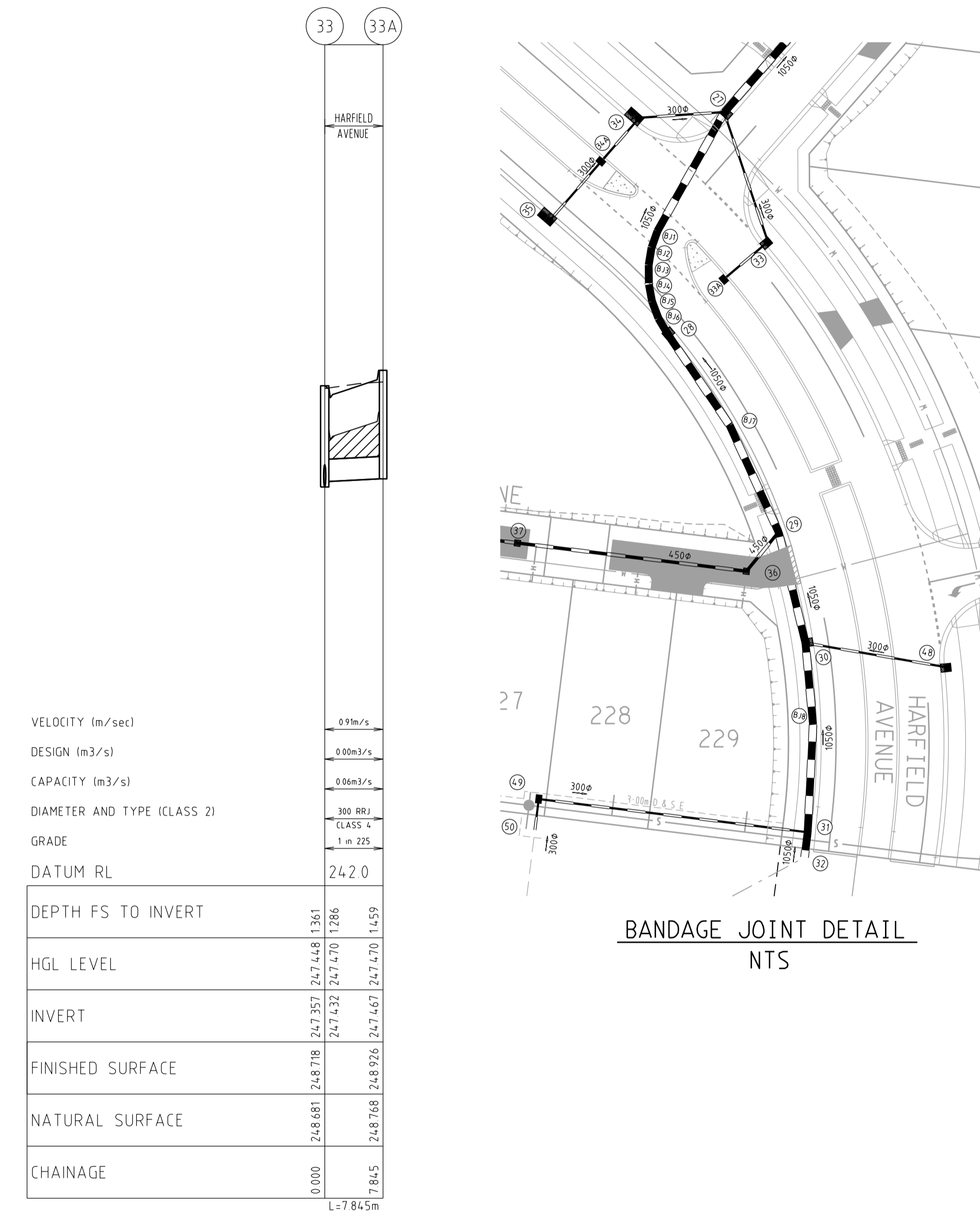
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 INDICATES CRUSHED ROCK BACKFILL
 - - - - - INDICATES 5YR HGL



 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
WARATAH ESTATE STAGE 2		MUNICIPALITY HUME REFERENCE 8711 E/2	
MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN SBS	AMENDMENTS A 29-06-16 ISSUED FOR APPROVAL	CHECKED 	SCALE AS SHOWN DATUM AHD DATE FEB'16
VER DATE REMARKS	SHEET 18 OF 21	A	FILE: 29/06/2016

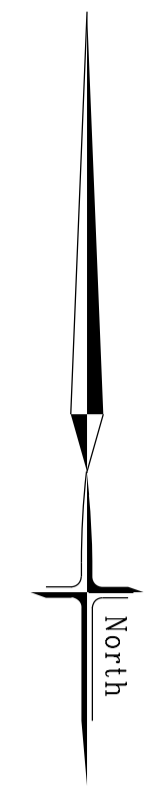
Pit No.	TYPE	INTERNAL		INLET		OUTLET		PIT		SD DRAWINGS	REMARKS
		WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
1	ENDPIPE			750	246.741			248.522	1.781		CONNECT TO EXISTING END PIPE
2	JUNCTION PIT	1050	900	675	246.906	750	246.856	248.637	1.781	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
				300	247.081						
3	JUNCTION PIT	900	900	675	247.043	675	246.993	248.706	1.713	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
				300	247.180						
4	GRATED ENTRY PIT(HB2)	900	900	675	247.202	675	247.152	249.206	2.054	MPA EDCM STD DWG 601	HAUNCHED PIT COVER TO 600X900
5	GRATED ENTRY PIT(HB2)	900	900	675	247.338	675	247.288	249.207	1.919	MPA EDCM STD DWG 601	HAUNCHED PIT COVER TO 600X900
				300	247.476						
6	JUNCTION PIT	900	900	675	247.538	675	247.488	249.428	1.940	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
7	JUNCTION PIT	900	900	675	247.716	675	247.666	249.722	2.056	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
				300	247.816						
8	JUNCTION PIT	900	900	675	247.819	675	247.769	249.936	2.167	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
9	GRATED ENTRY PIT(HB2)	900	900	675	247.885	675	247.835	249.958	2.122	MPA EDCM STD DWG 601	HAUNCHED PIT COVER TO 600X900
10	GRATED ENTRY PIT(HB2)	900	900	675	247.983	675	247.933	249.953	2.019	MPA EDCM STD DWG 601	HAUNCHED PIT COVER TO 600X900
				375	248.083						
11	GRATED ENTRY PIT(HB2)	900	900	600	248.417	675	248.367	250.385	2.018	MPA EDCM STD DWG 601	HAUNCHED PIT COVER TO 600X900
				300	248.555						
12	ENDPIPE					600	248.566	250.552	1.986		
13	JUNCTION PIT	600	900			300	249.587	250.593	1.006	MPA EDCM STD DWG 605	PROVIDE BLOCKOUT IN WEST WALL @IL249.662
14	GRATED ENTRY PIT(SM2)	600	900			300	247.368	248.714	1.347	MPA EDCM STD DWG 603	
15	GRATED ENTRY PIT(HB2)	600	900			300	247.526	248.882	1.356	MPA EDCM STD DWG 601	
16	GRATED ENTRY PIT(HB2)	600	900			375	248.100	249.724	1.624	MPA EDCM STD DWG 601	
17	GRATED ENTRY PIT(HB2)	600	900			375	248.314	248.239	1.859	MPA EDCM STD DWG 601	
18	JUNCTION PIT	600	900			375	248.713	248.638	1.877	MPA EDCM STD DWG 605	
				300	248.713						
19	ENDPIPE					375	248.729	250.567	1.838		
20	JUNCTION PIT	600	900			300	249.544	249.469	1.546	MPA EDCM STD DWG 605	
21	JUNCTION PIT	600	900			300	250.231	251.191	0.960	MPA EDCM STD DWG 605	
22	GRATED ENTRY PIT(HB2)	600	900			300	248.744	250.414	1.667	MPA EDCM STD DWG 601	
23	ENDPIPE			1050	245.734			248.092	2.358		CONNECT TO EXISTING END PIPE
24	GRATED ENTRY PIT(HB2)	1350	900	1050	245.887	1050	245.837	248.208	2.371	MPA EDCM STD DWG 601	HAUNCHED PIT COVER TO 600X900
				300	246.212						
25	JUNCTION PIT	1350	900	1050	246.038	1050	245.988	248.322	2.334	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
26	JUNCTION PIT	1350	900	1050	246.113	1050	246.063	248.364	2.301	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
27	JUNCTION PIT	1350	900	1050	246.258	1050	246.208	248.445	2.238	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
				300	246.583						
				300	246.583						
28	JUNCTION PIT	1350	900	1050	246.459	1050	246.409	248.776	2.367	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
29	JUNCTION PIT	1350	900	1050	246.649	1050	246.599	248.901	2.302	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
				450	246.899						
30	GRATED ENTRY PIT(SM2)	1350	900	1050	246.767	1050	246.717	248.969	2.252	MPA EDCM STD DWG 603	HAUNCHED PIT COVER TO 600X900
				300	247.092						
31	JUNCTION PIT	1350	900	1050	246.931	1050	246.881	249.105	2.224	MPA EDCM STD DWG 607	HAUNCHED PIT COVER TO 600X900
				300	247.256						
32	ENDPIPE					1050	246.946	249.122	2.176		END PIPE FOR FUTURE CONNECTION
33	GRATED ENTRY PIT(SM2)	600	900	300	247.432	300	247.357	248.718	1.361	MPA EDCM STD DWG 603	
33A	JUNCTION PIT	600	900			300	247.467	248.926	1.459	MPA EDCM STD DWG 605	
34	DOUBLE GRATED ENTRY PIT(SM2)	600	900	300	246.946	300	246.871	248.594	1.723	MPA EDCM STD DWG 604	
34A	JUNCTION PIT	600	900	300	247.055	300	246.980	248.821	1.841	MPA EDCM STD DWG 605	
35	DOUBLE GRATED ENTRY PIT(HB2)	600	900			300	247.103	248.657	1.554	MPA EDCM STD DWG 602	
36	GRATED PIT	600	900	450	247.315	450	247.240	249.076	1.836	MPA EDCM STD DWG 605.	PROVIDE GRATED COVER.PROVIDE HEAVY DUTY COVER
37	GRATED PIT	600	900	450	247.700	450	247.625	249.232	1.606	MPA EDCM STD DWG 605.	PROVIDE GRATED COVER.PROVIDE HEAVY DUTY COVER
38	GRATED PIT	600	900	450	247.859	450	247.784	249.357	1.573	MPA EDCM STD DWG 605.	PROVIDE GRATED COVER.PROVIDE HEAVY DUTY COVER
39	GRATED ENTRY PIT(HB2)	600	900	450	247.985	450	247.910	249.743	1.833	MPA EDCM STD DWG 601	PROVIDE HEAVY DUTY COVER
40	GRATED ENTRY PIT(HB2)	600	900	375	248.109	450	248.034	249.828	1.794	MPA EDCM STD DWG 601	
				300	248.109						
41	JUNCTION PIT	600	900	300	248.296	375	248.221	249.962	1.741	MPA EDCM STD DWG 605	
42	ENDPIPE					300	248.312	249.980	1.668		END PIPE FOR FUTURE CONNECTION
43	DOUBLE GRATED ENTRY PIT(HB2)	600	900	300	248.260	300	248.185	249.665	1.481	MPA EDCM STD DWG 602	
				300	248.260						
44	JUNCTION PIT	600	900			300	248.955	250.303	1.348	MPA EDCM STD DWG 605	
45	DOUBLE GRATED ENTRY PIT(HB2)	600	900			300	248.298	249.670	1.372	MPA EDCM STD DWG 602	
46	JUNCTION PIT	600	900	300	249.317	300	249.242	250.520	1.277	MPA EDCM STD DWG 605	
47	JUNCTION PIT	600	900			300	249.346	250.561	1.215	MPA EDCM STD DWG 605	PROVIDE BLOCKOUT IN SOUTH WALL @IL249.421
48	GRATED ENTRY PIT(SM2)	600	900			300	247.369	248.978	1.608	MPA EDCM STD DWG 603	
49	JUNCTION PIT	600	900	300	248.252	300	248.177	249.808	1.631	MPA EDCM STD DWG 605	
50	ENDPIPE					300	248.294	249.839	1.545		END PIPE FOR FUTURE CONNECTION
51	GRATED ENTRY PIT(HB2)	600	900			300	246.648	248.222	1.574	MPA EDCM STD DWG 601	
52	ENDPIPE			300	246.725						CONNECT TO EXISTING END PIPE
53	JUNCTION PIT	600	900			300	247.088	248.170	1.081	MPA EDCM STD DWG 605	
54	ENDPIPE			300	247.709			248.622	0.913		CONNECT TO EXISTING END PIPE
55	JUNCTION PIT	600	900			300	247.907	248.748	0.844	MPA EDCM STD DWG 605	
56	ENDPIPE			300	248.132			249.617	1.485		CONNECT TO EXISTING END PIPE
57	GRATED ENTRY PIT(HB2)	600	900	300	248.635	300	248.560	250.151	1.592	MPA EDCM STD DWG 601	
				300	248.635						
58	ENDPIPE					300	248.690	250.289	1.600		END PIPE FOR FUTURE CONNECTION
59	GRATED ENTRY PIT(HB2)	600	900			300	248.817	250.181	1.364	MPA EDCM STD DWG 601	



BANDAGE JOINT SETOUT DETAILS		
	EASTING	NORTHING
BJ1	314974.942	5843329.878
BJ2	314974.173	5843327.706
BJ3	314973.778	5843325.949
BJ4	314973.810	5843322.753
BJ5	314974.235	5843320.460
BJ6	314975.089	5843318.174
BJ7	314984.588	5843303.949
BJ8	314995.873	5843263.564

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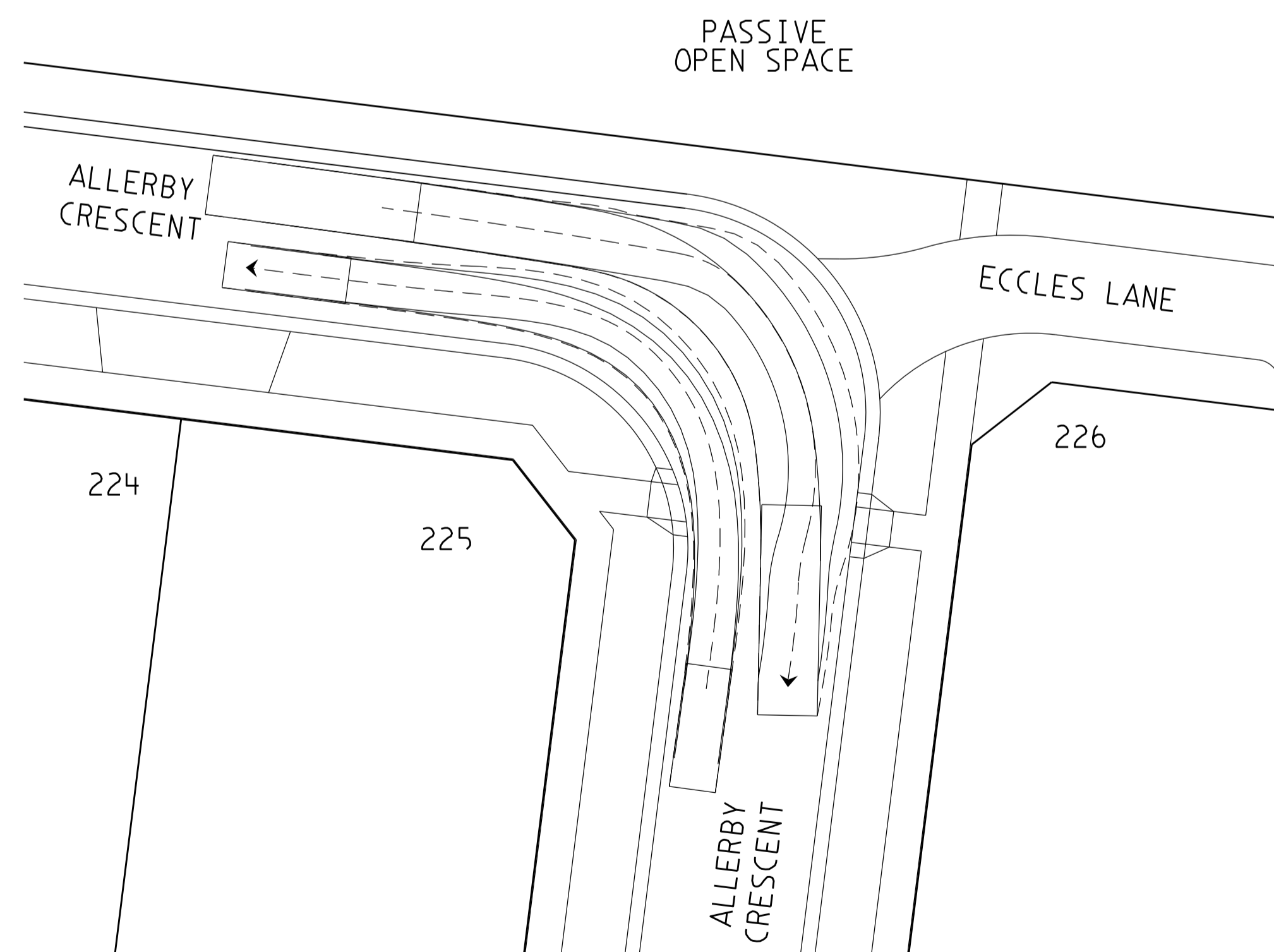
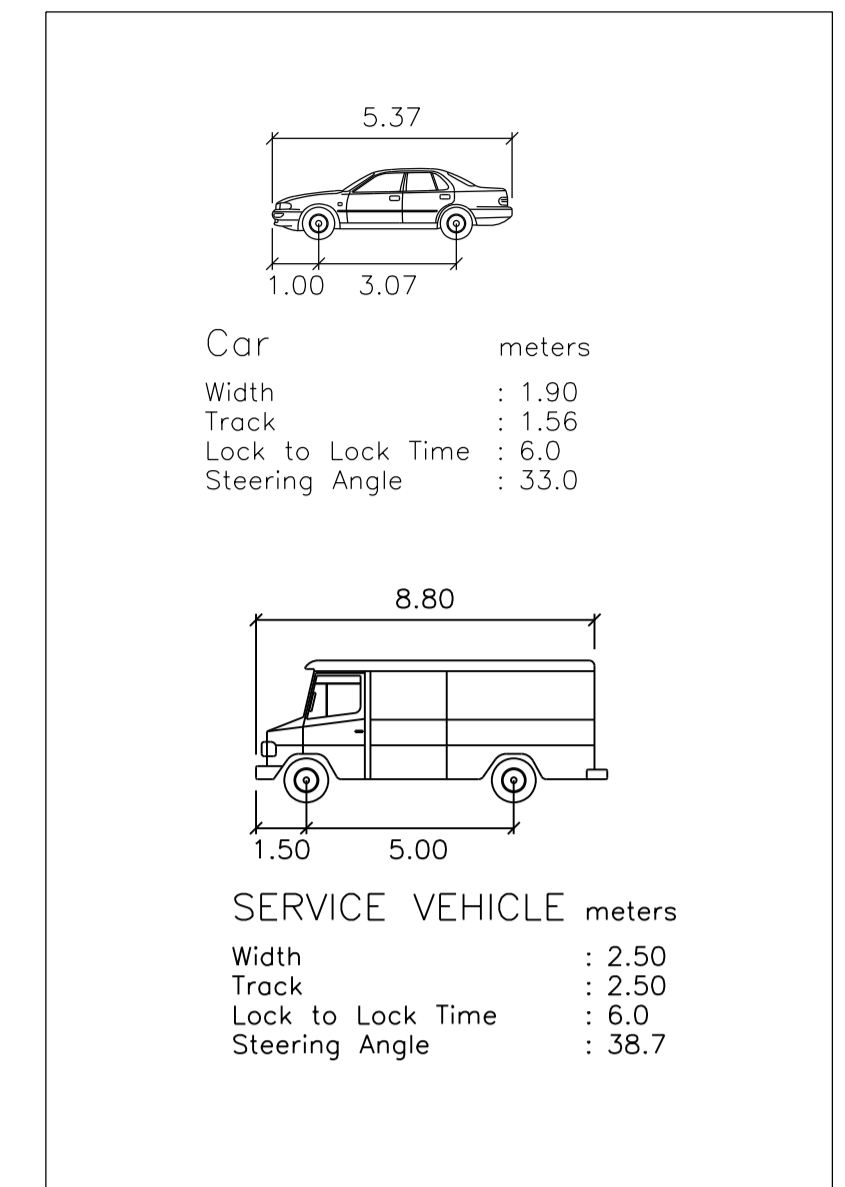
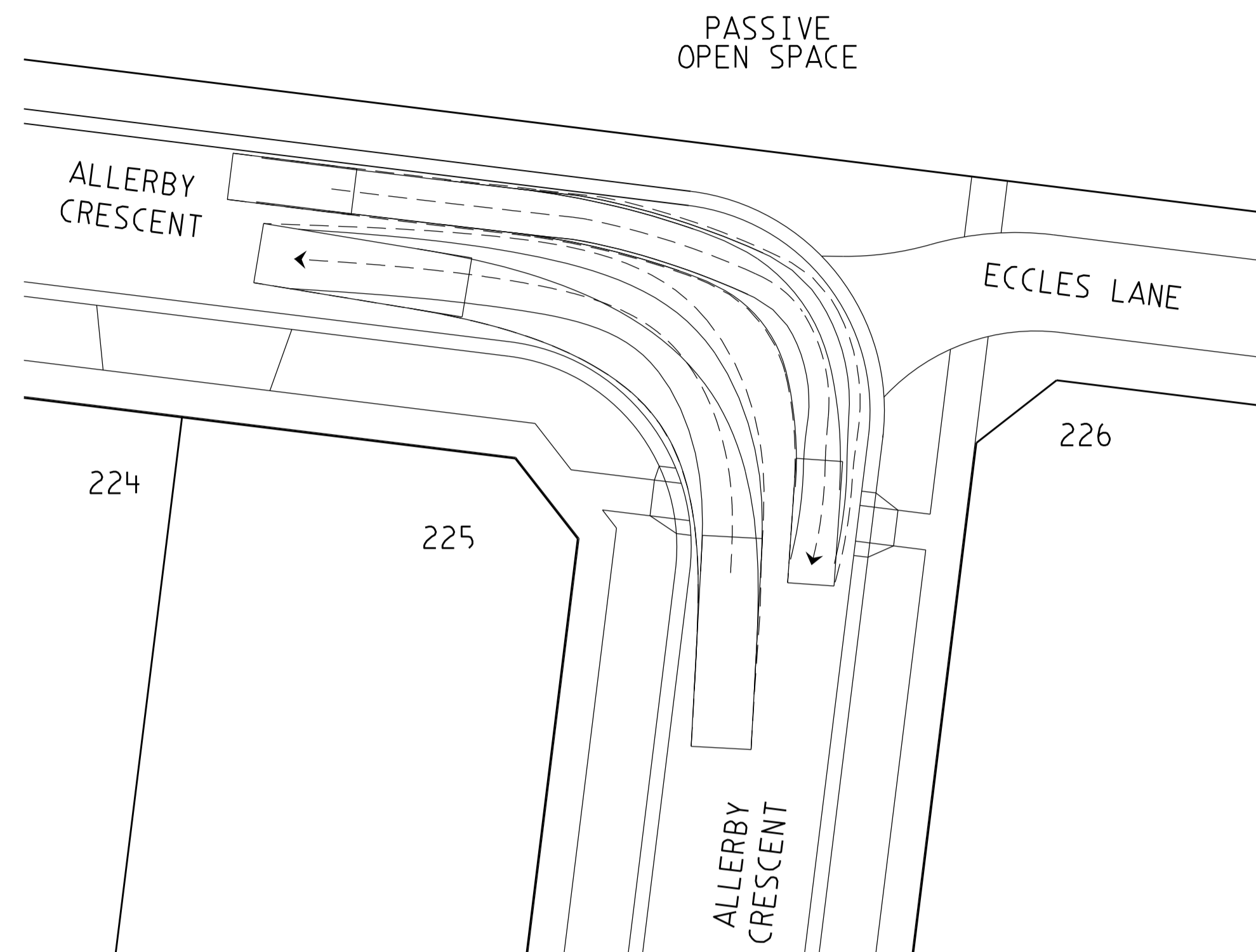
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 366-E-6 SURVEY BOSCO J DESIGN SBS DRAWN SBS		WARATAH ESTATE STAGE 2		MUNICIPALITY HUME REFERENCE 8711 E/2	
AMENDMENTS B 07.11.16 DRAINAGE LONGITUDINAL SECTION 33-33A ADDED A 29.06.16 ISSUED FOR CONSTRUCTION		CHECKED SCALE AS SHOWN DATUM AHD DATE FEB'16		SHEET 19 OF 22 B	



AS CONSTRUCTED

PARKING PLAN
SCALE 1:500

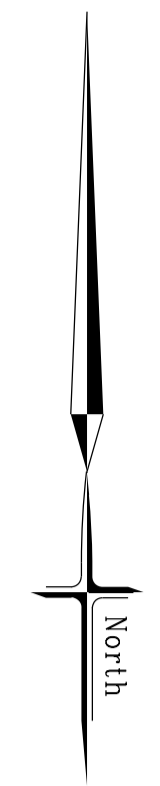
				breese pitt dixon pty. ltd.		1/19 cato street hawthorn east, 3123	
				land surveyors		civil engineers	
		MELWAY REF. 366-E-6		WARATAH ESTATE STAGE 2		MUNICIPALITY	
		SURVEY BOSCO J				HUME	
		DESIGN SBS				REFERENCE	
		DRAWN SBS				8711 E/2	
A 29-06-16 ISSUED FOR APPROVAL						SHEET 20 OF 21	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE FEB'16	A



VEHICLE TURNING PLAN
 SCALE 1:200

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	
				MUNICIPALITY HUME	
		MELWAY REF. 366-E-6		WARATAH ESTATE STAGE 2	
		SURVEY BOSCO J		REFERENCE 8711 E/2	
		DESIGN SBS			
A		29-06-16		ISSUED FOR APPROVAL	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
					DATE FEB'16
				SHEET 21 OF 21	A



EXISTING
STAGE 1

FUTURE
STAGE 3

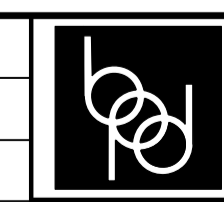
FUTURE
STAGE 10

NOTE: ALL CONDUITS TO BE 100mm PVC. CONDUITS TO BE LAID 150mm BELOW SUBGRADE.

AS CONSTRUCTED

IRRIGATION CONDUIT PLAN

SCALE 1:500



breese pitt dixon pty. ltd.
land surveyors civil engineers

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

WARATAH ESTATE
STAGE 2

MUNICIPALITY
HUME

REFERENCE
8711 E/2

AMENDMENTS	DATE	REMARKS
A	29-06-16	ISSUED FOR CONSTRUCTION
VER		

MELWAY REF.	766-E-6
SURVEY	BOSCO J
DESIGN	SBS
DRAWN	SBS
CHECKED	

SCALE	AS SHOWN	DATUM	AHD	DATE	FEB'16	SHEET	22 OF 22	A
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