

NOTES

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT AND THE CITY OF MELTON AND VPA CURRENT SPECIFICATION AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE CITY OF MELTON WORKS SUPERVISOR.
- COUNCIL TO BE NOTIFIED TWO (2) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES.
- ALL 150mm DIA. PIPES TO BE P.V.C., 300mm TO 750mm DIA. TO BE R.C.(RRJ) AND 825mm DIA. AND GREATER TO BE R.C.(IJJ). PIPES LAYED ON A CURVE TO BE RRJ.
- R.C. PIPES TO BE CLASS 2 & P.V.C PIPES TO BE CLASS SH UNLESS OTHERWISE SPECIFIED.
- WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED CLASS 3 F.C.R. UP TO A LEVEL WHERE THE 45deg. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE. PROVIDE CRUSHED ROCK BACKFILL WHERE DRAINAGE CROSSES BELOW FOOTPATHS.
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO A RELATIVE COMPACTION OF 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - BENEATH THE ROAD OR DRIVEWAY PAVEMENT TO THE UNDERSIDE OF THE PAVEMENT.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE.
 - TRENCHES TO BE BACKFILLED IN LAYERS NOT EXCEEDING 200mm LOOSE.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. MINIMUM COVER TO BE 500mm. REFER GAA STD DWGS EDM703, EDM702, EDM703 & EDM704.
- LOTS DENOTED THUS 25H ARE TO BE PROVIDED WITH A 100mm DIA. HOUSE DRAIN PLACED 5.5m FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. REFER GAA STD DWGS EDM701 & EDM703.
- AGRICULTURAL PIPE DRAINS, AS PER COUNCIL STD DWG MCC202, TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER.
- ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
- LOTS TO BE GRADED (1 in 150 MIN SLOPE) & LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER. FINISHED LEVELS TO BE COMPATIBLE WITH LOTS ADJOINING THIS STAGE.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIAL IS TO BE BURNT ON SITE.
- RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE CITY ENGINEER.
- FILL AREAS IN ALL PROPERTIES AND ROAD RESERVES TO BE STRIPPED OF TOPSOIL & VEGETABLE MATTER, FILLED USING APPROVED CLAY FILL, AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING IS TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS3798-2007, SECTION 8.2, LEVEL 1 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT, FROM A NATA REGISTERED SOIL TESTING LABORATORY, NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- 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.
- BATTERS TO BE 1 IN 6 FOR FILL AND 1 IN 6 FOR CUT UNLESS NOTED OTHERWISE.
- CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION.
- WHERE CUT BATTERS EXCEED 700mm AN ADDITIONAL 300mm BERM SHALL BE FORMED BEHIND FOOTPATH.
- ACCESS RAMPS ARE TO BE CONSTRUCTED WHERE CUT BATTERS EXCEED 1.0m. THEY ARE TO BE GRADED 1 IN 10 FOR THE FIRST 2.5m FROM THE BACK OF PATH AND THEN AT A MAXIMUM OF 1 IN 4 TO NATURAL SURFACE.
- ALL RESIDENTIAL FOOTPATHS SHALL BE 1.5m WIDE (MIN.) AND SHARED PEDESTRIAN/CYCLE PATHS SHALL BE 3.0m (MIN.). CONCRETE PATHS ARE TO BE 125mm THICK REINFORCED WITH SL72 PLACED CENTRALLY AND UNDERLAIN BY 50mm OF CLASS 3 CR. REFER GAA STD DWG EDM401.
- PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER GAA STD DWG EDM403.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER. A TOWN PLANNING PERMIT IS REQUIRED FOR THE REMOVAL OF NATIVE TREES AND OR VEGETATION. THE REMOVAL OR RETENTION OF ANY EXISTING TREES MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN, OR ELSE APPROVAL WILL BE REQUIRED FROM THE MELTON LANDSCAPE APPROVALS OFFICER.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO THE COMMENCEMENT OF WORKS.
- 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.
- TELSTRA/NBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
- ELECTRICAL DISTRIBUTION PITS WITHIN FOOTPATHS ARE TO BE A MINIMUM OF 300mm WITHIN THE EDGE OF THE PATH. CONCRETE IS TO BE PLACED AROUND DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm.
- ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF MELTON STANDARDS INCLUDING LOGO. COURT STREET NAMES ARE TO SHOW COURT NAME ONLY.

- TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.
- ALL DRIVEWAYS ARE TO BE OFFSET 0.60m FROM SIDE BOUNDARYS AND EASEMENTS UNLESS OTHERWISE SHOWN, AND CONSTRUCTED AS PER GAA STD DWGS MCC 501 & MCC 502
- ALL ROADS TO BE CONSTRUCTED WITH KERB & CHANNEL AS SHOWN. REFER GAA STD DWGS EDM301 & EDM302 AND MELTON COUNCIL STD DWGS.
- KERB TRANSITION TO TAKE PLACE IN THE MINOR STREET OVER A 2.0m LENGTH FROM EITHER THE TANGENT POINT OR TP PIT.
- EXISTING ROAD WORKS TO BE RECONSTRUCTED AS REQUIRED TO PROVIDE, WITHOUT DISCONTINUITY, A CONNECTION IN ACCORDANCE WITH DESIGN LEVELS AND GRADES.
- PAVEMENT TO CONSIST OF: REFER THIS SHEET

PAVEMENT NOT TO BE FOUNDED ON CLAYEY SILT OR UNCONTROLLED FILL MATERIAL SUBGRADE. PAVEMENT TO BE AS PER SPECIFICATIONS OF CARDNO GEOTECHNICAL INVESTIGATION 215255 REPORT 01.2, MARCH 2016

EARTHWORKS MATERIALS TO BE USED AS "SELECT GRANULAR MATERIAL" MUST HAVE A SOAKED CBR OF MORE THAN 10% WITH A SWELL OF LESS THAN 1.5%, A LIQUID LIMIT OF LESS THAN 50%, A PLASTICITY INDEX (PI) OF LESS THAN 25% AND A P_t x % LESS THAN 0.425mm OF LESS THAN 1200. THIS MATERIAL SHOULD ALSO HAVE A HYDRAULIC CONDUCTIVITY OF LESS THAN 1 x 10⁻⁹ m/s MEASURED AT OMC PLUS OR MINUS 5% AND COMPACTED TO A STANDARD DRY DENSITY RATIO OF 98% PLUS OR MINUS 1%. THIS LAYER SHOULD BE A MINIMUM OF 150mm THICK OR AT LEAST 2.5 TIMES THE MAXIMUM PARTICLE SIZE IN THE LAYER. THE MATERIAL USED MUST MEET THE REQUIREMENTS OF BOTH THE SUPERINTENDANT AND THE RELEVANT COUNCIL.

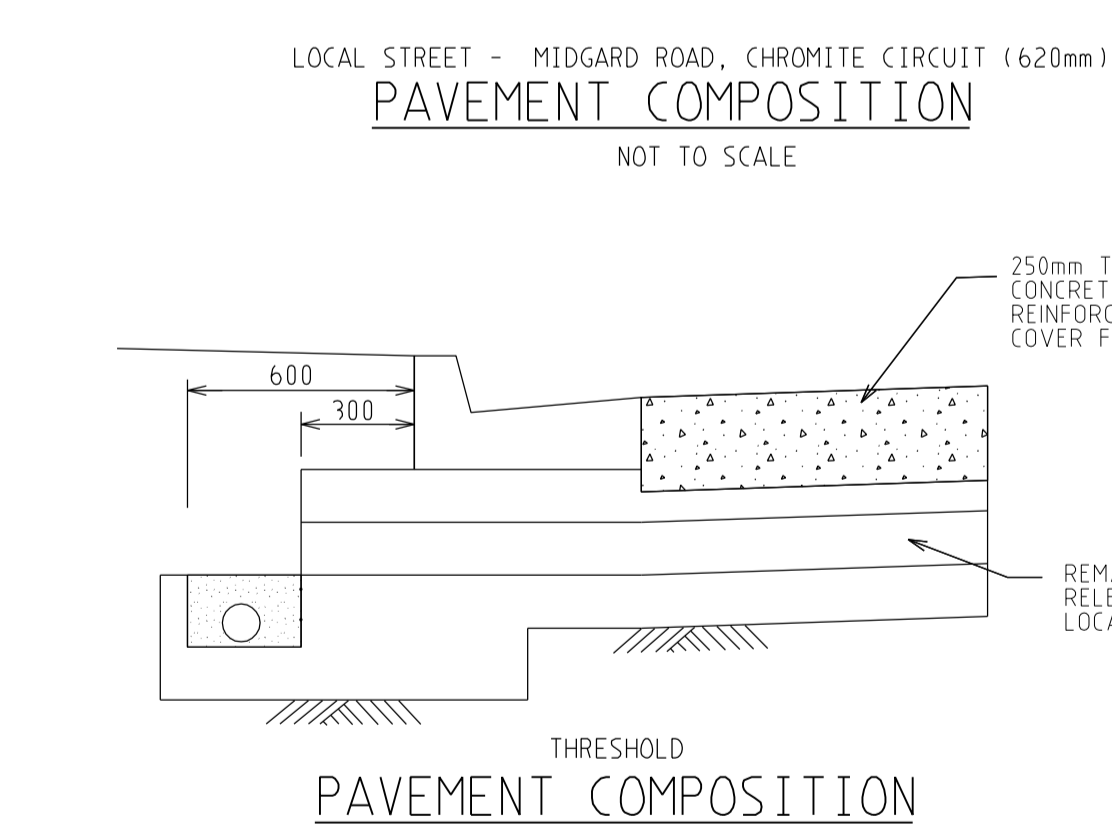
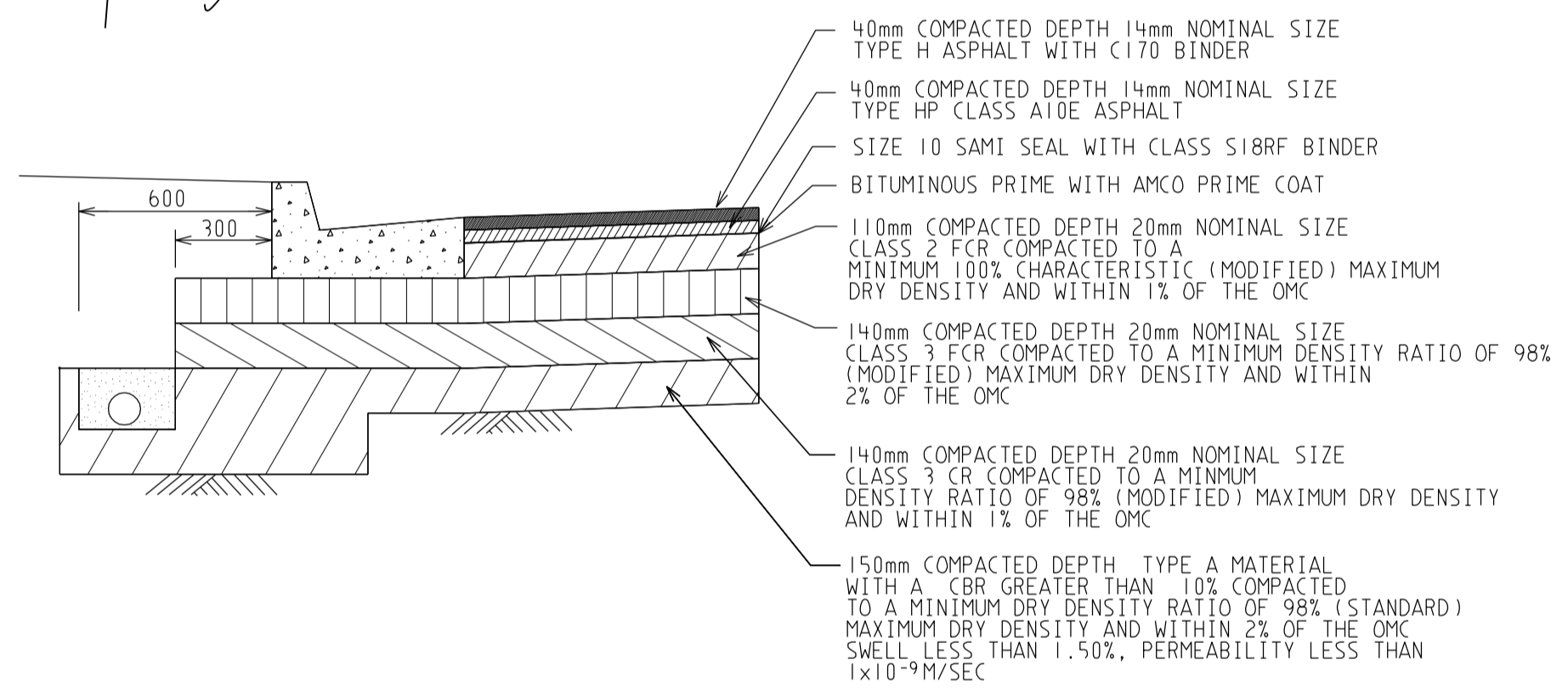
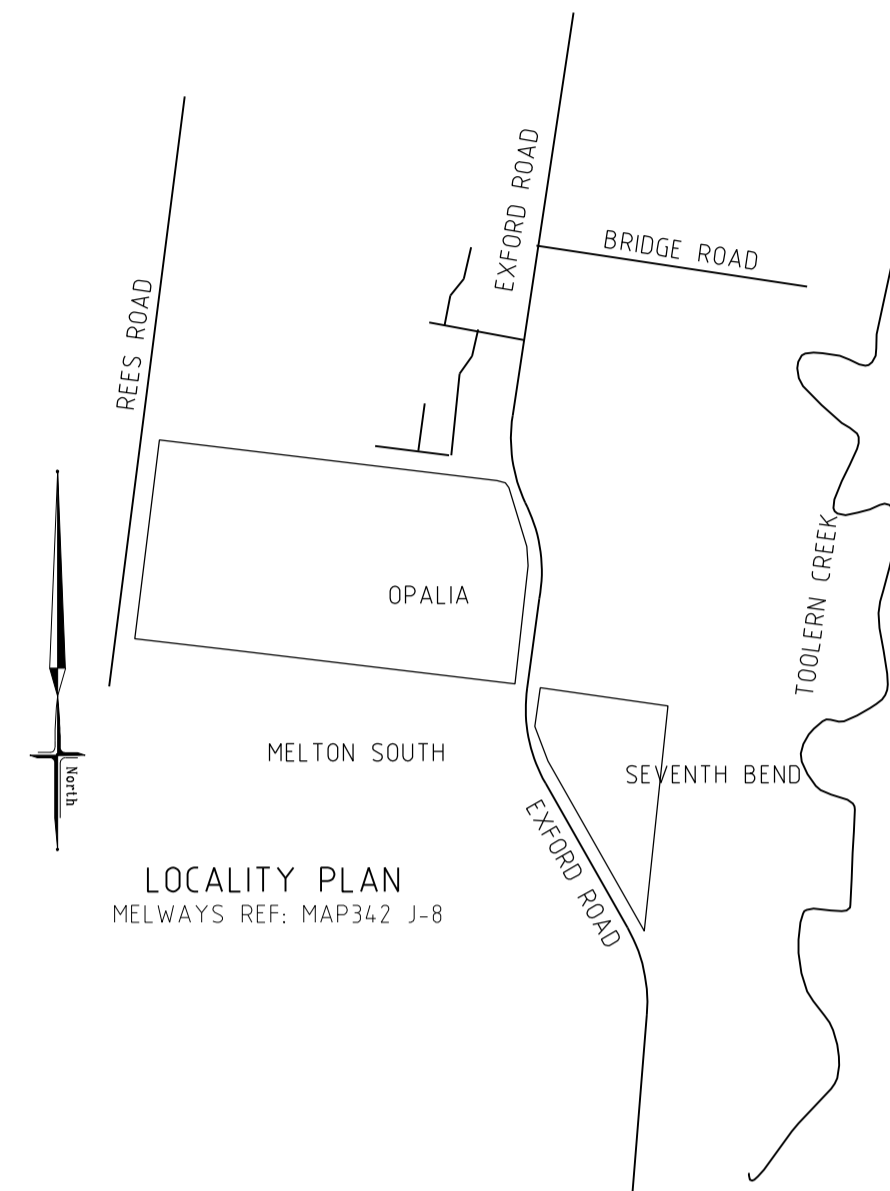
"SELECT GRANULAR MATERIAL" IS TO EXTEND TO A DISTANCE OF AT LEAST 1.0m BEHIND THE BACK OF KERB.

IN THE EVENT THAT SELECT GRANULAR MATERIAL CAN NOT ACHIEVE A CBR OF 10% IN SITU STABILISATION IS REQUIRED TO ACHIEVE 10% C.B.R. TO A MINIMUM DEPTH OF 300mm FOR ALL ROAD PAVEMENTS.

SPEED HUMP INFILLS SHOWN THUS  TO CONSIST OF:

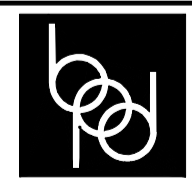
- 200mm THICK 32MPa CHARCOAL COLOURED CONCRETE IN GREY CEMENT WITH 6% BLACK OXIDE COLOUR TO BE ADDED TO AGGREGATE PRIOR TO POURING CONCRETE SL72 MESH PLACED CENTRALLY.
- 100mm THICK COMPACTED FCR BEDDING OR TO ROAD BASE COURSE

- MODIFICATION OF THE PAVEMENT REQUIRES APPROVAL BY THE CITY OF MELTON WORKS SUPERVISOR.
- EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.
- 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-INSTATEMENT AT THE CONTRACTORS EXPENSE.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- PROVIDE PAINTED PALING FENCE ALONG ANY BOUNDARY COMMON TO LOTS & MUNICIPAL RESERVES AS PER MELTON COUNCIL. PALINGS TO BE ON THE RESERVE SIDE.
- PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD DWG 7251/4/203) ALONG EXTENT OF OUTFALL DRAIN WHERE THE DRAIN IS GREATER THAN 1.5m IN DEPTH AND SIDE SLOPES ARE STEEPER THAN 1 IN 3. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.
- A TEMPORARY FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES. NOMINATED TO BE RETAINED, AT ALL TIMES DURING CONSTRUCTION. FOR FENCING DETAILS AND CONSTRUCTION WORKS WITHIN THE "TREE PROTECTION ZONE" REFER TO THE ARBORICULTURAL INSPECTION REPORT BY A & R TREE SURGEONS (18th MARCH 2003).
- CONTRACTOR TO REMOVE EXISTING IRRIGATION AND DRAINAGE PIPES AND PITS ENCOUNTERED ON SITE. TRENCHES TO BE BACKFILLED IN ACCORDANCE WITH NOTES 16 & 17.
- TACTILE GROUND SURFACE INDICATORS (TGS1) ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS. REFER GAA STD DWG EDM403.
- MAXIMUM CROSSFALL ON FOOTPATHS TO BE 1in50 (30mm FOR 1.50m PATH)
- AS CONSTRUCTED PLANS AND ELECTRONIC ASSET INFORMATION IN D-SPEC AND R-SPEC FORMAT MUST BE SUBMITTED TO COUNCIL PRIOR TO PRACTICAL COMPLETION
- DELETED
- THE CROSSOVERS MUST BE PROVIDED A MINIMUM OF 3.50m WIDTH AND MAXIMUM GRADE OF 1in10
- TEMPORARY CRUSHED ROCK TURN AROUND AREAS MUST BE MAINTAINED IN A SAFE AND SOUND CONDITION SO THAT VEHICLES ARE ABLE TO USE THEM AT ALL TIMES



SHT No.	VER	DESCRIPTION
1	C	GENERAL NOTES, PAVEMENT DETAILS, DRAWING SCHEDULE, LOCALITY PLAN
2	C	LAYOUT PLAN
3	A	TYPICAL CROSS SECTIONS AND THRESHOLD DETAIL
4	C	INTERSECTION DETAILS
5	A	MIDGARD ROAD LONGITUDINAL AND CROSS SECTIONS
6	A	MIDGARD ROAD CROSS SECTIONS
7	A	CHROMITE CIRCUIT LONGITUDINAL SECTION
8	A	CHROMITE CIRCUIT CROSS SECTIONS
9	A	CHROMITE CIRCUIT CROSS SECTIONS
10	A	STORMWATER DRAINAGE LONGITUDINAL SECTIONS
11	B	SIGNAGE AND LINE MARKING PLAN

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
MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK		MUNICIPALITY MELTON
OPALIA ESTATE STAGE 2 GENERAL NOTES, PAVEMENT DETAILS, DRAWING SCHEDULE AND LOCALITY PLAN		REFERENCE 6751 E/2
AMENDMENTS C 10.02.20 SHEET INDEX AMENDED B 16.12.19 SHEET INDEX AMENDED A 2.11.19 CONSTRUCTION ISSUE	VER DATE REMARKS CHECKED	SCALE AS SHOWN DATUM AHD DATE SEPT. 18 SHEET 1 OF 11 C

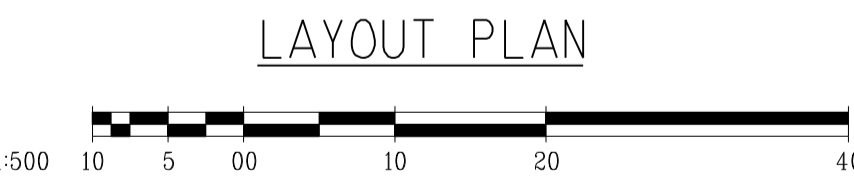


BOLLARDS

1. TRAFFIC EXCLUSION TREATMENTS ARE DETAILED ON THE LANDSCAPE PLANS TO THE SATISFACTION OF MELTON CITY COUNCIL, SUPPLY 1xREMOVABLE BOLLARD IN AREAS NOTED
2. TEMPORARY FENCING IS TO BE INSTALLED ALONG FRONTAGE WITH EXFORD ROAD AT CIVIL PRACTICAL COMPLETION UNTIL ULTIMATE BOLLARDS ARE INSTALLED BY LANDSCAPER

WARNING

BWARE 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



AS CONSTRUCTED

SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd.RESERVE	WATER	GAS	ELECTRICITY CABLES	POLES	FIBRE TO THE HOME CABLES	Bk. OF KERB	JOINT TRENCHING
MIDGARD ROAD	16-00	2-60 N	2-10 N	2-90 S	0-90 BOK	2-20 S	1-85 S 1-80 M 4-20	E, T/G, W
CHROMITE CIRCUIT LOTS 232 - 240	16-00	2-40 W	1-90 W	2-60 E	0-90 BOK	1-85 E	1-85 E 4-35 W 4-20 N	E, T/G, W
CHROMITE CIRCUIT LOTS 240 - 241	14-50	1-50 S	1-00 S	2-60 N	0-90 BOK	1-85 N	2-30 N 2-70 S 4-35 W	E, T/G, W
CHROMITE CIRCUIT LOTS 241 - 249	14-00-16-00	2-40 W	1-90 W	0-50 E 2-50 E	0-90 BOK	1-90 E	1-75 W 0-5-1-9 E 2-05-4-05 E	E, T/G, W
RESERVE 4	8-00	-	-	-	-	1-00 W	-	-

SYMBOL LEGEND

Drains	Ex/Natural/FS Level	+528-517
Sewer <300	FS @ Building Line	BL28-510
Sewer >300	Top/Toe of Batter	1028-510
Water	Top Ret. Wall Level	1028-510
House Drain	100yr Flood Level	FL28-517
Property Inlet		
Street Sign		
PSM		
Retaining Wall		
Conduits 50mm		
Conduits 100mm		
Ex Gas/Elect/Tel		
Passive Irrigation Treatment		

VER	DATE	REMARKS
C	10.02.20	RESERVE PATHS AMENDED
B	16.12.19	SERVICE CONDUITS AMENDED
A	2.11.19	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
 land surveyors civil engineers

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

**OPALIA ESTATE
 STAGE 2**

MELWAY REF. 742-J-7
 SURVEY B.P.D.
 DESIGN RK
 DRAWN RK

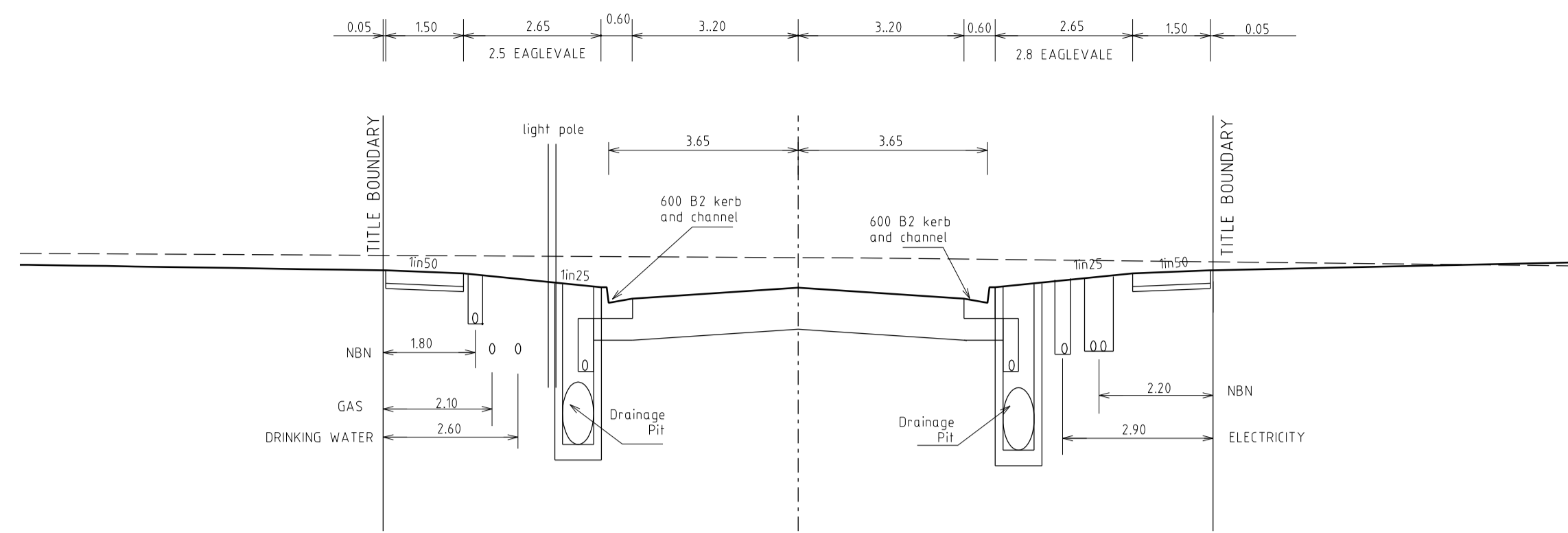
LAYOUT PLAN

SCALE AS SHOWN DATUM AHD DATE SEPT. 18 SHEET 2 OF 11

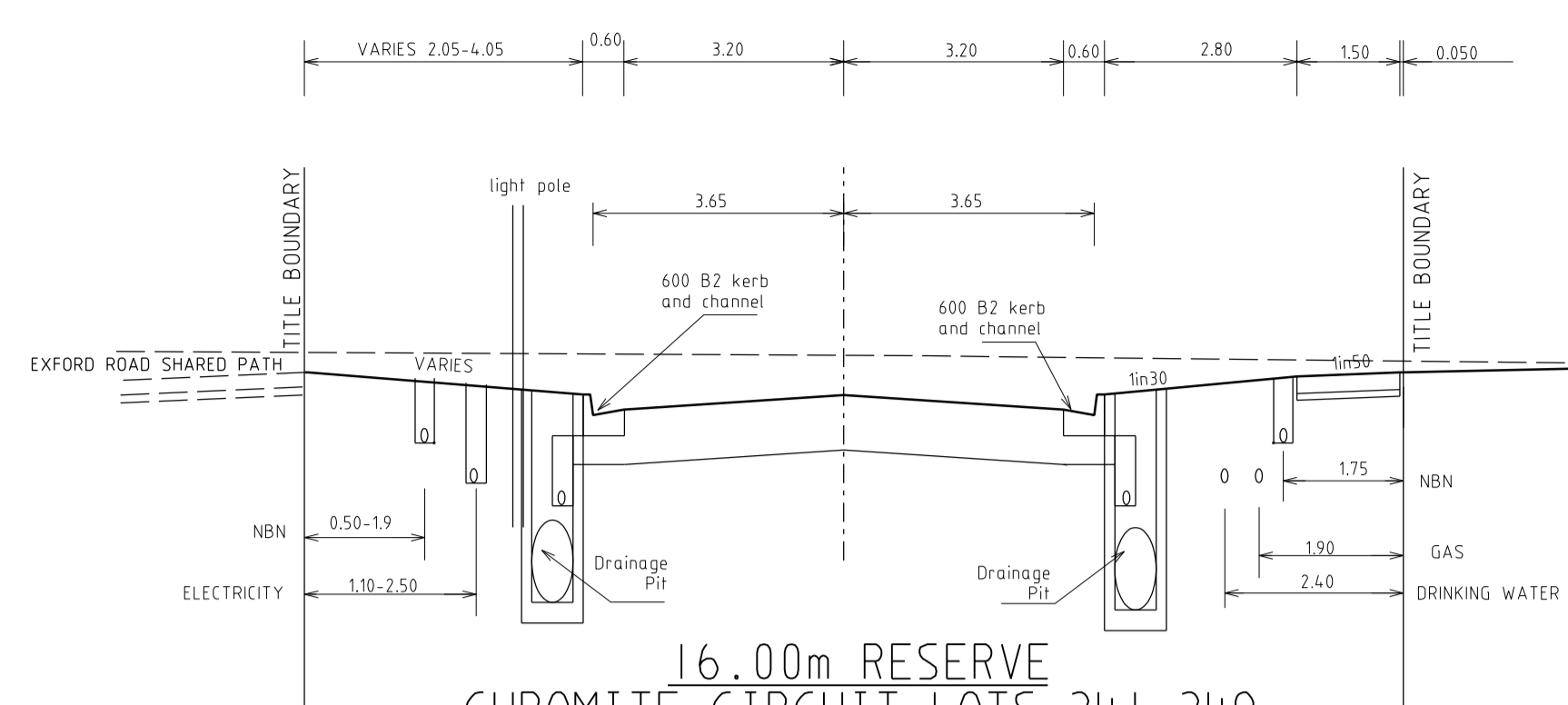
MUNICIPALITY MELTON REFERENCE 6751 E/2

PIT SCHEDULE

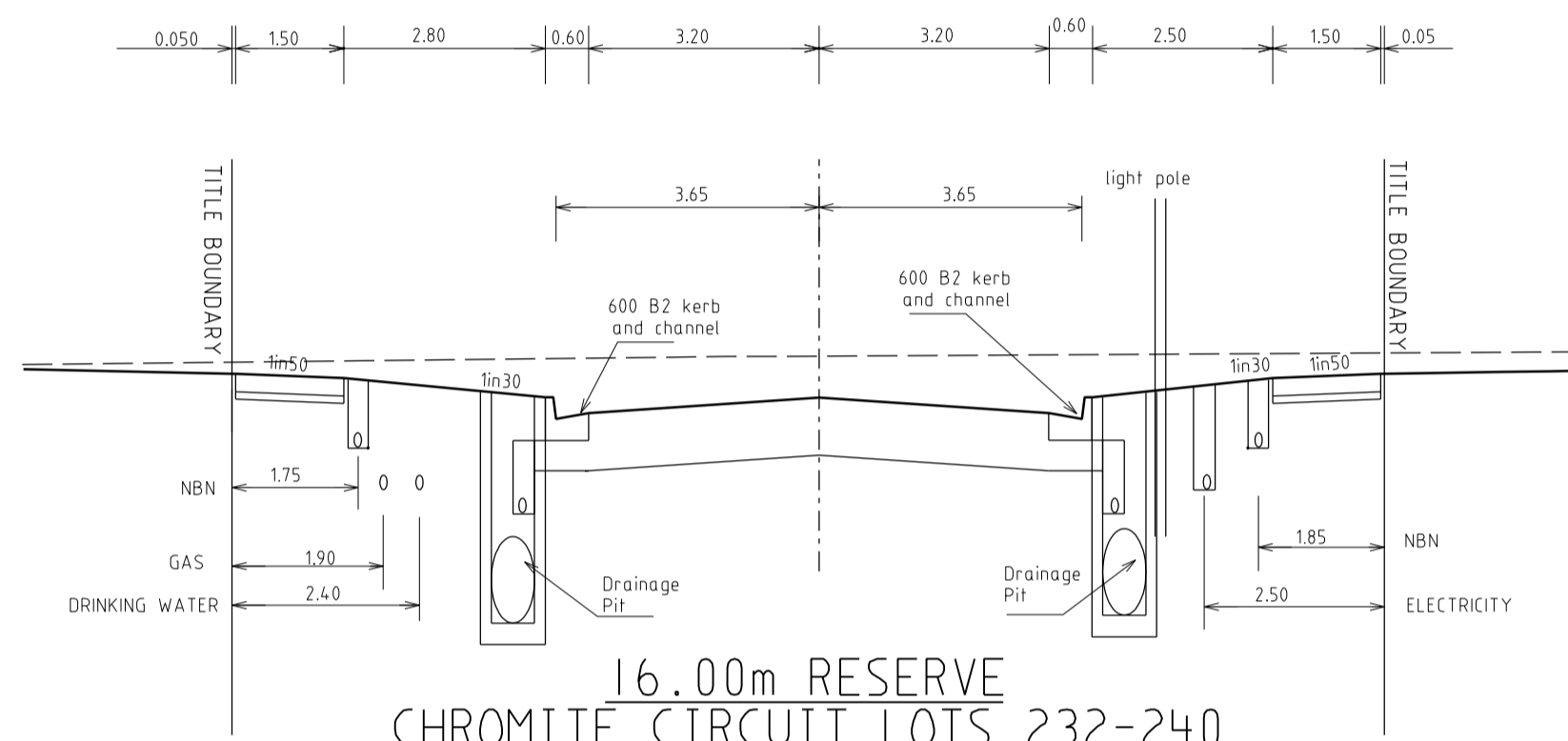
PIT No.	PIT TYPE	SIZE L x W	INLET DIA	INLET I.L.	OUTLET DIA	OUTLET I.L.	COVER LEVEL	PIT DEPTH	REMARKS
1	J.P.	S 900x600 H 900x900	Ex525	105.005	Ex525	104.955	107.193	2.238	EDCM 605, REMOVE TEMPORARY COVER CONSTRUCT TOP OF PIT TO MATCH PROPOSED KERB
2	J.P.	S 900x600 H 900x900	Ex525	105.150	Ex525	105.100	107.145	2.045	EDCM 605, REMOVE TEMPORARY COVER CONSTRUCT TOP OF PIT TO MATCH PROPOSED KERB
3	D.G.S.E.P.	S 900x600 H 900x900	Ex525 300	105.198 105.423	Ex525	105.198	107.077	1.879	EDCM 602/605 CONSTRUCT PIT OVER EXISTING PIPE
4	J.P.	S 900x600 H 900x900	Ex300	105.650	Ex525	105.425	107.368	1.938	EDCM 605, REMOVE TEMPORARY COVER, CONSTRUCT TOP OF PIT TO MATCH PROPOSED KERB
5	EX J.P.	900x600	300	106.500	300	106.200	107.568	1.368	EDCM 605 CONSTRUCT TOP OF PIT TO MATCH FINISHED SURFACE
6	D.G.S.E.P.	900x600	-	-	300	105.508	107.633	2.125	EDCM 602/605
7	G.S.E.P.	S 900x600 H 900x900	525 300	105.570 105.745	525	105.520	107.672	2.152	EDCM 601/605 HAUNCH PIT EDCM 607
8	G.S.E.P.	S 900x600 H 900x900	525	105.645	525	105.595	107.666	2.071	EDCM 601/605 HAUNCH PIT EDCM 607
9	G.S.E.P.	S 900x600 H 900x900	450 300	105.750 105.900	525	105.675	107.720	2.045	EDCM 601/605 HAUNCH PIT EDCM 607
10	G.S.E.P.	900x600	450 300	105.825 105.925	450	105.775	107.720	1.945	EDCM 601/605
11	G.S.E.P.	900x600	375	106.125	450	106.050	107.941	1.891	EDCM 601/605
12	J.P.	900x600	Ex300	106.400	375	106.325	108.165	1.840	EDCM 605 REMOVE TEMP ENDWALL CONSTRUCT PIT OVER EXISTING PIPE
13	G.S.E.P.	900x600	-	-	300	106.185	107.488	1.303	EDCM 601/605
14	G.S.E.P.	900x600	300	106.325	300	106.275	107.941	1.666	EDCM 601/605
15	J.P.	900x600	-	-	300	106.685	108.342	1.657	EDCM 605
16	G.S.E.P.	900x600	300	106.035	300	105.985	107.861	1.876	EDCM 601/605
17	G.S.E.P.	900x600	-	-	300	106.320	107.529	1.209	EDCM 601/605
18	END PIPE	-x-	-	-	300	105.700	107.236	1.536	PIPE TO CONNECT TO WORKS WITHIN SOUTHERN DEVELOPMENT INVERT LEVEL TO BE CONFIRMED
19	J.P.	900x600	300	105.780	300	105.730	107.298	1.568	EDCM 605
20	J.P.	900x600	-	-	300	105.825	107.301	1.476	EDCM 605
21	EX J.P.	-x-	Ex1350 300	103.520 104.520	Ex1350	103.470	107.450	3.461	CONNECT TO EXFORD ROAD PIT AND MAKE GOOD
22	D.G.S.E.P.	900x600	300	104.620	300	104.570	107.450	2.880	EDCM 602/605
23	D.G.S.E.P.	900x600	300	104.715	300	104.665	107.510	2.845	EDCM 602/605
24	D.G.S.E.P.	900x600	300	105.050	300	105.000	106.998	1.998	EDCM 602/605
25	D.G.S.E.P.	900x600	-	-	300	105.095	107.037	1.942	EDCM 602/605
26	J.P.	900x600	-	-	300	105.350	107.652	2.302	EDCM 605



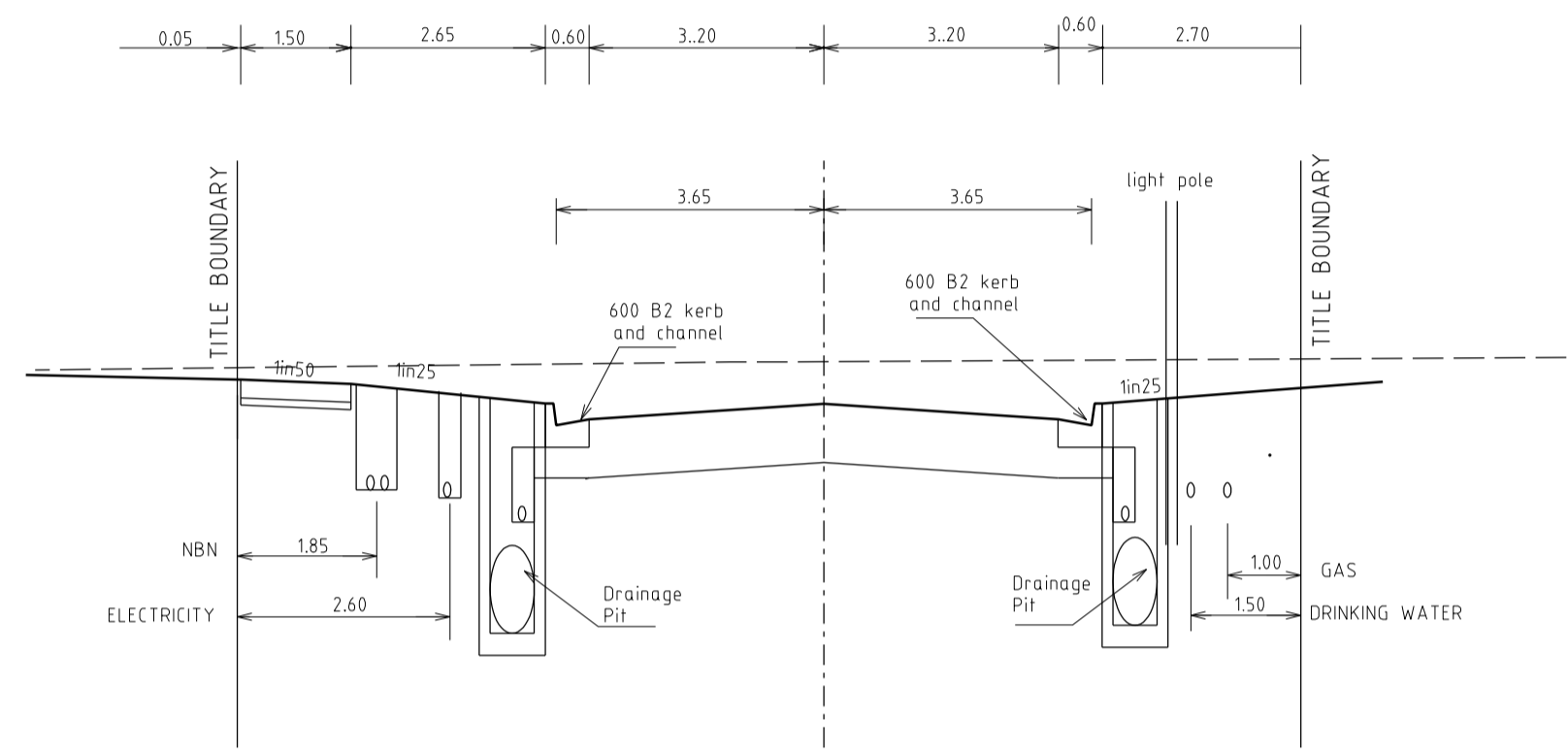
16.00m RESERVE
MIDGARD ROAD



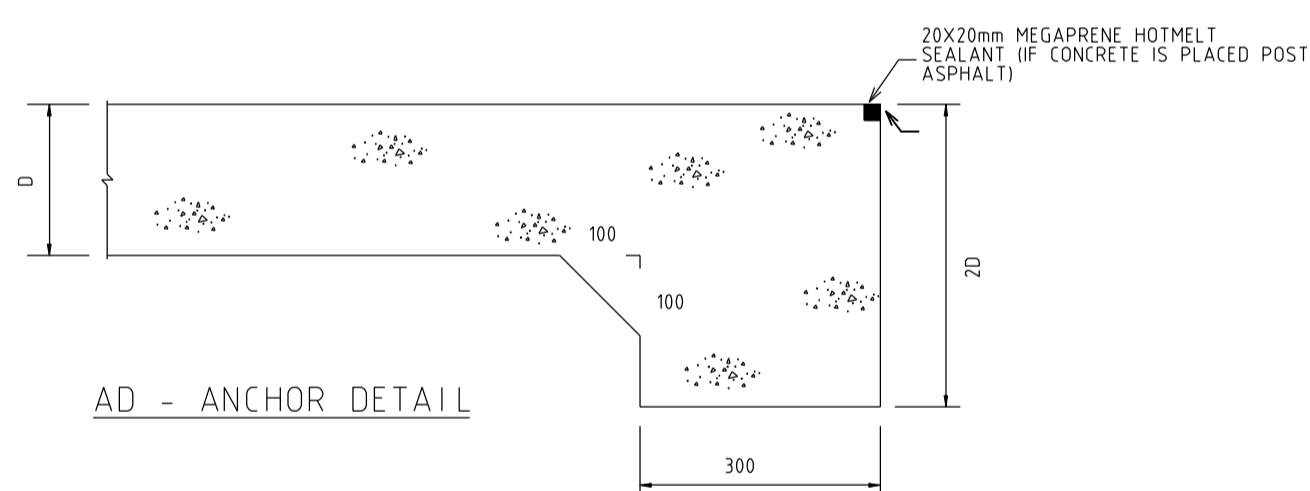
16.00m RESERVE
CHROMITE CIRCUIT LOTS 241-249



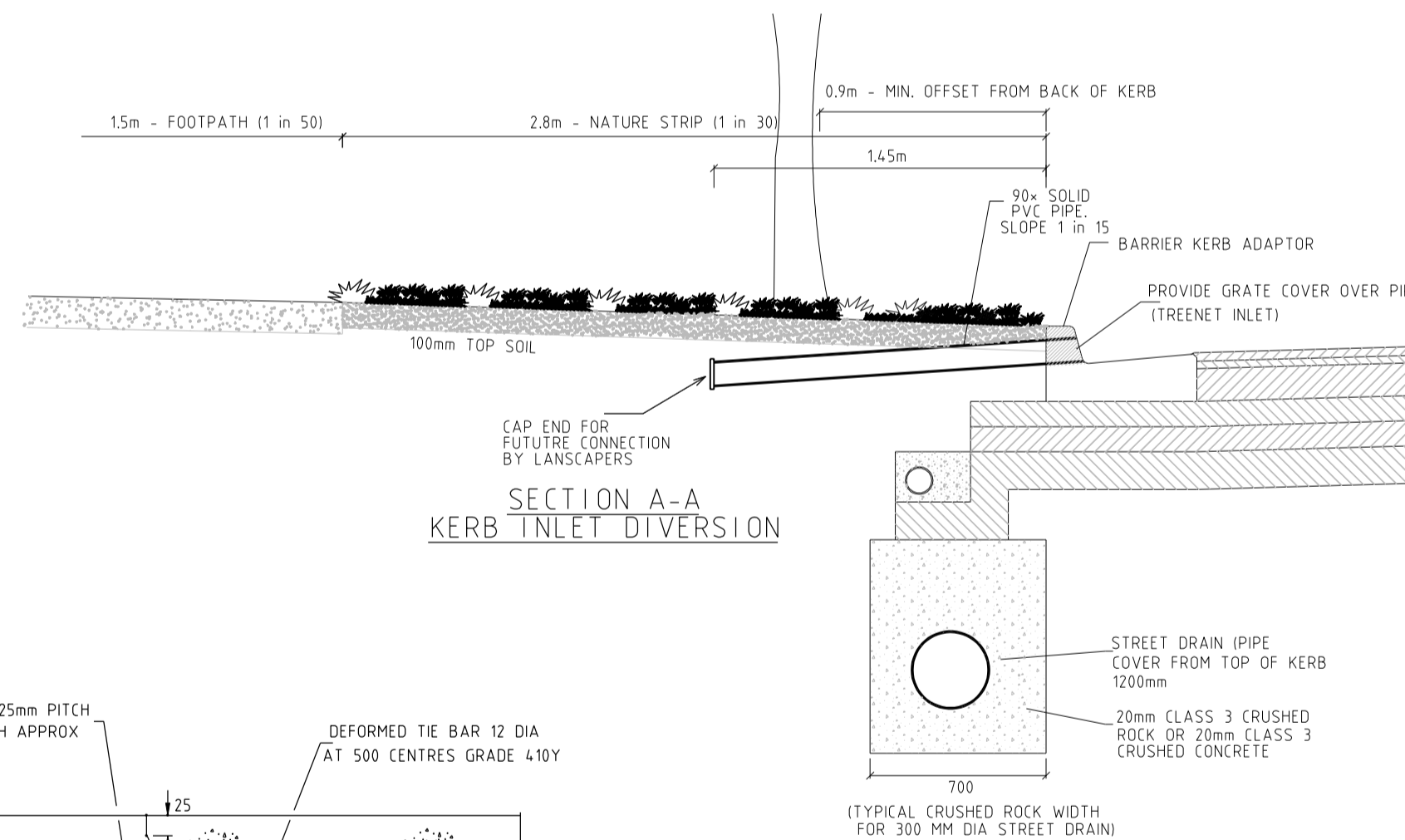
16.00m RESERVE
CHROMITE CIRCUIT LOTS 232-240



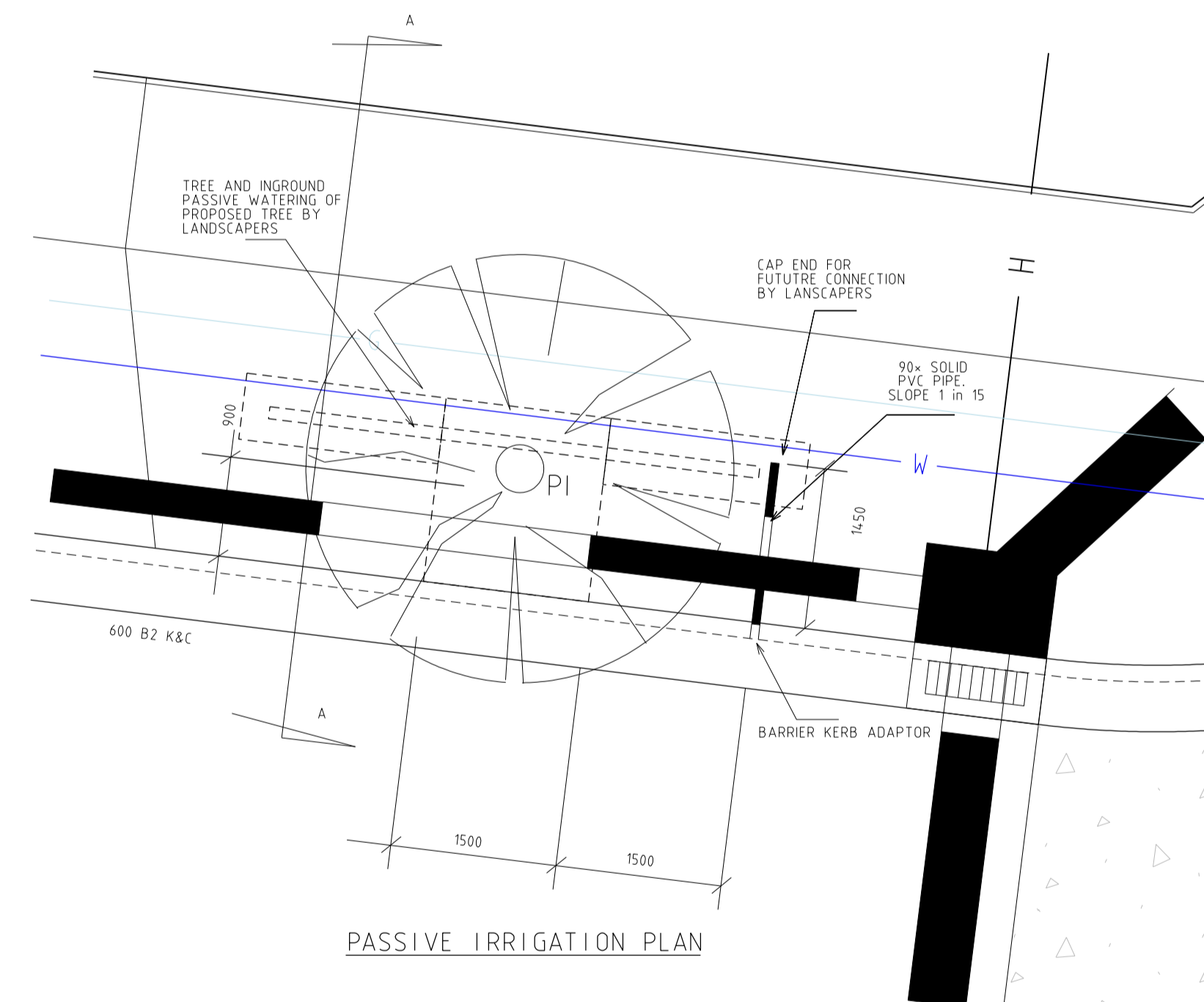
14.50m RESERVE
CHROMITE CIRCUIT LOTS 240-241



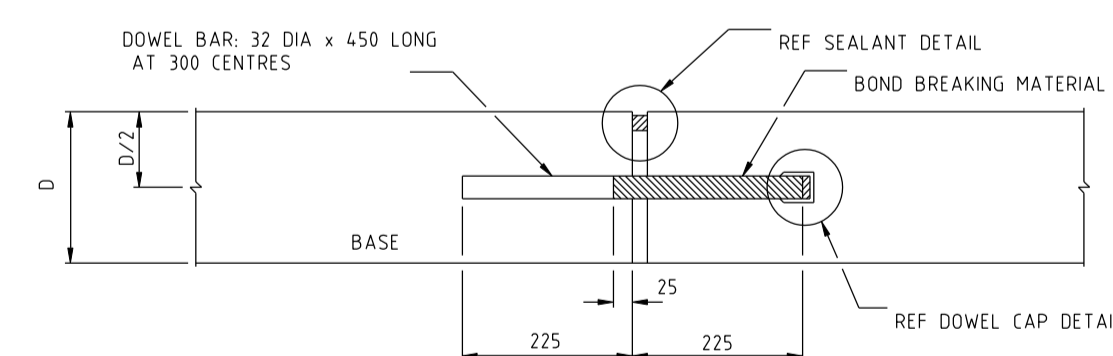
AD - ANCHOR DETAIL



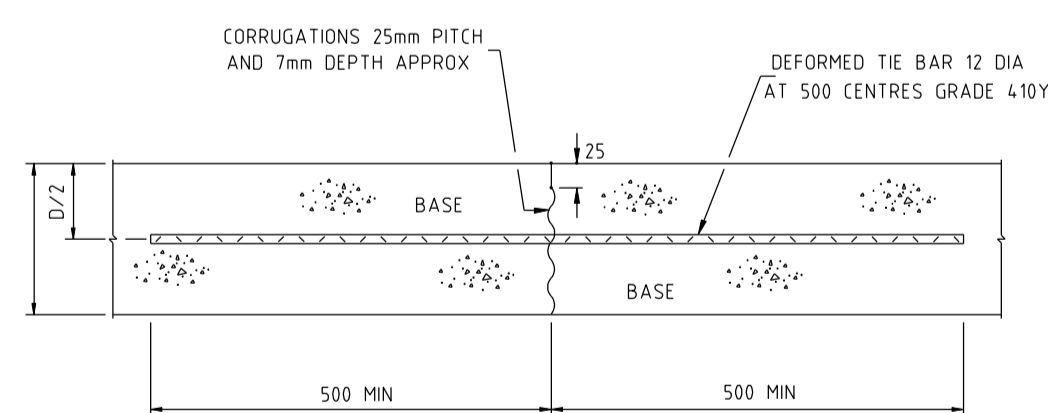
SECTION A-A
KERB INLET DIVERSION



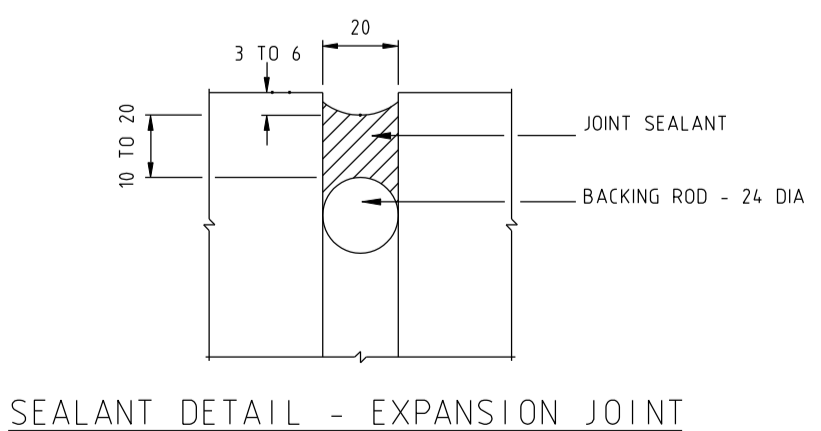
PASSIVE IRRIGATION PLAN



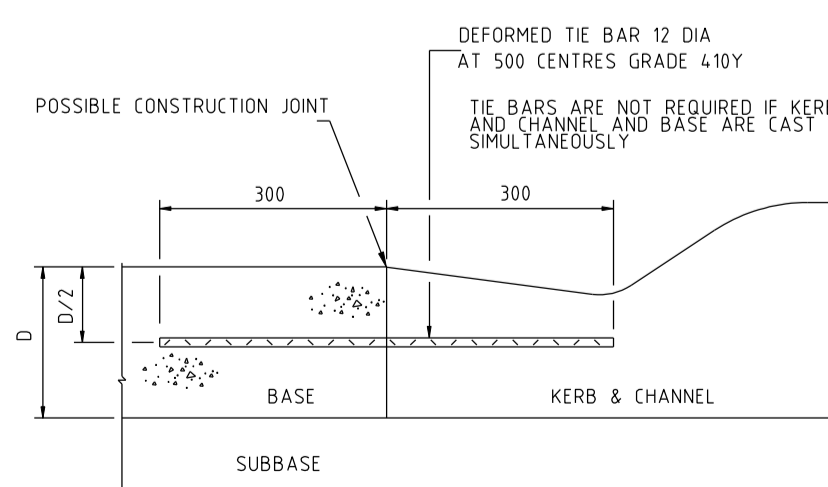
EJ - DOWELLED EXPANSION JOINT



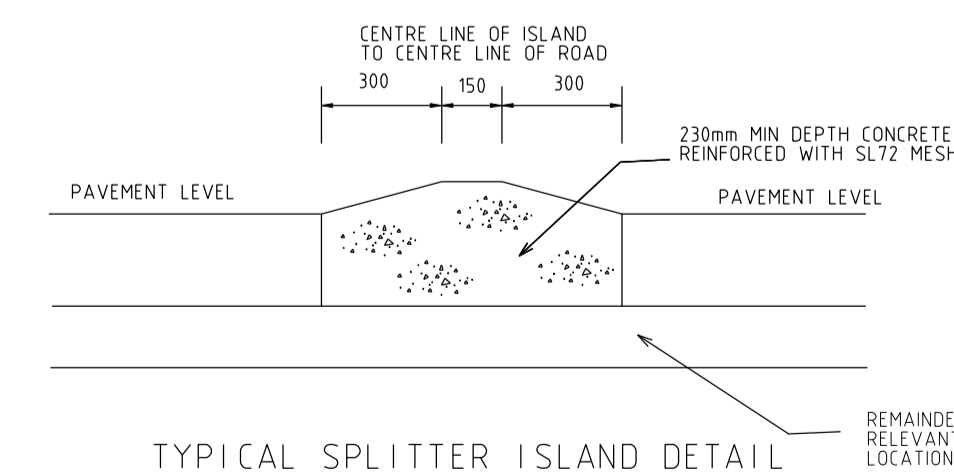
CJ - CONSTRUCTION JOINT



SEALANT DETAIL - EXPANSION JOINT



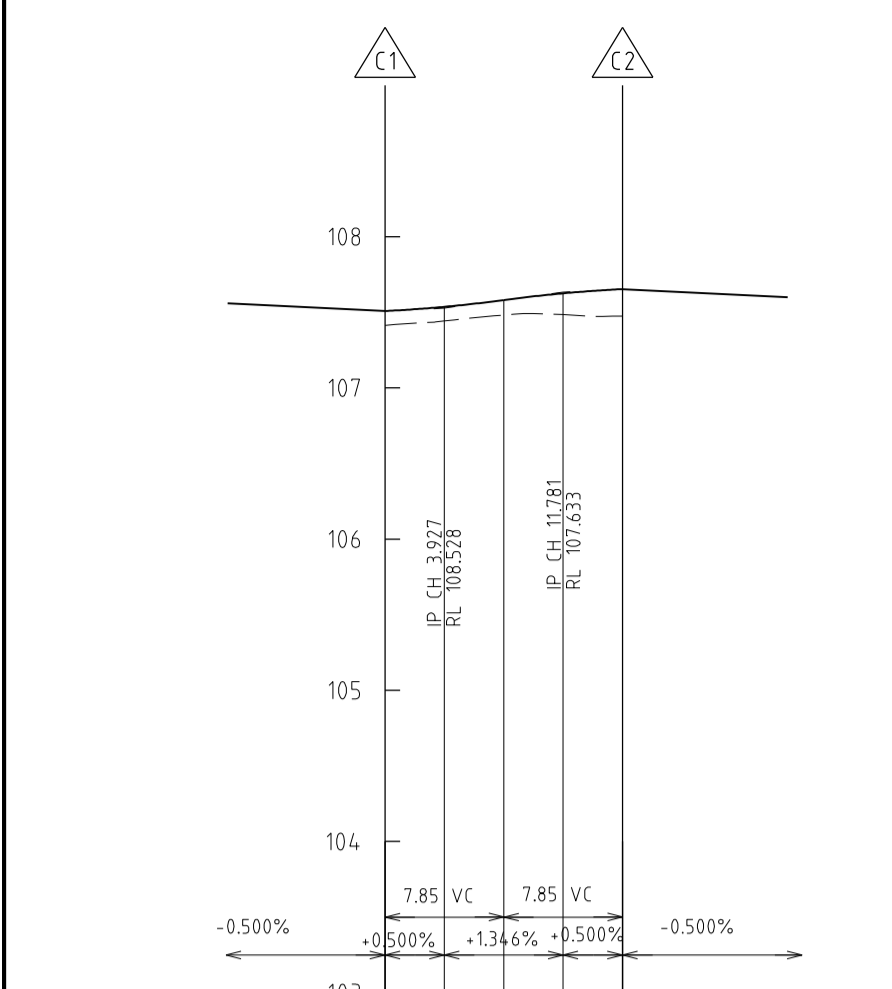
TJ - KERB AND CHANNEL TIED JOINT



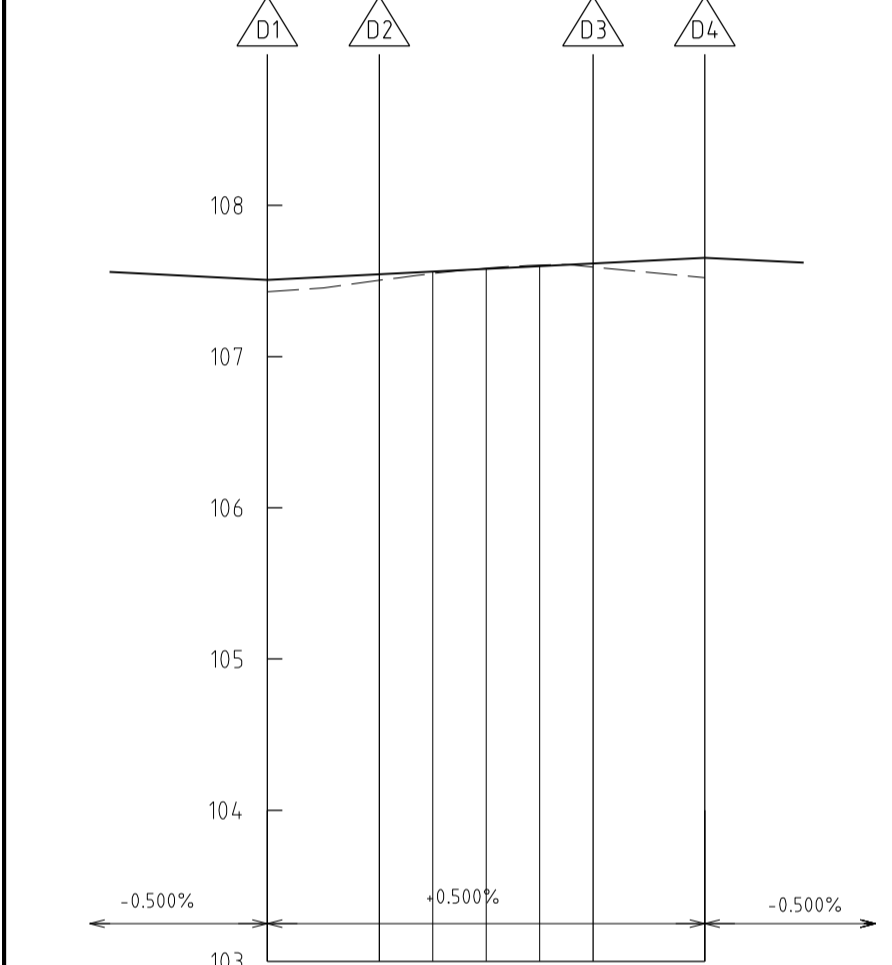
TYPICAL SPLITTER ISLAND DETAIL

AS CONSTRUCTED

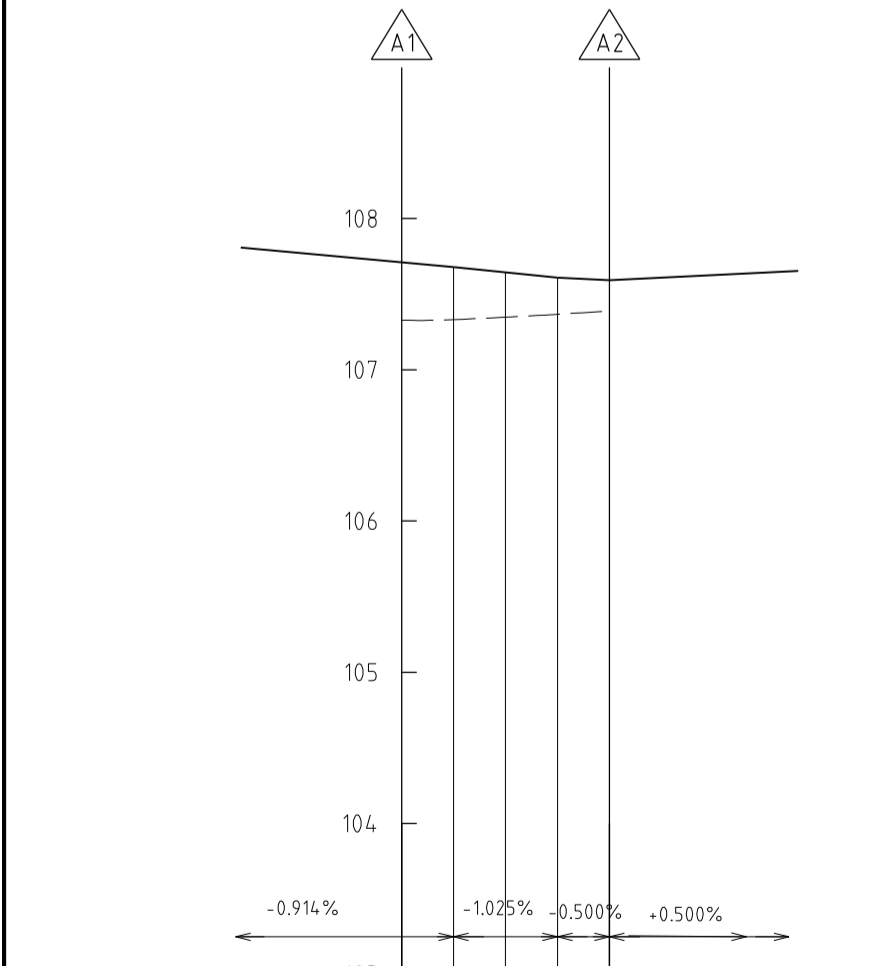
AMENDMENTS						breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 calo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
						OPALIA ESTATE STAGE 2	MUNICIPALITY MELTON
						REFERENCE 6751 E/2	
						TYPICAL CROSS SECTIONS AND DETAILS	
VER	DATE	REMARKS	CHECKED	SCALE	DATUM	AHD	DATE
				AS SHOWN			SEPT. 18
							SHEET 3 OF 11



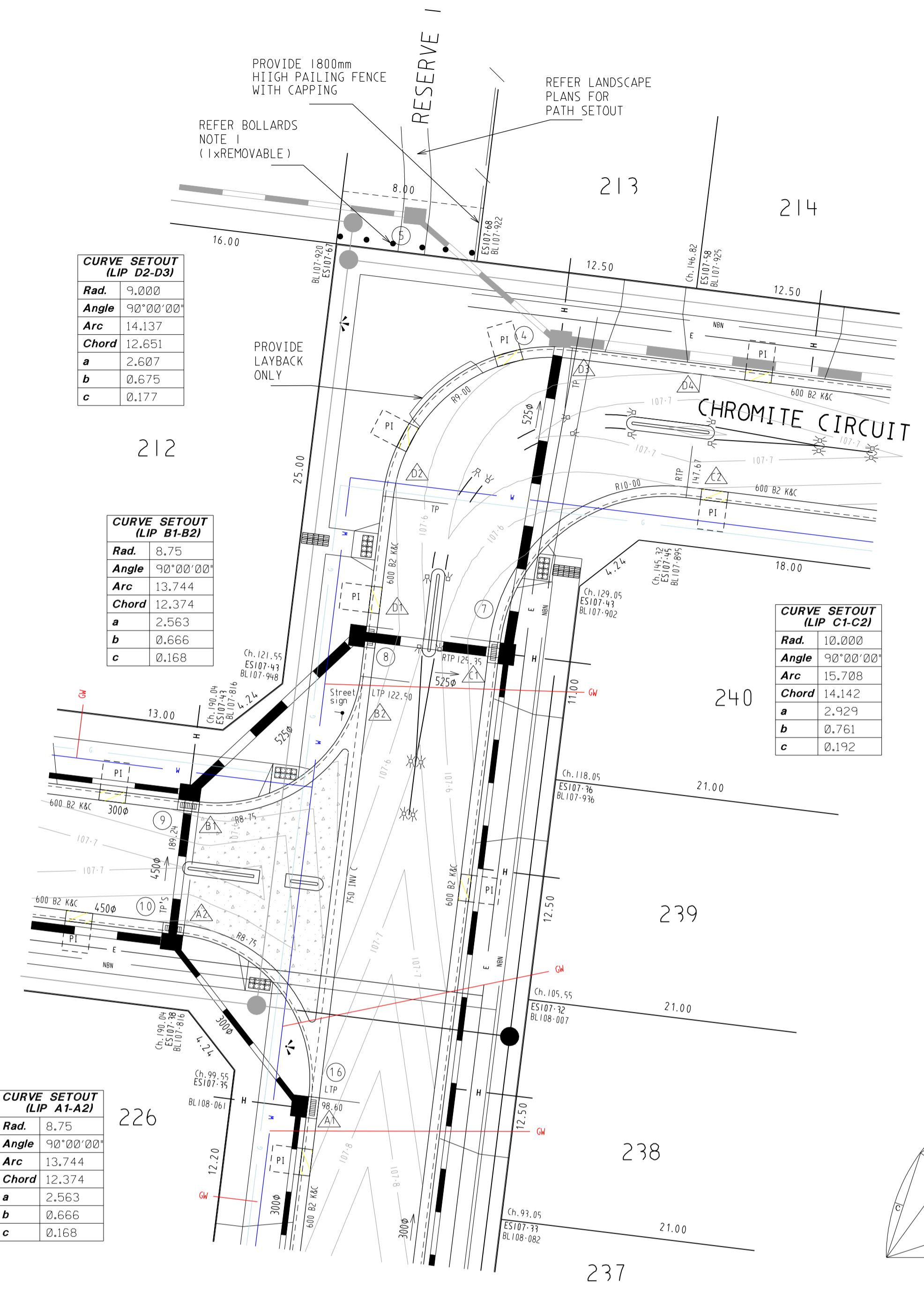
REDUCED LEVEL LIP KERB
CHAINAGE 0.00 3.93 7.85 11.78 15.71
LIP LINE C
SCALE (DA1)
H1500
V150



REDUCED LEVEL LIP KERB
CHAINAGE 0.00 7.40 10.53 14.07 17.60 21.54 28.94
LIP LINE D
SCALE (DA1)
H1500
V150



REDUCED LEVEL LIP KERB
CHAINAGE 0.00 3.44 6.87 10.31 13.74
LIP LINE A
SCALE (DA1)
H1500
V150



CURVE SETOUT (LIP D2-D3)

Rad.	9.000
Angle	90°00'00"
Arc	14.137
Chord	12.651
a	2.607
b	0.675
c	0.177

CURVE SETOUT (LIP B1-B2)

Rad.	8.75
Angle	90°00'00"
Arc	13.744
Chord	12.374
a	2.563
b	0.666
c	0.168

CURVE SETOUT (LIP C1-C2)

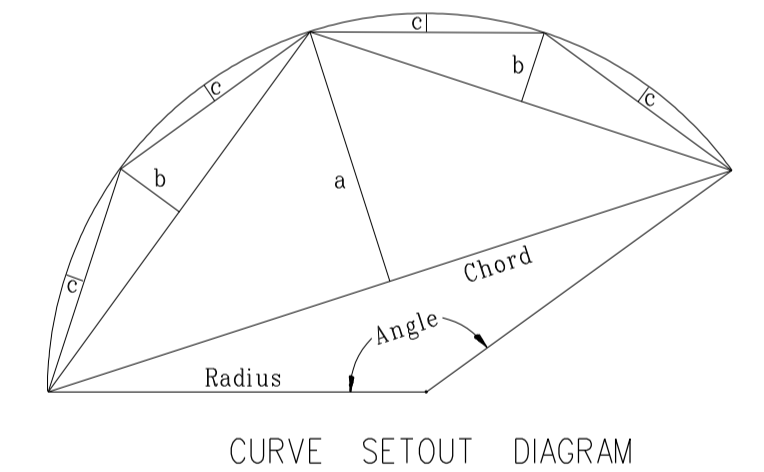
Rad.	10.000
Angle	90°00'00"
Arc	15.708
Chord	14.142
a	2.929
b	0.761
c	0.192

CURVE SETOUT (LIP A1-A2)

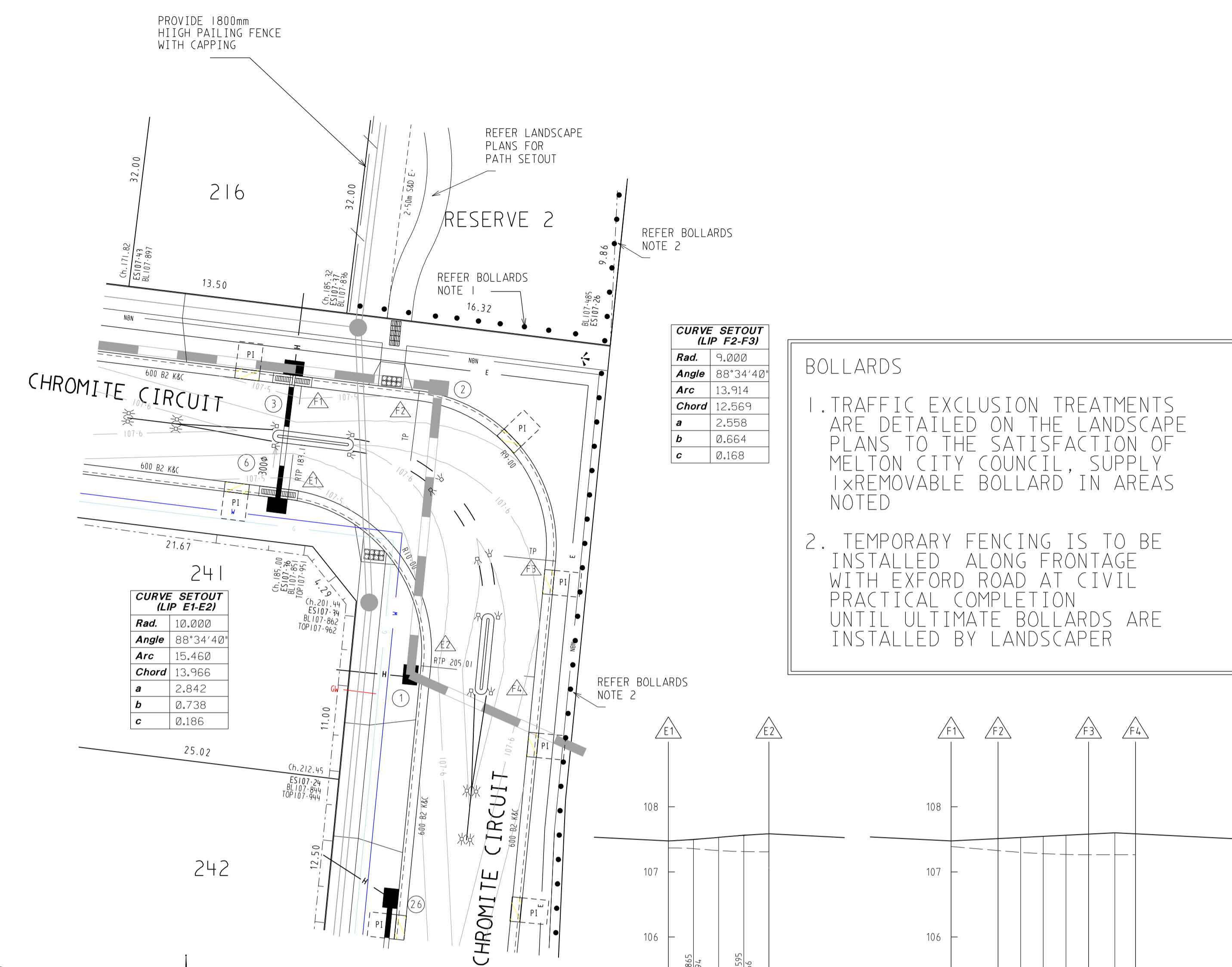
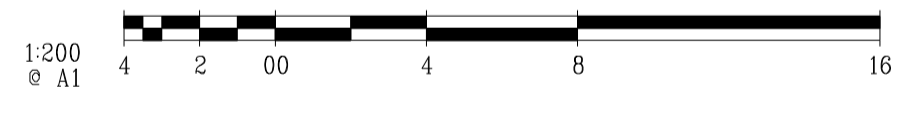
Rad.	8.75
Angle	90°00'00"
Arc	13.744
Chord	12.374
a	2.563
b	0.666
c	0.168

CURVE SETOUT (LIP B1-B2)

Rad.	8.75
Angle	90°00'00"
Arc	13.744
Chord	12.374
a	2.563
b	0.666
c	0.168



INTERSECTION DETAILS

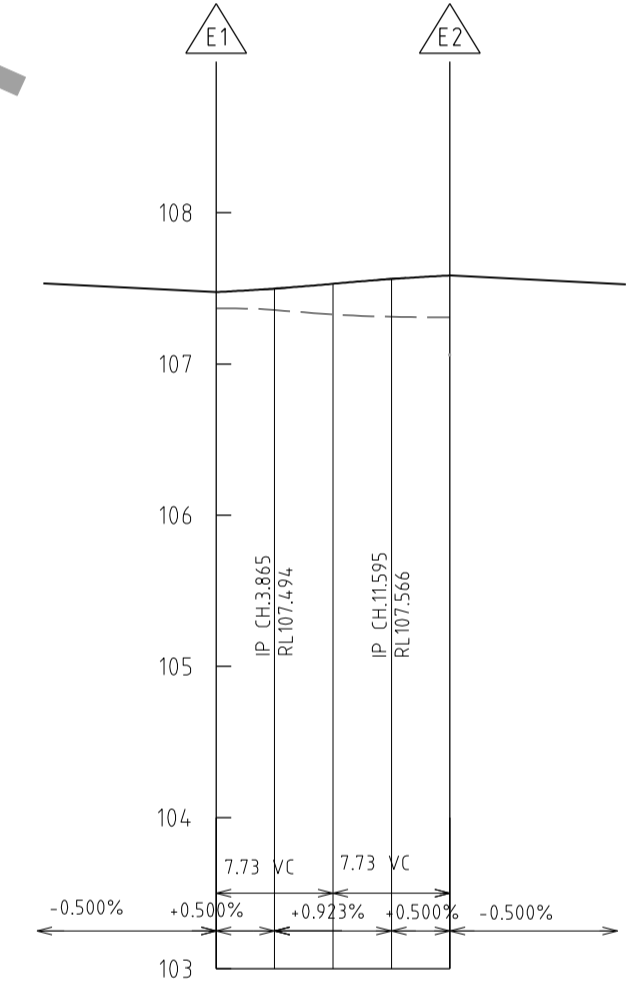


CURVE SETOUT (LIP F2-F3)

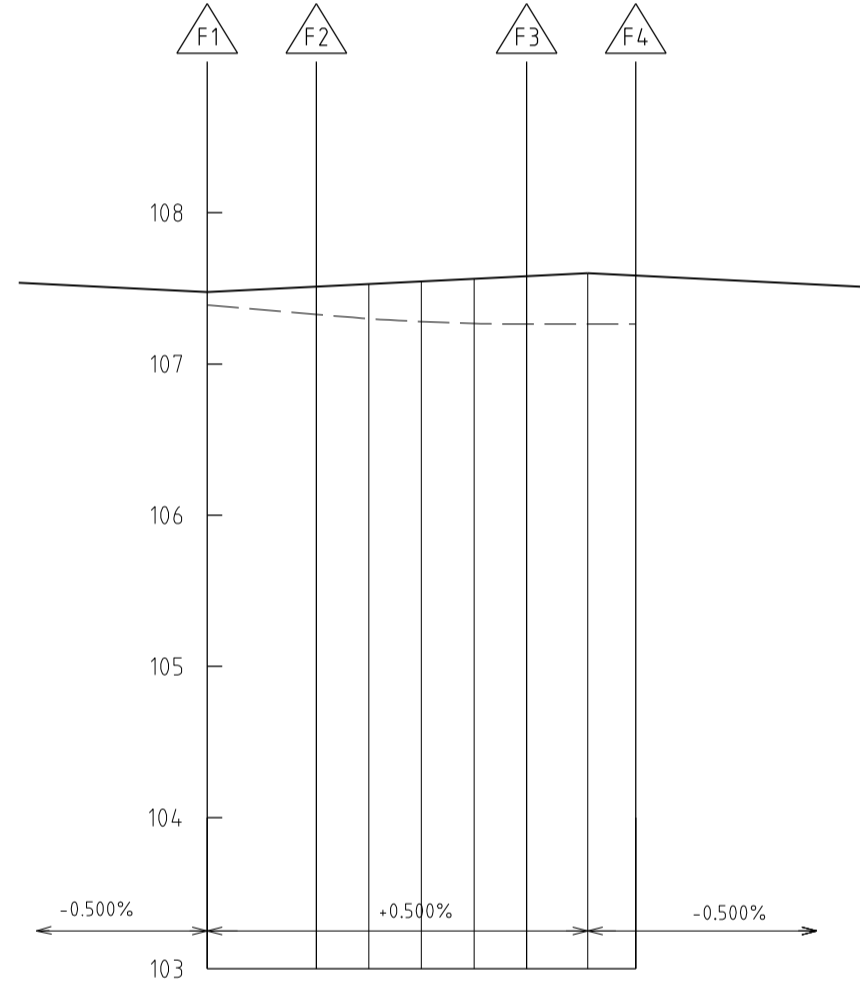
Rad.	9.000
Angle	88°34'40"
Arc	13.914
Chord	12.569
a	2.558
b	0.664
c	0.168

CURVE SETOUT (LIP E1-E2)

Rad.	10.000
Angle	88°34'40"
Arc	15.460
Chord	13.966
a	2.842
b	0.738
c	0.186



REDUCED LEVEL LIP KERB
CHAINAGE 0.00 3.87 7.73 11.60 15.46
LIP LINE E
SCALE (DA1)
H1500
V150



REDUCED LEVEL LIP KERB
CHAINAGE 0.00 7.22 10.70 14.18 17.65 21.13 25.17 28.35
LIP LINE F
SCALE (DA1)
H1500
V150

BOLLARDS

1. TRAFFIC EXCLUSION TREATMENTS ARE DETAILED ON THE LANDSCAPE PLANS TO THE SATISFACTION OF MELTON CITY COUNCIL, SUPPLY 1xREMOVABLE BOLLARD IN AREAS NOTED
2. TEMPORARY FENCING IS TO BE INSTALLED ALONG FRONTAGE WITH EXFORD ROAD AT CIVIL PRACTICAL COMPLETION UNTIL ULTIMATE BOLLARDS ARE INSTALLED BY LANDSCAPER

TACTILE GROUND SURFACE INDICATORS (TSGI) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH AS 1428

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

ATTENTION TO CONTRACTOR
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

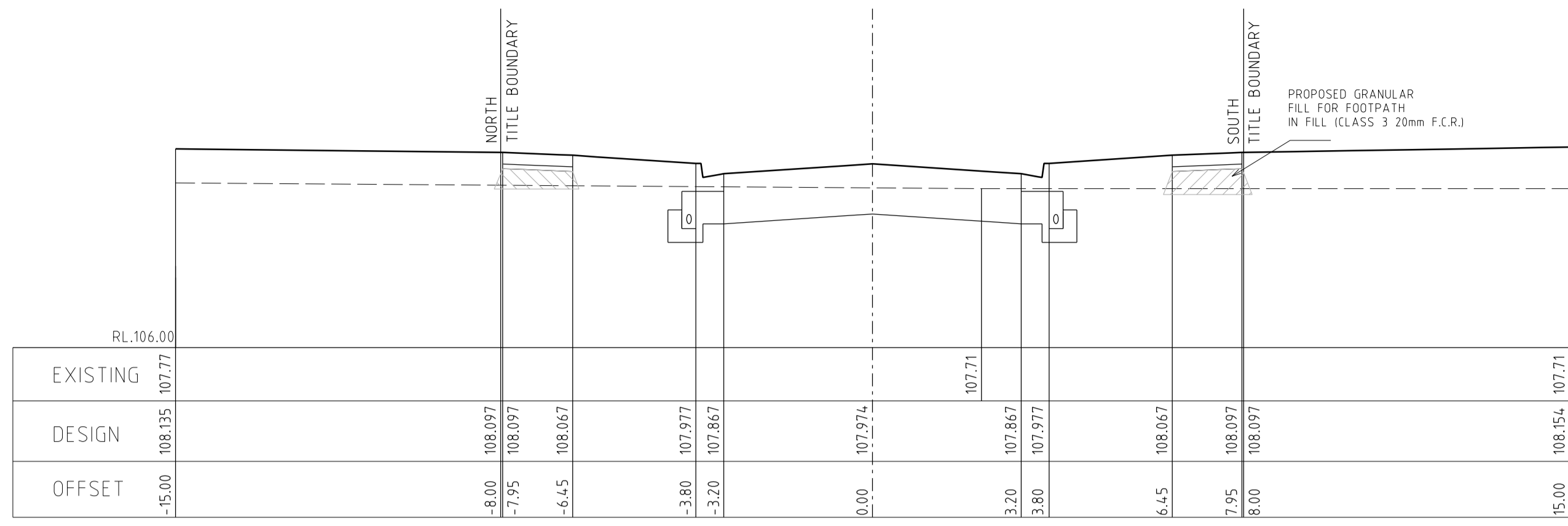
AS CONSTRUCTED

SYMBOL LEGEND

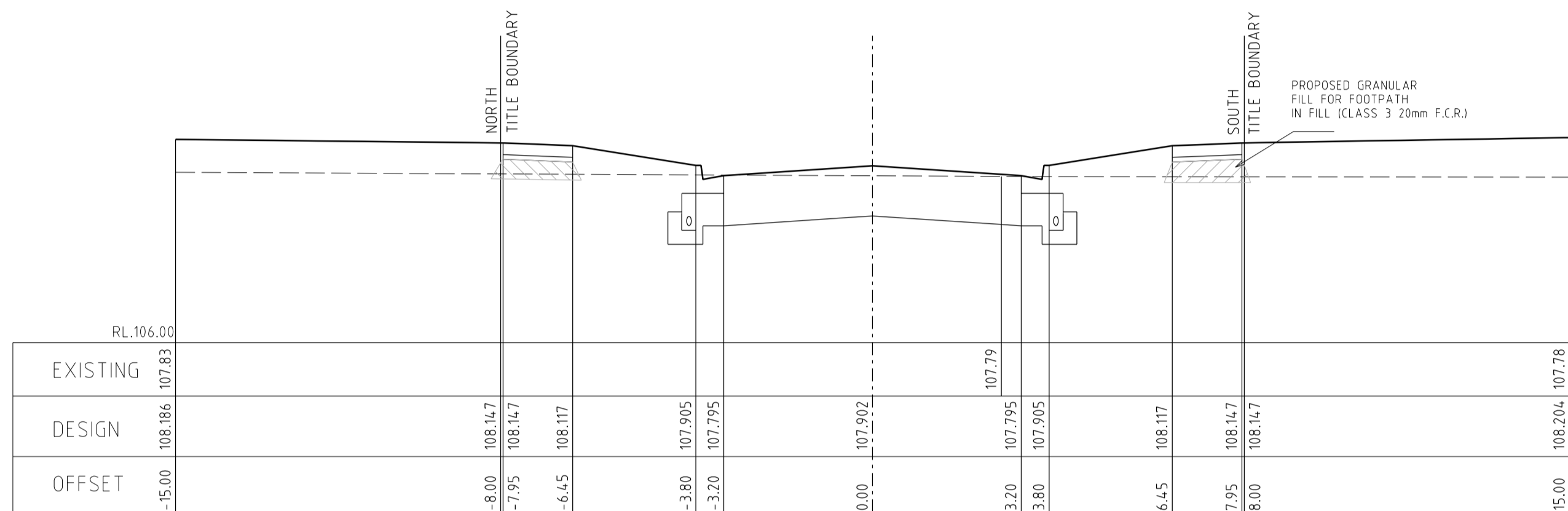
Drains	—S—S—	Ex/Natural/FS Level	+E28-57
Sewer <300	—S—S—	FS @ Building Line	BL28-57
Sewer >300	—S—S—	Top/Toe of Batter	TOP28-57
Water	—W—W—	Top Ret. Wall Level	TWR28-57
House Drain	—H—H—	100yr Flood Level	FL28-57
Property Inlet	—P—P—	Fill >200mm Prop/Ex	—/—/—
Street Sign	—S—S—	Cut >200mm Prop/Ex	—/—/—
PSM	—P—P—		
Retaining Wall	—R—R—		
Conduits 50mm	—C—C—		
Conduits 100mm	—C—C—		
Ex Gas/Elect/Tel	—G—E—T—		

AMENDMENTS	DATE	REMARKS	CHECKED
C	10.2.20	RESERVE PATHS AMENDED	
B	16.12.19	SERVICE CONDUITS AMENDED	
A	2.11.19	CONSTRUCTION ISSUE	

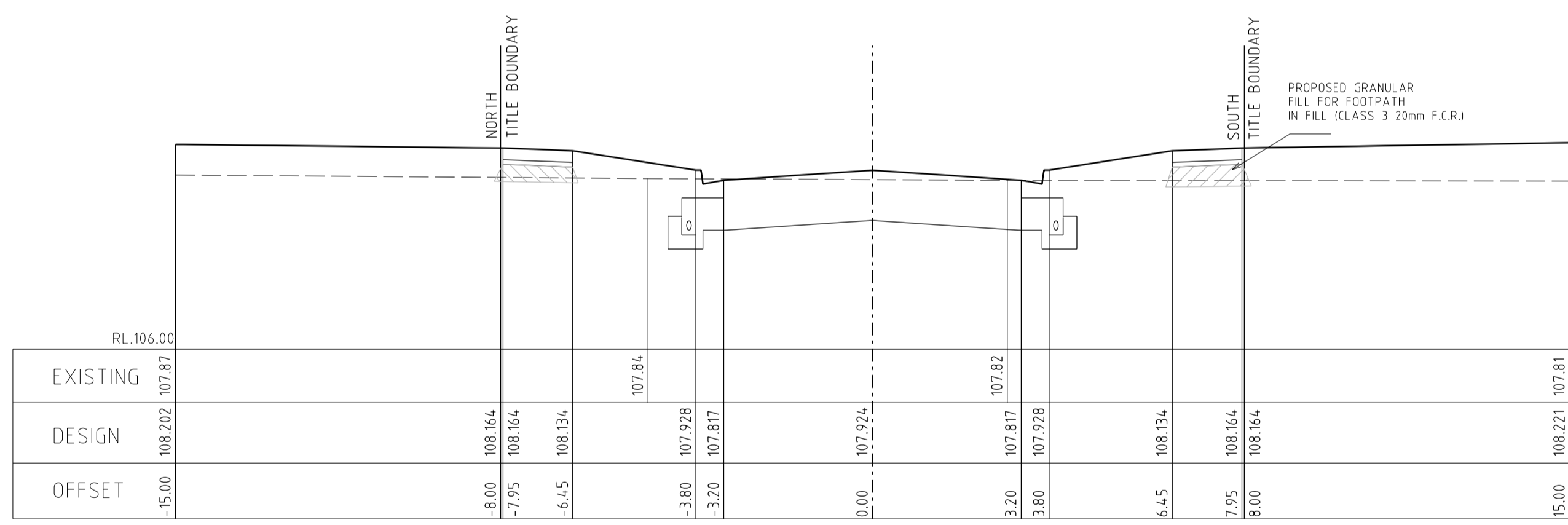
MELWAY REF.	342-J-7	breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
SURVEY	B. P. D.		
DESIGN	RK	OPALIA ESTATE STAGE 2	
DRAWN	RK		
INTERSECTION DETAILS			
SCALE	AS SHOWN	DATUM	AHD
DATE	SEPT. 18	DATE	SEPT. 18
SHEET	4 OF 11	C	



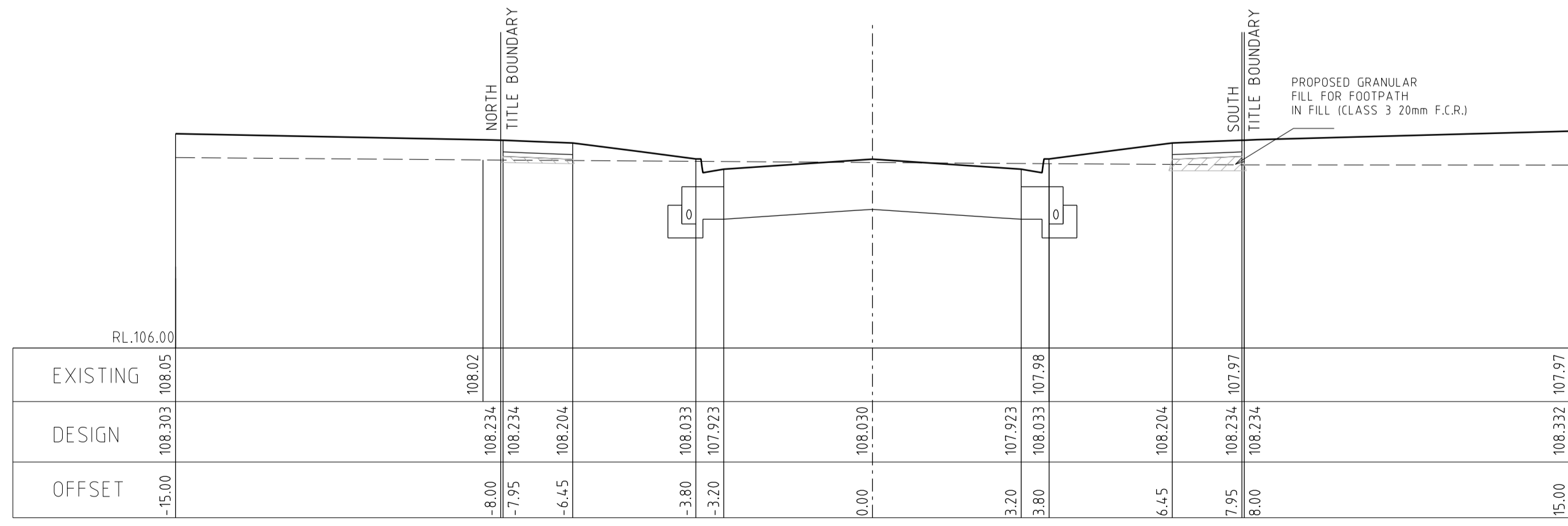
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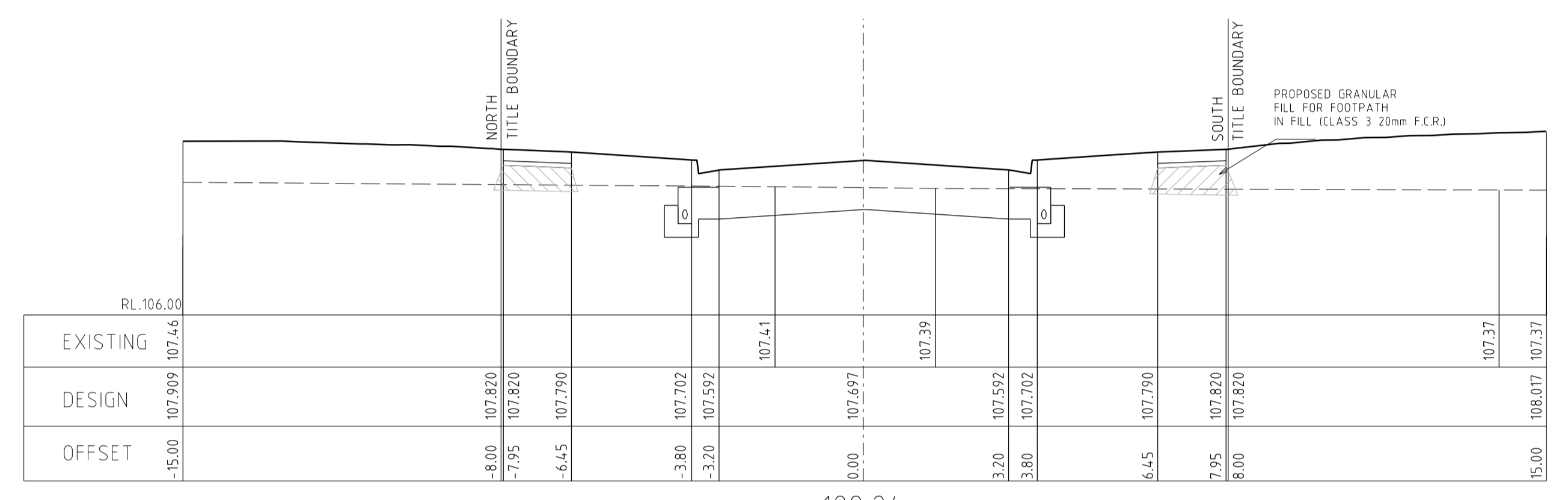
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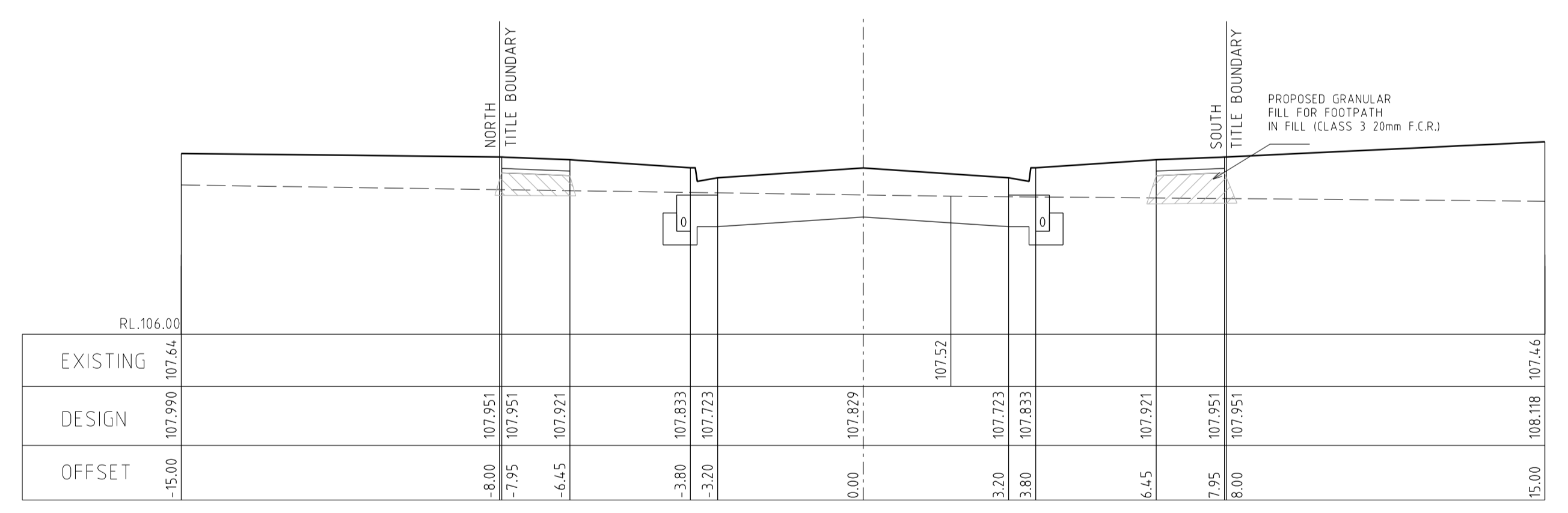
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92.45



189.24



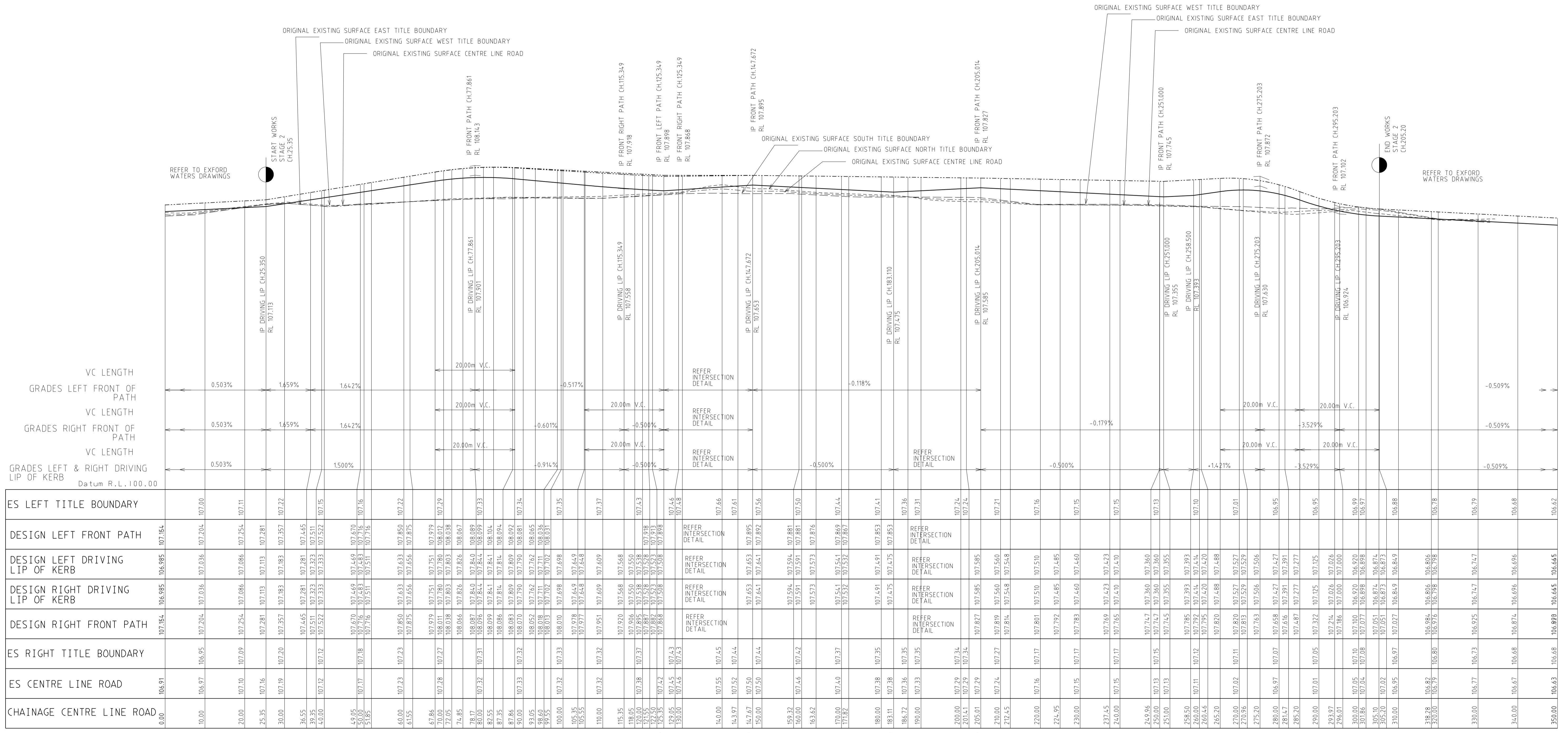
163.04

MIDGARD ROAD CROSS SECTIONS

SCALE Hor. 1:100
Vert 1:50

AS CONSTRUCTED

AMENDMENTS	VER.	DATE	REMARKS	 breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	MUNICIPALITY MELTON REFERENCE 6751 E/2 MIDGARD ROAD CROSS SECTIONS	
	A	2.11.19	CONSTRUCTION ISSUE			
				MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK CHECKED	SCALE AS SHOWN DATUM AHD DATE SEPT. 18	SHEET 6 OF 11 A



CHROMITE CIRCUIT LONGITUDINAL SECTION

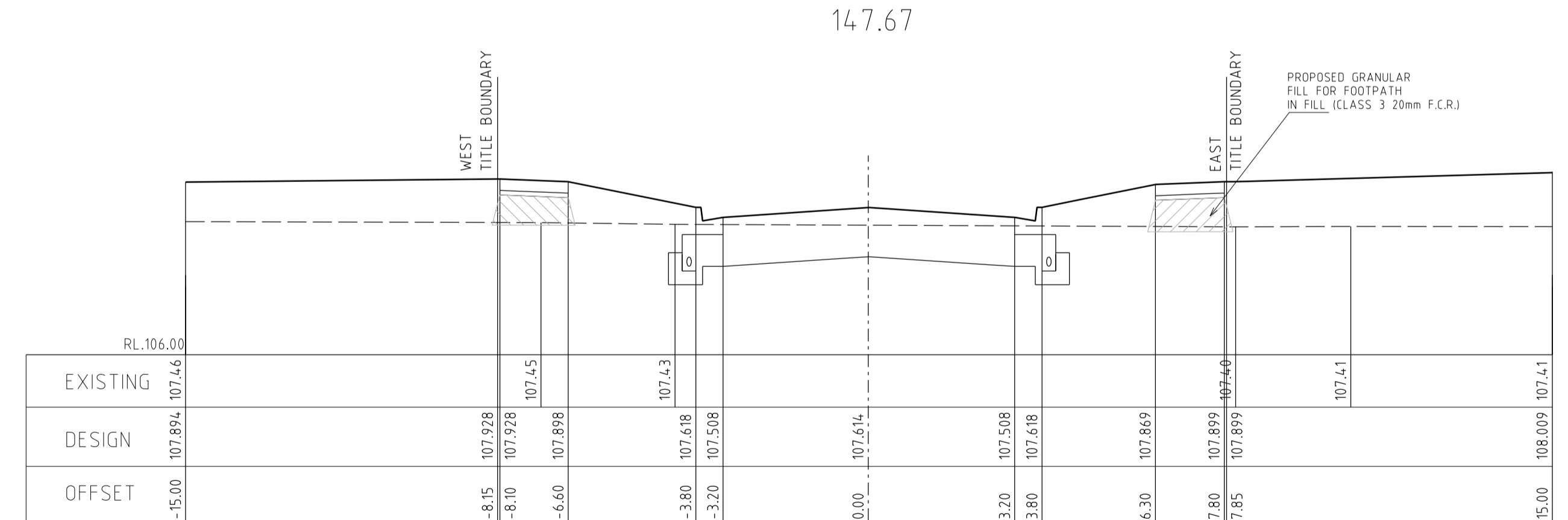
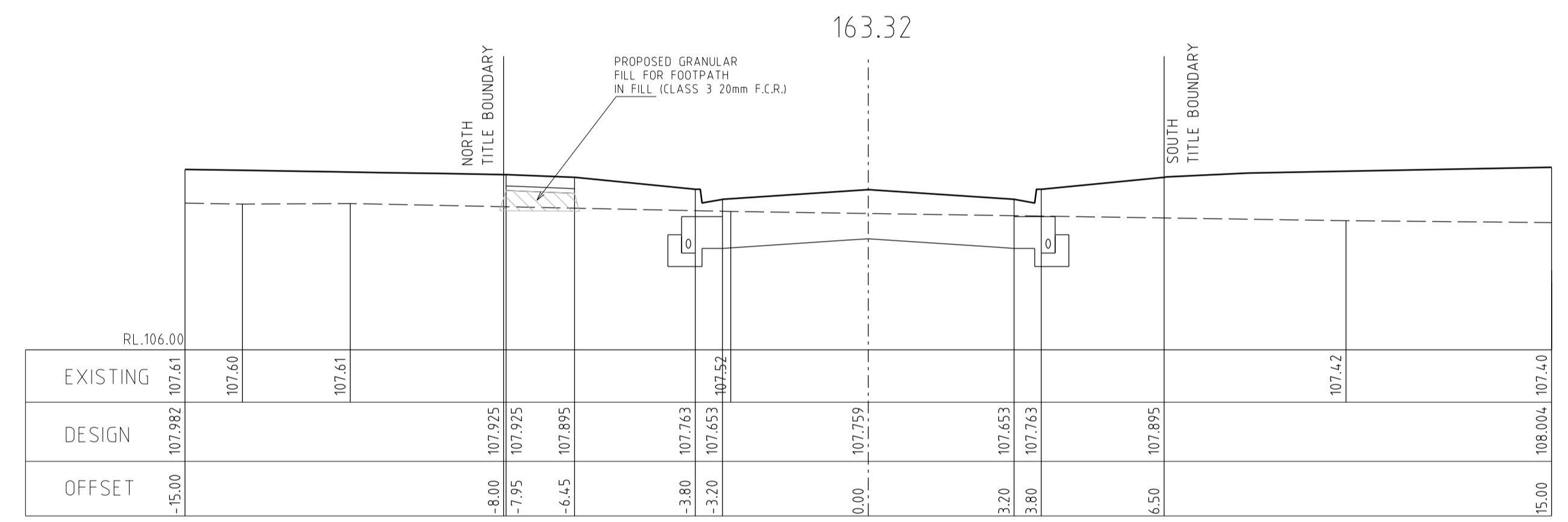
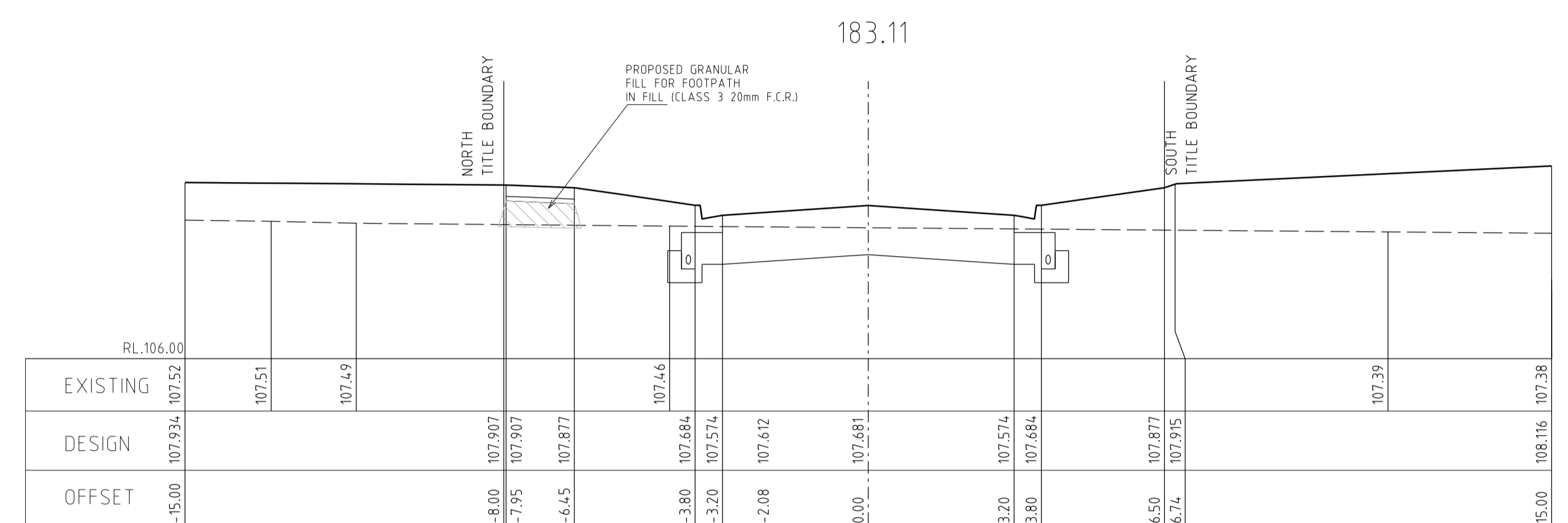
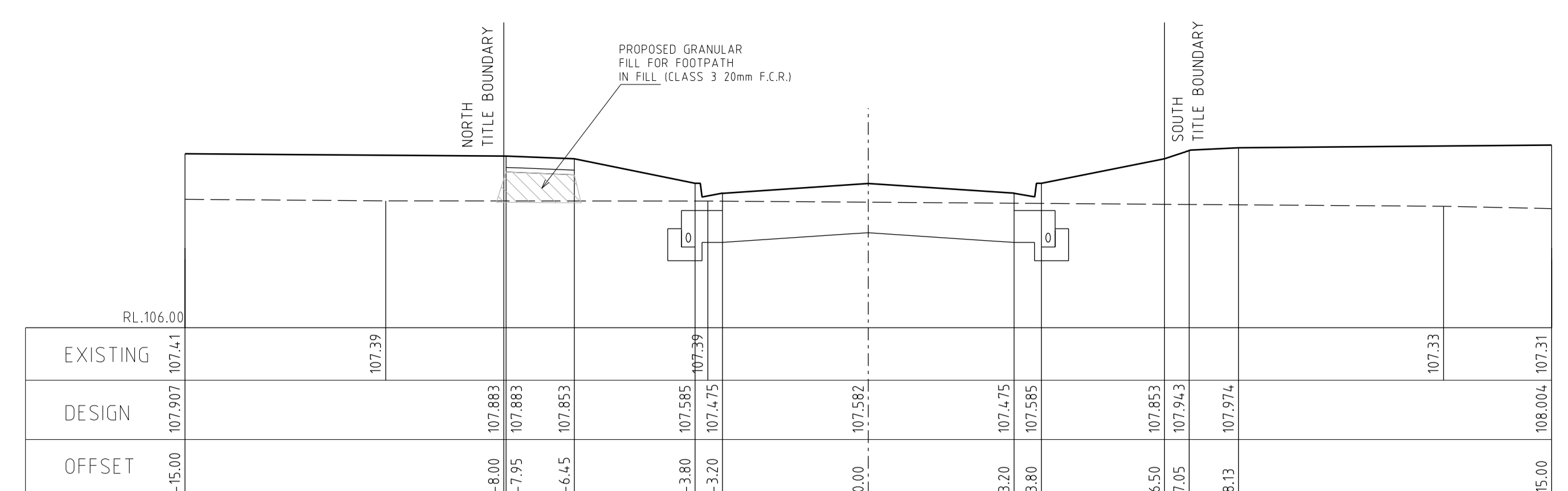
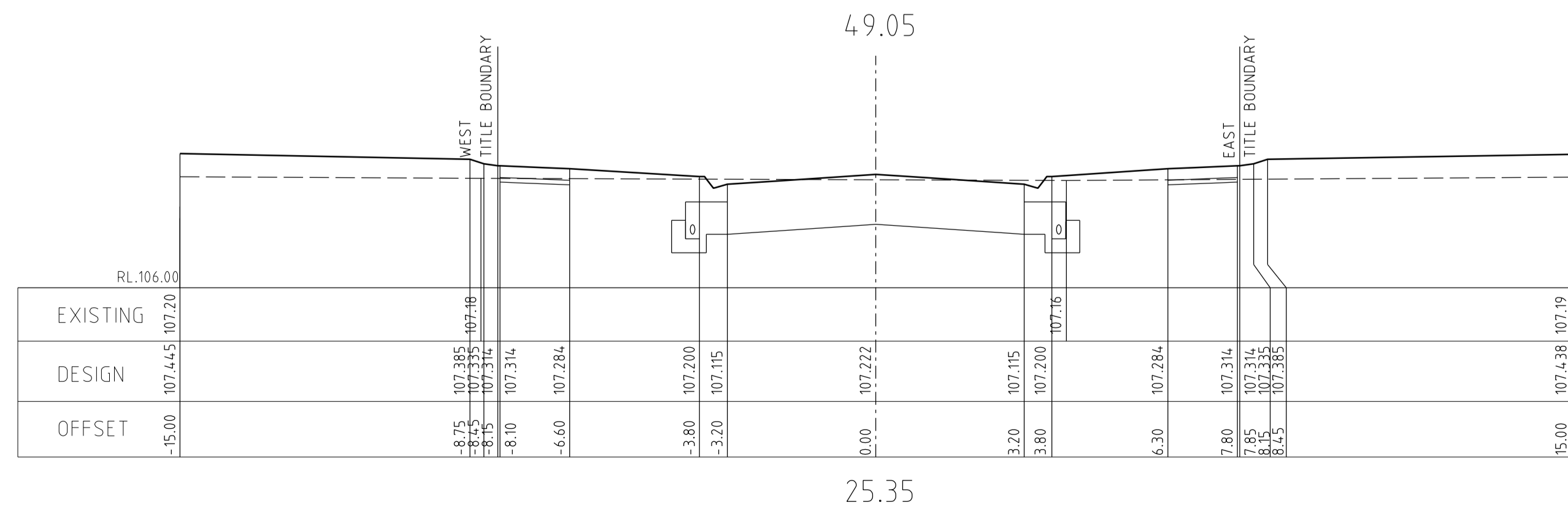
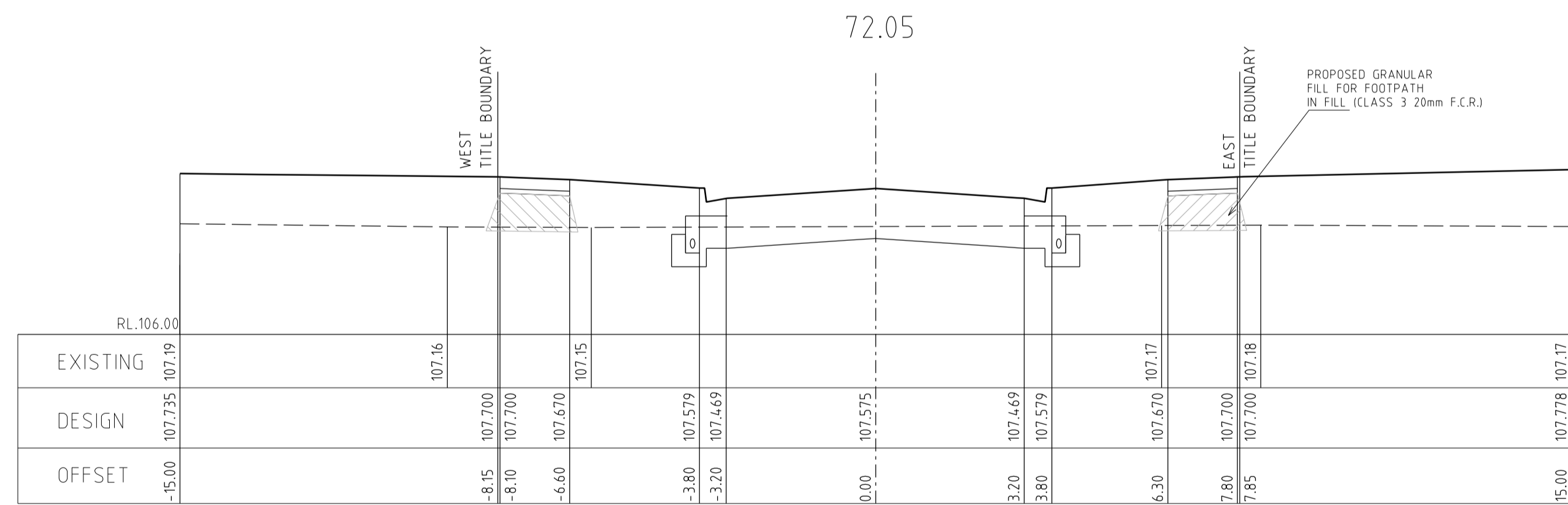
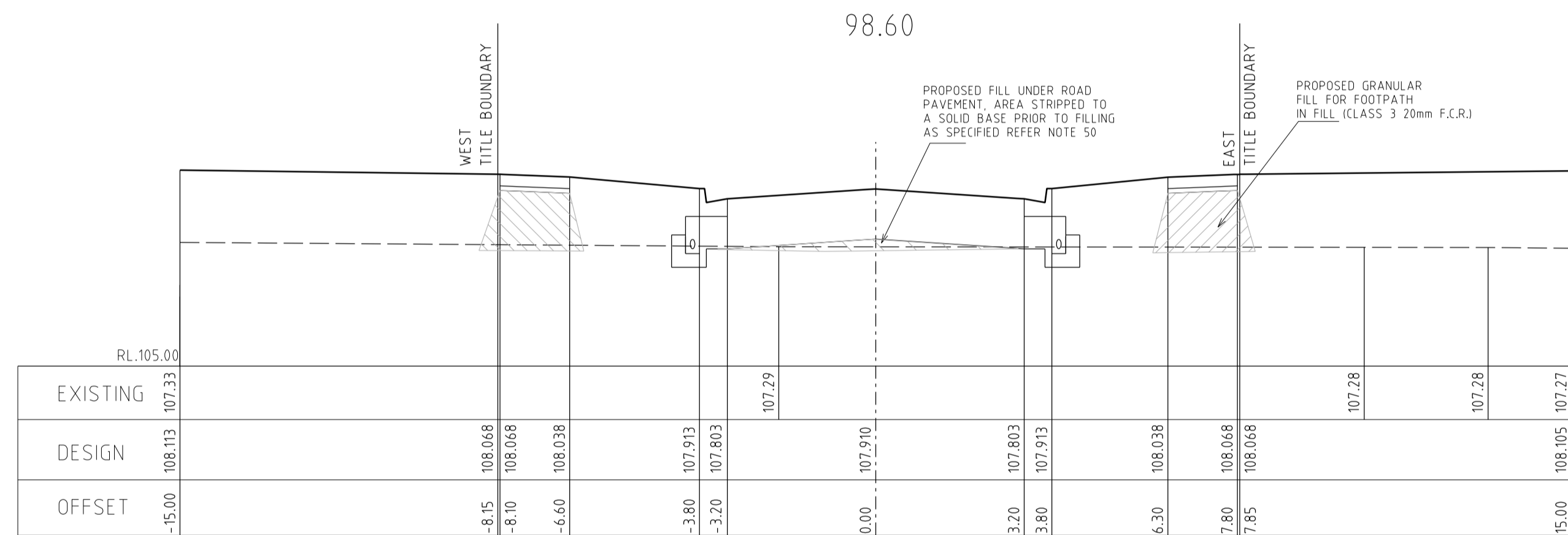
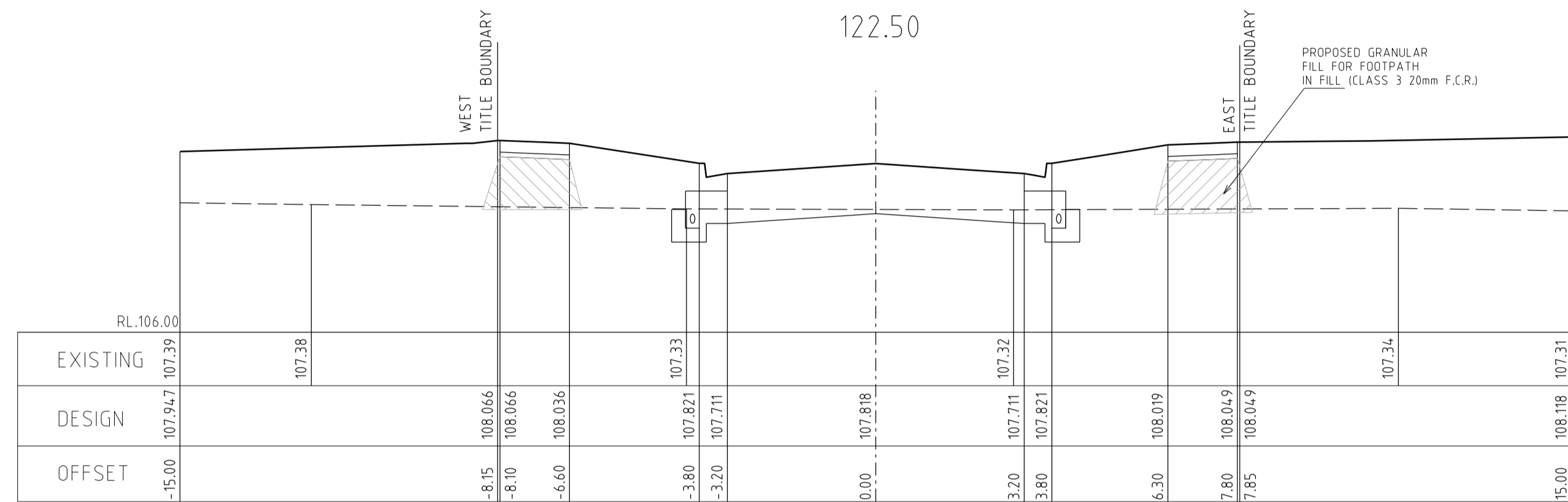
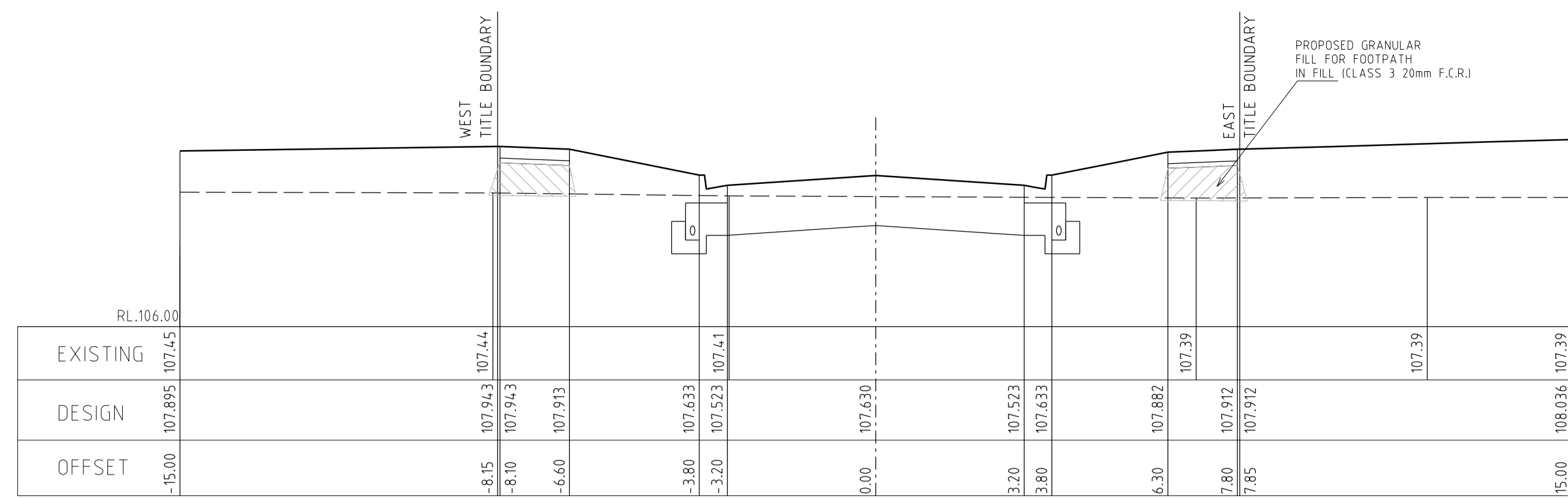
SCALE Hor. 1:500
Vert 1:50

VC LENGTH	0.503%	1.659%	1.642%	20.00m V.C.	0.517%	20.00m V.C.	0.118%	20.00m V.C.	0.179%	20.00m V.C.	3.529%	20.00m V.C.	0.509%
GRADES LEFT FRONT OF PATH	0.503%	1.659%	1.642%	20.00m V.C.	0.601%	20.00m V.C.	0.500%	20.00m V.C.	0.179%	20.00m V.C.	3.529%	20.00m V.C.	0.509%
GRADES RIGHT FRONT OF PATH	0.503%	1.659%	1.642%	20.00m V.C.	0.601%	20.00m V.C.	0.500%	20.00m V.C.	0.179%	20.00m V.C.	3.529%	20.00m V.C.	0.509%
GRADES LEFT & RIGHT DRIVING LIP OF KERB	0.503%	1.500%	1.500%	20.00m V.C.	0.914%	20.00m V.C.	0.500%	20.00m V.C.	0.500%	20.00m V.C.	1.421%	20.00m V.C.	0.509%
ES LEFT TITLE BOUNDARY	107.154	107.204	107.204	107.111	107.222	107.105	107.166	107.448	107.21	107.16	107.15	107.15	106.68
DESIGN LEFT FRONT PATH	107.154	107.204	107.204	107.254	107.281	107.281	107.281	107.281	107.281	107.281	107.281	107.281	106.68
DESIGN LEFT DRIVING LIP OF KERB	106.995	107.036	107.036	107.086	107.113	107.113	107.113	107.113	107.113	107.113	107.113	107.113	106.68
DESIGN RIGHT DRIVING LIP OF KERB	106.985	107.036	107.036	107.086	107.113	107.113	107.113	107.113	107.113	107.113	107.113	107.113	106.68
DESIGN RIGHT FRONT PATH	107.154	107.204	107.204	107.254	107.281	107.281	107.281	107.281	107.281	107.281	107.281	107.281	106.68
ES RIGHT TITLE BOUNDARY	106.95	107.09	107.09	107.11	107.22	107.15	107.166	107.448	107.21	107.16	107.15	107.15	106.68
ES CENTRE LINE ROAD	106.91	106.97	106.95	107.09	107.11	107.11	107.11	107.11	107.11	107.11	107.11	107.11	106.68
CHAINAGE CENTRE LINE ROAD	0.00	10.00	20.00	25.35	30.00	36.55	38.95	40.00	49.05	50.00	51.85	60.00	350.00

AS CONSTRUCTED

AMENDMENTS				breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 cato street howthorn east, 3123 telephone 8823 2300 fax no. 8823 2310			
						OPALIA ESTATE STAGE 2 CHROMITE CIRCUIT LONGITUDINAL SECTION	MUNICIPALITY MELTON	
								REFERENCE 6751 E/2
VER.	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE SEPT. 18	SHEET 7 OF 11	A

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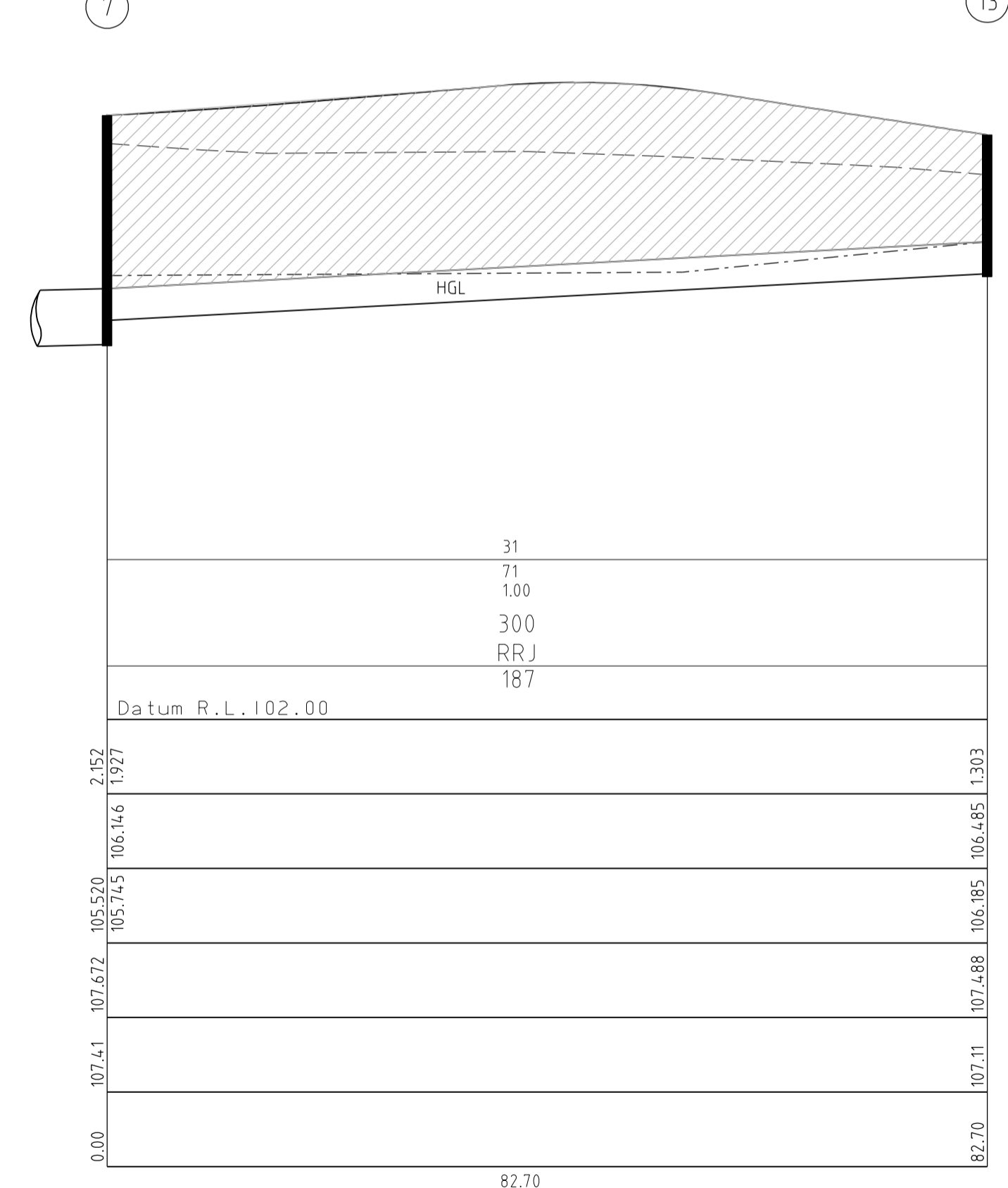
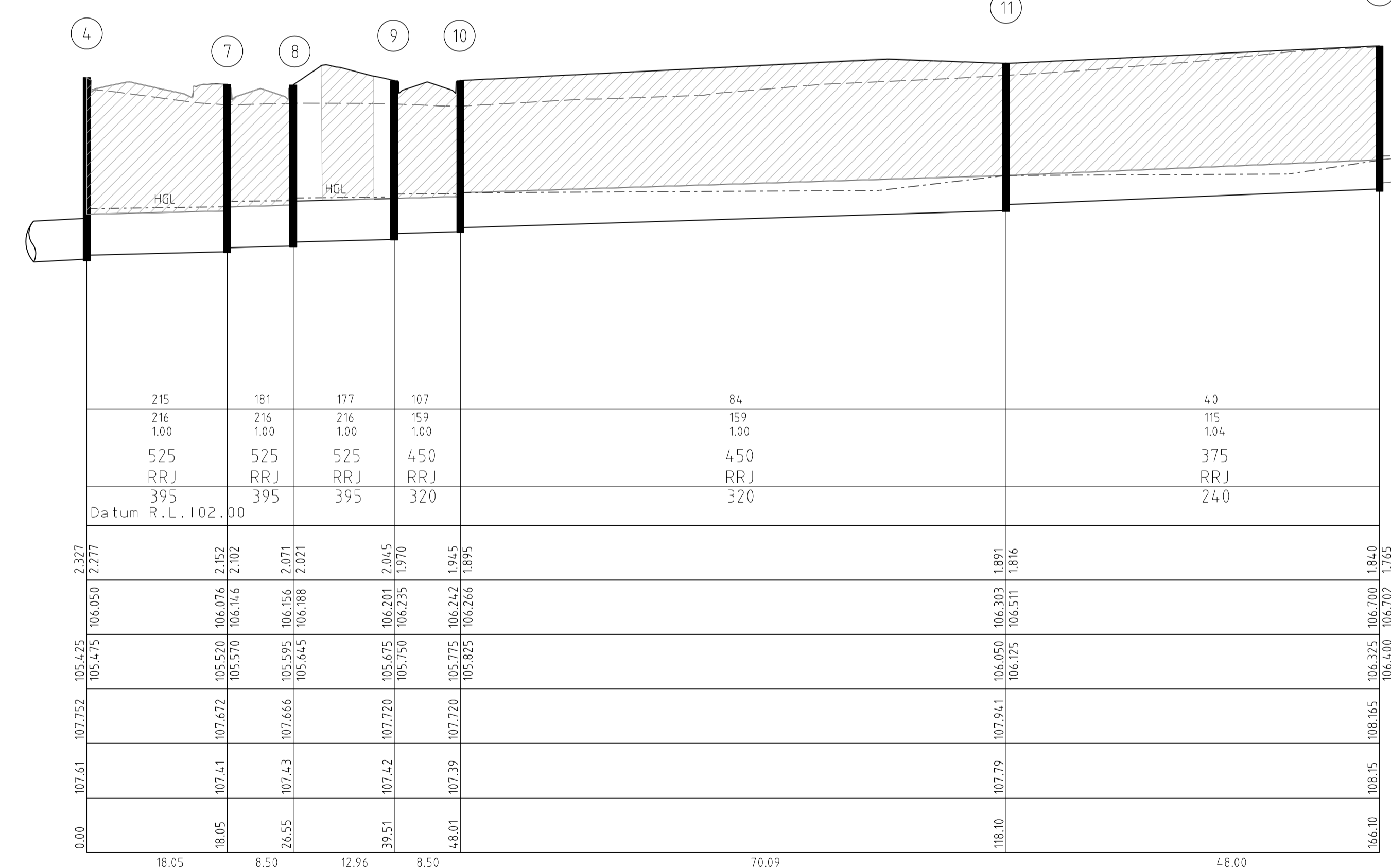
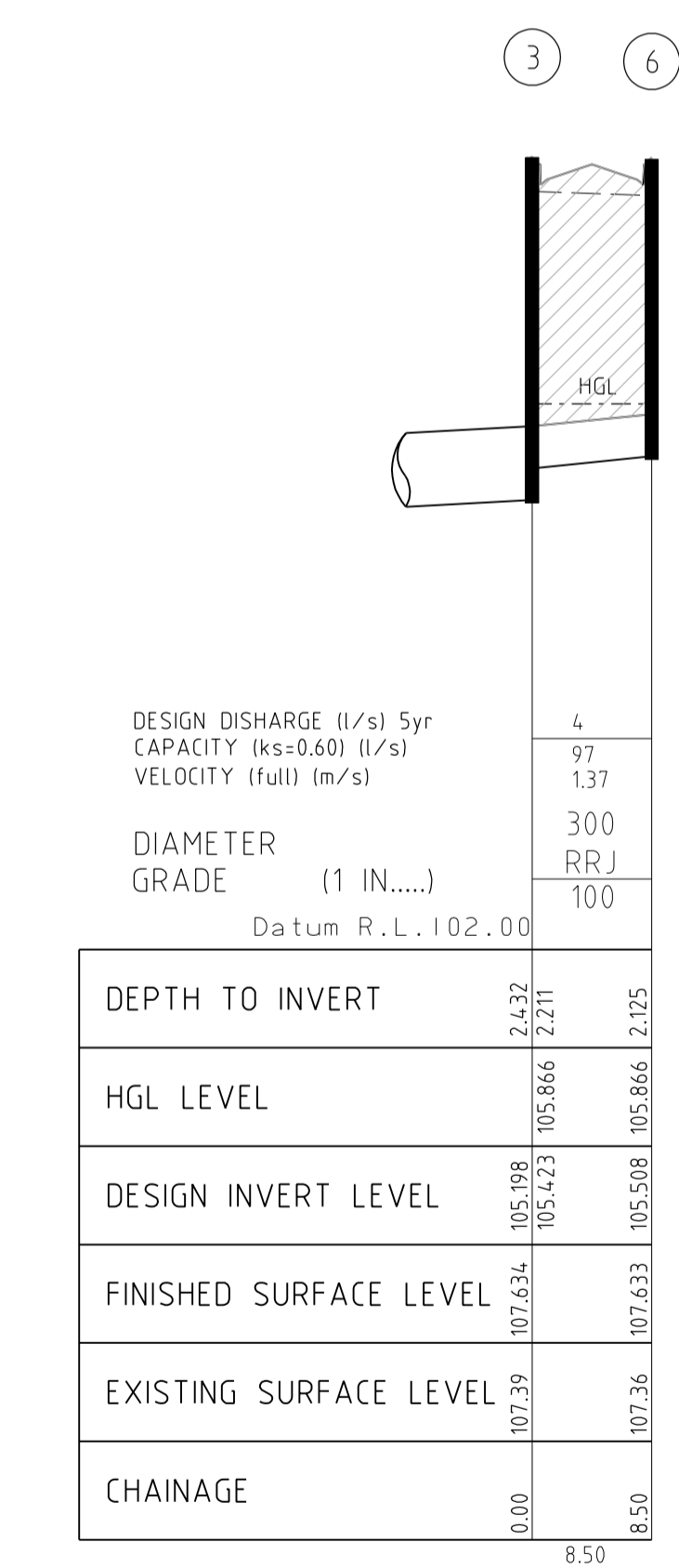
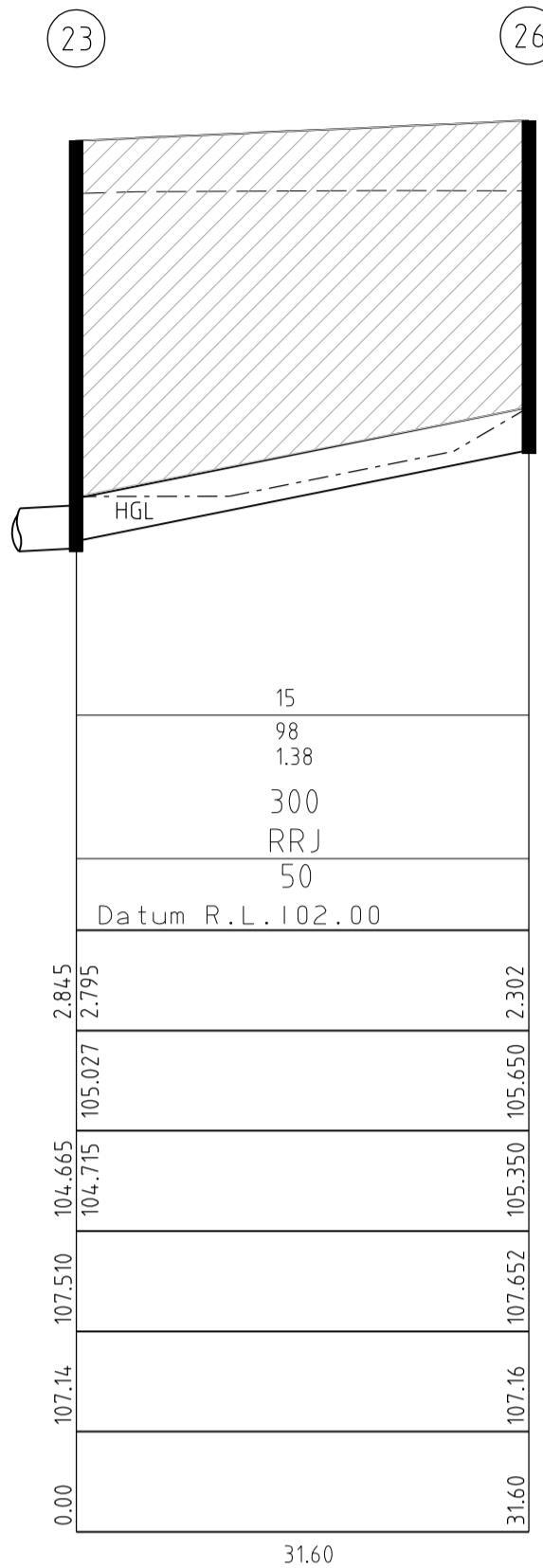
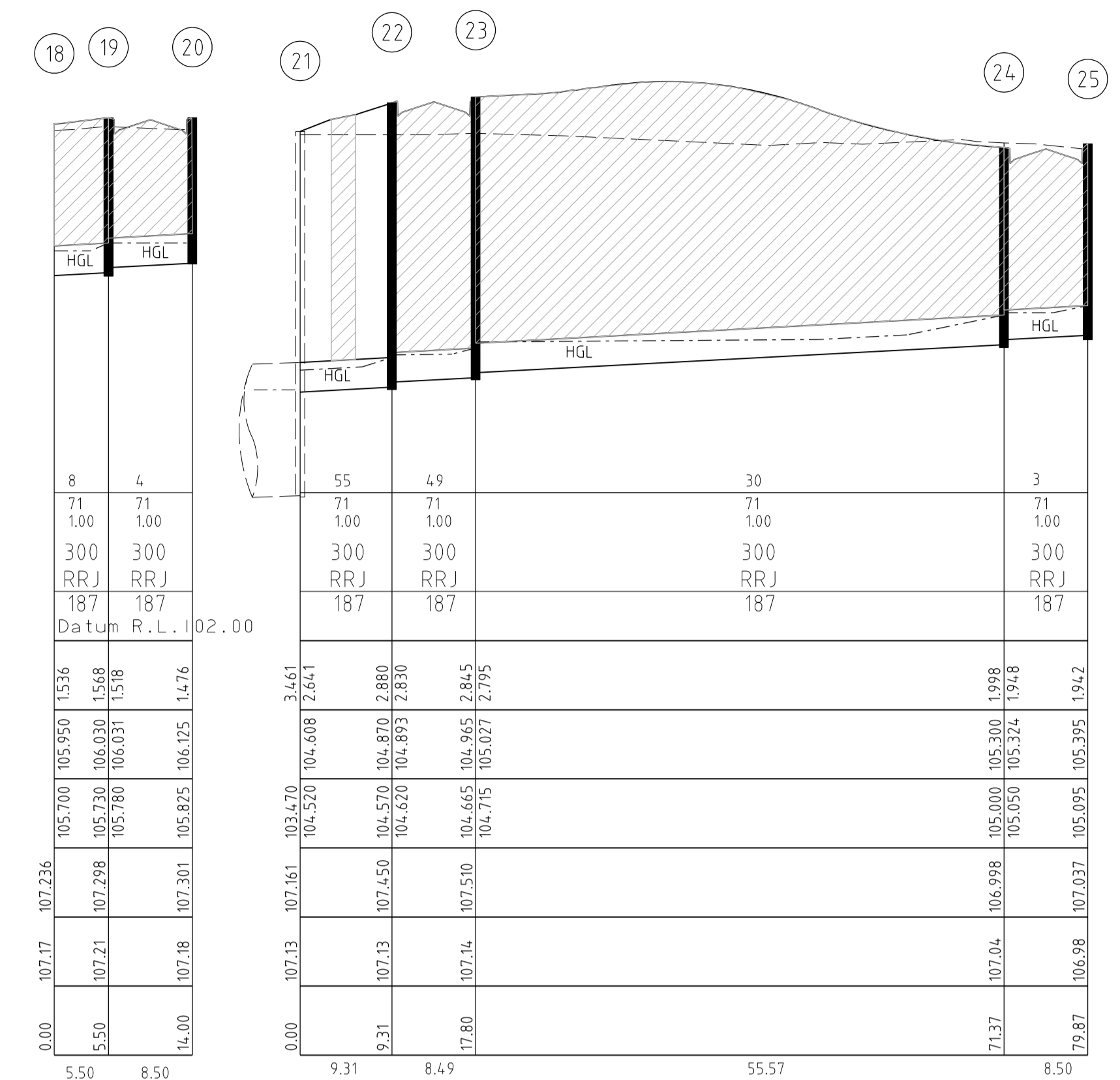
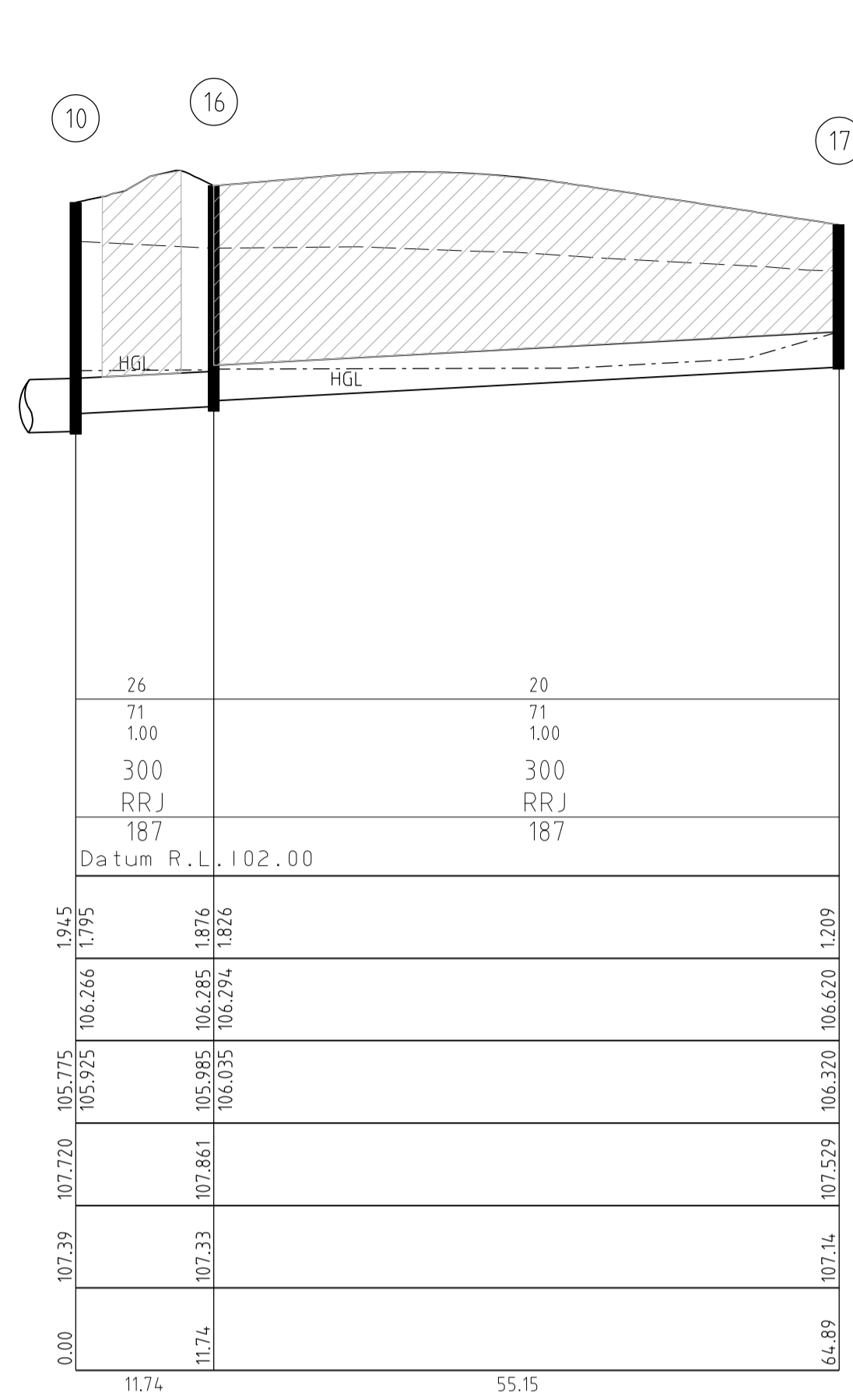
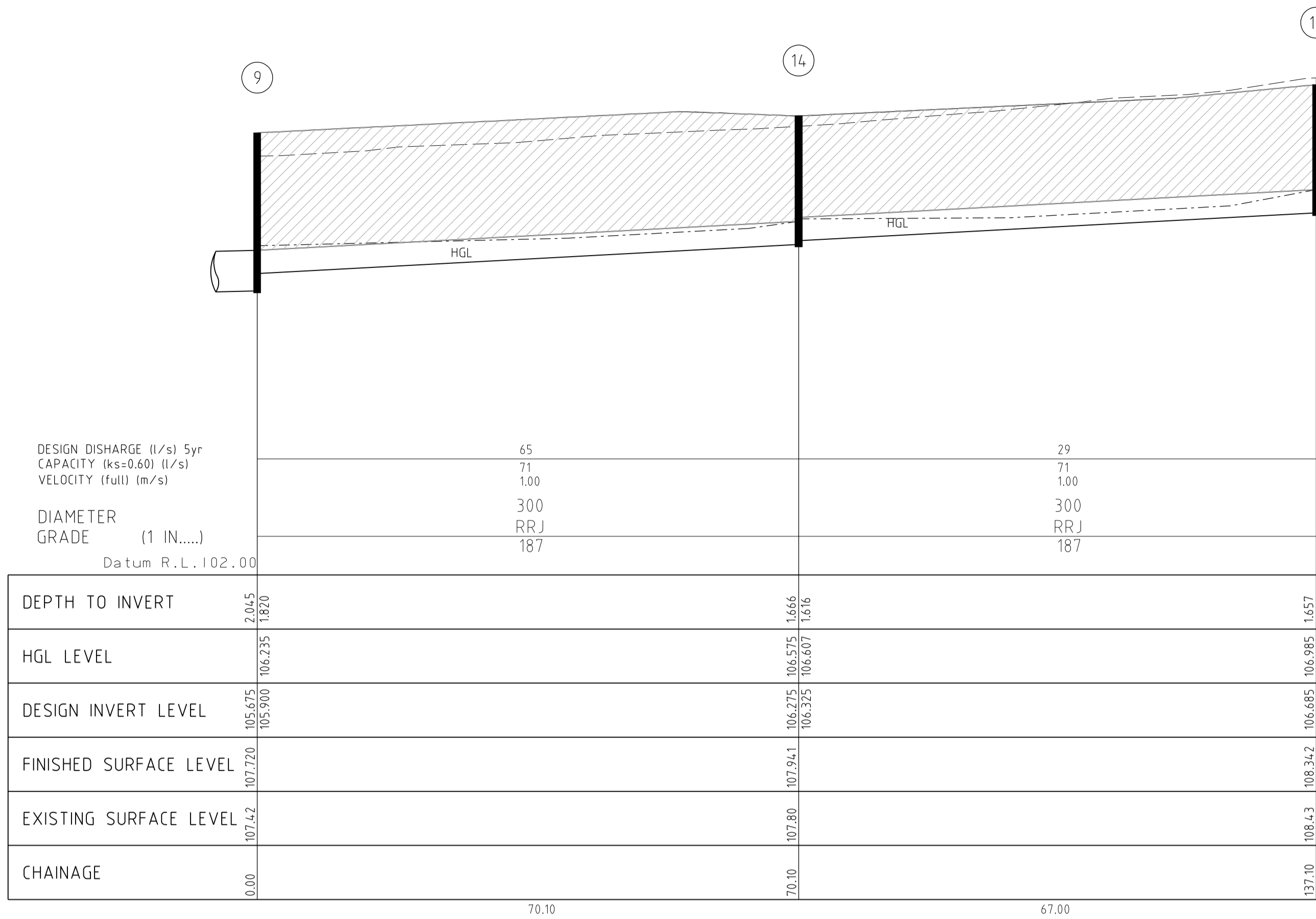
CHROMITE CIRCUIT CROSS SECTIONS

SCALE Hor. 1:100
Vert 1:50

AS CONSTRUCTED

AMENDMENTS	MELWAY REF. 342-J-7		breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
	SURVEY B.P.D.			
A 2.11.19	CONSTRUCTION ISSUE	DESIGN RK	OPALIA ESTATE STAGE 2	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN
				DATUM AHD
				DATE SEPT. 18
				SHEET 8 OF 11
				MUNICIPALITY MELTON
				REFERENCE 6751 E/2

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AS CONSTRUCTED

STORMWATER DRAINAGE LONGITUDINAL SECTIONS

SCALE Hor. 1:500
Vert 1:50

■ DENOTES CRUSHED ROCK BACKFILL

RRJ - RUBBER RING JOINTED

AMENDMENTS				breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
				MELTON	MUNICIPALITY
			MELWAY REF. 342-J-7	OPALIA ESTATE STAGE 2	REFERENCE 6751 E/2
			SURVEY B.P.D.	STORMWATER DRAINAGE LONGITUDINAL SECTIONS	SHEET 10 OF 11
			DESIGN RK	SCALE AS SHOWN DATUM AHD DATE SEPT. 18	CHECKED
			DRAWN RK	VER DATE REMARKS	A
			CHECKED	D:\topd - 6751\design\stage 2\2019-11-02\12-des.dgn	1/19



- NOTES**
- ALL SIGNS AND TRAFFIC CONTROL MEASURES, SHALL BE IN ACCORDANCE WITH AS1742.2. 1, 2 & 3
 - LINE MARKING TO AS1742.2, SHALL BE SETOUT, INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
 - ANY OBSOLETE LINEMARKING SHALL BE REMOVED BY AN APPROVED GRINDING OR STRIPPING METHOD, PRIOR TO NEW LINEMARKING BEING PLACED.
 - LINE MARKING SHALL BE IN ACCORDANCE WITH VIC ROADS REQUIREMENT WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VIC ROADS SPECIFICATION SEE SECTION 710 & 722)
 - THE CONTRACTOR SHALL PREPARE A TEMPORARY SIGNAGE & LINEMARKING PLAN FOR CONSTRUCTION PURPOSES. THIS PLAN IS TO BE DISCUSSED AT A SITE MEETING WITH VIC ROADS SURVEILLANCE OFFICER WHO SHALL BE CONTACTED 7 DAYS IN ADVANCE OF COMMENCEMENT OF WORKS.
 - SIGNING AND TRAFFIC MANAGEMENT MUST BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH 'VIC ROADS WORKSITE TRAFFIC MANAGEMENT MANUAL' WHICH INCORPORATES AS 1742.3 - 1996.
 - NO SITEWORKS SHALL COMMENCE UNTIL ALL TEMPORARY SIGNS ETC. ARE IN APPROVED LOCATIONS

SIGN SCHEDULE

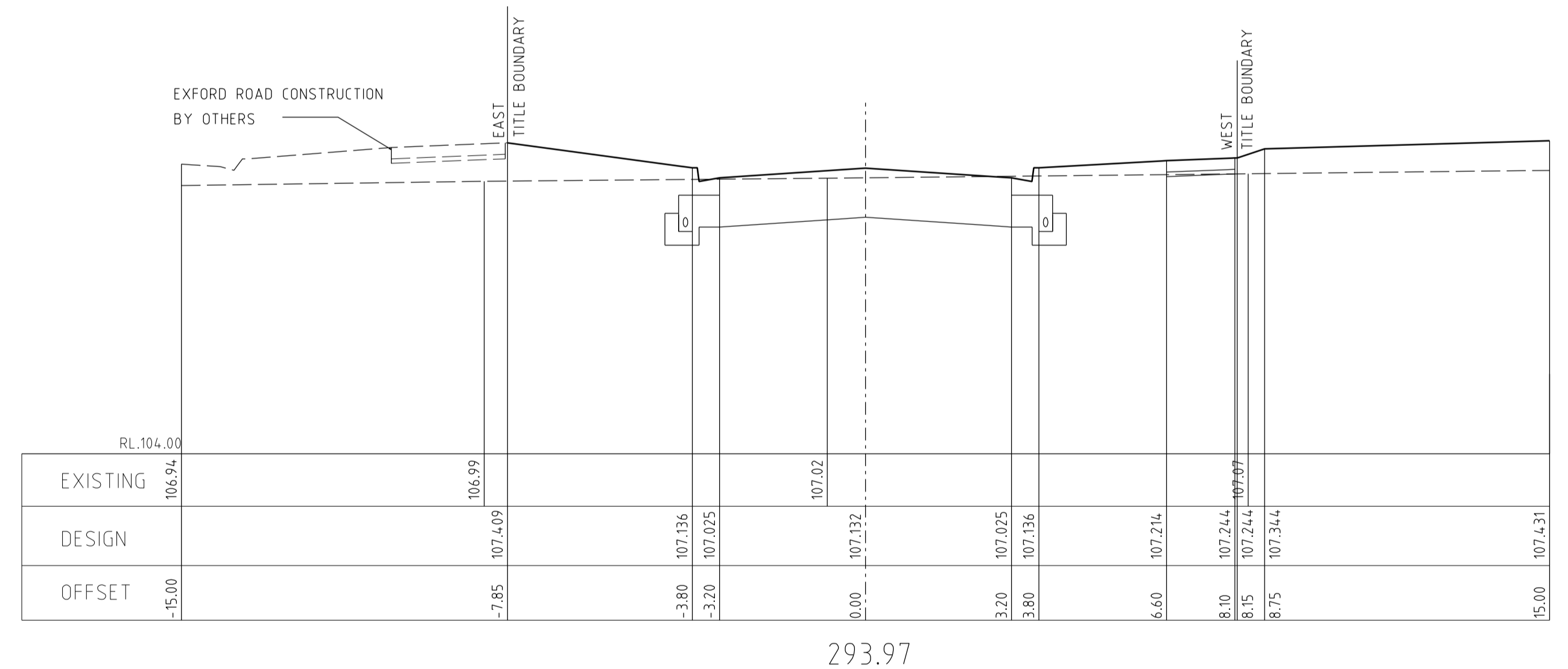
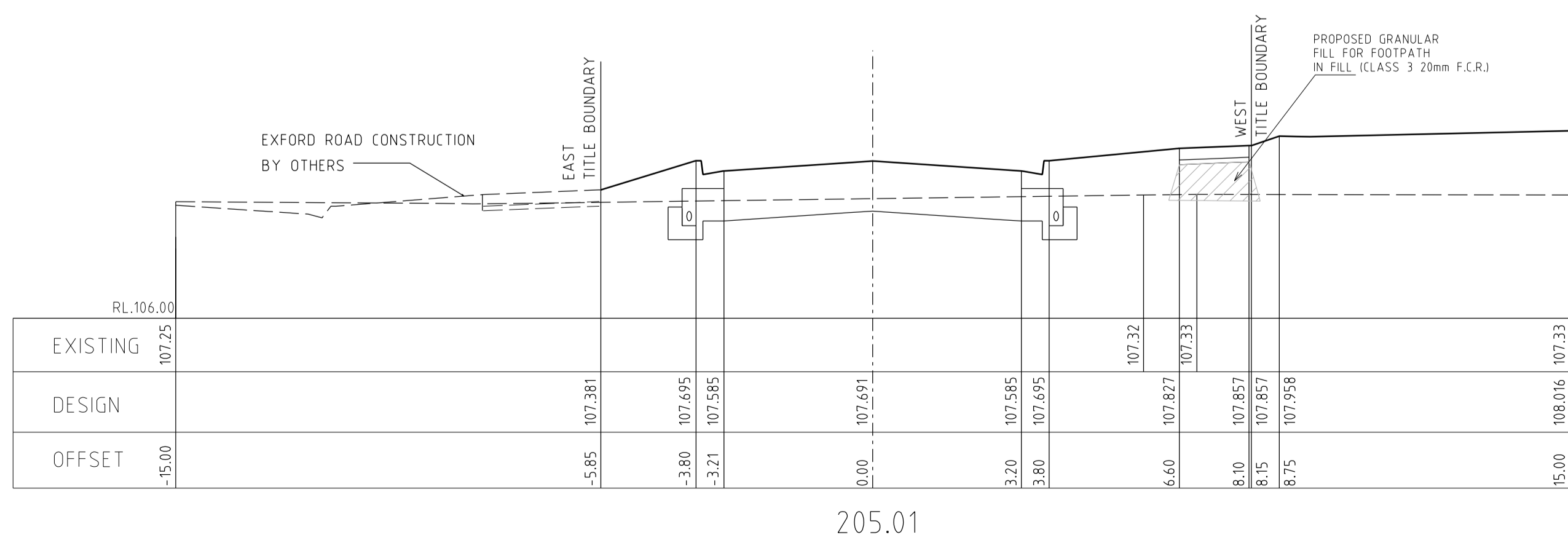
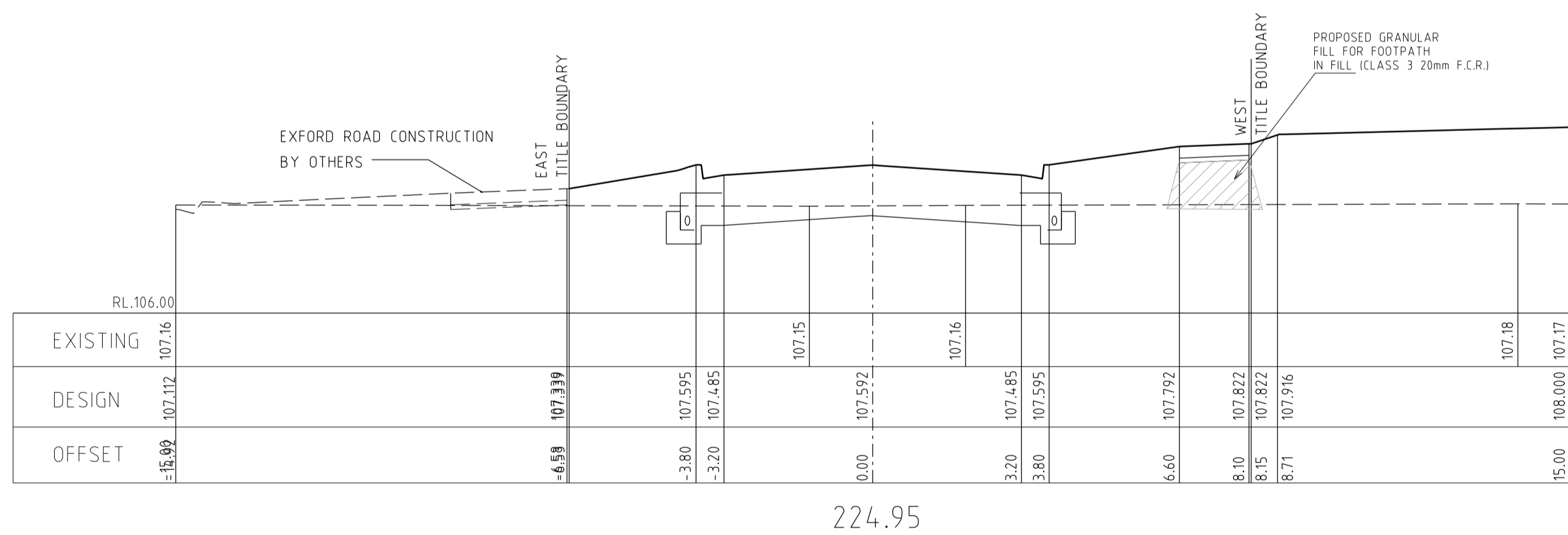
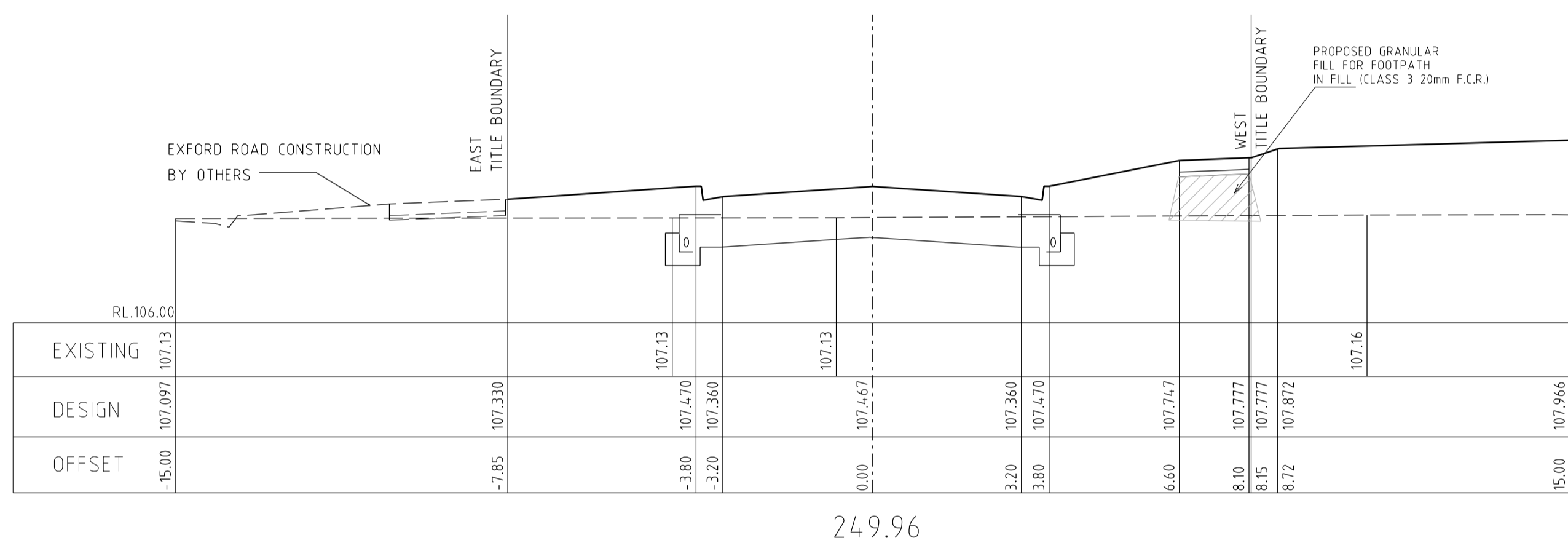
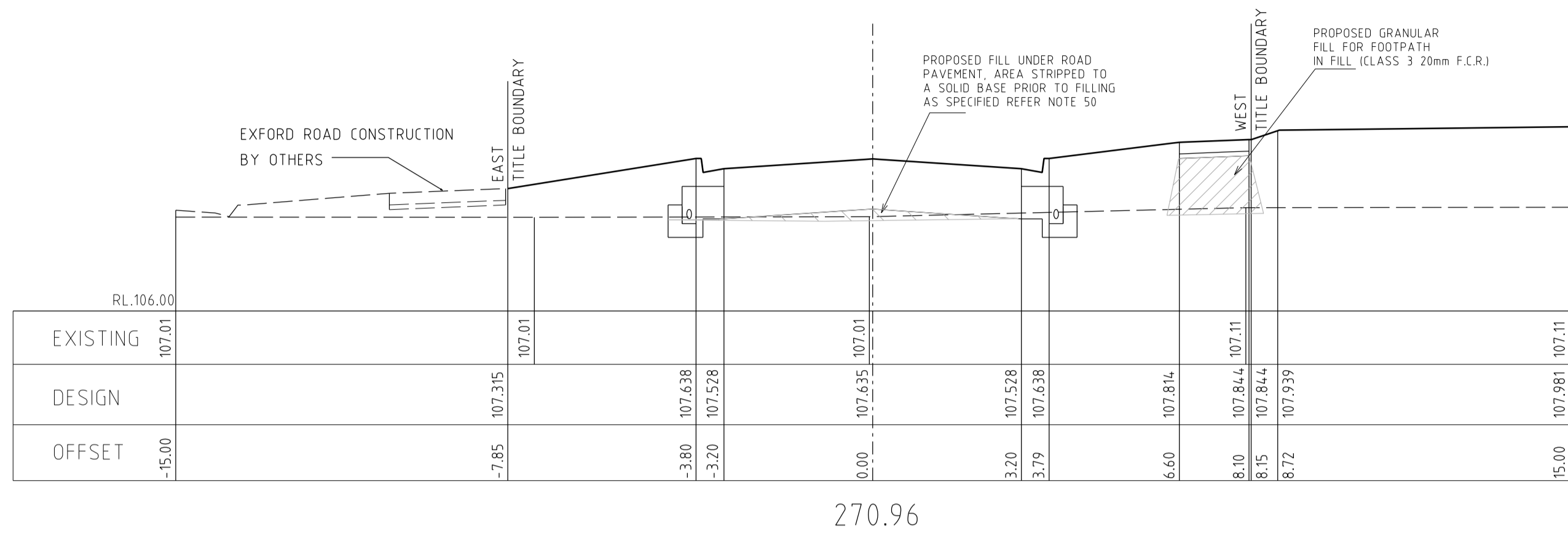
SIGN	DESCRIPTION
A	STREET NAME SIGN

BOTH FACES	BOTH FACES
STREET NAME	STREET NAME
A	

AS CONSTRUCTED

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 calo street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
OPALIA ESTATE STAGE 2		MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK		MUNICIPALITY MELTON	
LINE MARKING AND SIGNAGE PLAN		REFERENCE 6751 E/2		SHEET 11 OF 11 B	
VER.	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
					DATE SEPT. 18

PROJECT: 10/02/2019



CHROMITE CIRCUIT CROSS SECTIONS

SCALE Hor. 1:100
Vert 1:50

AS CONSTRUCTED

AMENDMENTS			MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK CHECKED	breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	MUNICIPALITY MELTON REFERENCE 6751 E/2	
	A	2.11.19				CONSTRUCTION ISSUE
	VER	DATE				REMARKS
	SCALE	AS SHOWN				DATUM AHD