

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.(I.J.). 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 SUPERINTENDANT 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 EDMC 2019 703, EDMC 2019 702, EDMC 2019 703 & EDMC 2019 704.
- LOTS DENOTED THUS 25H ARE TO BE PROVIDED WITH A 100mm DIA. HOUSE DRAIN LOCATED 5.5m FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. REFER GAA STD DWGS EDMC 2019 701 & EDMC 2019 703.
- 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 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" TYPE 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 UNSTANDARD 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 RAMP 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 90mm OF CLASS 3 CR. REFER GAA STD DWG EDMC 2019 401.
- PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER GAA STD DWG EDMC 2019 403.
- 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 BOUNDARIES 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 EDMC 2019 301 & EDMC 2019 302 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 DETAILS THIS SHEET

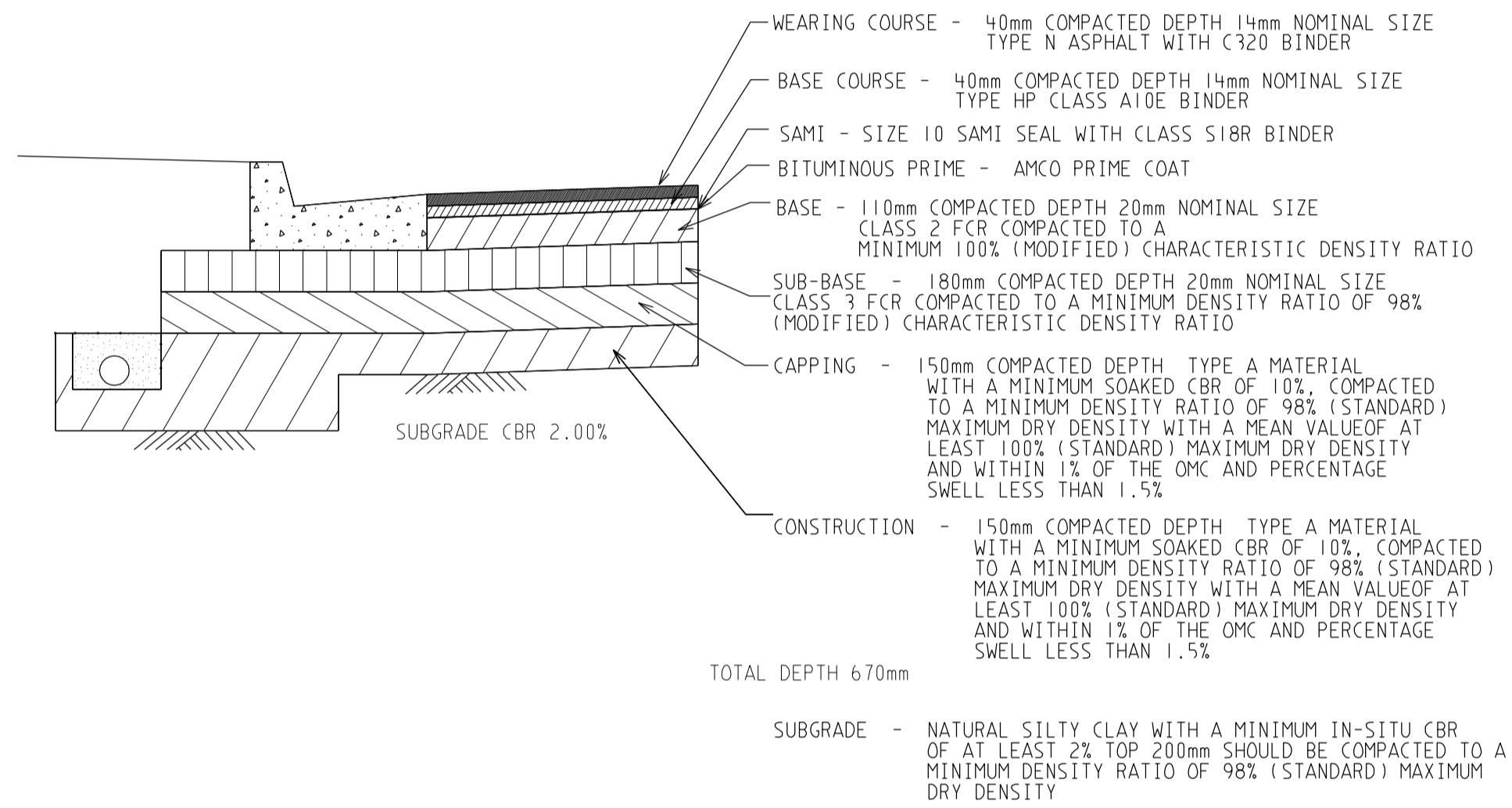
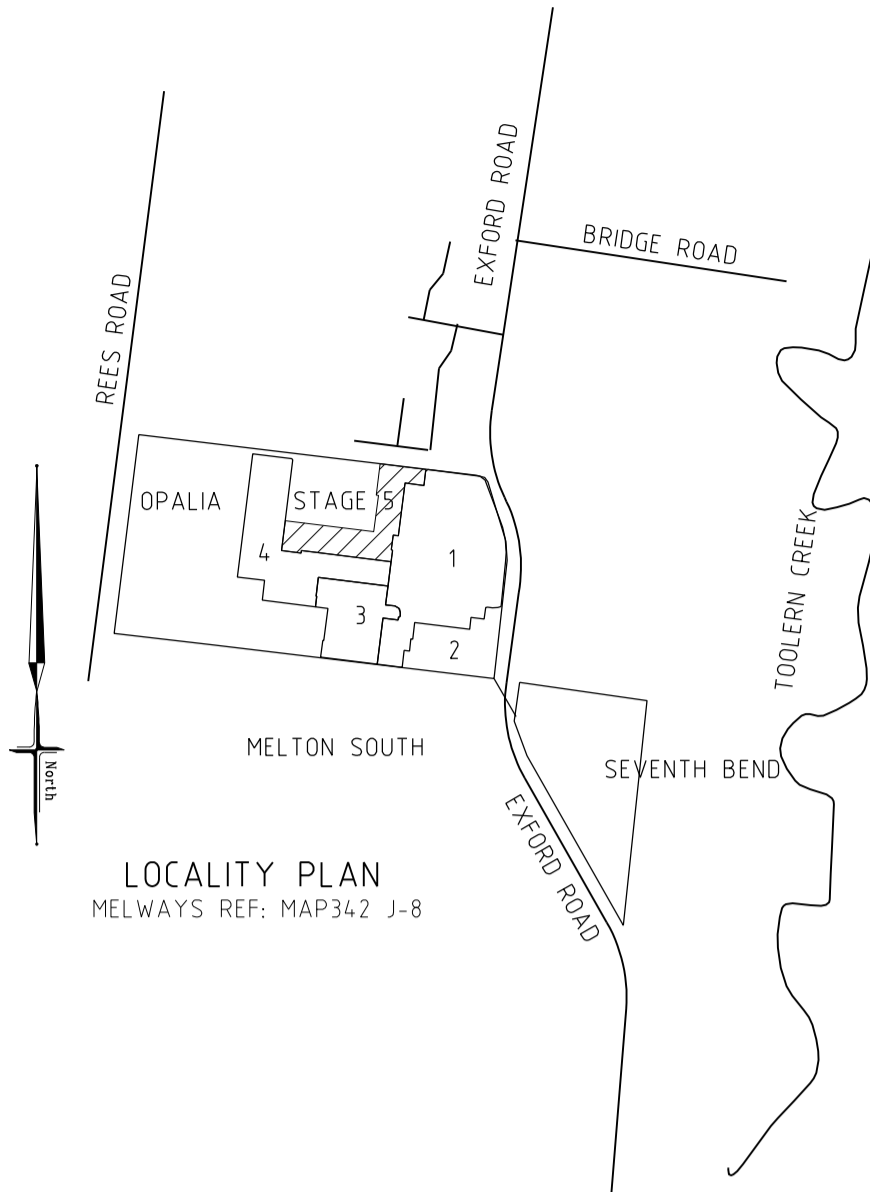
PAVEMENT NOT TO BE FOUNDED ON CLAYEY SILT OR UNCONTROLLED FILL MATERIAL SUBGRADE. PAVEMENT TO BE AS PER SPECIFICATIONS OF CARDNO GEOTECHNICAL INVESTIGATION 215255 REPORT 01.2, MARCH 2016

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 PI x % LESS THAN 0.425mm OF LESS THAN 1200. THIS MATERIAL SHOULD ALSO HAVE A HYDRAULIC CONDUCTIVITY OF LESS THAN 1×10^{-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.

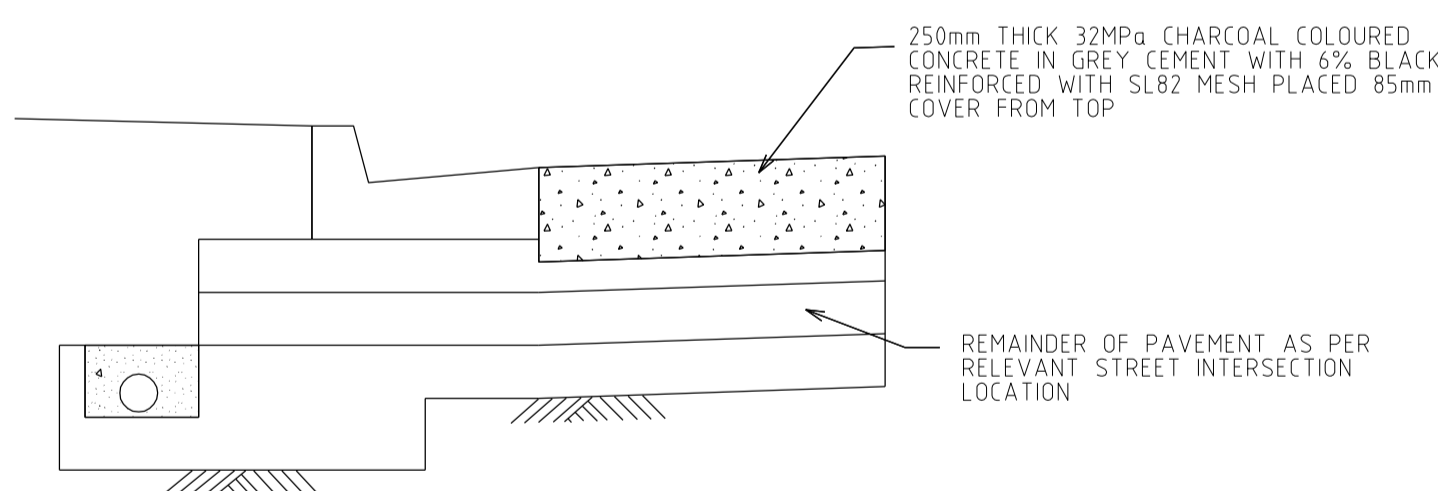
- MODIFICATION OF THE PAVEMENT REQUIRES APPROVAL BY THE CITY OF MELTON WORKS SUPERVISOR.
- EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED 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-INSTAEMENT 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 MM 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 (TGS) ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS.REFER GAA STD DWG EDMC 2019 403.
- 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



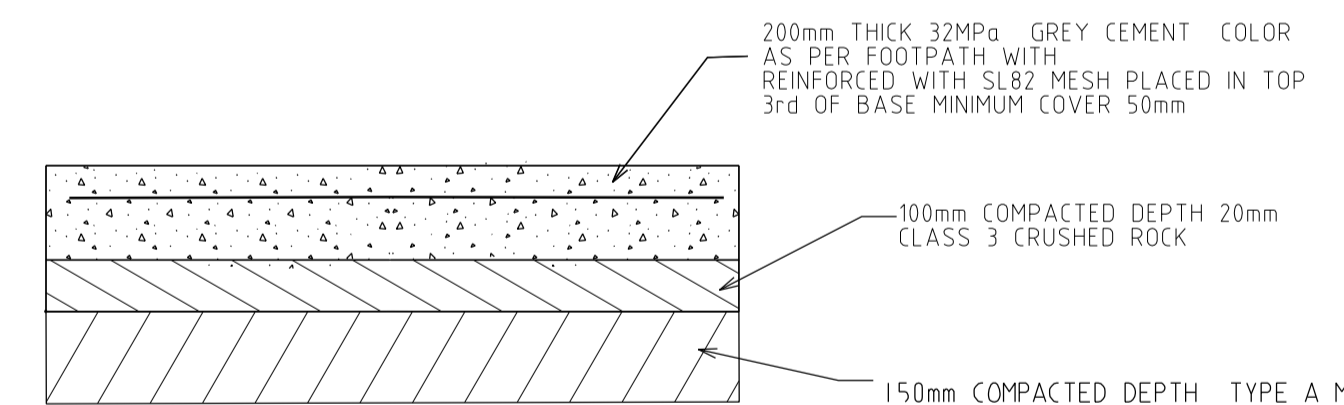
LOCAL STREET - PEGASUS DRIVE, SKYPAC STREET, HEMSWORTH ROAD, ATHENA ROAD NOVA STREET

PAVEMENT COMPOSITION

NOT TO SCALE



PAVEMENT COMPOSITION

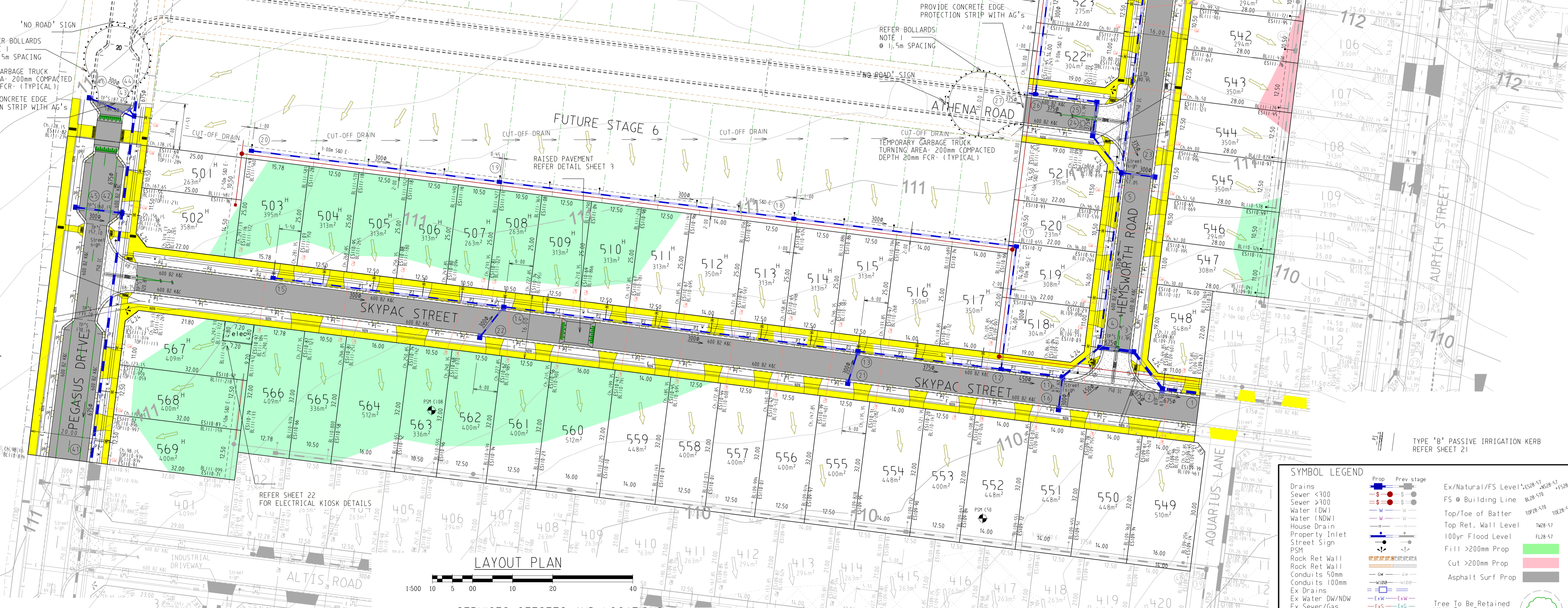
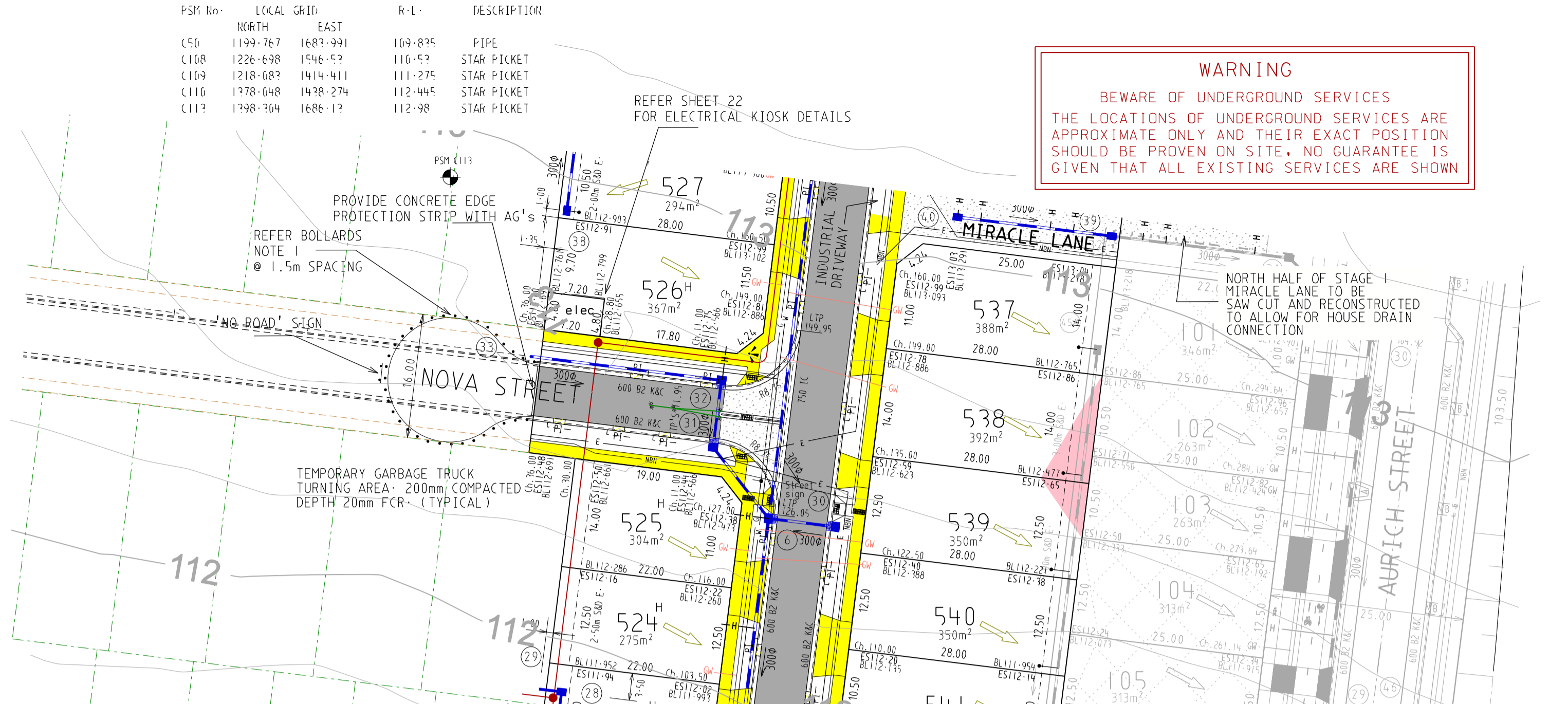
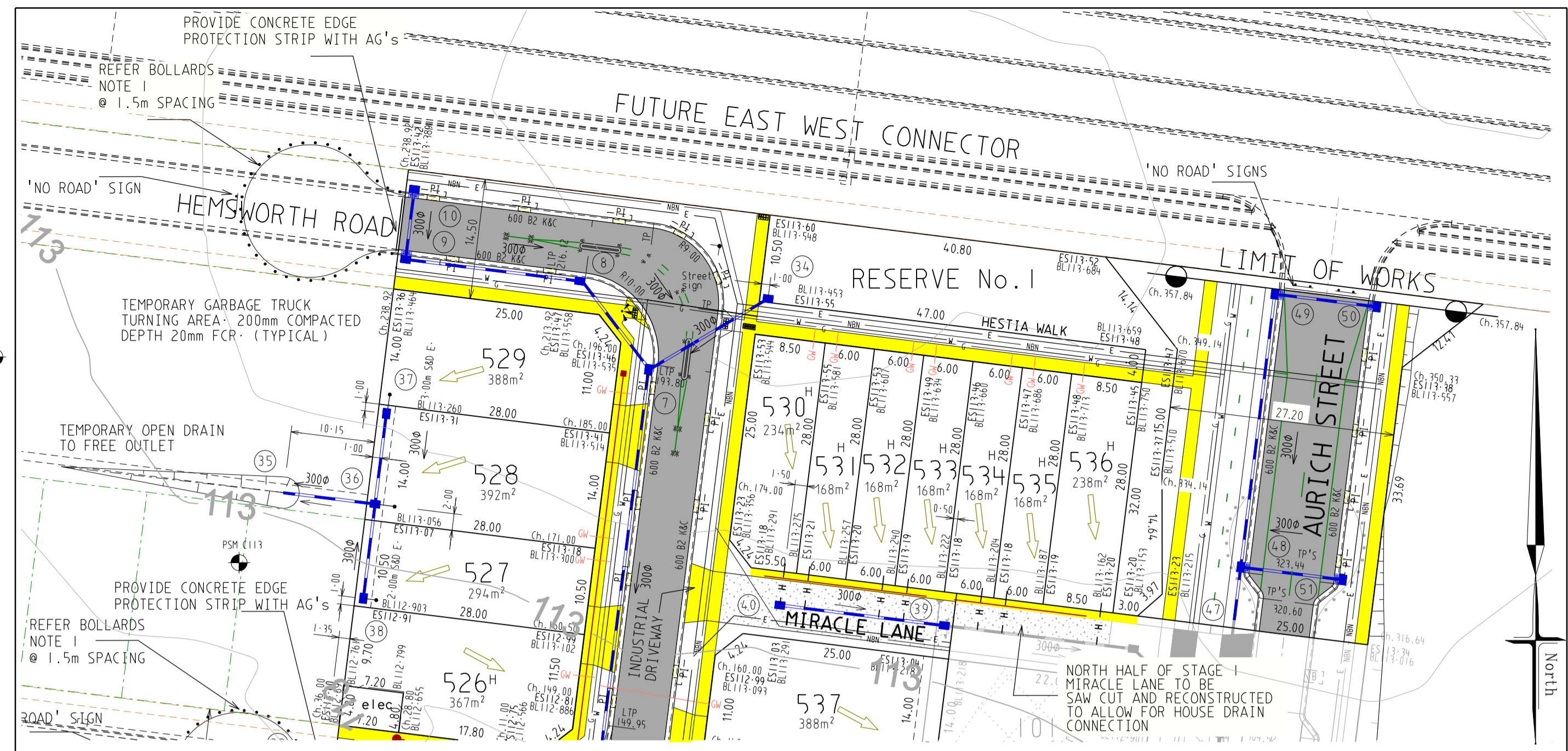


PAVEMENT COMPOSITION

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	E	GENERAL NOTES, PAVEMENT DETAILS, DRAWING SCHEDULE, LOCALITY PLAN
2	D	LAYOUT PLAN
3	D	TYPICAL CROSS SECTIONS, THRESHOLD DETAIL, SPEED HUMP DETAILS
4	B	INTERSECTION DETAILS
5	A	INTERSECTION DETAILS AND LIP PROFILES
6	A	PEGASUS DRIVE LONGITUDINAL SECTION
7	A	PEGASUS DRIVE CROSS SECTIONS
8	A	SKYPAC STREET LONGITUDINAL SECTION
9	A	SKYPAC STREET CROSS SECTIONS
10	A	SKYPAC STREET CROSS SECTIONS
11	A	HEMSWORTH ROAD LONGITUDINAL SECTION
12	A	HEMSWORTH ROAD CROSS SECTIONS
13	A	HEMSWORTH ROAD STREET CROSS SECTIONS
14	A	ATHENA ROAD LONGITUDINAL AND CROSS SECTIONS
15	A	NOVA STREET LONGITUDINAL AND CROSS SECTIONS
16	A	MIRACLE LANE LONGITUDINAL AND CROSS SECTIONS
17	A	ALURICH STREET LONGITUDINAL AND CROSS SECTIONS
18	A	STORMWATER DRAINAGE LONGITUDINAL SECTIONS
19	A	STORMWATER DRAINAGE LONGITUDINAL SECTIONS
20	B	STORMWATER DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE
21	A	SIGNAGE AND LINE MARKING PLAN
22	A	MIRACLE LANE PAVEMENT JOINT DETAILS
23	C	PASSIVE IRRIGATION PLAN

		1/19 catc street hawthorn east, 3123 telephone RR23 2300 fax no. RR23 2310	
MELWAY REF. 342-J-7		MUNICIPALITY MELTON	
SURVEY B.P.D.		REFERENCE 6751 E/05	
DESIGN RK		GENERAL NOTES, PAVEMENT DETAILS	
DRAWN RK		SCALE AS SHOWN DATUM AHD DATE APR. 20 SHEET 1 OF 23	
CHECKED		E	



BOLLARDS

1. TRAFFIC EXCLUSION TREATMENTS ARE DETAILED ON THE LANDSCAPE PLANS TO THE SATISFACTION OF MELTON CITY COUNCIL, SUPPLY 1xREMOVABLE BOLLARD IN AREAS NOTED

SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd. RESERVE	WATER	GAS	ELECTRICITY CABLES	POLES	FIBRE TO THE HOME CABLES	PITS	Bk. OF KERB	JOINT TRENCHING
PEGASUS DRIVE	20-00	2-60 E	2-10 E	3-10W	0-90 BOK	2-30 W	2-30 W	4-55	E, T, G, W
SKYPAC STREET	16-00	2-60 N	2-10 N	2-60 S	0-90 BOK	1-85 S	1-40 S	4-20	E, T, G, W
SKYPAC STREET LOT 567	16-00	2-60 N	2-10 N	2-40 S	0-90 BOK	1-00 S	1-00 S	4-20	E, T, G, W
HEMSWORTH ROAD	16-00	2-60 W	2-10 W	2-60 E	0-90 BOK	1-85 E	1-85 E	4-20	E, T, G, W
HEMSWORTH ROAD (14-50)	14-50	2-60 S	2-10 S	1-20 N	0-90 BOK	0-30 N	0-30 N	4-20 S	E, T, G, W
ATHENA ROAD	16-00	2-60 N	2-10 N	2-60 S	0-90 BOK	1-85 S	1-85 S	4-20	E, T, G, W
NOVA STREET	16-00	2-60 N	2-10 N	2-40 S	0-90 BOK	1-00 S	1-85 S	4-20	E, T, G, W
HESTIA WALK	4-00	2-20 S	1-80 S	3-40	-	2-75	2-75	-	E, T, G, W
AURICH STREET	VARIABLES	5-70 BOK W	5-80 BOK W	2-90 E	0-90 BOK	2-20 E	1-85 E	6-25 E	E, T, G, W
MIRACLE LANE	8-00	2-00 S	2-00 S	1-40 S	1-40 S	1-40 S	1-40 S	-	-

AMENDMENTS

VER	DATE	REMARKS	CHECKED
D	26-02-2022	HESTIA WALK SERVICES OFFSETS AMENDED CONDUITS AMENDED LOTS 564, 505, 562, 526	MELWAY REF. 342-J-7
C	12-02-2022	AURICH NBN OFFSET AMENDED, EX CONTOURS SHOWN	SURVEY B.P.D.
B	26-11-2020	PASSIVE IRRIGATION ADDED FRONT LOT 562, AURICH WATER AND GAS OFFSETS AMENDED	DESIGN RK
A	18-11-2020	CONSTRUCTION ISSUE	DRAWN RK

breese pitt dixon pty. ltd.
land surveyors civil engineers

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

**OPALIA ESTATE
STAGE 5
LAYOUT PLAN**

MUNICIPALITY: MELTON
REFERENCE: 6751 E/05

SCALE AS SHOWN DATUM AHD DATE APR. 20 SHEET 2 OF 23

PSM No. LOCAL GRID EAST R-L DESCRIPTION

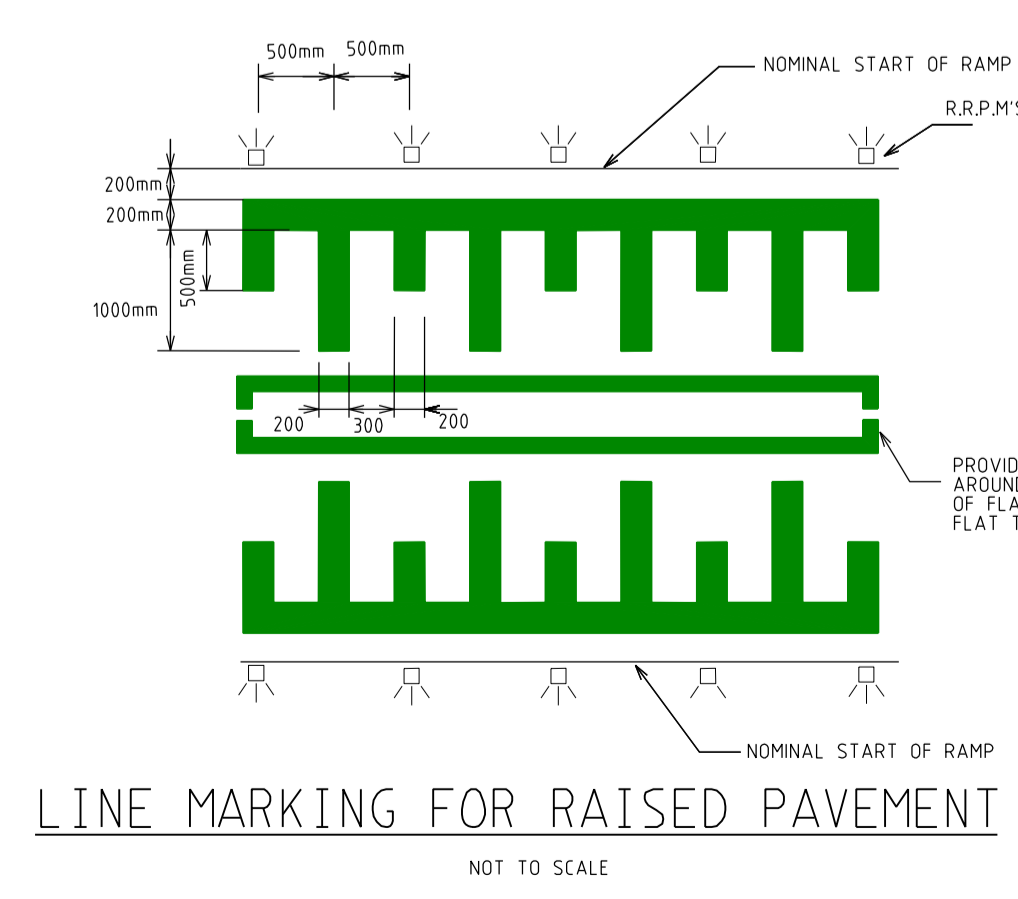
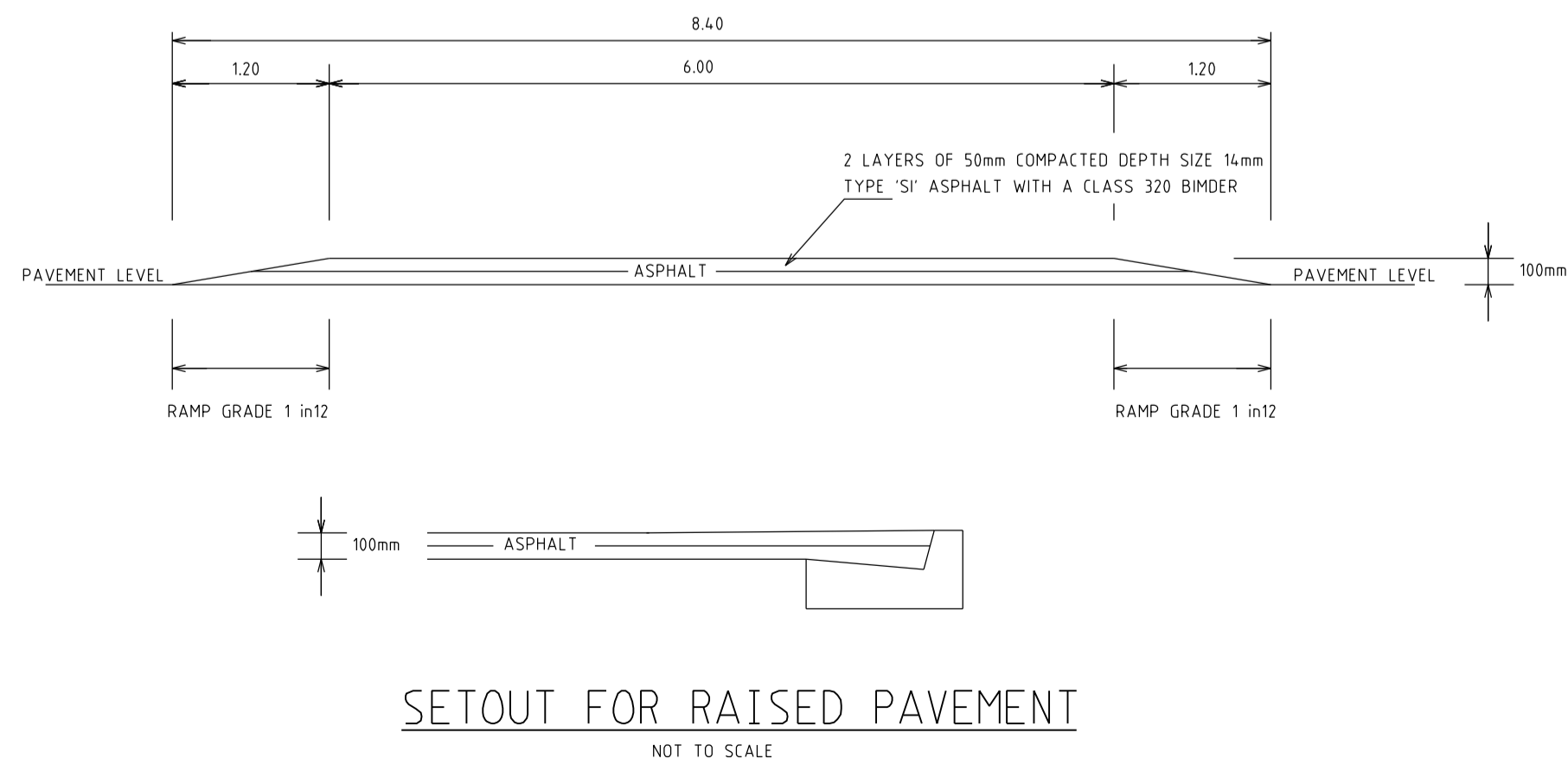
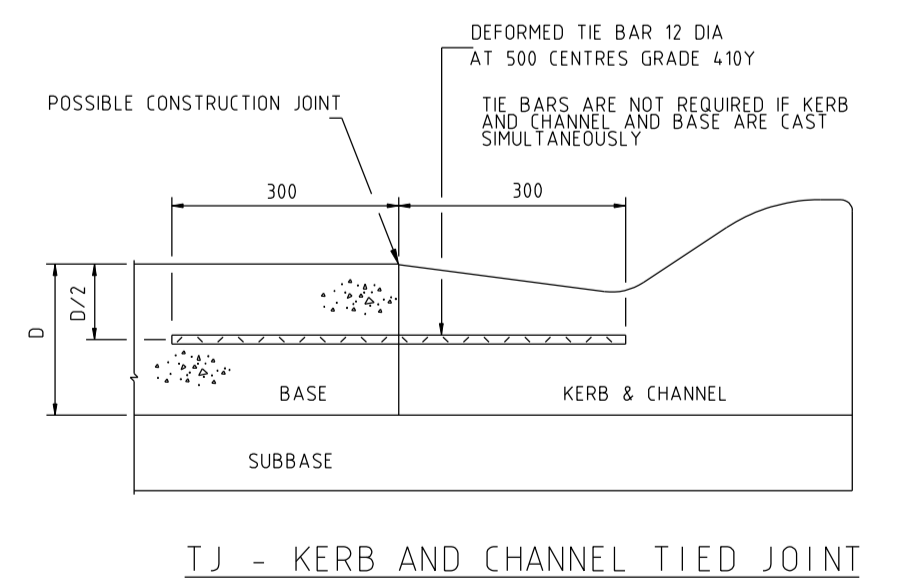
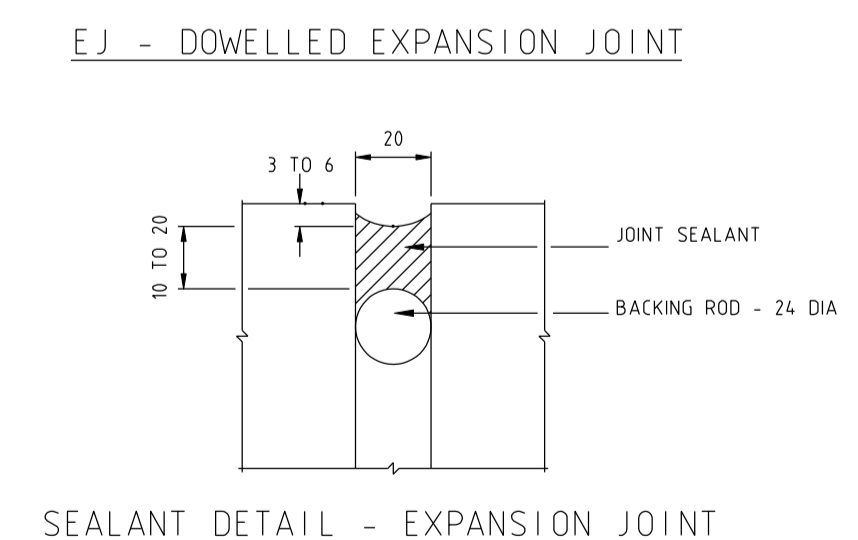
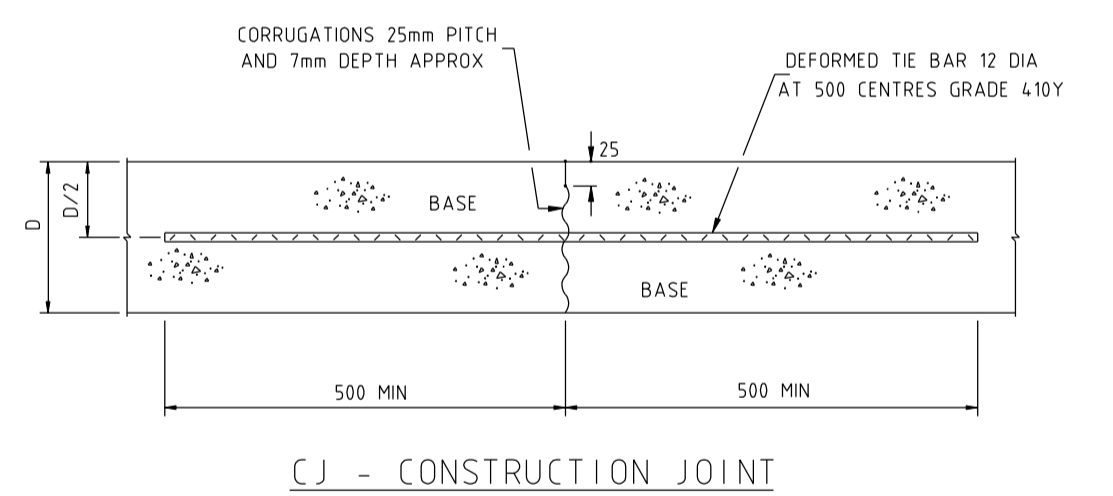
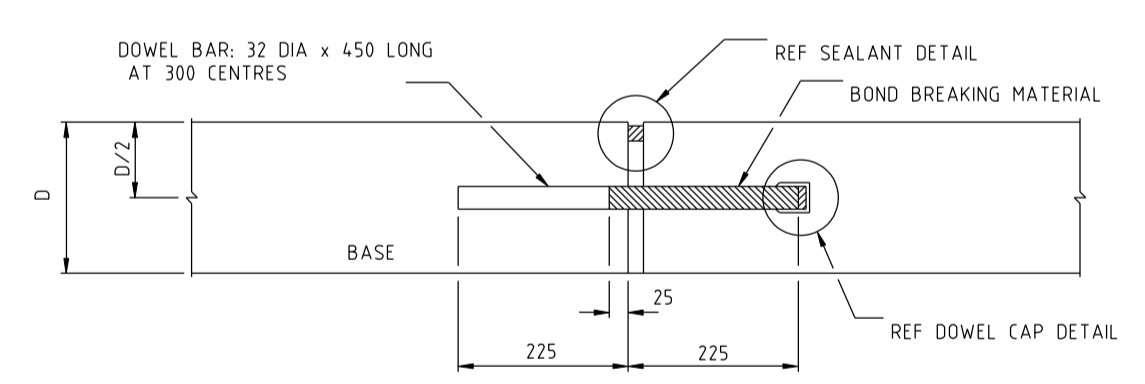
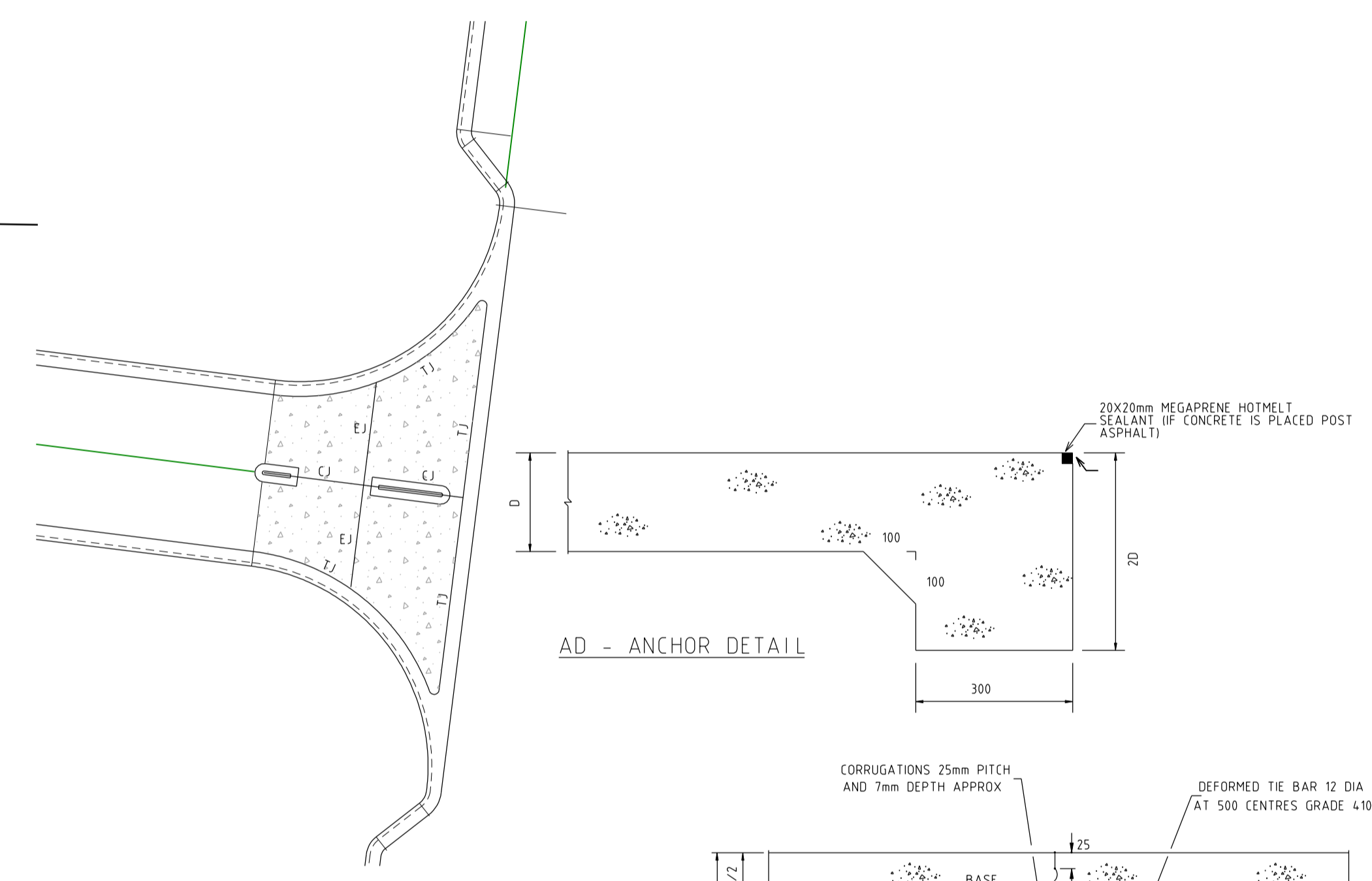
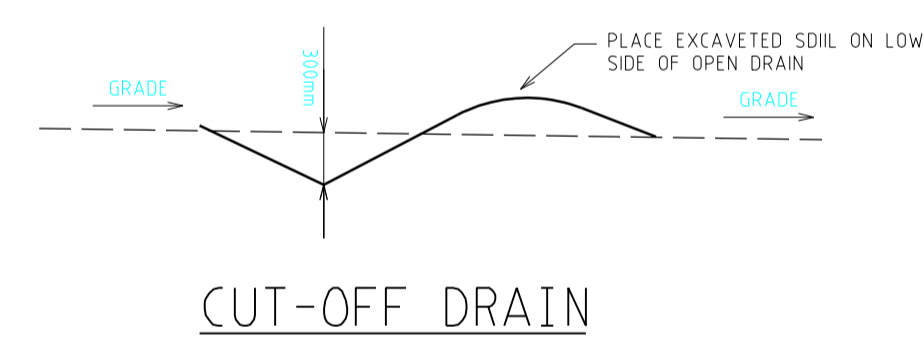
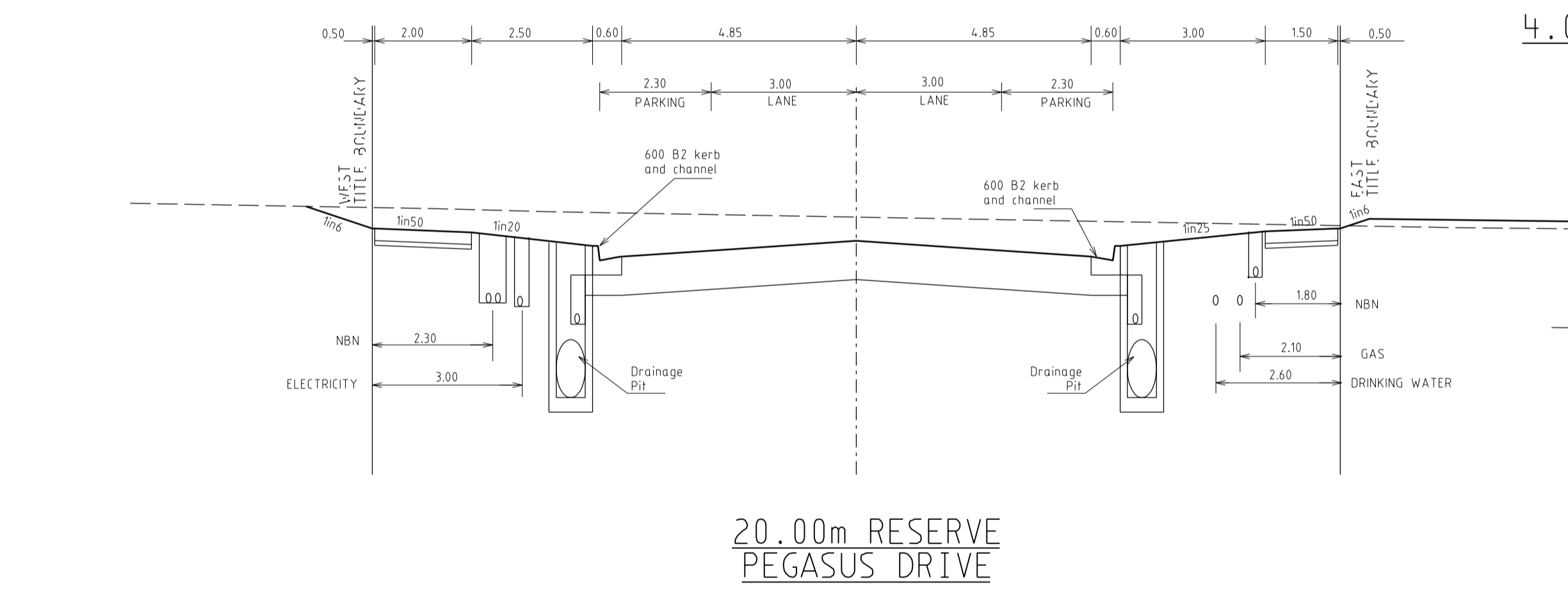
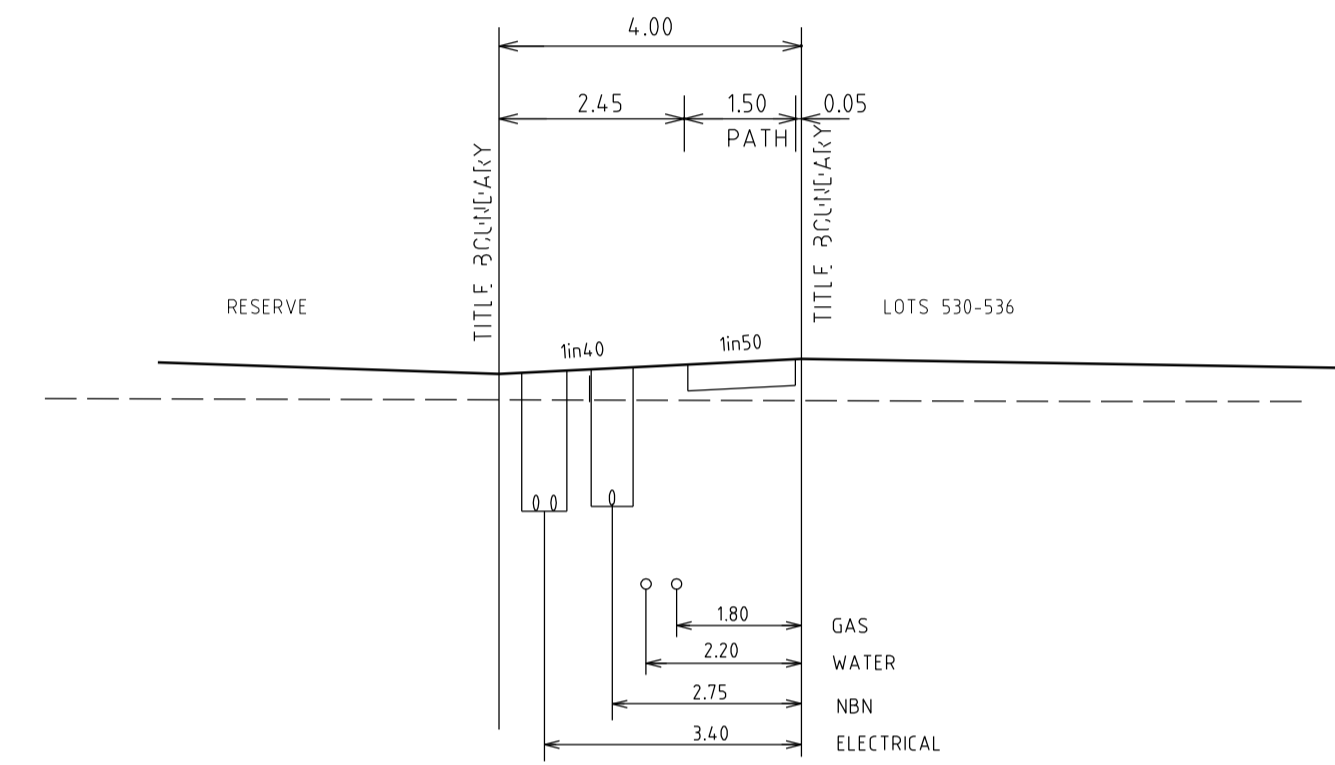
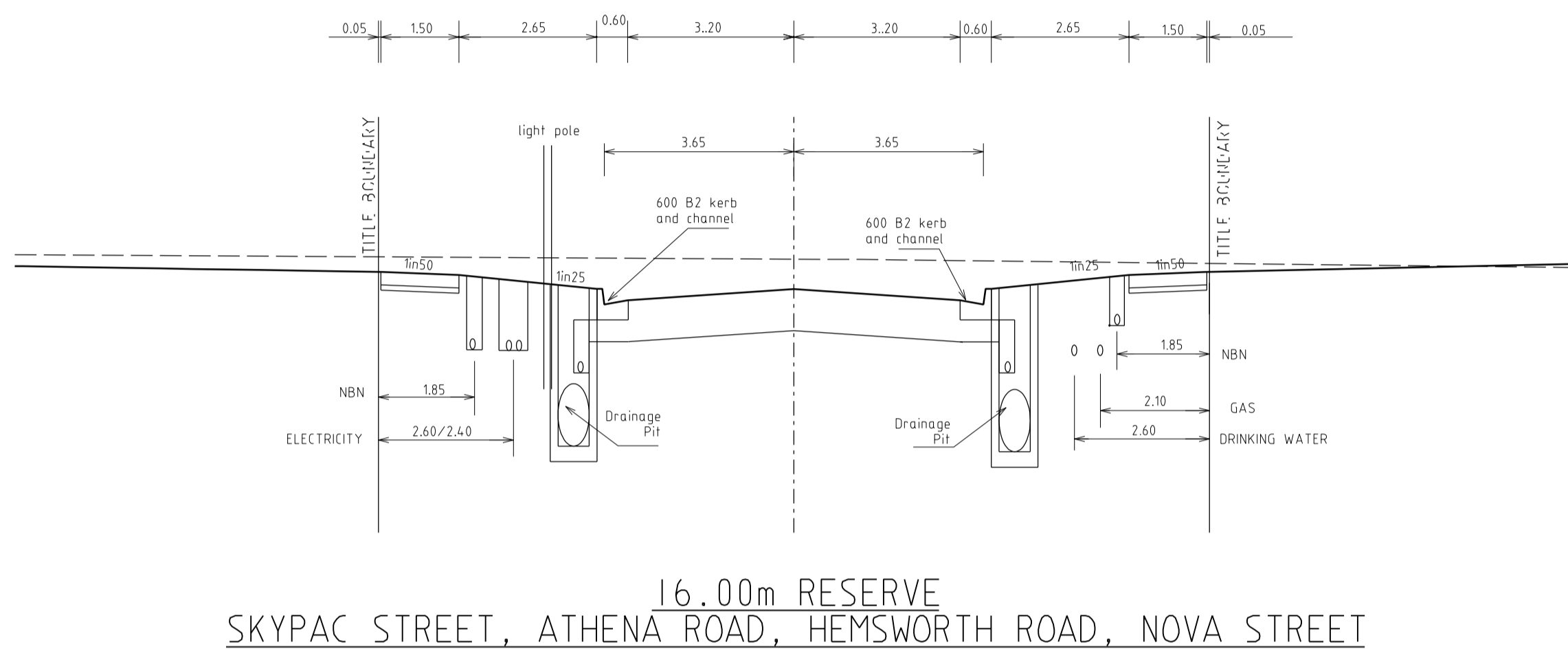
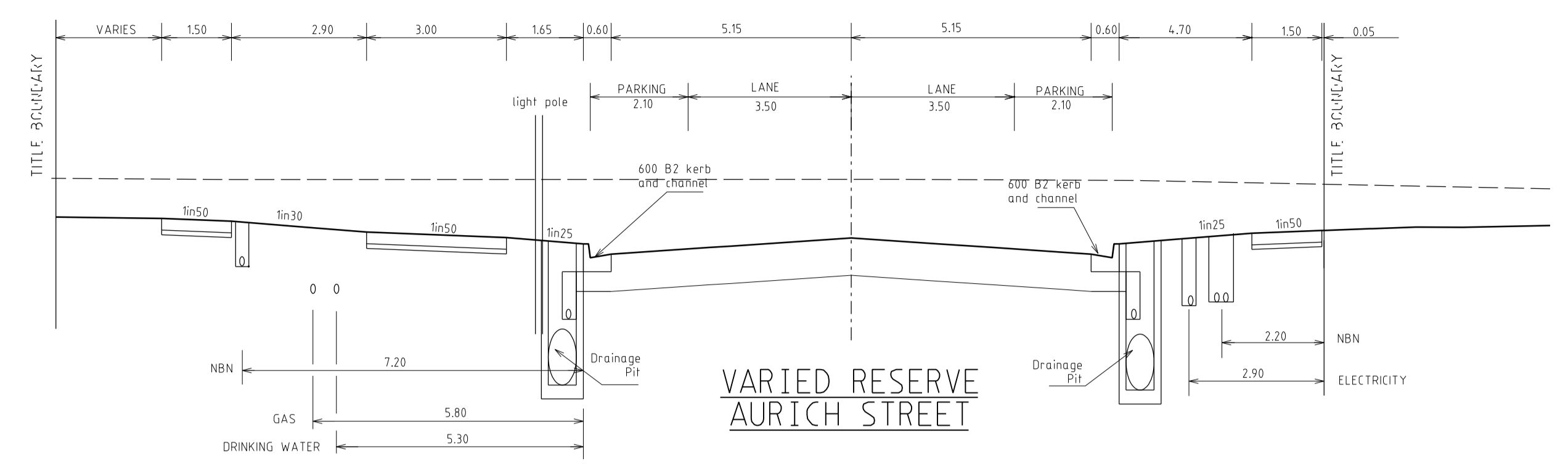
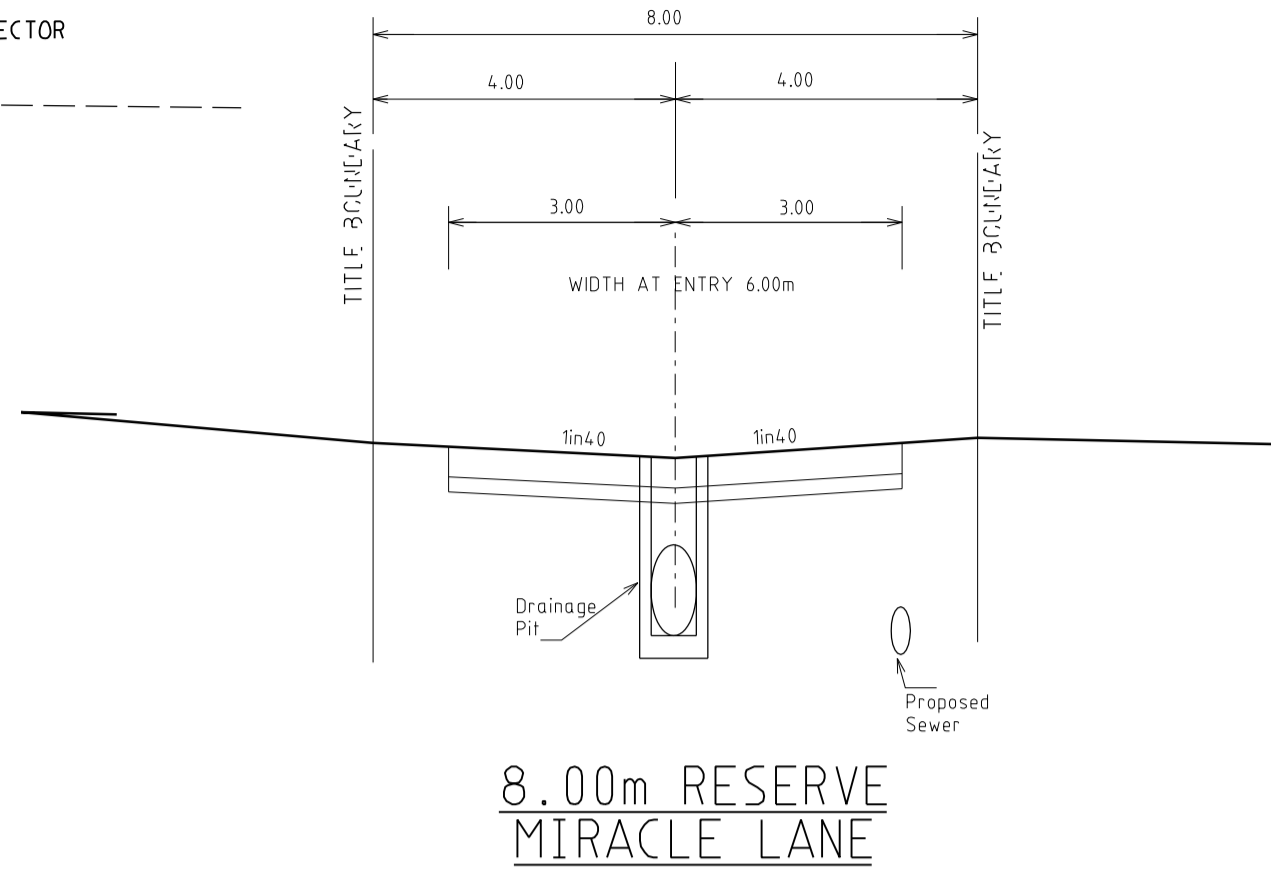
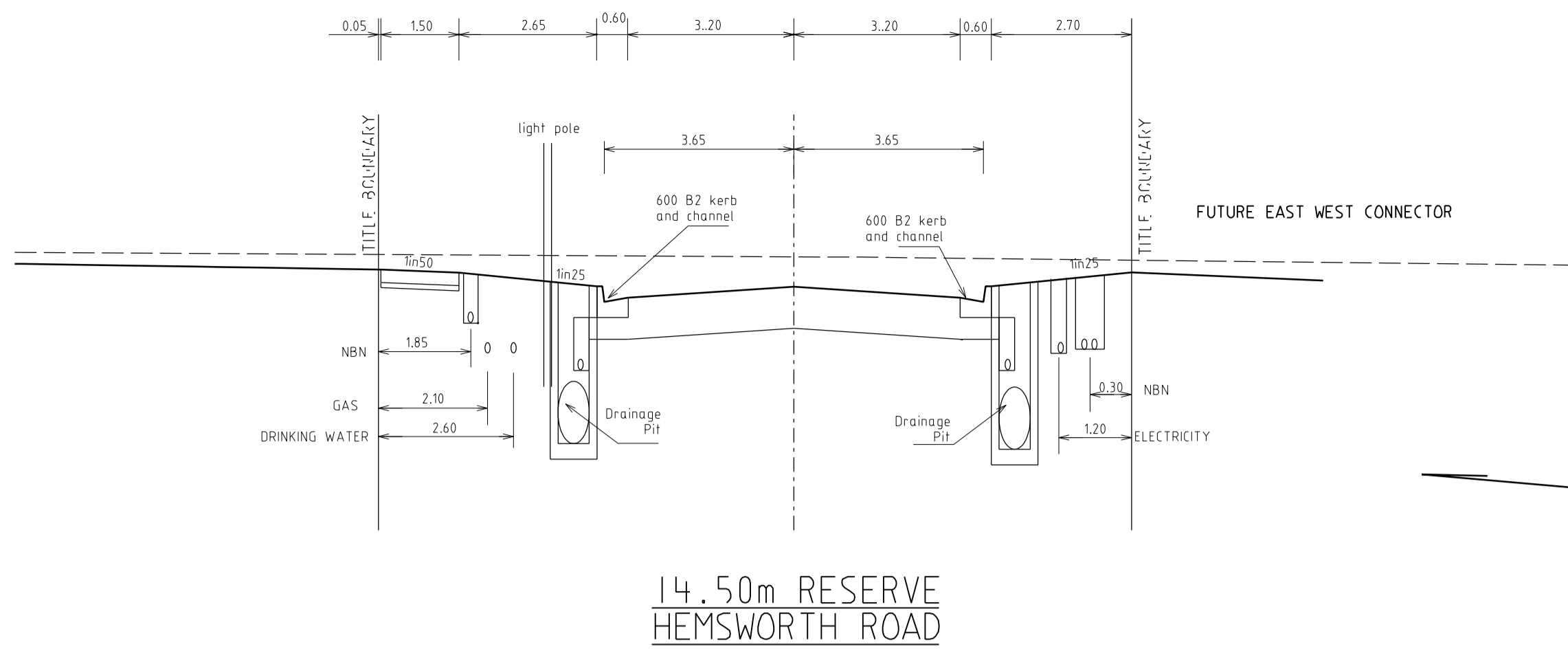
C50	1199-767	1683-991	169-835	PIPE
C108	1226-638	1546-53	116-53	STAR PICKET
C109	1218-083	1414-411	111-275	STAR PICKET
C110	1378-048	1438-274	112-445	STAR PICKET
C112	1398-304	1686-13	112-38	STAR PICKET

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

SYMBOL LEGEND

- Drains <300
- Sewer >300
- Water (DW)
- Water (NDW)
- House Drain
- Property Inlet
- Street Sign
- PSM
- Rock Ret Wall
- Conduits 50mm
- Conduits 100mm
- Ex Drains
- Ex Water DW/NDW
- Ex Sewer/Gas
- Ex Elect/Tel
- Tree To Be Retained With Tree Protection Zone (TPZ)
- Tree To Be Removed
- Ex/Natural/FS Level
- FS @ Building Level
- Top/Toe of Batter
- Top Ret. Wall Level
- 100yr Flood Level
- Fill >200mm Prop
- Cut >200mm Prop
- Asphalt Surf Prop



		 land surveyors civil engineers		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
AMENDMENTS	D	26-02-2021	HESTIA WALK SERVICES OFFSETS AMENDED	MELWAY REF.	742-J-7
	C	12-02-2021	AURICH NBN OFFSET AMENDED	SURVEY	B.P.D.
	B	26-11-2020	AURICH WATER AND GAS OFFSET AMENDED	DESIGN	RK
	A	18-11-2020	CONSTRUCTION ISSUE	DRAWN	RK
VER.	DATE	REMARKS	CHECKED	SCALE	AS SHOWN
				DATUM	AHD
				DATE	APR. 20
				SHEET	3 OF 23
				MUNICIPALITY	MELTON
				REFERENCE	6751 E/05

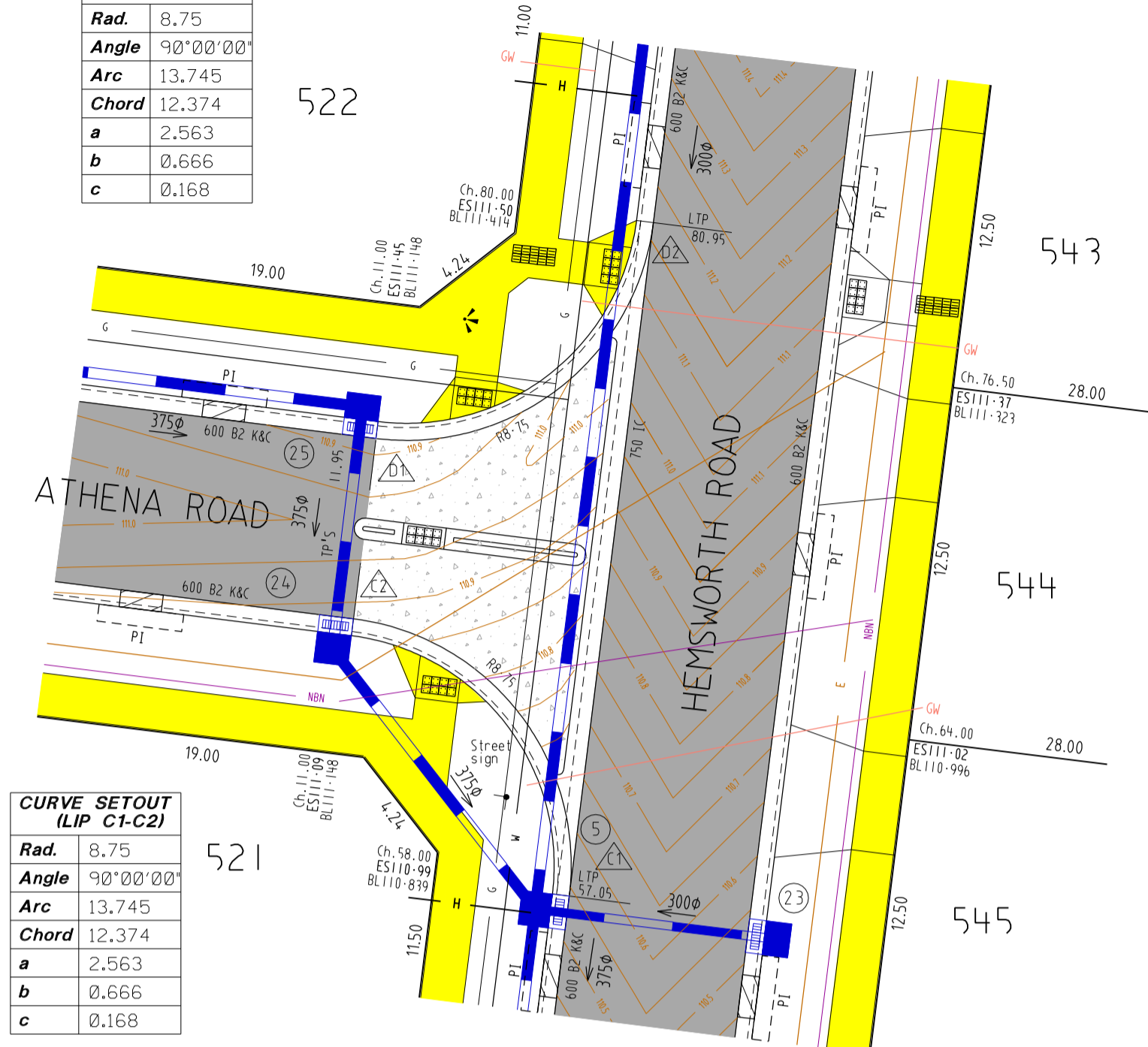
**OPALIA ESTATE
STAGE 5**

TYPICAL CROSS SECTIONS AND DETAILS

FILES

CURVE SETOUT (LIP D1-D2)

Rad.	8.75
Angle	90°00'00"
Arc	13.745
Chord	12.374
a	2.563
b	0.666
c	0.168



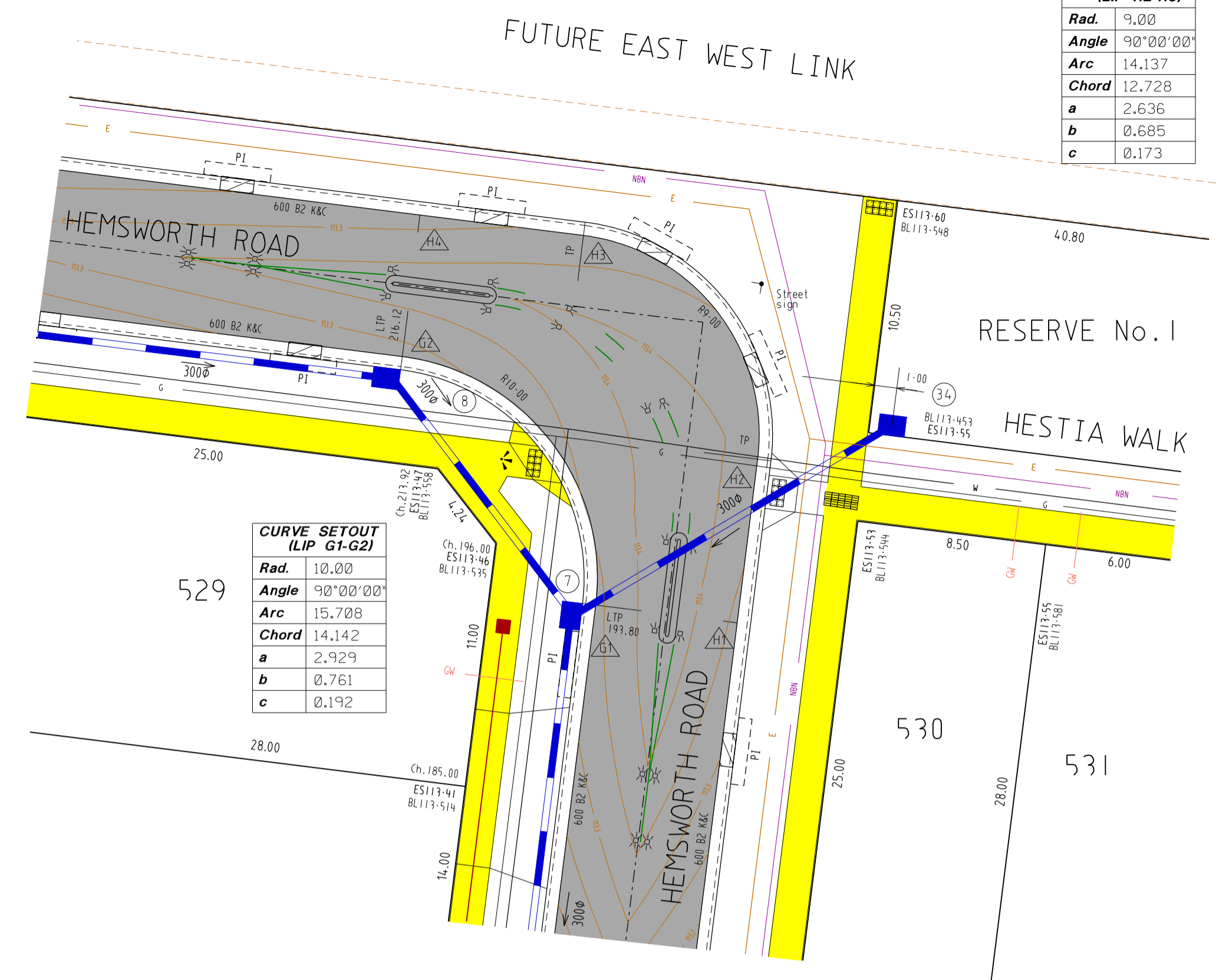
TACTILE GROUND SURFACE INDICATORS (TGSI) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH AS 1428

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

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

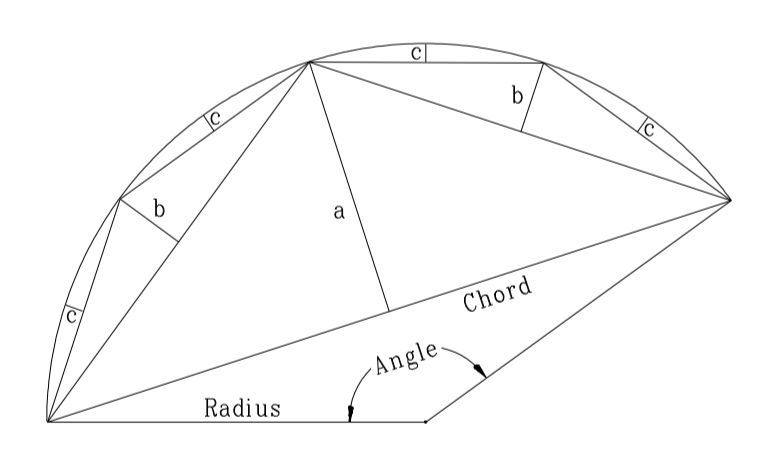
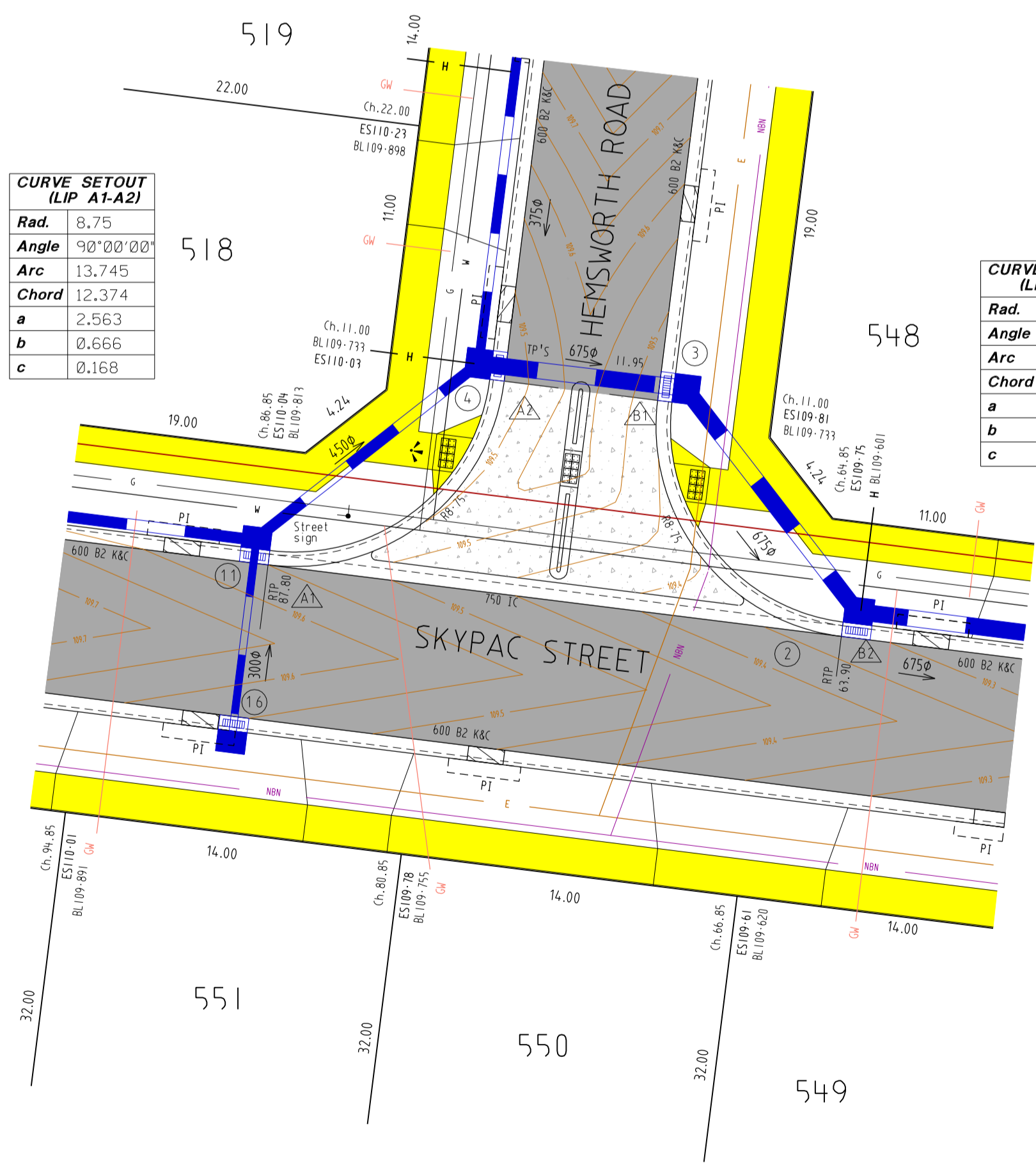
CURVE SETOUT (LIP H2-H3)

Rad.	9.00
Angle	90°00'00"
Arc	14.137
Chord	12.728
a	2.636
b	0.685
c	0.173

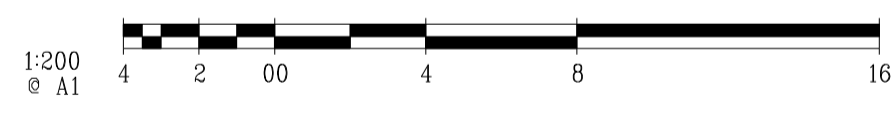


CURVE SETOUT (LIP A1-A2)

Rad.	8.75
Angle	90°00'00"
Arc	13.745
Chord	12.374
a	2.563
b	0.666
c	0.168

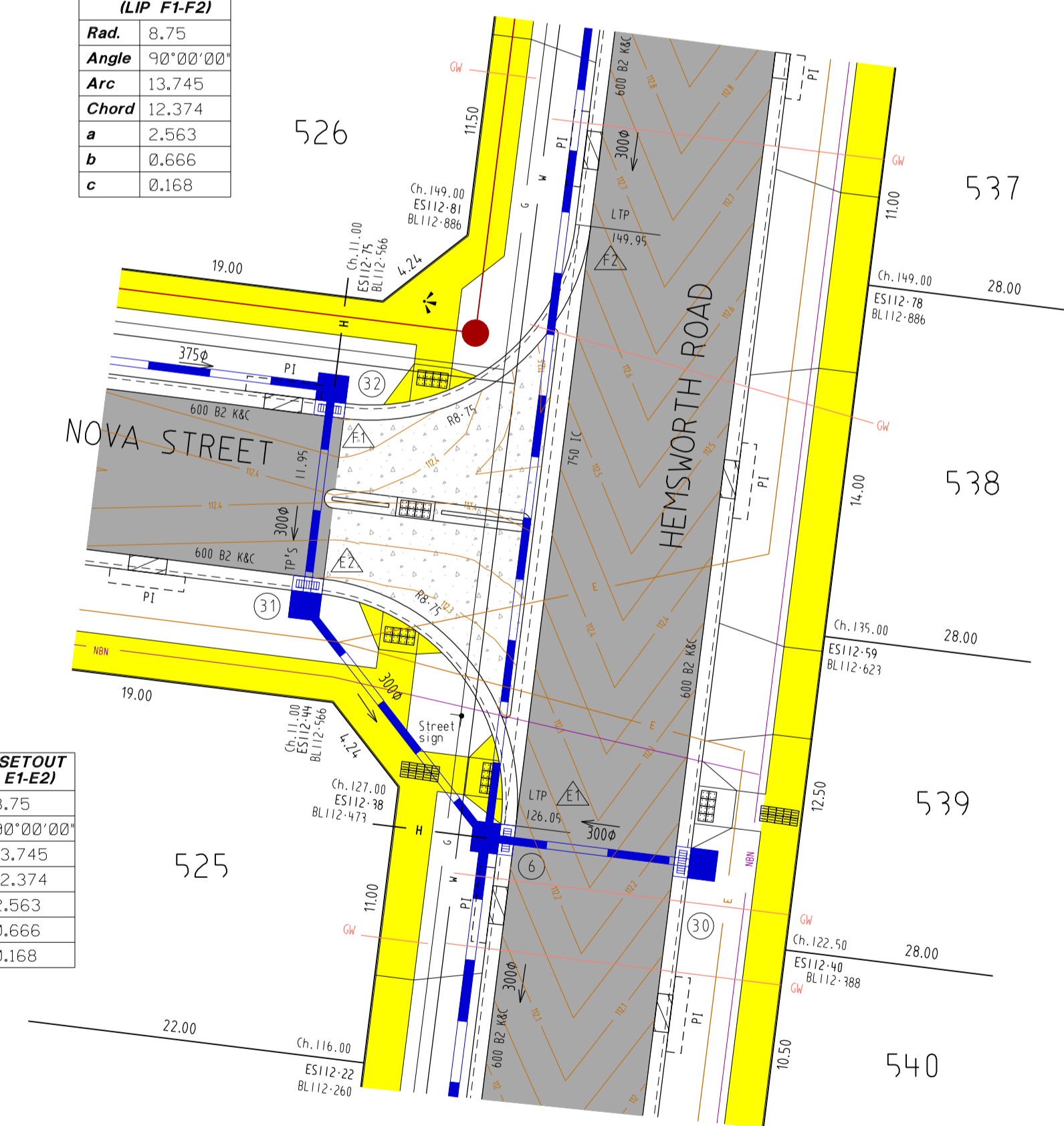


INTERSECTION DETAILS



CURVE SETOUT (LIP F1-F2)

Rad.	8.75
Angle	90°00'00"
Arc	13.745
Chord	12.374
a	2.563
b	0.666
c	0.168



SYMBOL LEGEND

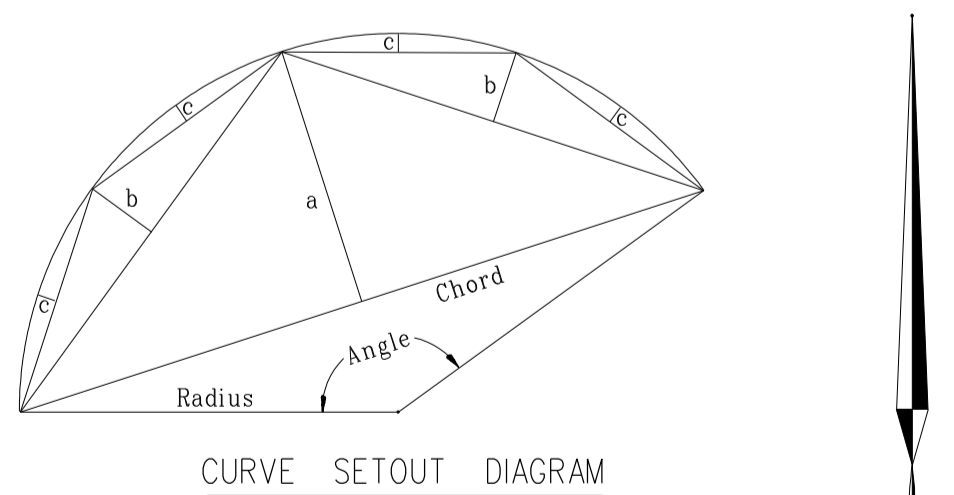
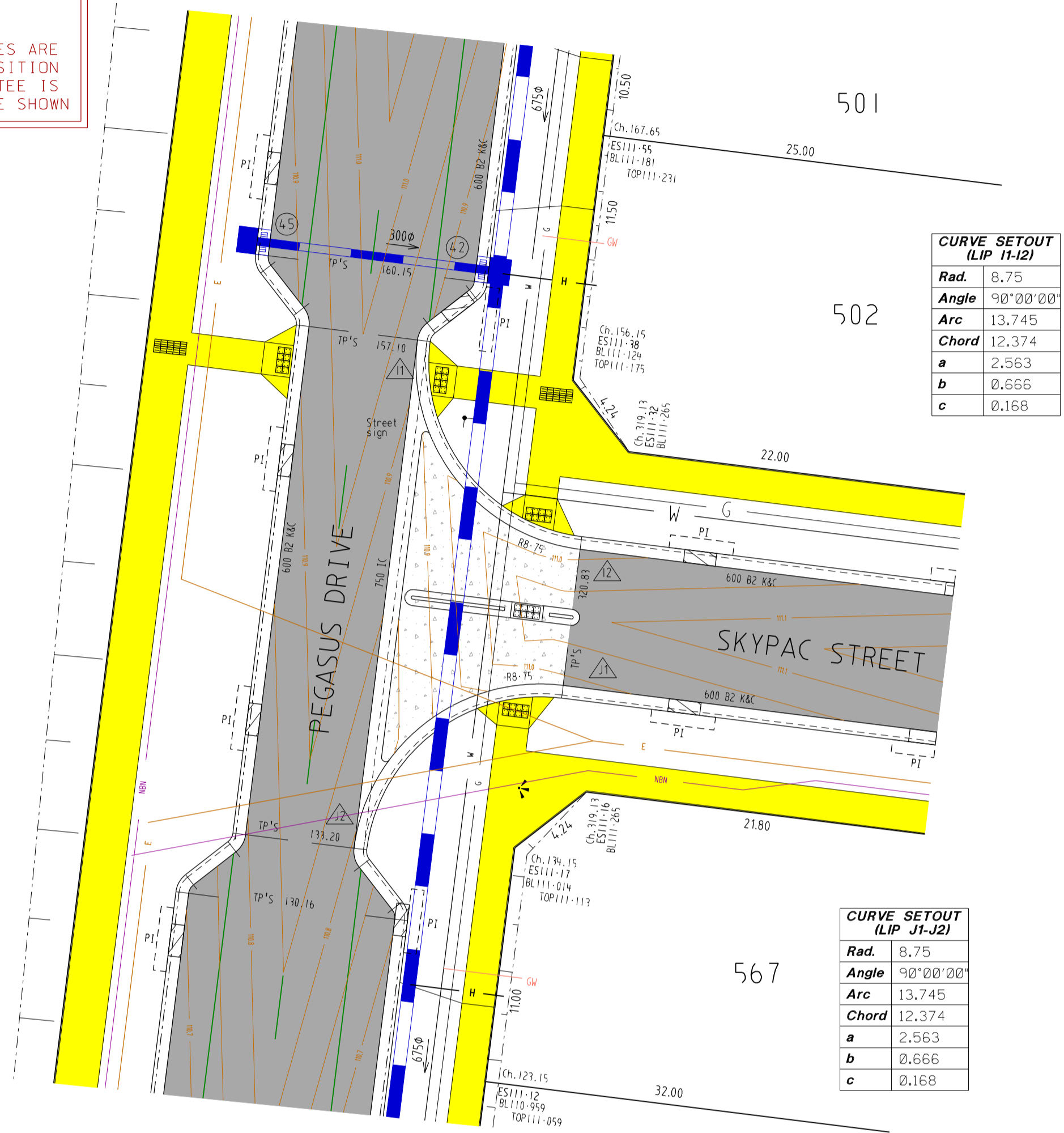
Drains	Prop	Ex/Natural/FS Level
Sewer <300	Prev stage	FS @ Building Line
Sewer >300		Top/Toe of Batter
Water (DW)		Top Ret. Wall Level
Water (NDW)		100yr Flood Level
House Drain		Fill >200mm Prop
Property Inlet		Cut >200mm Prop
Street Sign		Asphalt Surf Prop
PSM		
Rock Ret Wall		
Rock Ret Wall		
Conduits 50mm		
Conduits 100mm		
Ex Drains		
Ex Water DW/NDW		
Ex Sewer/Gas		
Ex Elect/Tel		
Tree To Be Retained		
Tree To Be Removed		

		MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		OPALIA ESTATE STAGE 5 INTERSECTION DETAILS		MUNICIPALITY MELTON REFERENCE 6751 E/05	
AMENDMENTS B 26-2-2021 SERVICES OFFSETS AMENDED HESTIA WALK A 18-11-2020 CONSTRUCTION ISSUE	VER. DATE REMARKS	CHECKED	SCALE AS SHOWN DATUM AHD DATE APR. 20	SHEET 4 OF 23	B

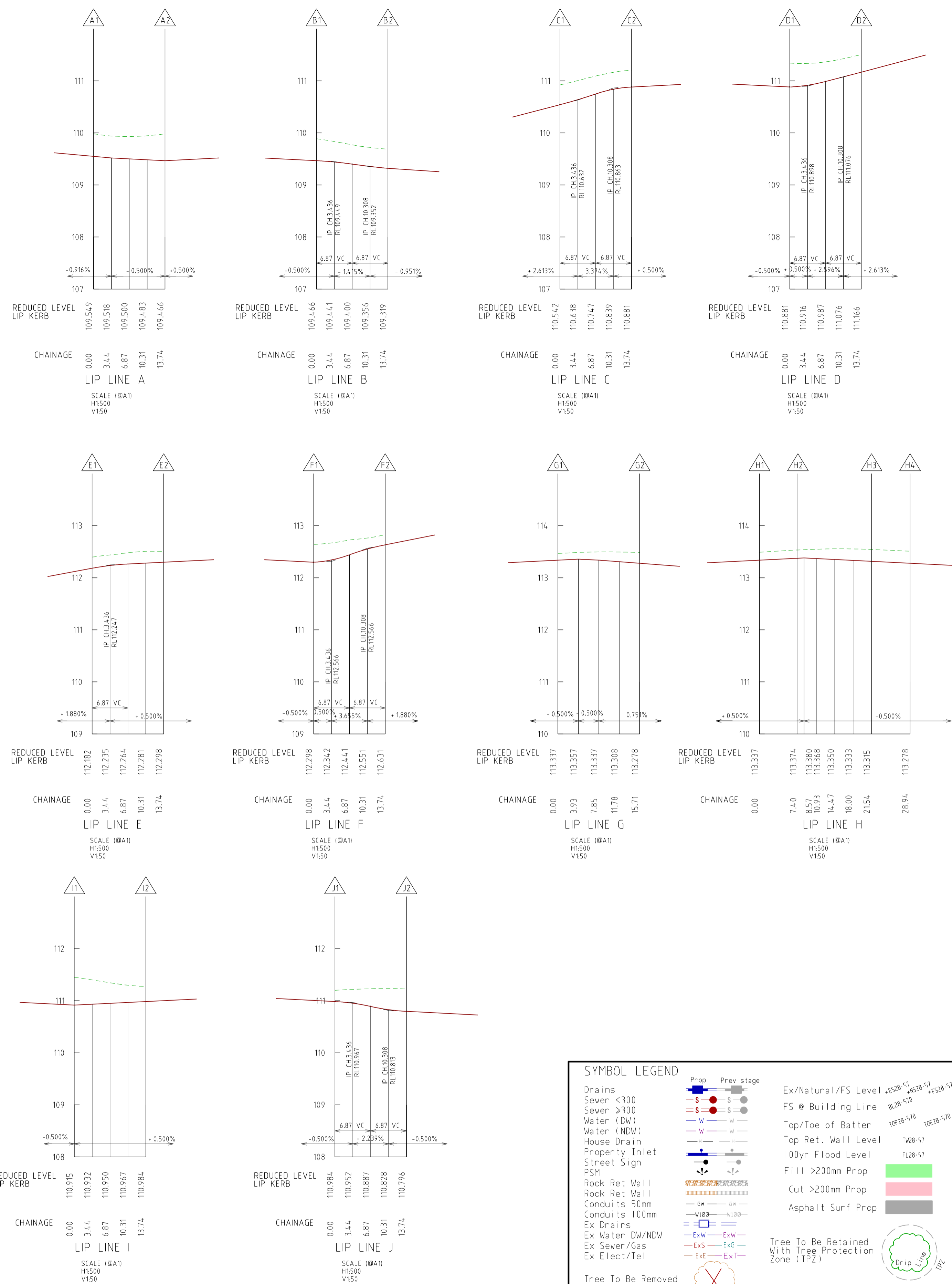
TACTILE GROUND SURFACE INDICATORS (TGSI) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH AS 1428

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

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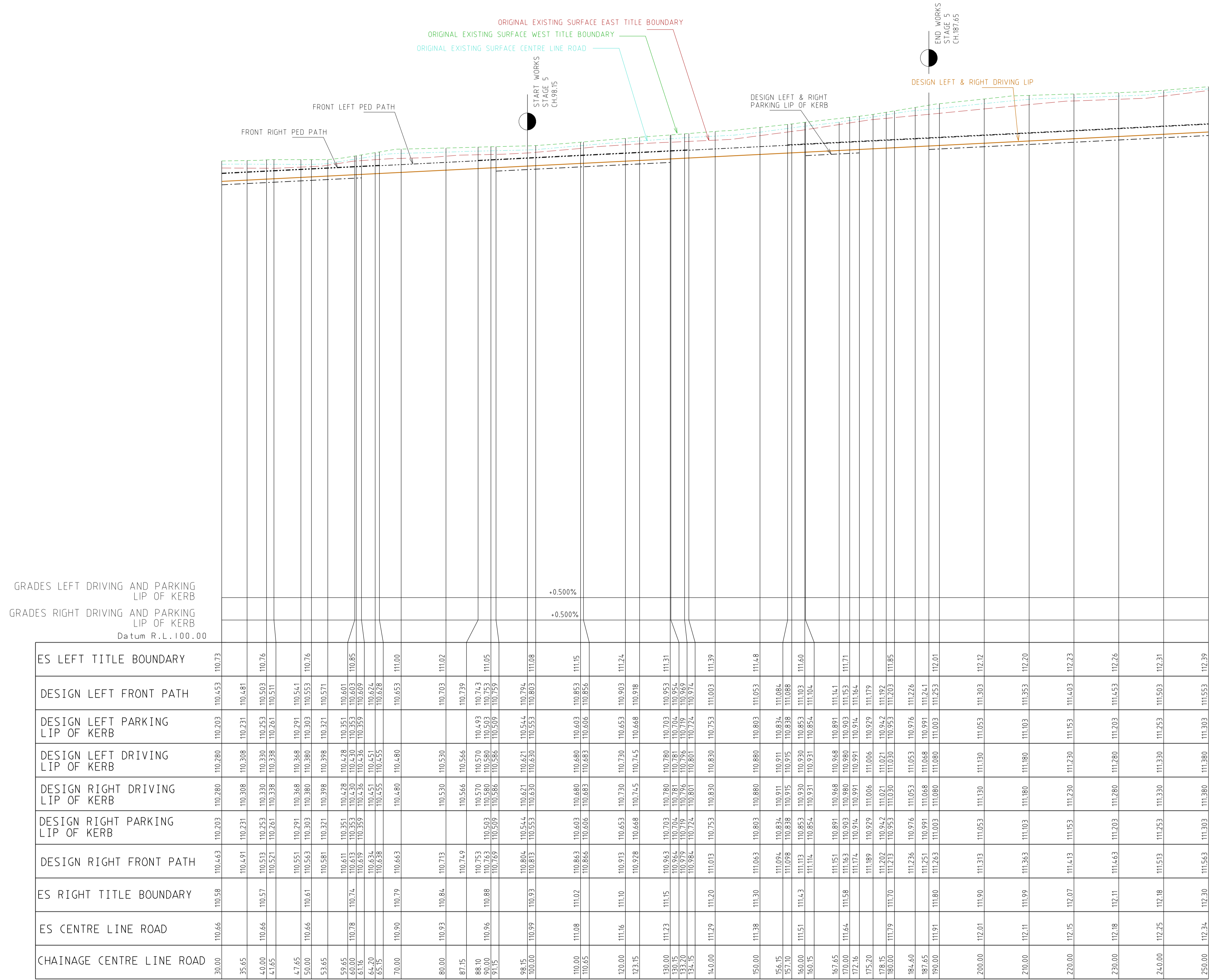
INTERSECTION DETAILS



SYMBOL LEGEND

Prop	Prop stage	Ex/Natural/FS Level	-528-57
Drains		FS @ Building Line	8.28-57B
Sewer <300		Top/Toe of Batter	1028-57B
Sewer >300		Top Ret. Wall Level	1028-57
Water (DW)		100yr Flood Level	fl28-57
Water (NDW)		Fill >200mm Prop	
House Drain		Cut >200mm Prop	
Property Inlet		Asphalt Surf Prop	
Street Sign			
PSM			
Rock Ret Wall			
Rock Ret Wall			
Conduits 50mm			
Conduits 100mm			
Ex Drains			
Ex Water/DW/NDW			
Ex Sewer/Gas			
Ex Elect/Tel			
Tree To Be Retained With Tree Protection Zone (TPZ)			
Tree To Be Removed			


AMENDMENTS	MELWAY REF.	342-J-7	breese pitt dixon pty. ltd. land surveyors civil engineers	1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
	SURVEY	B.P.D.		
	DESIGN	RK		
	DRAWN	RK		
A	18-11-2020	CONSTRUCTION ISSUE	OPALIA ESTATE STAGE 5	MUNICIPALITY MELTON
VER.	DATE	REMARKS	INTERSECTION DETAILS AND LIP PROFILES	REFERENCE 6751 E/05
			SCALE AS SHOWN DATUM AHD DATE APR. 20	SHEET 5 OF 23 A

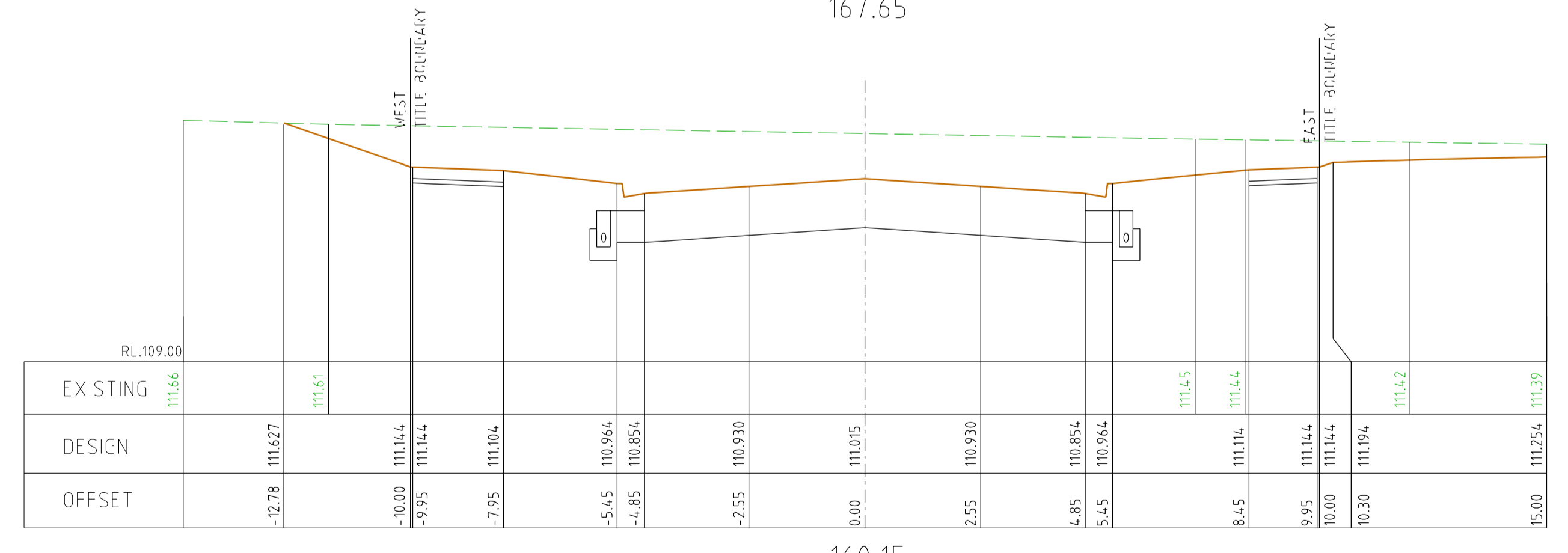
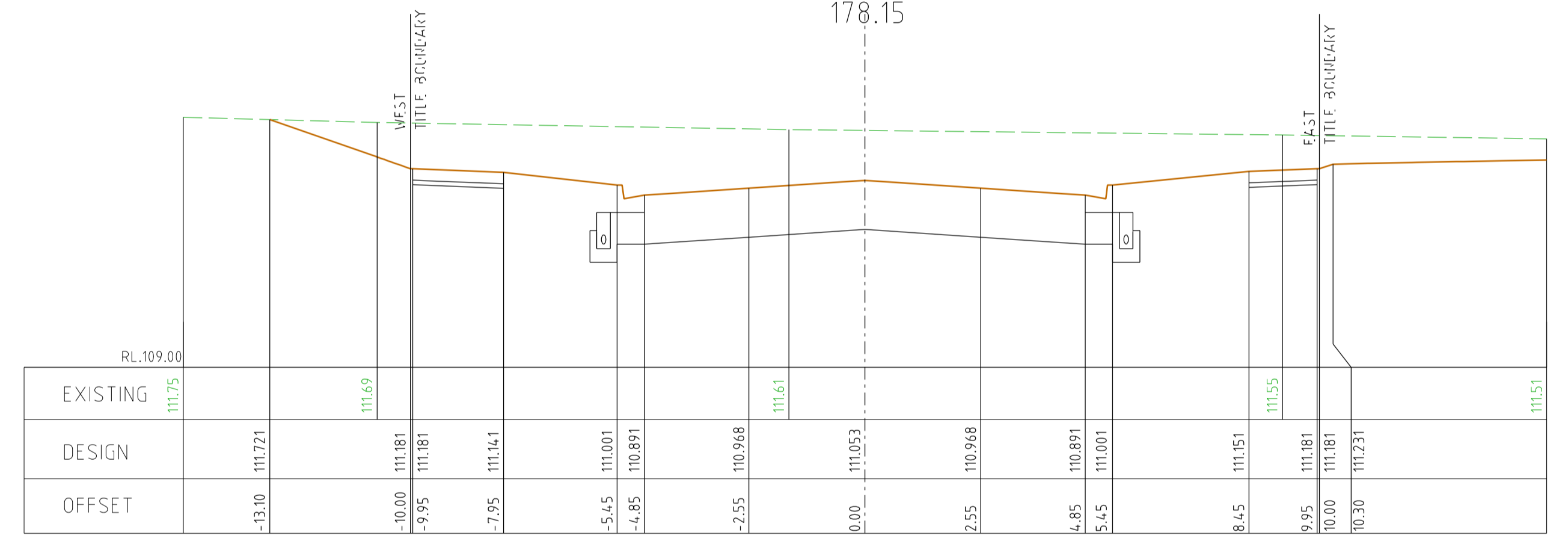
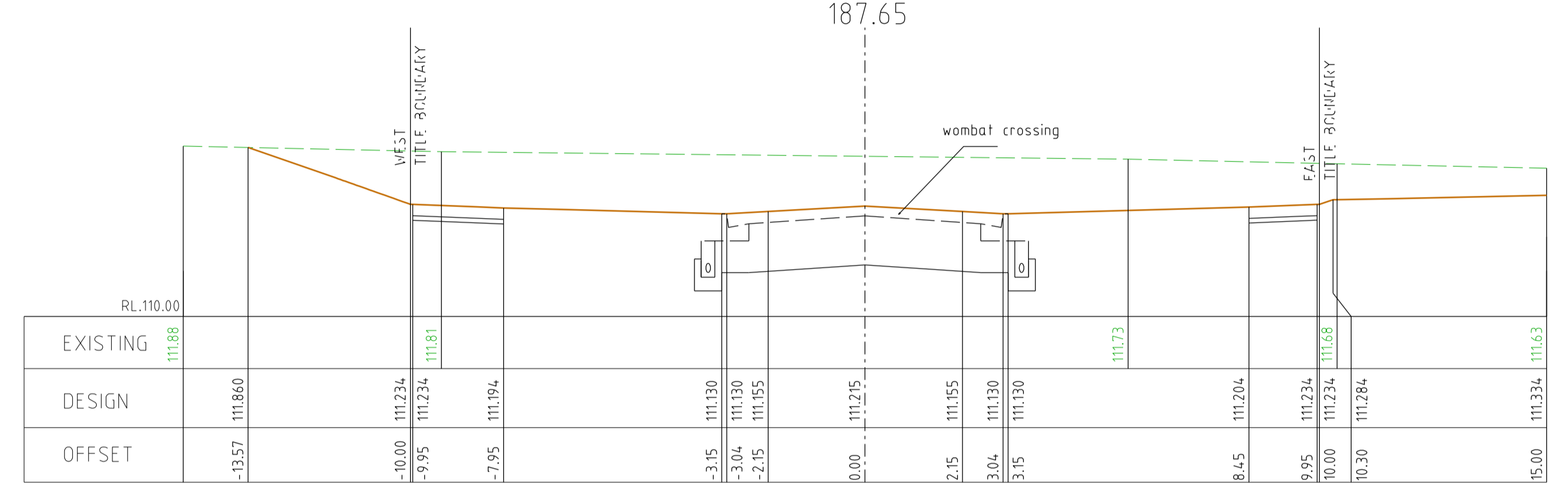
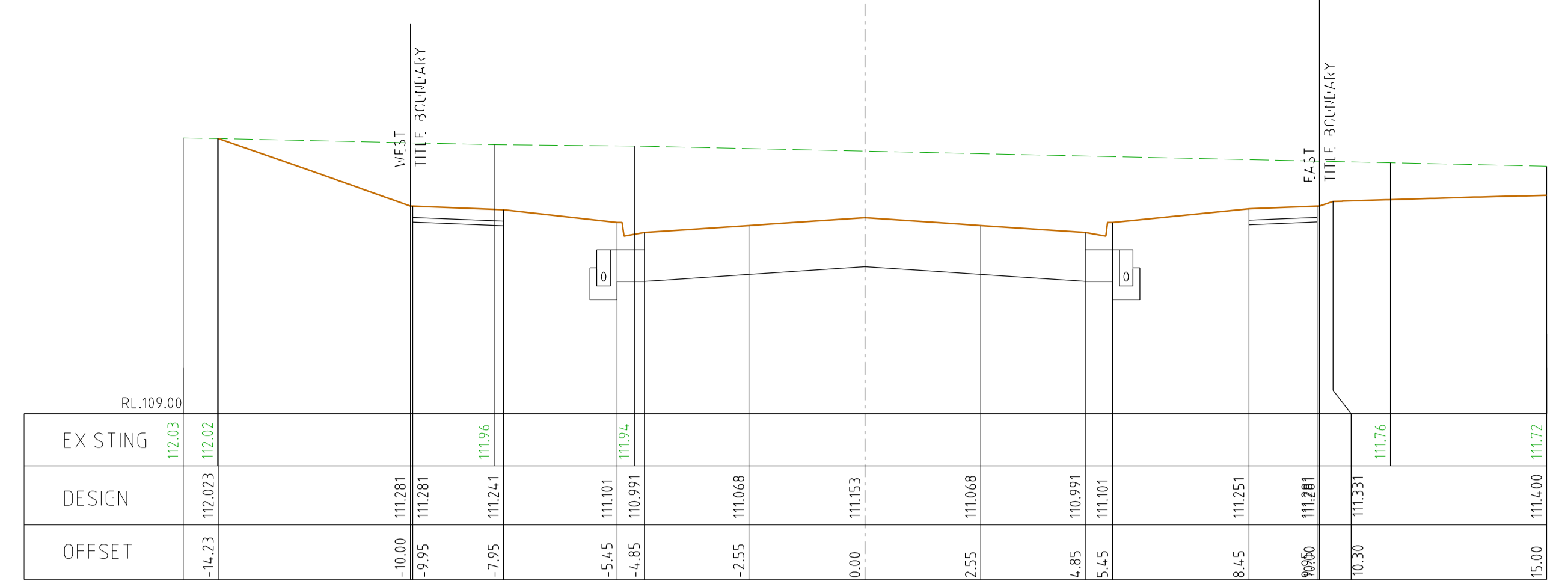
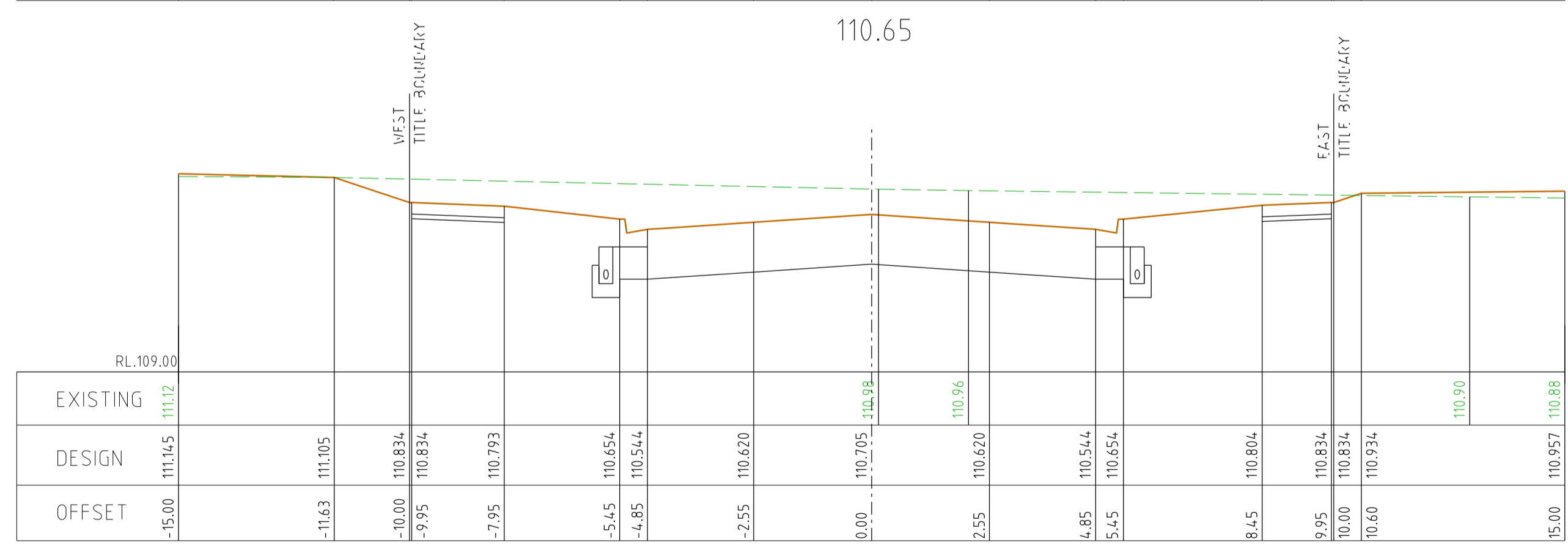
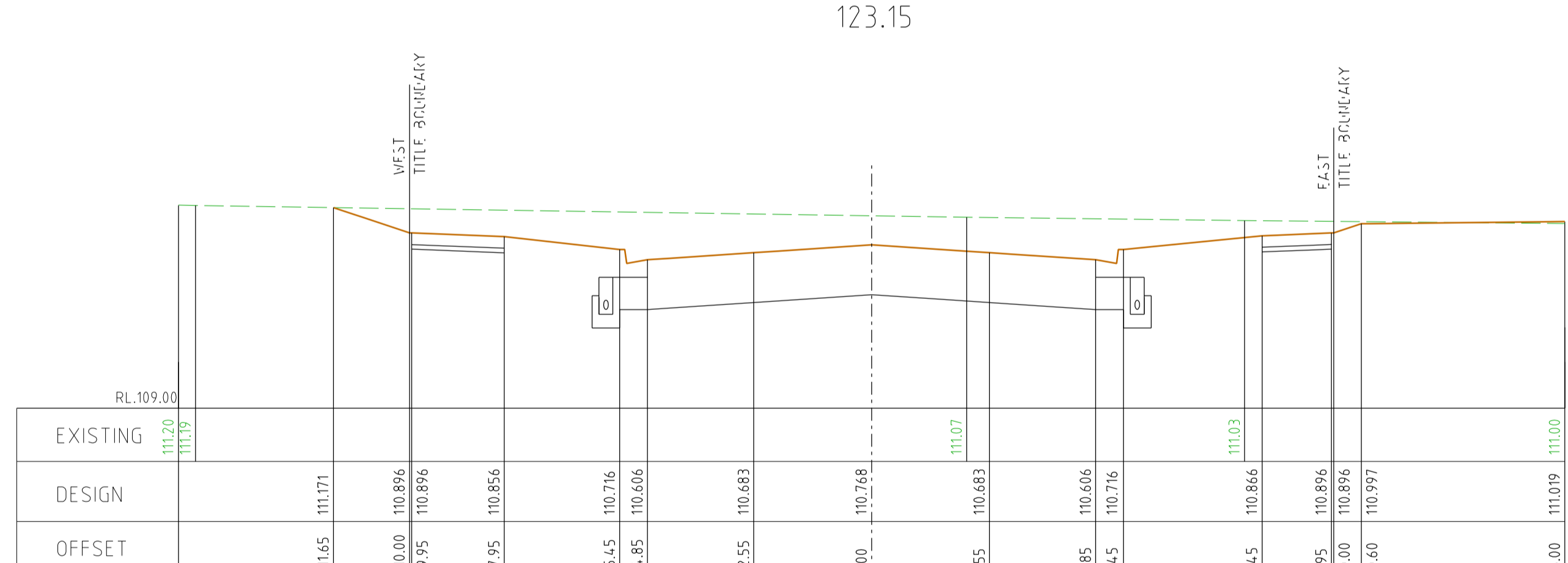
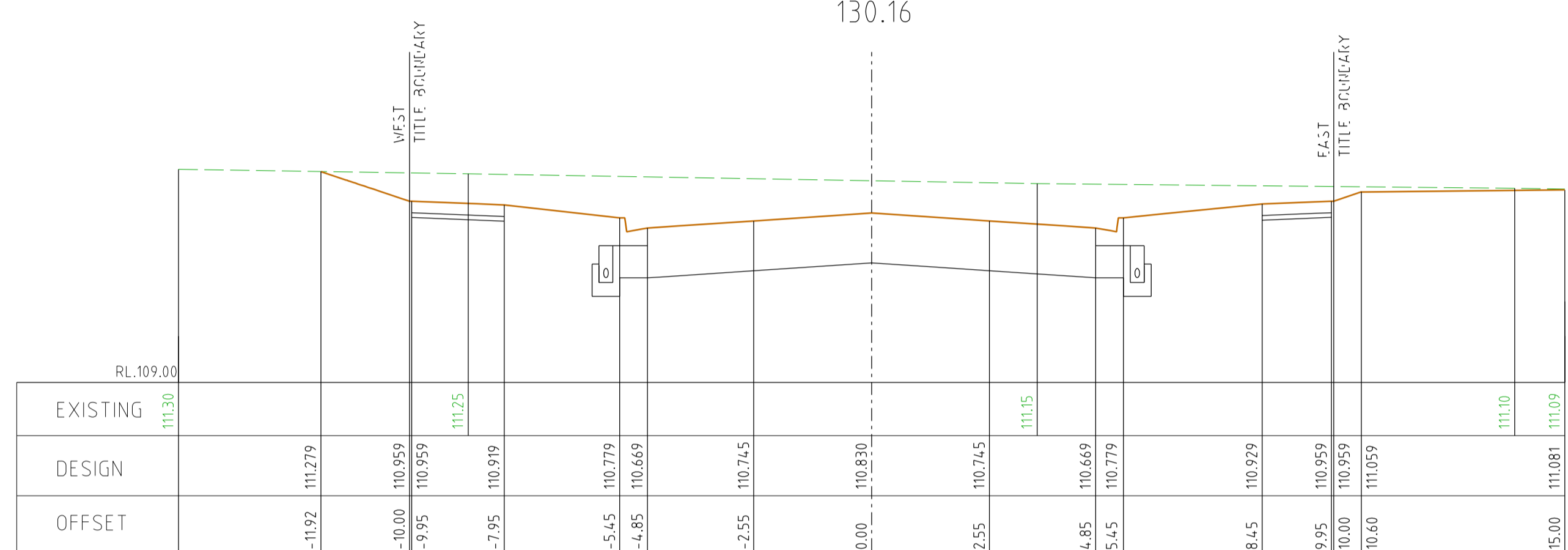
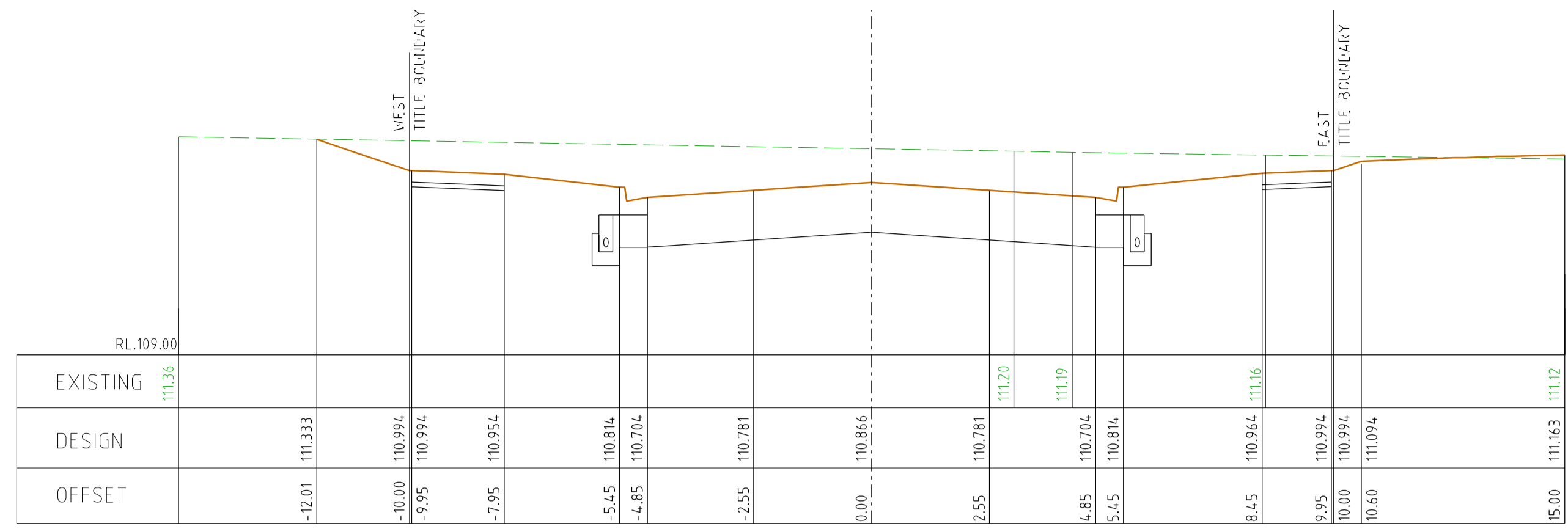


GRADES LEFT DRIVING AND PARKING LIP OF KERB
 GRADES RIGHT DRIVING AND PARKING LIP OF KERB
 Datum R.L. 100.00

PEGASUS DRIVE LONGITUDINAL SECTION

SCALE Hor. 1:500
 Vert 1:50

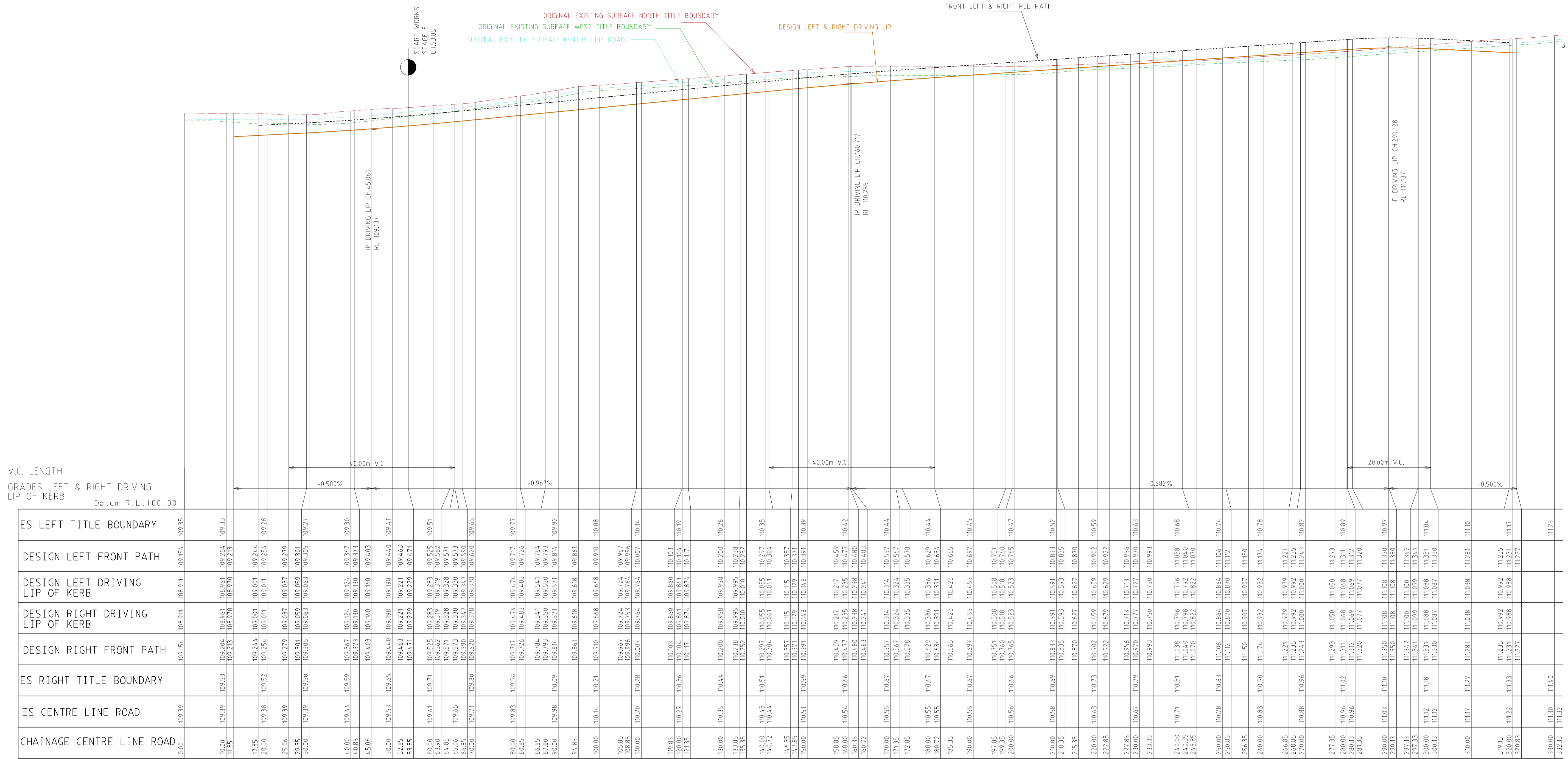
AMENDMENTS		 land surveyors civil engineers		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF.	742-J-7	OPALIA ESTATE STAGE 5 PEGASUS DRIVE LONG SECTION		MUNICIPALITY MELTON
SURVEY	B., P. D.			REFERENCE 6751 E/05
DESIGN	RK	SCALE AS SHOWN DATUM AHD DATE APR. 20		SHEET 6 OF 23
DRAWN	RK	CHECKED		A
VER.	DATE	REMARKS		



PEGASUS DRIVE CROSS SECTIONS

SCALE Hor. 1:100
Vert 1:50

AMENDMENTS VER. DATE REMARKS			MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK	breese pitt dixon Pty. Ltd. land surveyors civil engineers	1/19 calc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
		OPALIA ESTATE STAGE 5 PEGASUS DRIVE CROSS SECTIONS			MUNICIPALITY MELTON REFERENCE 6751 E/05
		CHECKED SCALE AS SHOWN DATUM AHD DATE APR. 20	SHEET 7 OF 23		A



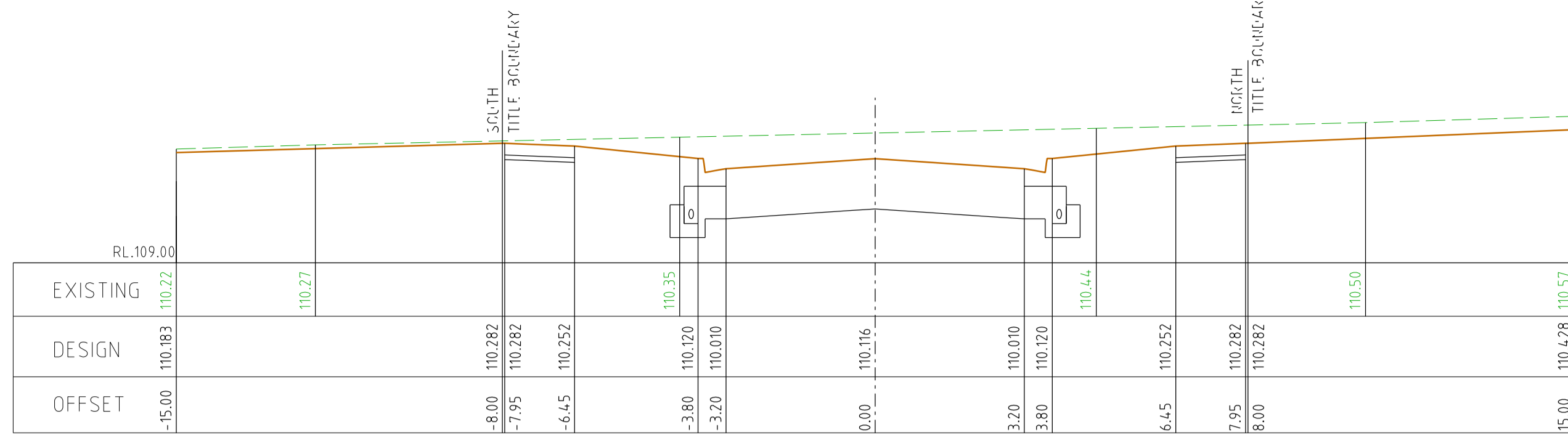
V.C. LENGTH
GRADES LEFT & RIGHT DRIVING
LIP OF KERB
Datum R.L. 100.00

ES LEFT TITLE BOUNDARY	109.35	109.33	109.28	109.27	109.30	109.41	109.51	109.65	109.77	109.86	109.92	109.98	110.08	110.14	110.19	110.26	110.35	110.39	110.42	110.44	110.45	110.52	110.59	110.63	110.68	110.74	110.78	110.89	110.97	111.04	111.10	111.17	111.25		
DESIGN LEFT FRONT PATH	109.154	108.961	108.744	108.505	108.279	108.053	107.831	107.614	107.402	107.195	106.993	106.796	106.604	106.417	106.235	106.058	105.886	105.719	105.557	105.401	105.250	105.104	104.964	104.829	104.699	104.574	104.454	104.339	104.229	104.124	104.024	103.929	103.839		
DESIGN LEFT DRIVING LIP OF KERB	108.911	108.704	108.474	108.229	107.979	107.724	107.464	107.209	106.959	106.714	106.474	106.239	106.009	105.784	105.564	105.349	105.139	104.934	104.734	104.539	104.349	104.164	103.984	103.809	103.639	103.474	103.314	103.159	103.009	102.864	102.724	102.589	102.459		
DESIGN RIGHT DRIVING LIP OF KERB	108.911	108.704	108.474	108.229	107.979	107.724	107.464	107.209	106.959	106.714	106.474	106.239	106.009	105.784	105.564	105.349	105.139	104.934	104.734	104.539	104.349	104.164	103.984	103.809	103.639	103.474	103.314	103.159	103.009	102.864	102.724	102.589	102.459		
DESIGN RIGHT FRONT PATH	109.154	108.961	108.744	108.505	108.279	108.053	107.831	107.614	107.402	107.195	106.993	106.796	106.604	106.417	106.235	106.058	105.886	105.719	105.557	105.401	105.250	105.104	104.964	104.829	104.699	104.574	104.454	104.339	104.229	104.124	104.024	103.929	103.839		
ES RIGHT TITLE BOUNDARY	109.53	109.33	109.01	108.59	108.07	107.45	106.73	105.91	104.99	103.97	102.85	101.63	100.31	88.99	77.67	66.35	55.03	43.71	32.39	21.07	9.75	-1.57	-14.89	-28.21	-41.53	-54.85	-68.17	-81.49	-94.81	-108.13	-121.45	-134.77	-148.09		
ES CENTRE LINE ROAD	109.39	109.39	109.38	109.35	109.29	109.19	109.05	108.87	108.65	108.39	108.09	107.75	107.37	106.95	106.49	106.09	105.65	105.17	104.75	104.29	103.89	103.45	103.07	102.65	102.19	101.79	101.35	100.87	100.35	99.79	99.19	98.55	97.87		
CHAINAGE CENTRE LINE ROAD	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	210.00	220.00	230.00	240.00	250.00	260.00	270.00	280.00	290.00	300.00	310.00	320.00	330.00	340.00

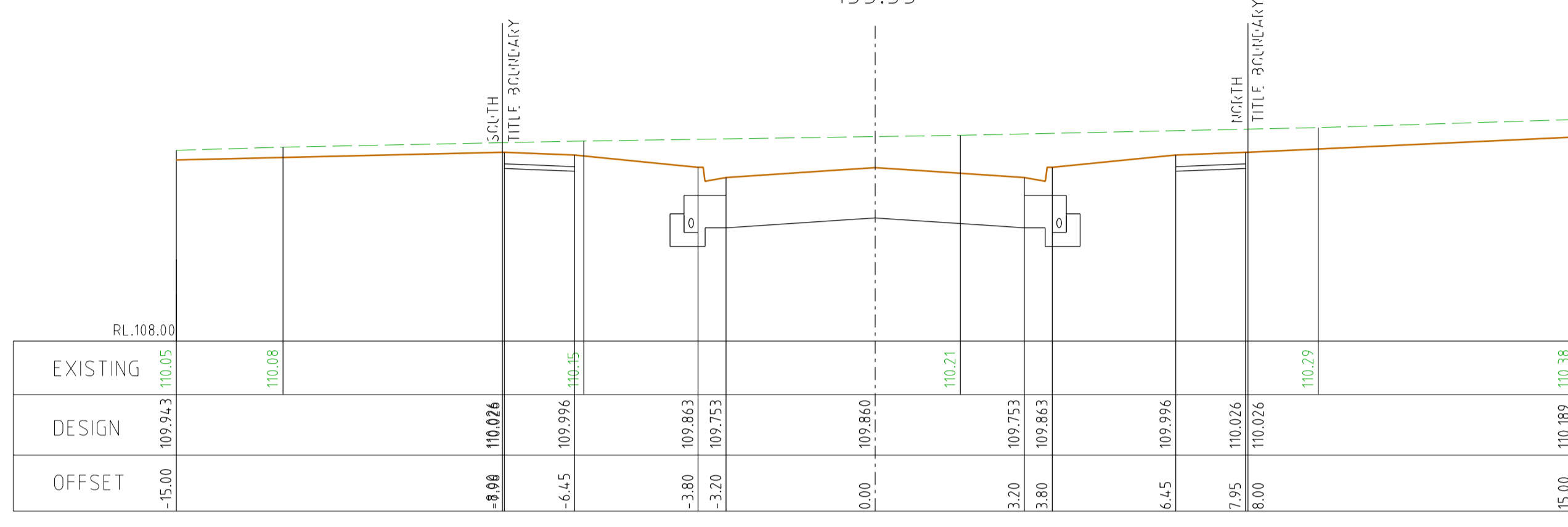
SKYPAC STREET LONGITUDINAL SECTION

SCALE Hor. 1:500
Vert 1:50

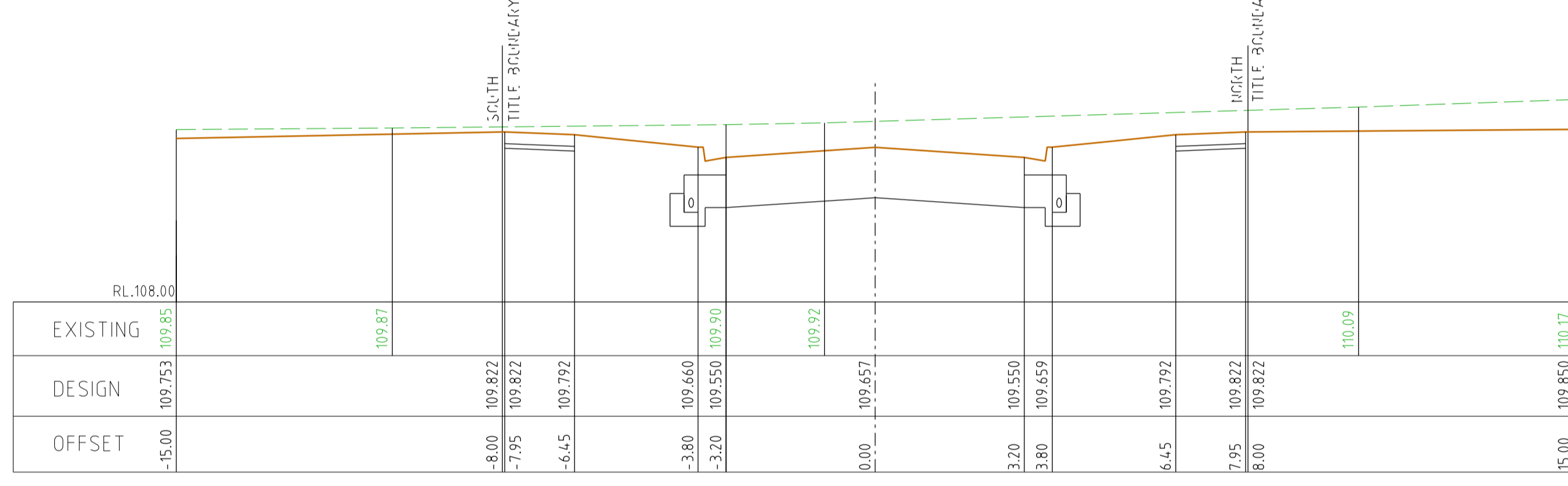
		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 342-J-7 SURVEY B. P. D. DESIGN RK DRAWN RK		OPALIA ESTATE STAGE 5 SKYPAC STREET LONG SECTION		MUNICIPALITY MELTON	
CHECKED SCALE AS SHOWN DATUM AHD DATE APR. 20				REFERENCE 6751 E/05	
AMENDMENTS A 18-11-2020 CONSTRUCTION ISSUE	REMARKS	SHEET 8 OF 23	DATE APR. 20	A	Ver: 05-2015



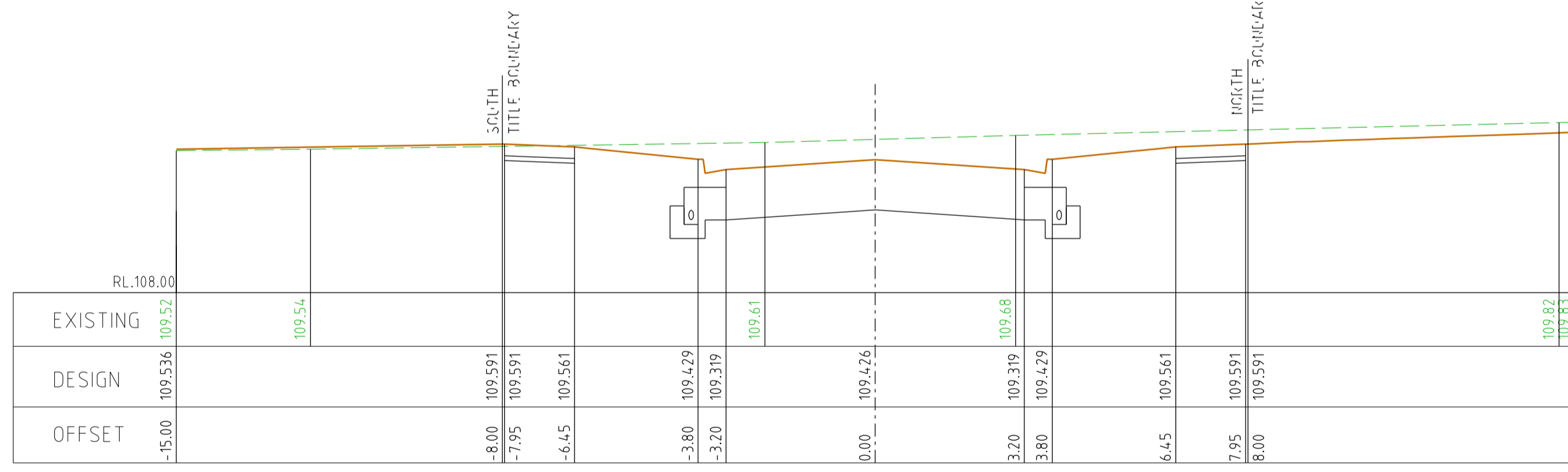
135.35



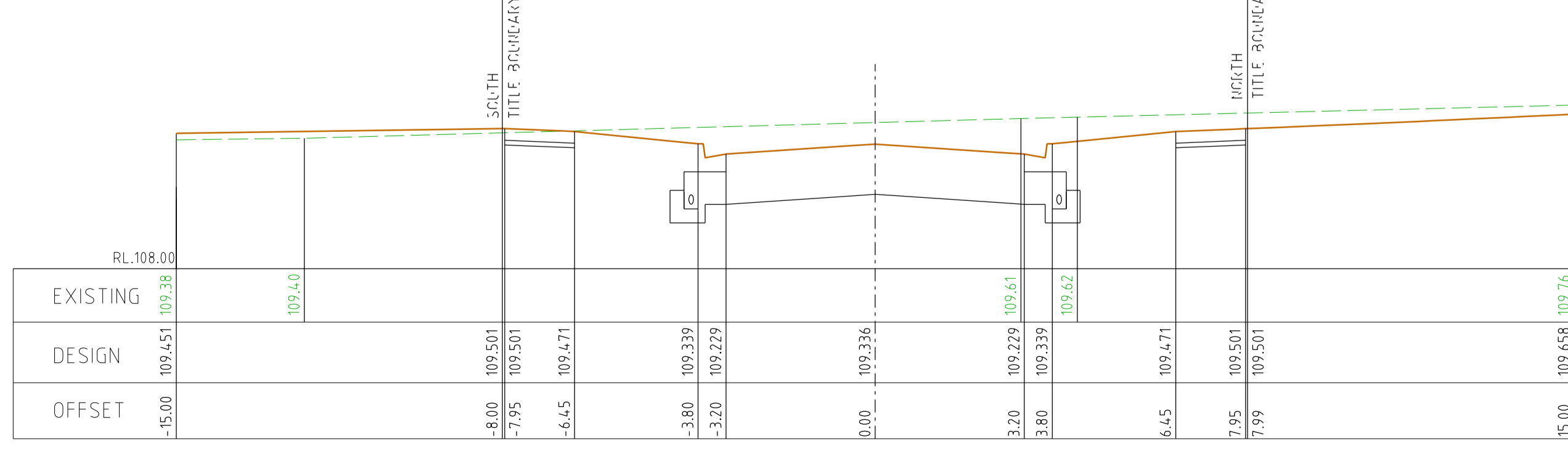
108.85



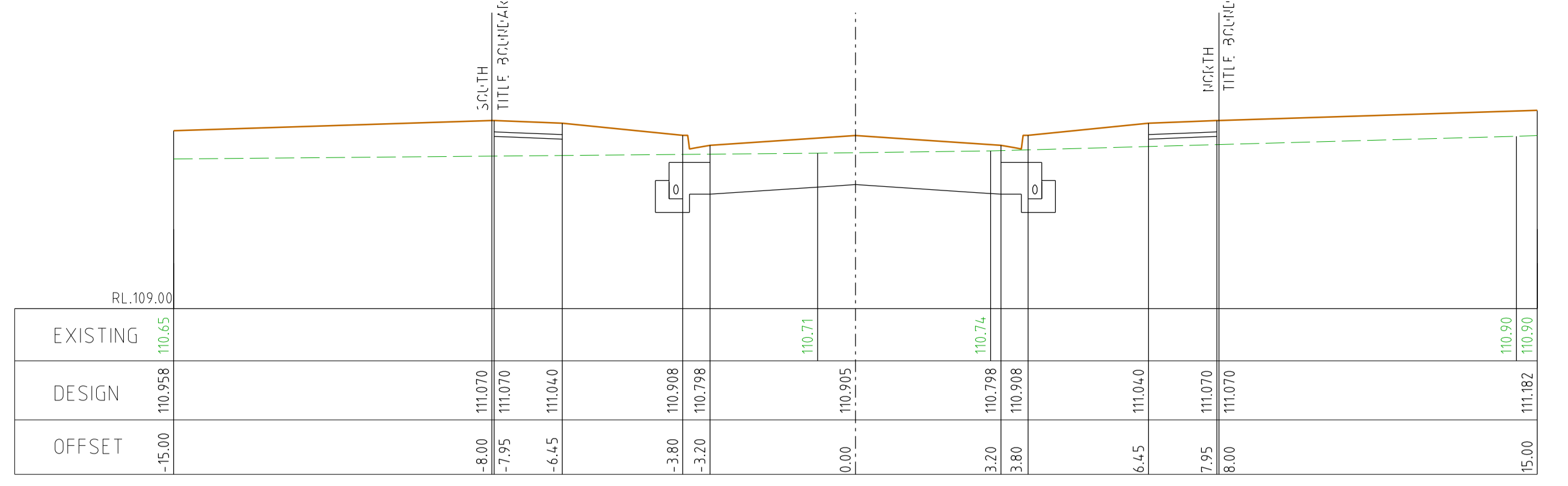
87.80



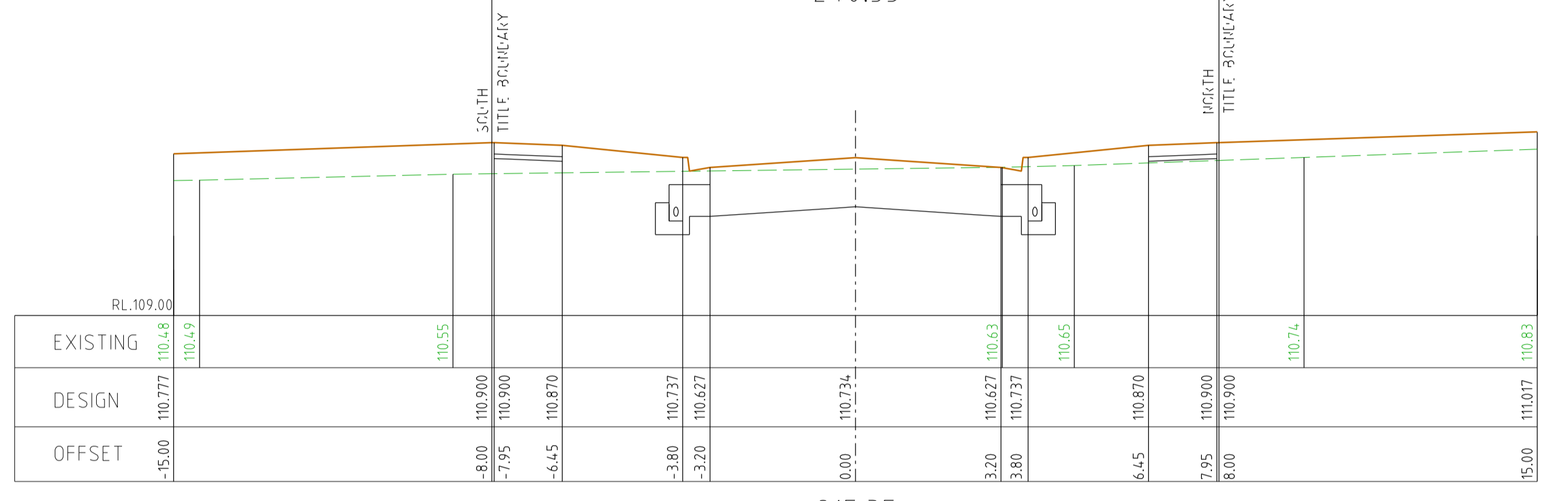
63.90



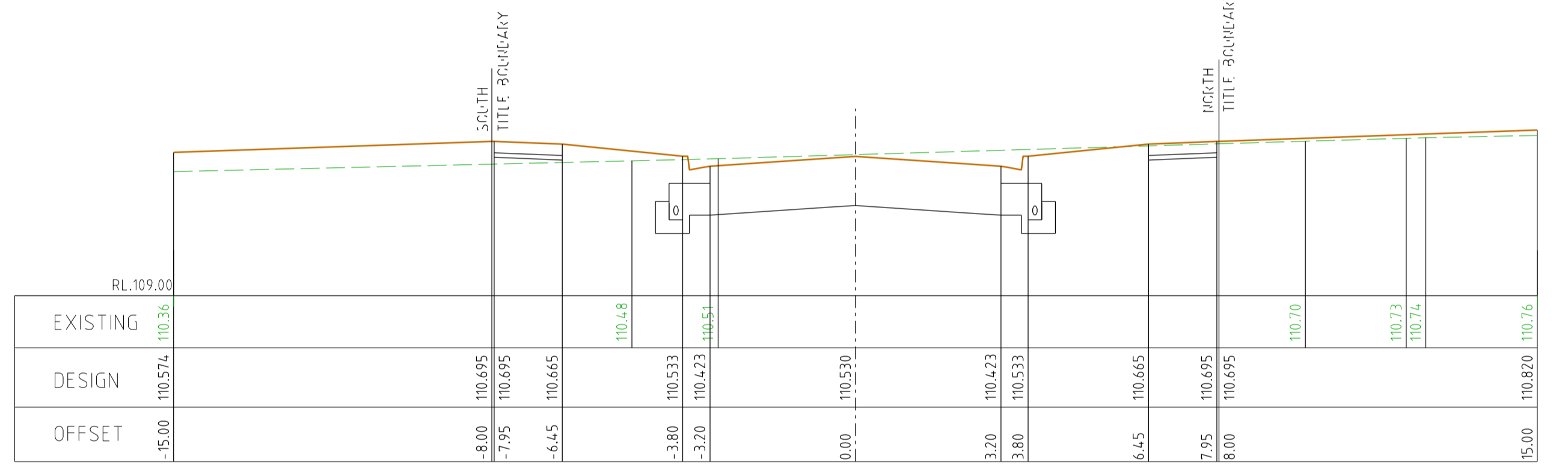
53.85



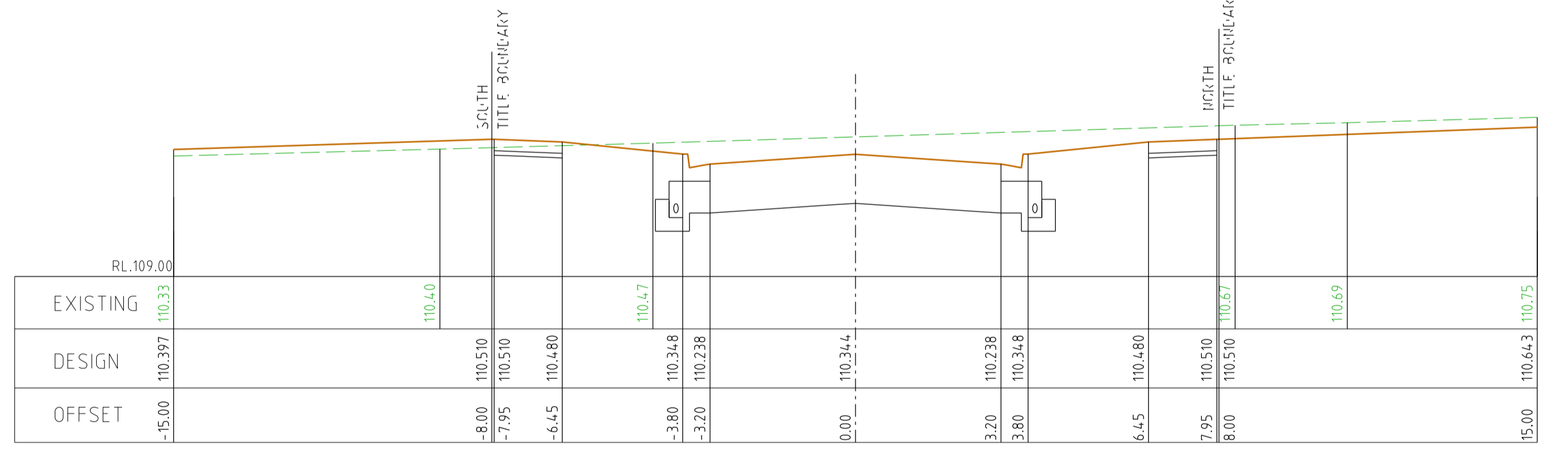
240.35



215.35



185.35

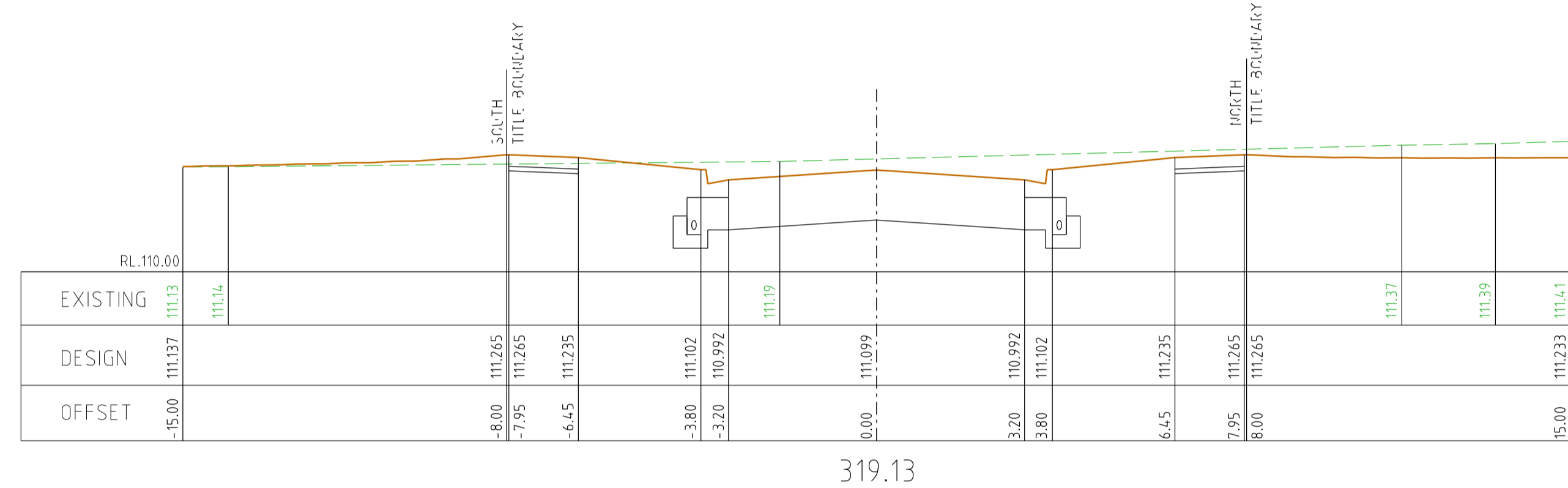


160.35

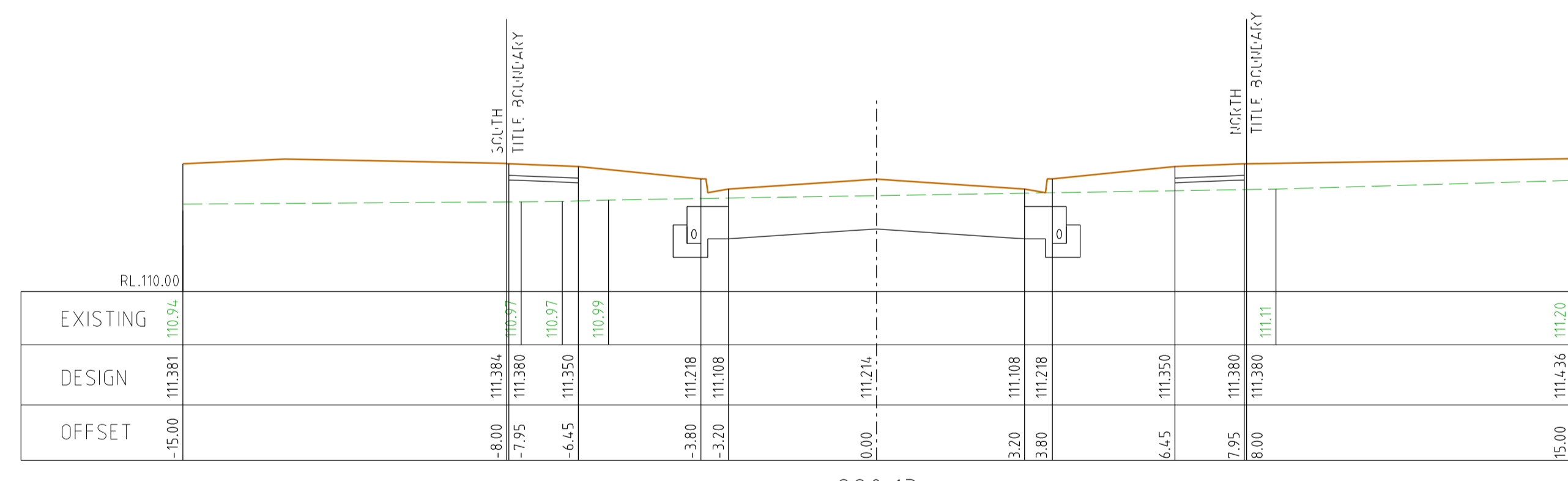
SKYPAC STREET CROSS SECTIONS

SCALE Hor: 1:100
Vert: 1:50

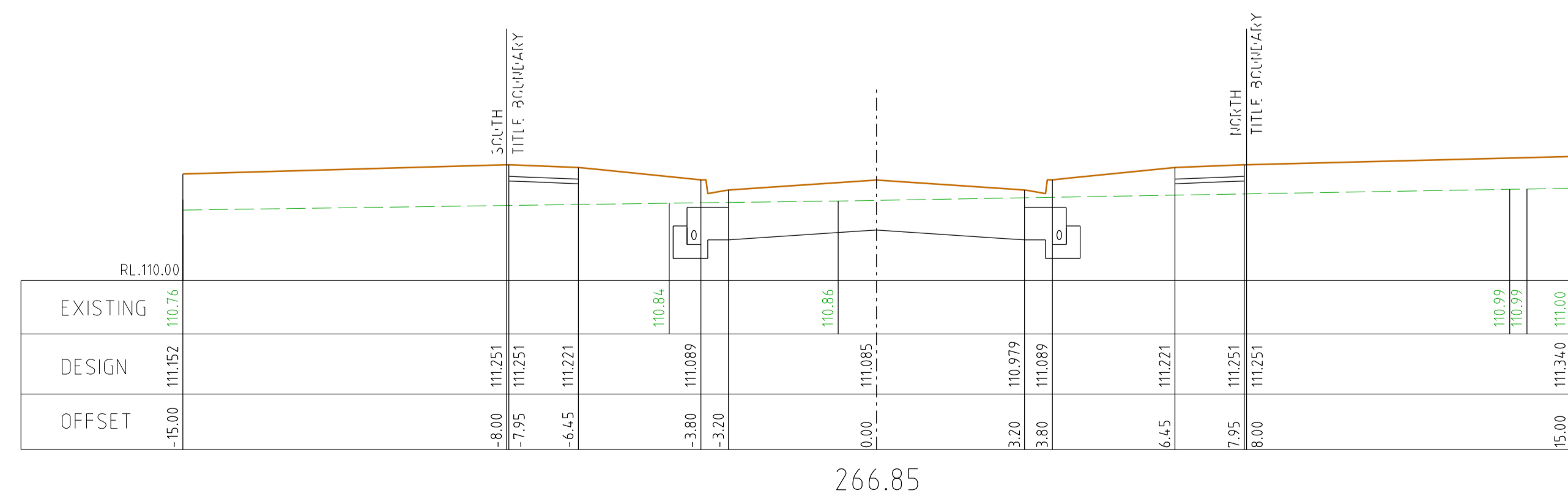
AMENDMENTS			 land surveyors civil engineers	1/19 calc street howthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
	MELWAY REF.	342-J-7		MUNICIPALITY MELTON	
	SURVEY	B.P.D.	REFERENCE 6751 E/05		
	DESIGN	RK	PROJECT SKYPAC STREET CROSS SECTIONS		
	DRAWN	RK	SCALE	AS SHOWN	
	CHECKED		DATUM	AHD	
VER.	DATE	REMARKS	DATE	APR. 20	
			SHEET	9 OF 23	



319.13



290.13



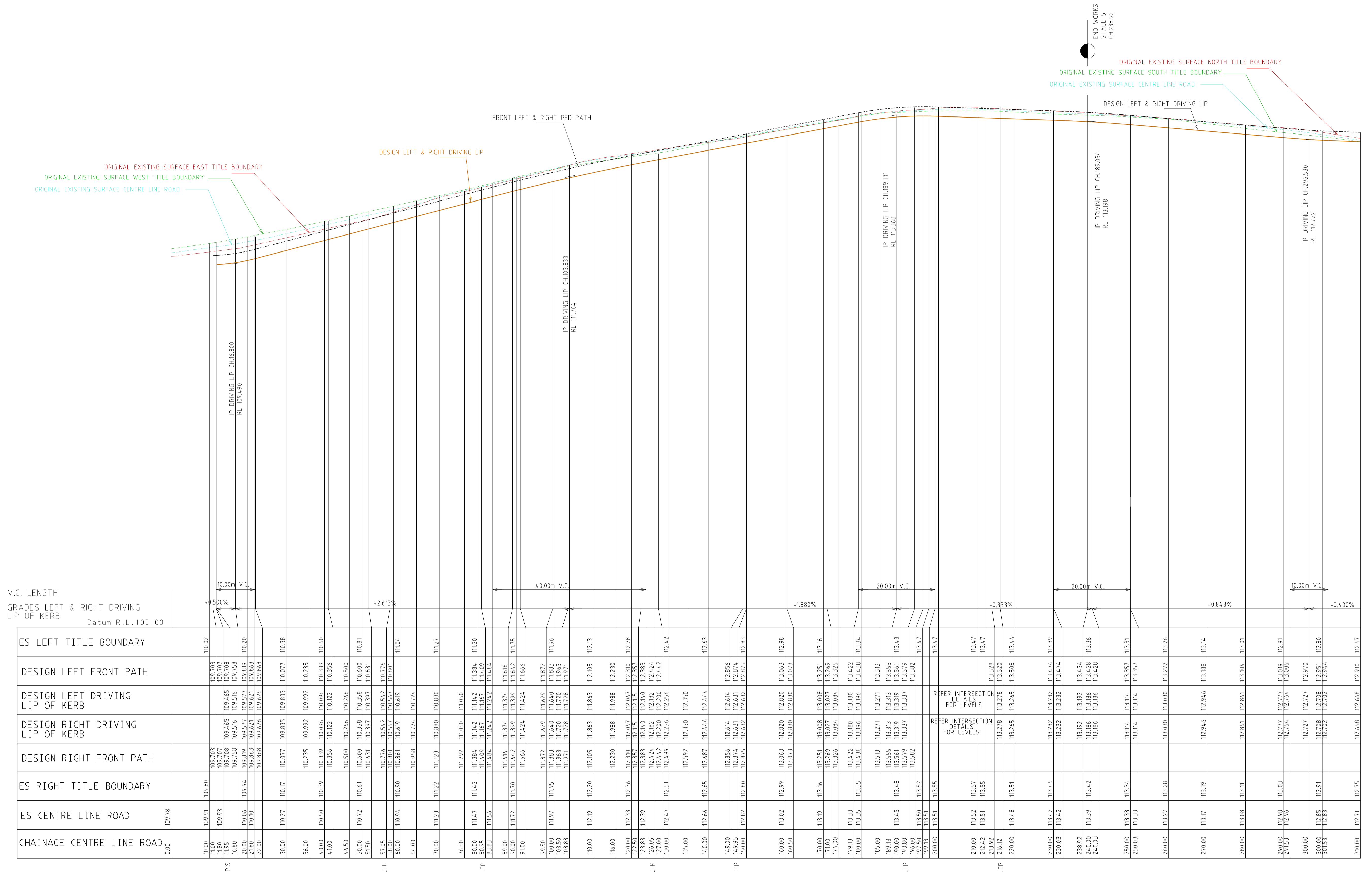
266.85

SKYPAC STREET CROSS SECTIONS

SCALE Hor. 1:100
Vert 1:50

 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 calc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MUNICIPALITY MELTON	
AMENDMENTS VER DATE REMARKS A 18-11-2020 CONSTRUCTION ISSUE		MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK	
		OPALIA ESTATE STAGE 5 SKYPAC STREET CROSS SECTIONS	
		REFERENCE 6751 E/05	
		SCALE AS SHOWN DATUM AHD DATE APR. 20 SHEET 10 OF 23 A	

PROJECT/SUBJECT



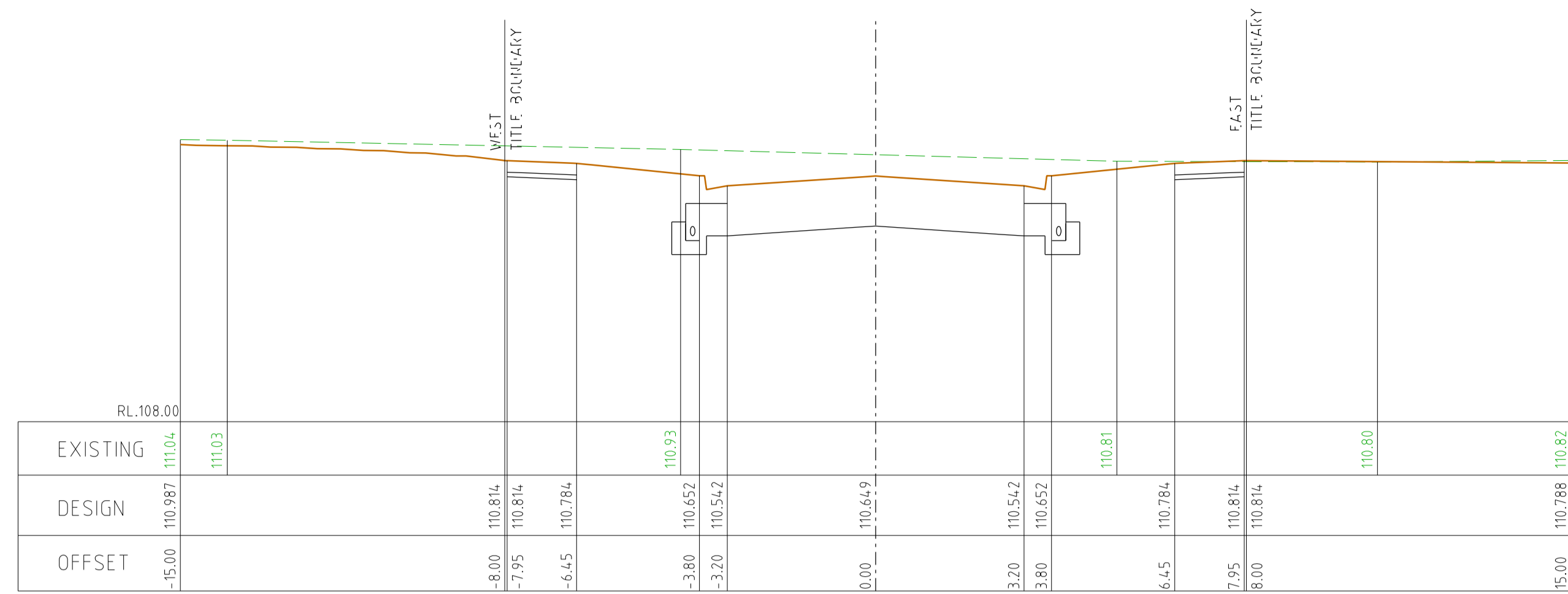
V.C. LENGTH
GRADES LEFT & RIGHT DRIVING
LIP OF KERB
Datum R.L. 100.00

CHAINAGE CENTRE LINE ROAD	ES CENTRE LINE ROAD	ES RIGHT TITLE BOUNDARY	DESIGN RIGHT FRONT PATH	DESIGN RIGHT DRIVING LIP OF KERB	DESIGN LEFT DRIVING LIP OF KERB	DESIGN LEFT FRONT PATH	ES LEFT TITLE BOUNDARY
0.00	109.78						110.02
10.00	109.91	109.80	109.703	109.703	109.703	109.703	109.703
11.00	109.93	109.82	109.708	109.708	109.708	109.708	109.708
16.80			109.465	109.465	109.465	109.465	109.465
20.00	110.06	109.94	109.819	109.577	109.577	109.578	109.578
21.80	110.10		109.863	109.621	109.621	109.863	110.20
22.00			109.868	109.626	109.626	109.868	
30.00	110.27	110.17	110.077	109.835	109.835	110.077	110.38
36.00			110.235	109.992	109.992	110.235	
40.00	110.50	110.39	110.339	110.096	110.096	110.339	110.60
41.00			110.356	110.122	110.122	110.356	
46.50			110.500	110.266	110.266	110.500	
50.00	110.72	110.61	110.600	110.358	110.358	110.600	110.81
51.50			110.631	110.397	110.397	110.631	
57.05			110.776	110.542	110.542	110.776	
58.00			110.801	110.567	110.567	110.801	
60.00	110.94	110.90	110.861	110.619	110.619	110.861	111.04
64.00			110.958	110.724	110.724	110.958	
70.00	111.23	111.22	111.123	110.880	110.880	111.123	111.27
76.50			111.292	111.050	111.050	111.292	
80.00	111.47	111.45	111.384	111.142	111.142	111.384	111.50
80.95			111.409	111.167	111.167	111.409	
83.83	111.56		111.484	111.242	111.242	111.484	
89.00			111.616	111.374	111.374	111.616	
90.00	111.72	111.70	111.642	111.399	111.399	111.642	111.75
91.00			111.666	111.424	111.424	111.666	
99.50			111.672	111.629	111.629	111.672	
100.00	111.97	111.95	111.683	111.640	111.640	111.683	111.96
103.50			111.963	111.720	111.720	111.963	
109.83			111.971	111.728	111.728	111.971	
110.00	112.19	112.20	112.005	111.863	111.863	112.005	112.13
116.00			112.230	111.988	111.988	112.230	
120.00	112.33	112.36	112.310	112.067	112.067	112.310	112.28
120.50			112.345	112.105	112.105	112.345	
123.83	112.39		112.383	112.140	112.140	112.383	
126.05			112.424	112.182	112.182	112.424	
127.00	112.47	112.51	112.442	112.200	112.200	112.442	112.42
135.00			112.592	112.350	112.350	112.592	
140.00	112.66	112.65	112.687	112.444	112.444	112.687	112.63
149.00			112.856	112.614	112.614	112.856	
149.95			112.874	112.631	112.631	112.874	
150.00	112.82	112.80	112.875	112.632	112.632	112.875	112.83
160.00	113.02	112.99	113.063	112.820	112.820	113.063	112.98
160.50			113.073	112.830	112.830	113.073	
170.00	113.19	113.16	113.251	113.008	113.008	113.251	113.16
171.00			113.269	113.027	113.027	113.269	
174.00			113.276	113.084	113.084	113.276	
179.13	113.33	113.35	113.422	113.180	113.180	113.422	113.34
180.00	113.35	113.35	113.438	113.196	113.196	113.438	113.34
185.00			113.513	113.271	113.271	113.513	
189.13			113.555	113.313	113.313	113.555	
190.00	113.45	113.48	113.561	113.319	113.319	113.561	113.43
196.00			113.582	113.337	113.337	113.582	
197.50	113.50	113.52	113.589	113.352	113.352	113.589	113.47
199.13			113.51			113.51	113.47
200.00	113.51	113.55	113.55			113.55	113.47
210.00	113.52	113.57		REFER FOR INTERSECTION FOR RIGHT LIP OF KERB		113.47	113.47
212.62	113.51	113.55		REFER FOR INTERSECTION FOR LEFT LIP OF KERB		113.47	113.47
213.92			113.528			113.528	
216.92			113.278	113.278	113.278	113.278	
220.00	113.48	113.51	113.265	113.265	113.265	113.265	113.44
230.00	113.42	113.46	113.232	113.232	113.232	113.232	113.39
230.03	113.42		113.232	113.232	113.232	113.232	113.474
238.92			113.192	113.192	113.192	113.192	113.434
240.00	113.39	113.42	113.186	113.186	113.186	113.186	113.36
240.03			113.186	113.186	113.186	113.186	113.428
250.00	113.33	113.34	113.114	113.114	113.114	113.114	113.31
250.03	113.33		113.114	113.114	113.114	113.114	113.357
260.00	113.27	113.28	113.030	113.030	113.030	113.030	113.26
270.00	113.17	113.19	112.946	112.946	112.946	112.946	113.14
280.00	113.08	113.11	112.861	112.861	112.861	112.861	113.01
290.00	112.98	113.03	112.777	112.777	112.777	112.777	112.91
291.53	112.96		112.764	112.764	112.764	112.764	113.000
300.00	112.85	112.91	112.727	112.727	112.727	112.727	112.80
301.53	112.83		112.702	112.702	112.702	112.702	112.844
310.00	112.71	112.75	112.668	112.668	112.668	112.668	112.67

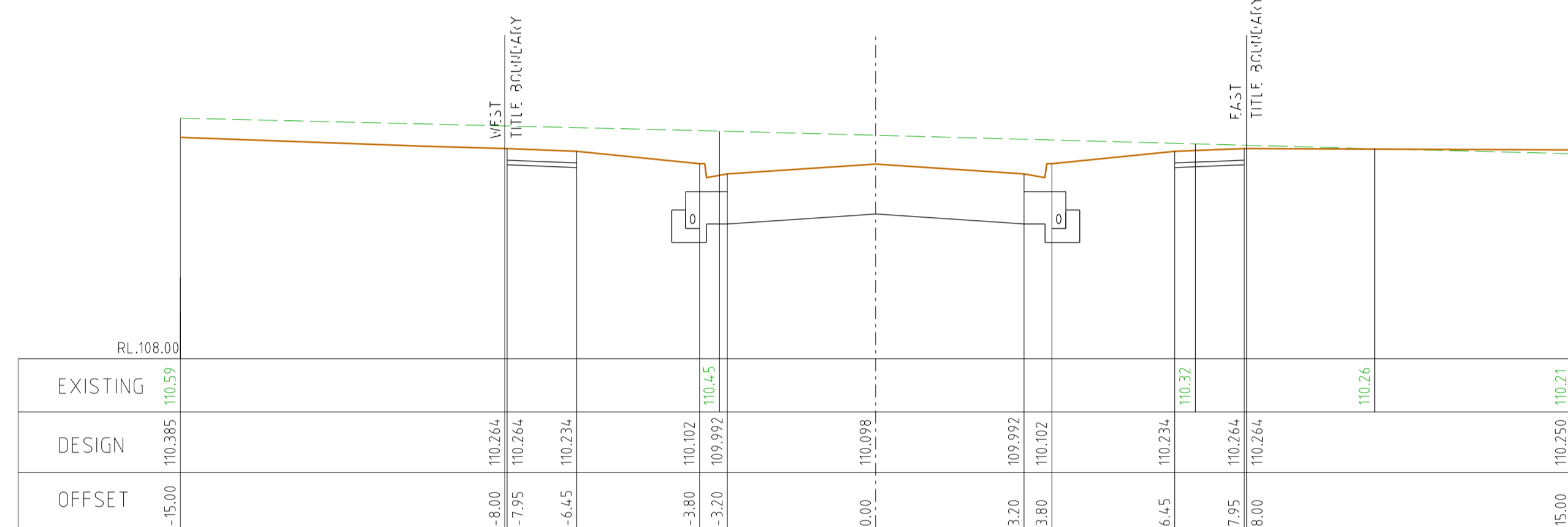
HEMSWORTH ROAD LONGITUDINAL SECTION

SCALE Hor. 1:500
Vert 1:50

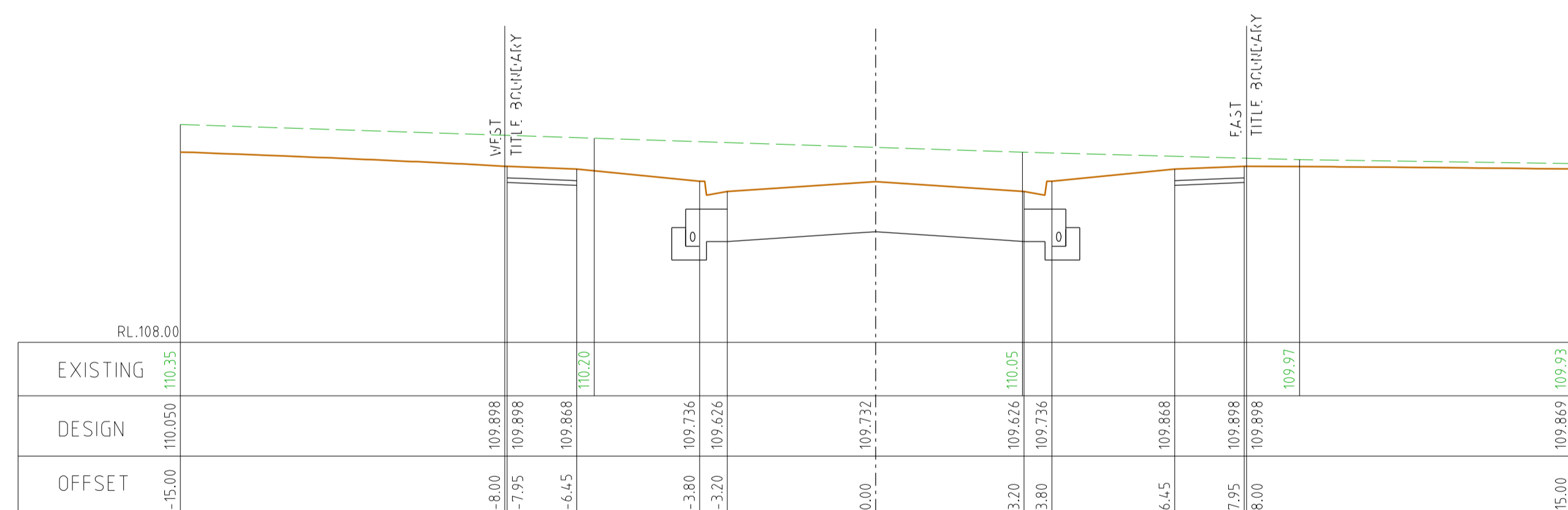
<p>AMENDMENTS</p> <table border="1"> <tr><th>NO.</th><th>DATE</th><th>REMARKS</th></tr> <tr><td>A</td><td>18-11-2020</td><td>CONSTRUCTION ISSUE</td></tr> </table>		NO.	DATE	REMARKS	A	18-11-2020	CONSTRUCTION ISSUE	<p>MELWAY REF. 342-J-7</p> <p>SURVEY B. P. D.</p> <p>DESIGN RK</p> <p>DRAWN RK</p> <p>CHECKED</p>	<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p> <p>1/19 calc street hawthorn east, 3123 telephone RR23 2300 fax no. RR23 2310</p>
		NO.	DATE	REMARKS					
		A	18-11-2020	CONSTRUCTION ISSUE					
<p>OPALIA ESTATE STAGE 5</p> <p>HEMSWORTH LONG SECTION</p>	<p>MUNICIPALITY MELTON</p> <p>REFERENCE 6751 E/05</p>								
<p>SCALE AS SHOWN</p> <p>DATUM AHD</p> <p>DATE APR. 20</p>	<p>SHEET 11 OF 23</p>								



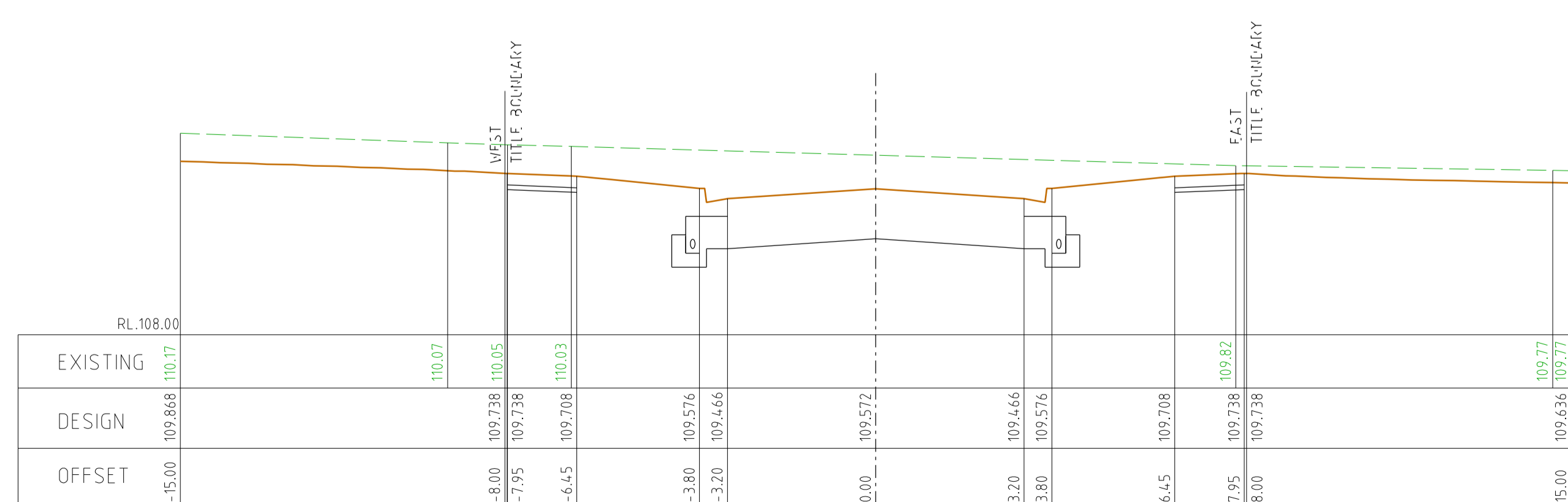
57.05



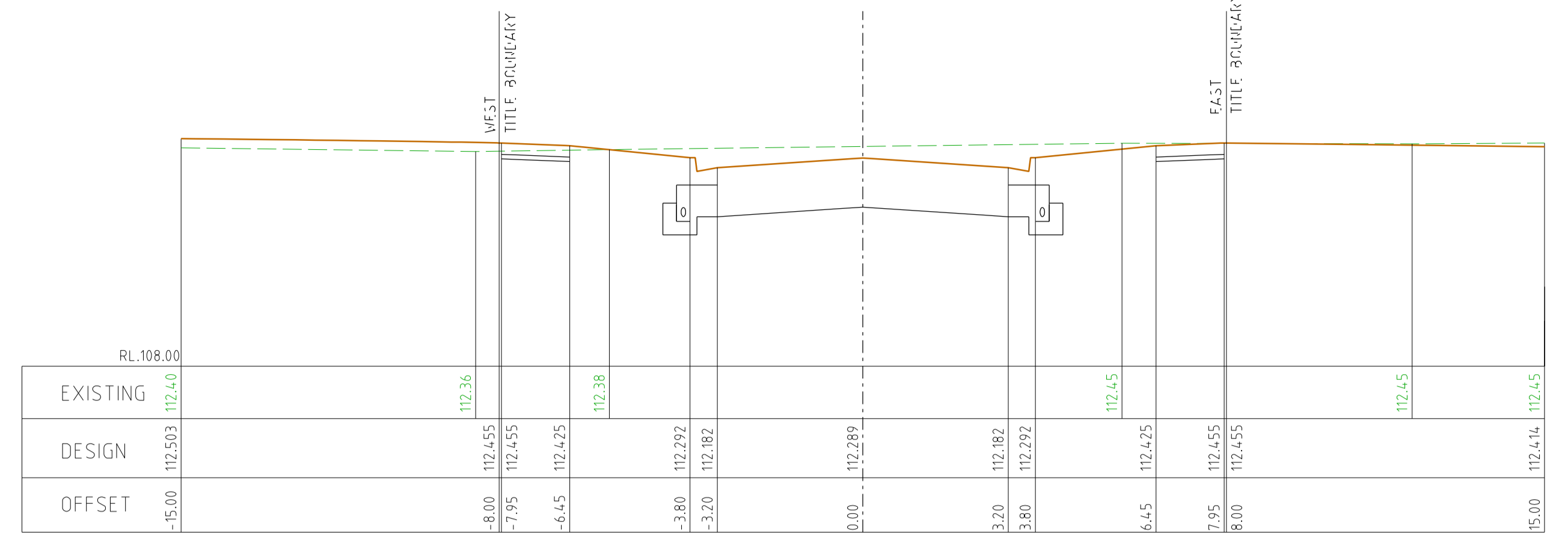
36.00



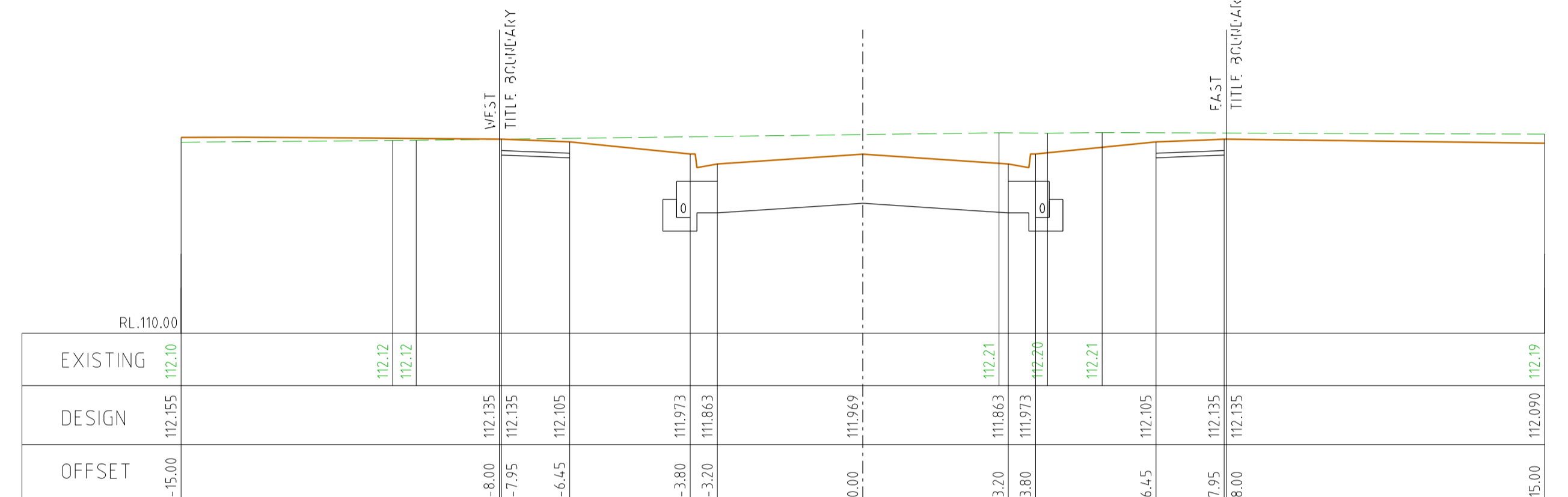
22.00



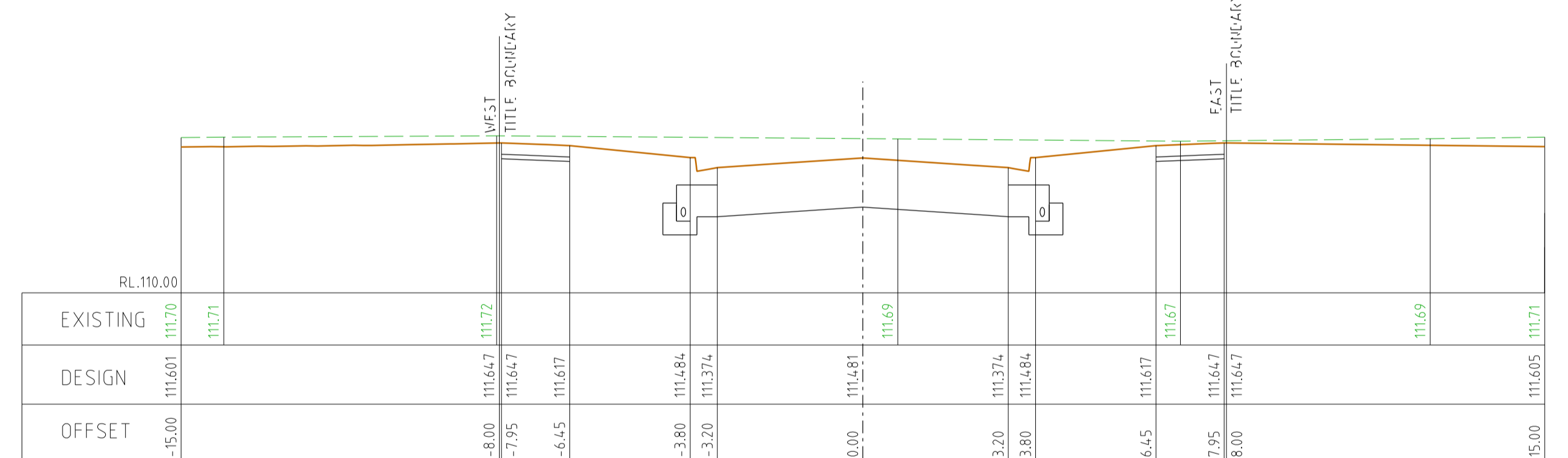
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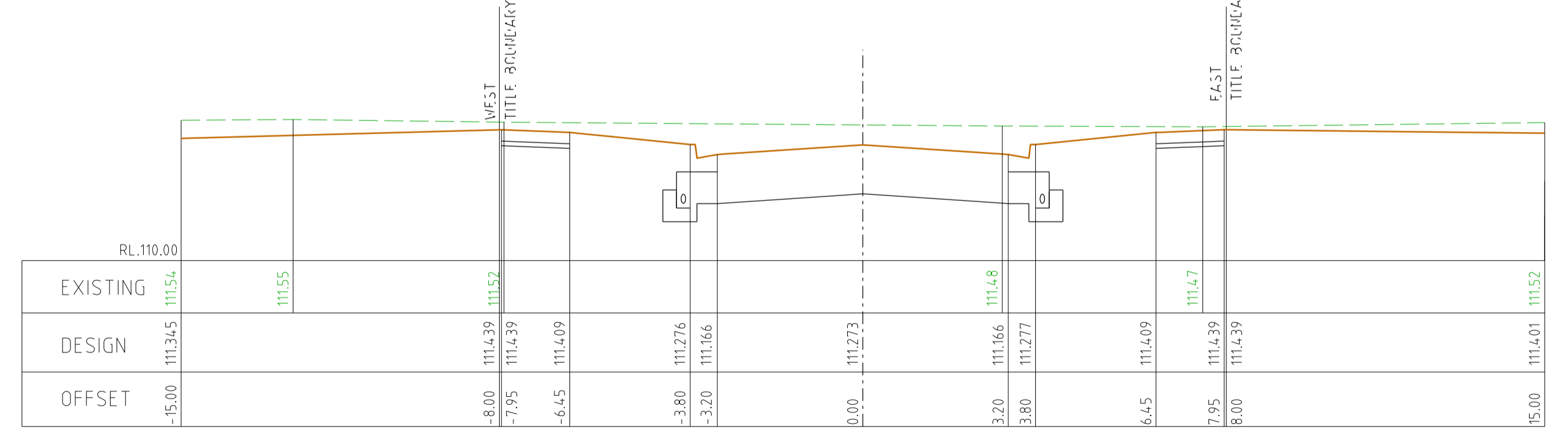
126.05



110.00



89.00

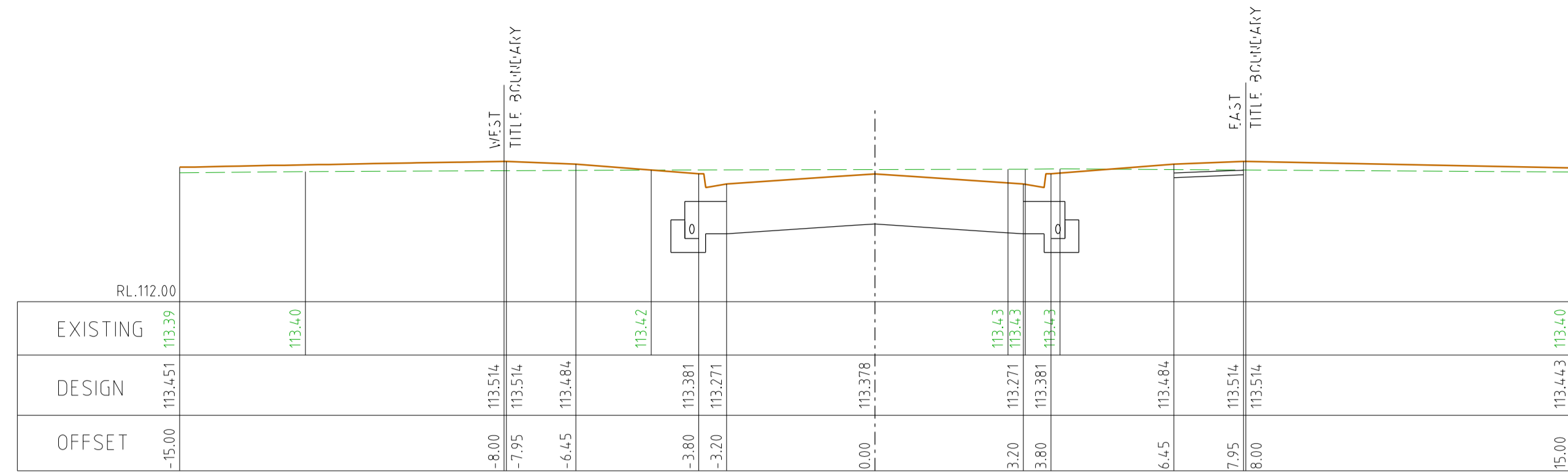


80.95

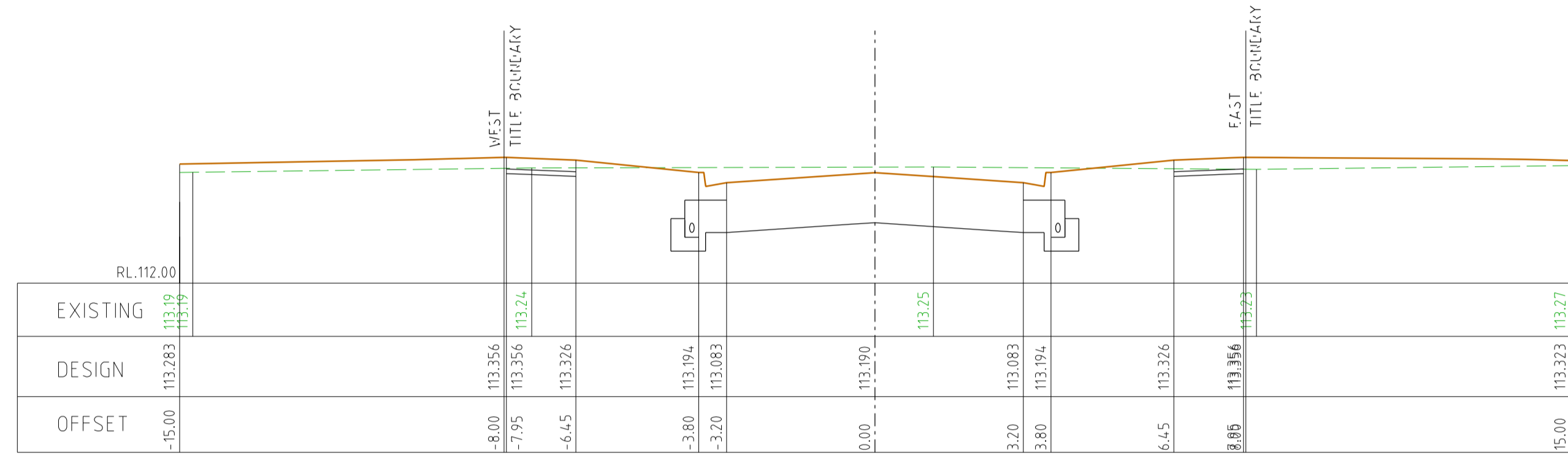
HEMSWORTH ROAD CROSS SECTIONS

SCALE Hor. 1:100
Vert 1:50

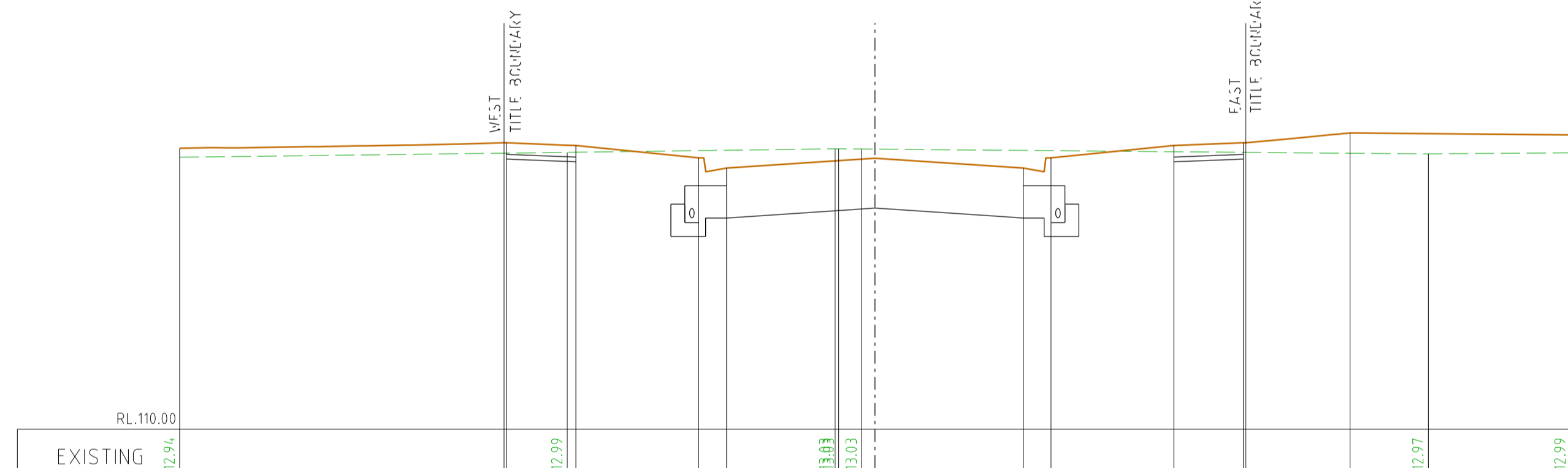
AMENDMENTS		MELWAY REF. 342-J-7		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		SURVEY B. P. D.		OPALIA ESTATE STAGE 5		MUNICIPALITY MELTON	
A 18-11-2020 CONSTRUCTION ISSUE		DESIGN RK		HEMSWORTH CROSS SECTIONS		REFERENCE 6751 E/05	
VER DATE REMARKS		DRAWN RK		SCALE AS SHOWN DATUM AHD DATE APR. 20		SHEET 12 OF 23 A	
		CHECKED				PROJECT FILES	



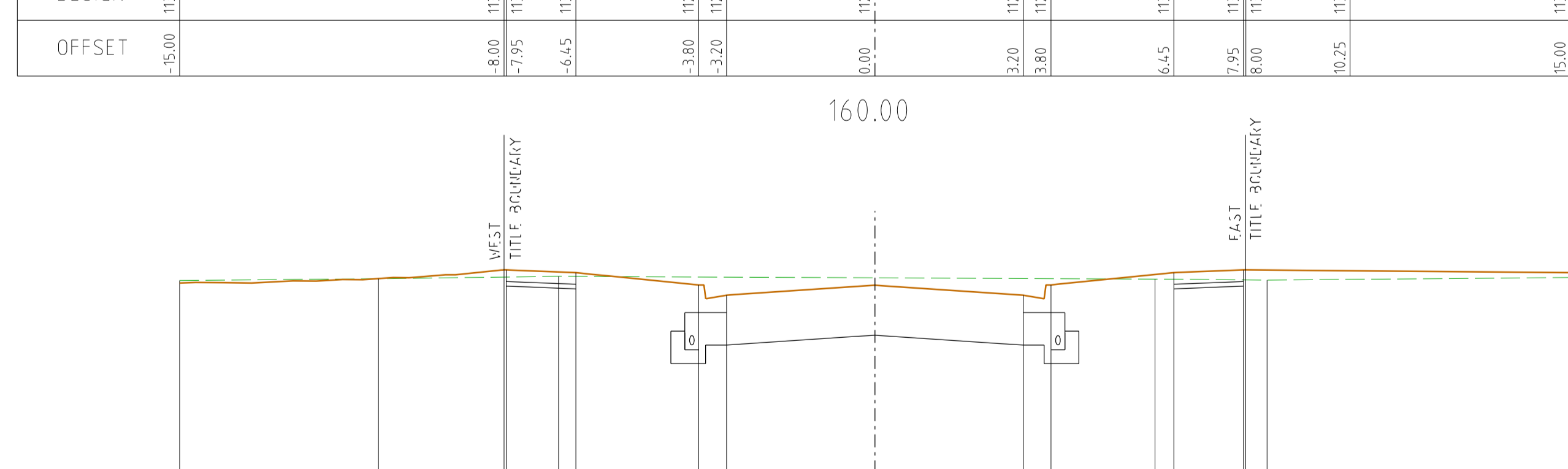
185.00



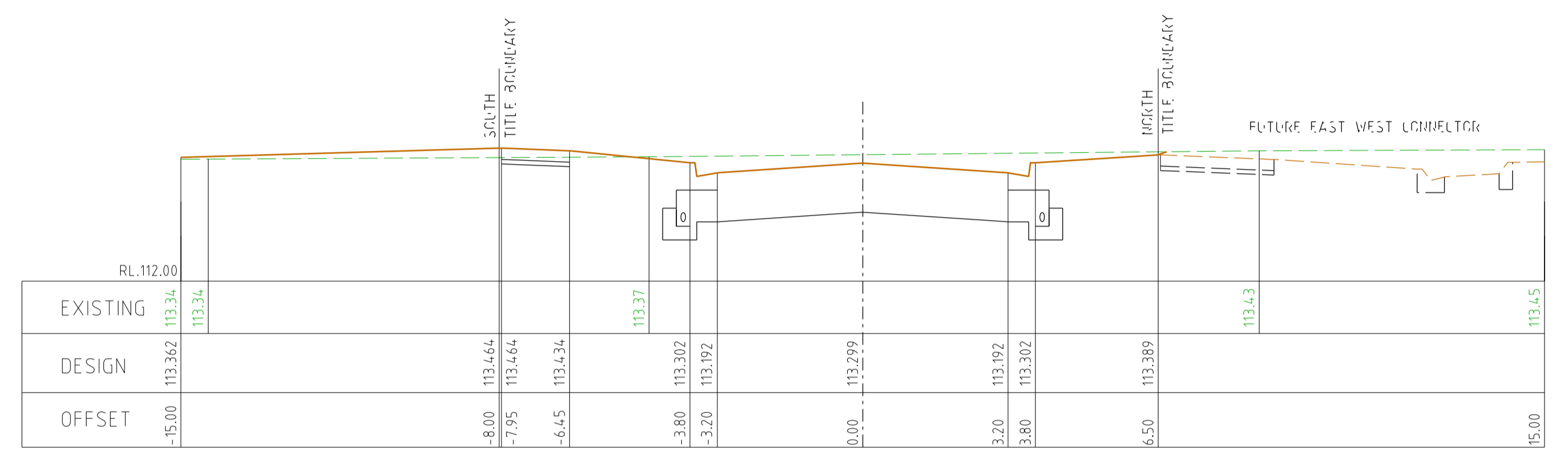
174.00



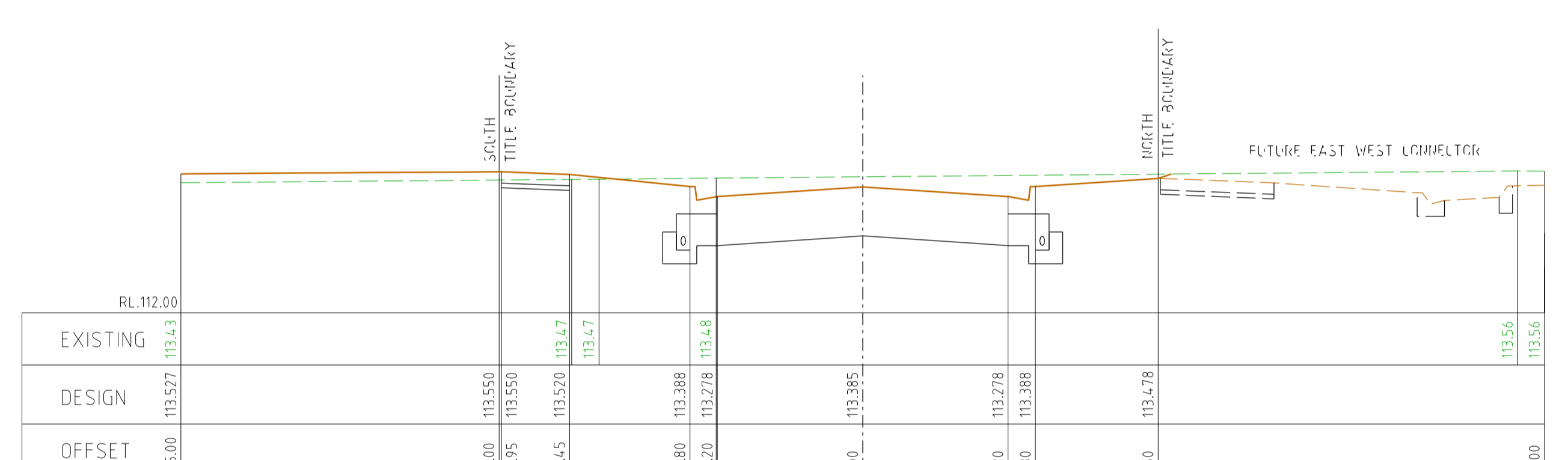
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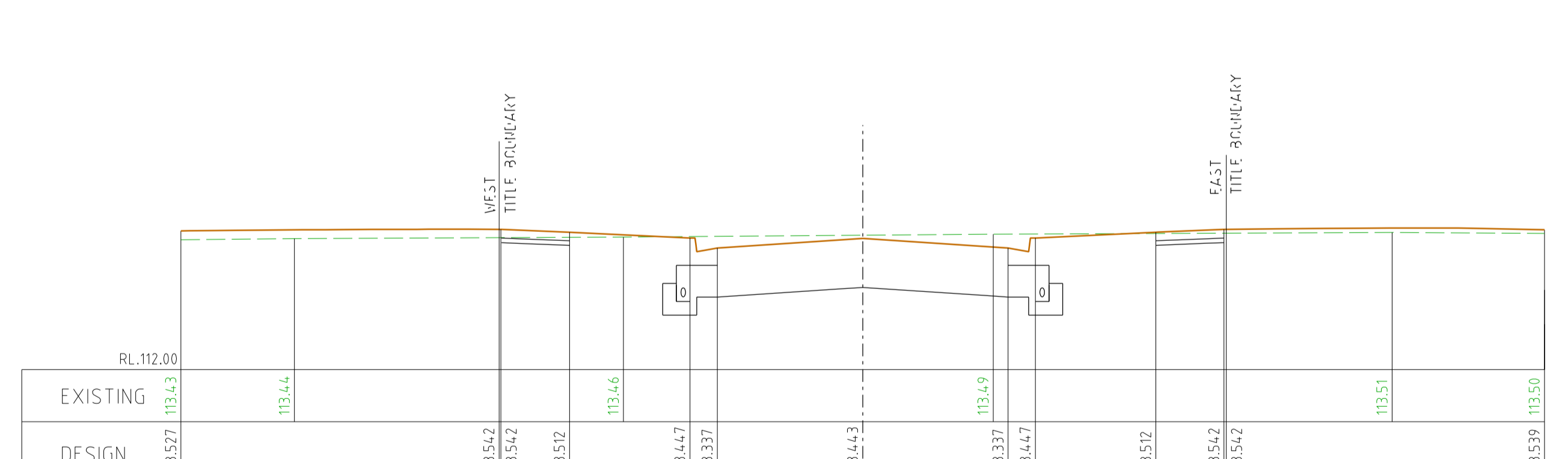
149.95



238.92



216.12



193.80

HEMSWORTH ROAD CROSS SECTIONS

SCALE Hor. 1:100
Ver. 1:50

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 calc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK		OPALIA ESTATE STAGE 5 HEMSWORTH ROAD CROSS SECTIONS		MUNICIPALITY MELTON REFERENCE 6751 E/05	
AMENDMENTS A 18-11-2020 CONSTRUCTION ISSUE	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE APR. 20	SHEET 13 OF 23

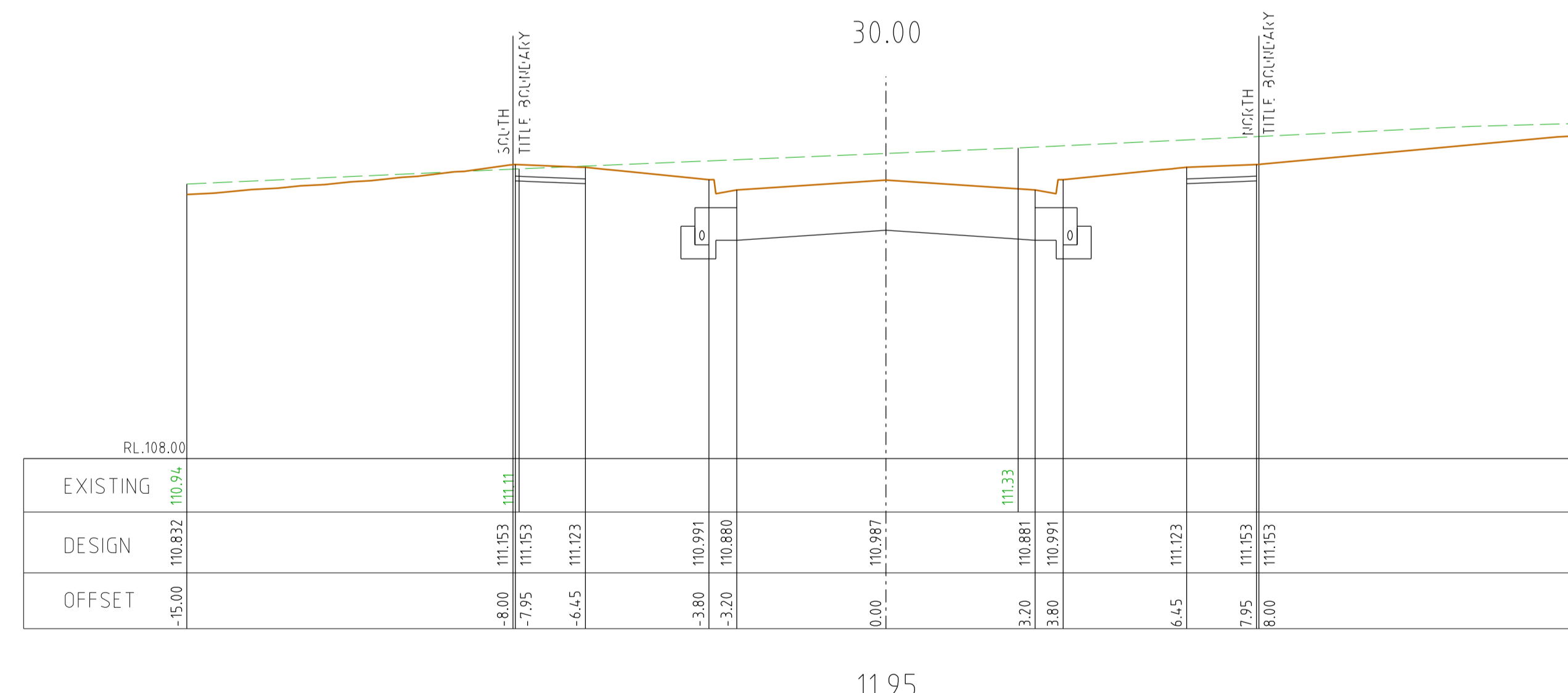
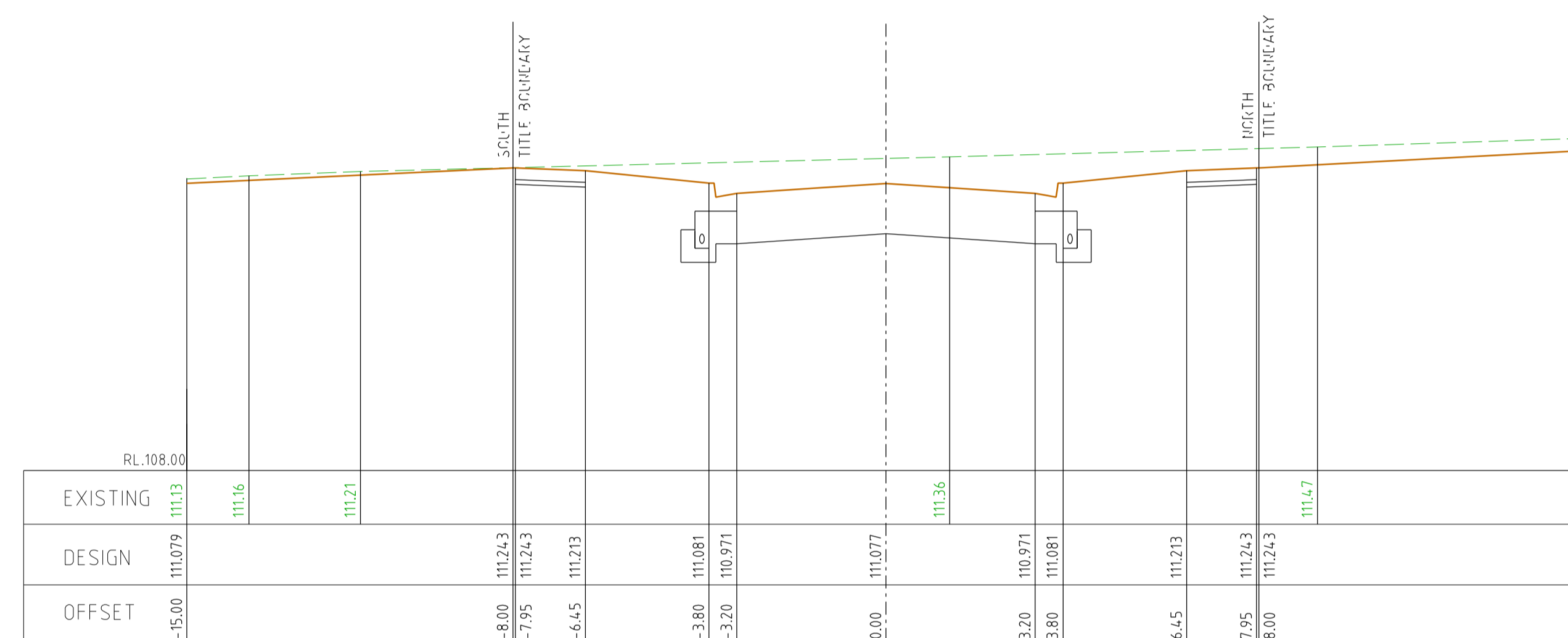
ORIGINAL EXISTING SURFACE NORTH TITLE BOUNDARY
 ORIGINAL EXISTING SURFACE SOUTH TITLE BOUNDARY
 ORIGINAL EXISTING SURFACE CENTRE LINE ROAD
 END WORKS STAGE 5 CH330.00
 FRONT LEFT & RIGHT PED PATH
 DESIGN LEFT & RIGHT DRIVING LIP

V.C. LENGTH
 GRADES LEFT & RIGHT DRIVING LIP OF KERB
 Datum R.L. 100.00

ES LEFT TITLE BOUNDARY	110.97	111.08																		
DESIGN LEFT FRONT PATH			111.118	111.163	111.163	111.163	111.163	111.22	111.22	111.22	111.22	111.22	111.22	111.22	111.22	111.22	111.22	111.22	111.22	111.22
DESIGN LEFT DRIVING LIP OF KERB			110.881	110.881	110.921	110.921	111.021	111.021	111.021	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071
DESIGN RIGHT DRIVING LIP OF KERB			110.881	110.881	110.921	110.921	111.021	111.021	111.021	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071	111.071
DESIGN RIGHT FRONT PATH			111.118	111.163	111.163	111.213	111.213	111.263	111.263	111.263	111.263	111.263	111.263	111.263	111.263	111.263	111.263	111.263	111.263	111.263
ES RIGHT TITLE BOUNDARY		111.44			111.47	111.45	111.46	111.46	111.46	111.41	111.41	111.33	111.33	111.41	111.41	111.46	111.46	111.46	111.46	111.46
ES CENTRE LINE ROAD		111.26			111.32	111.35	111.33	111.46	111.32	111.28	111.18	111.18	111.32	111.32	111.36	111.36	111.37	111.49	111.49	111.46
CHAINAGE CENTRE LINE ROAD	0.00	10.00	15.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00

ATHENA ROAD LONGITUDINAL SECTION

SCALE Hor. 1:50
 Vert 1:50

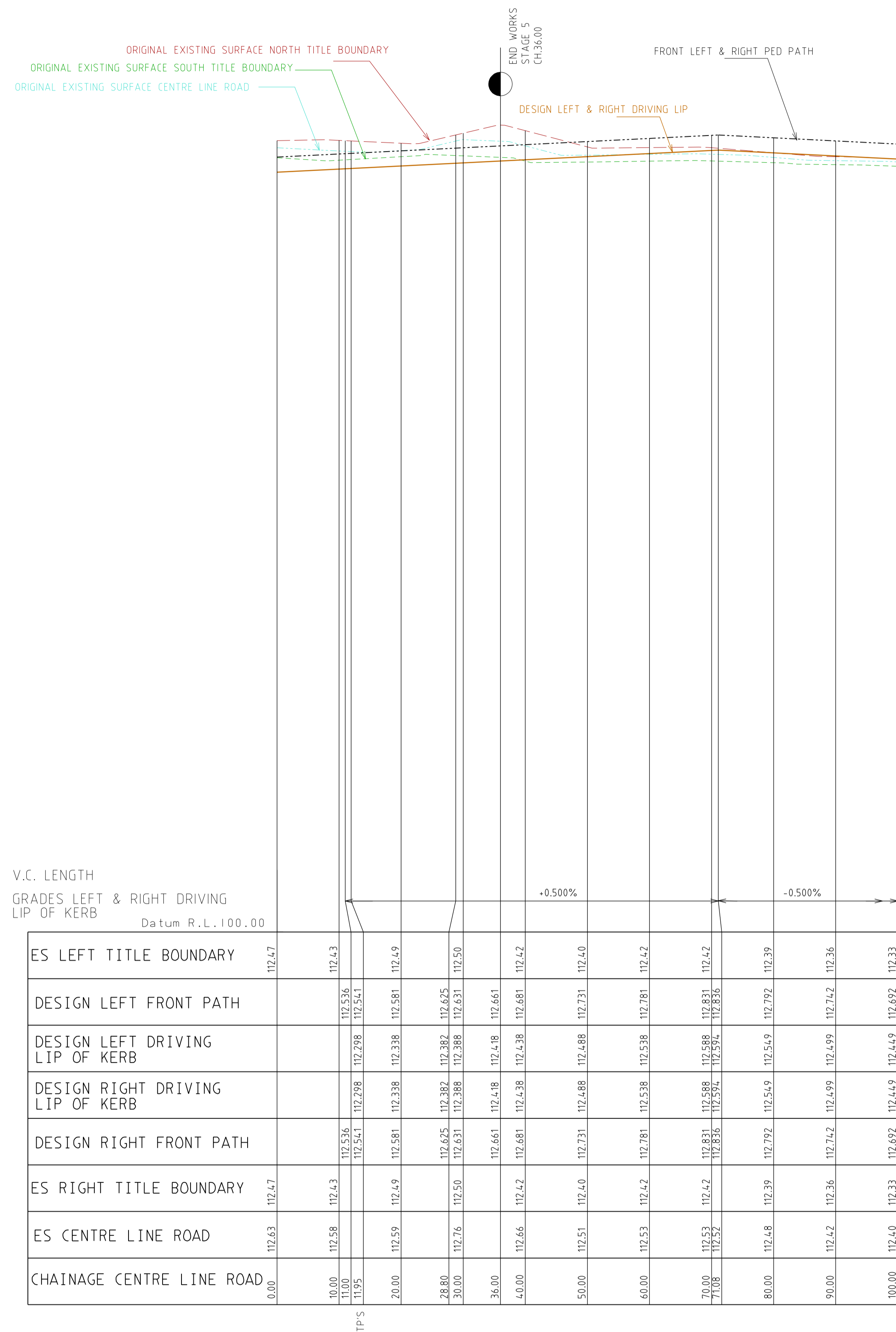


ATHENA ROAD CROSS SECTIONS

SCALE Hor. 1:100
 Vert 1:50

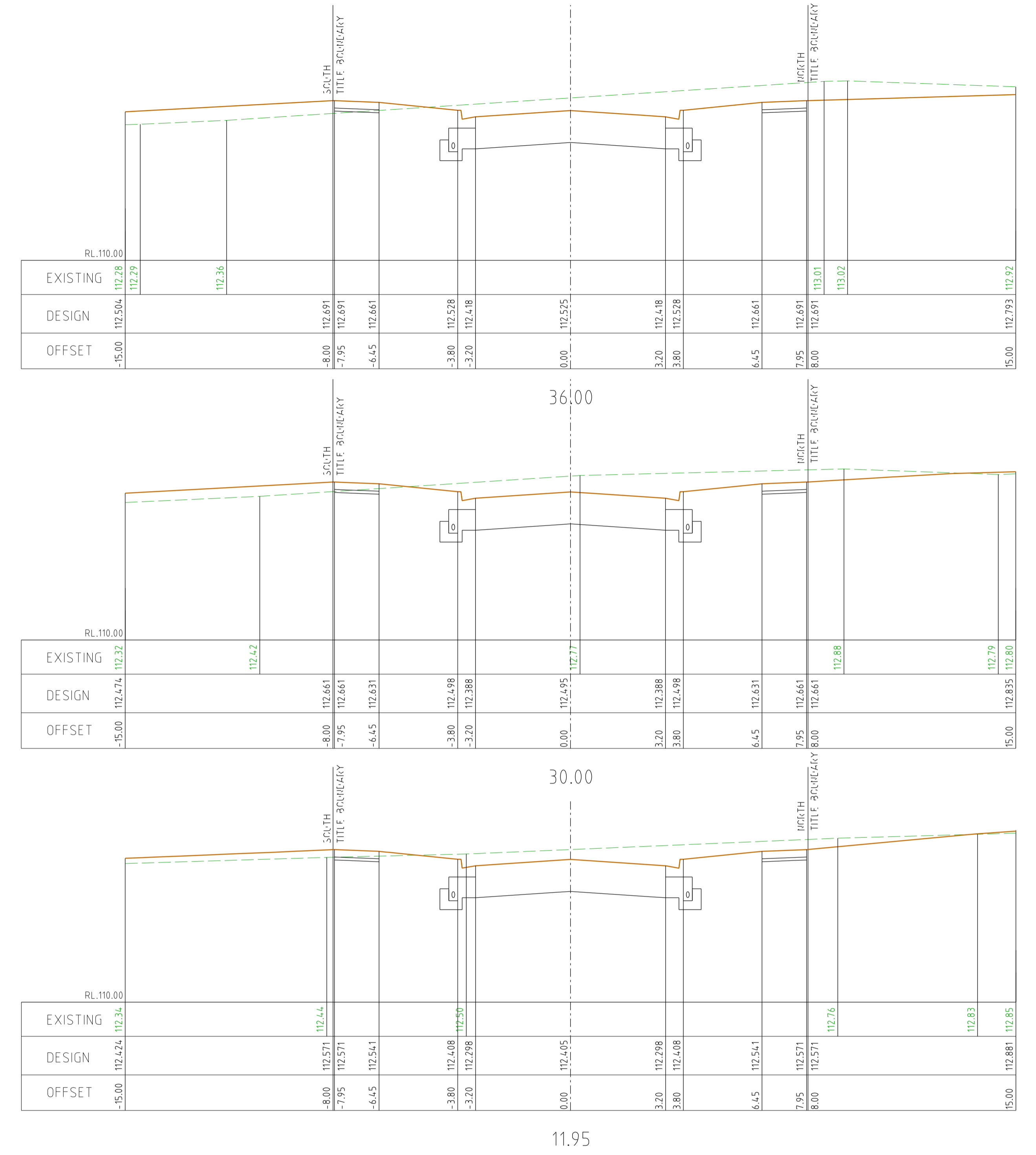
		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 742-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK		MUNICIPALITY MELTON	
		OPALIA ESTATE STAGE 5 ATHENA ROAD LONG AND CROSS SECTIONS		REFERENCE 6751 E/05	
AMENDMENTS A 18-11-2020 CONSTRUCTION ISSUE		CHECKED SCALE AS SHOWN DATUM AHD DATE APR. 20		SHEET 14 OF 23 A	

PROFILES



NOVA STREET LONGITUDINAL SECTION

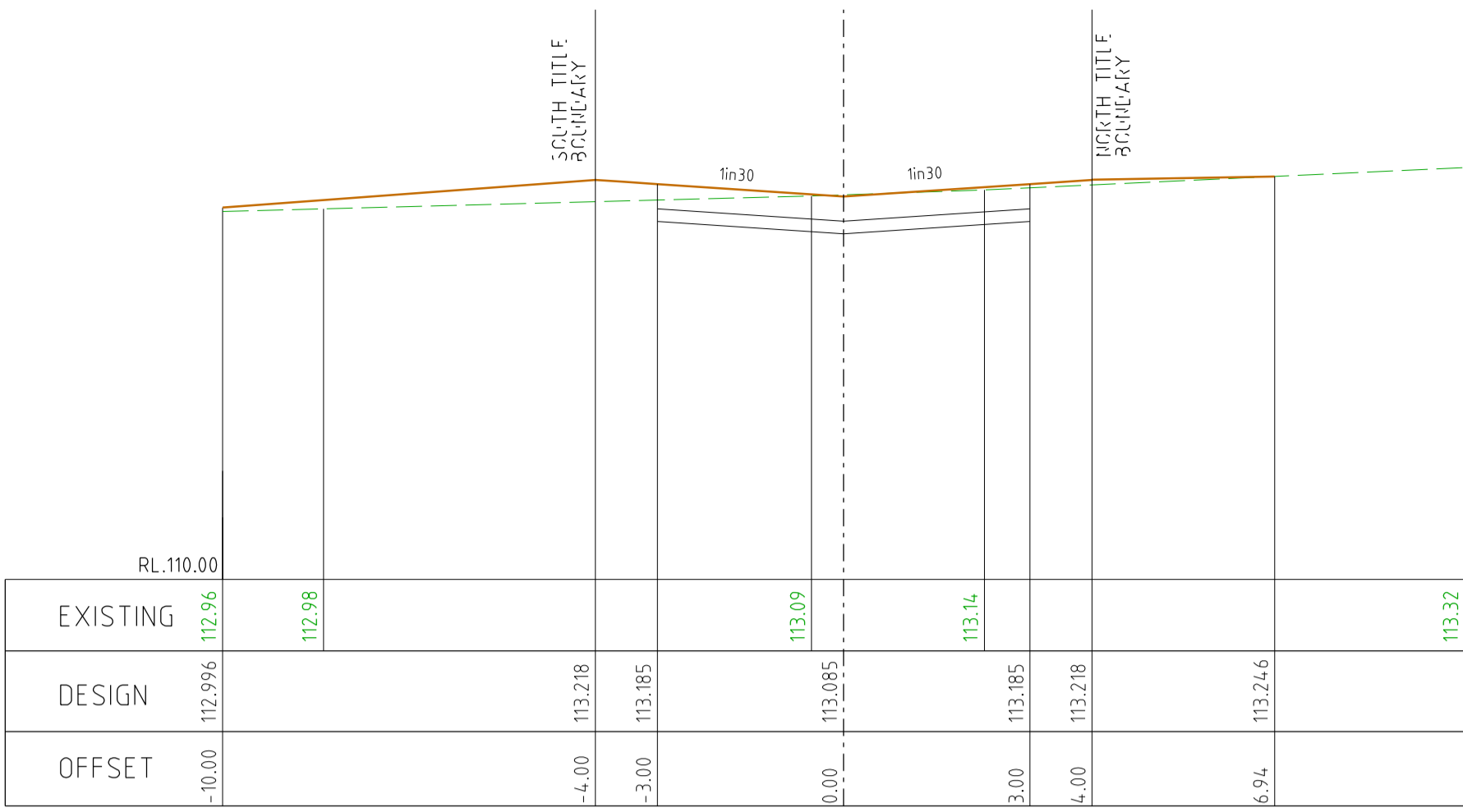
SCALE Hor. 1:500
 Vert 1:50



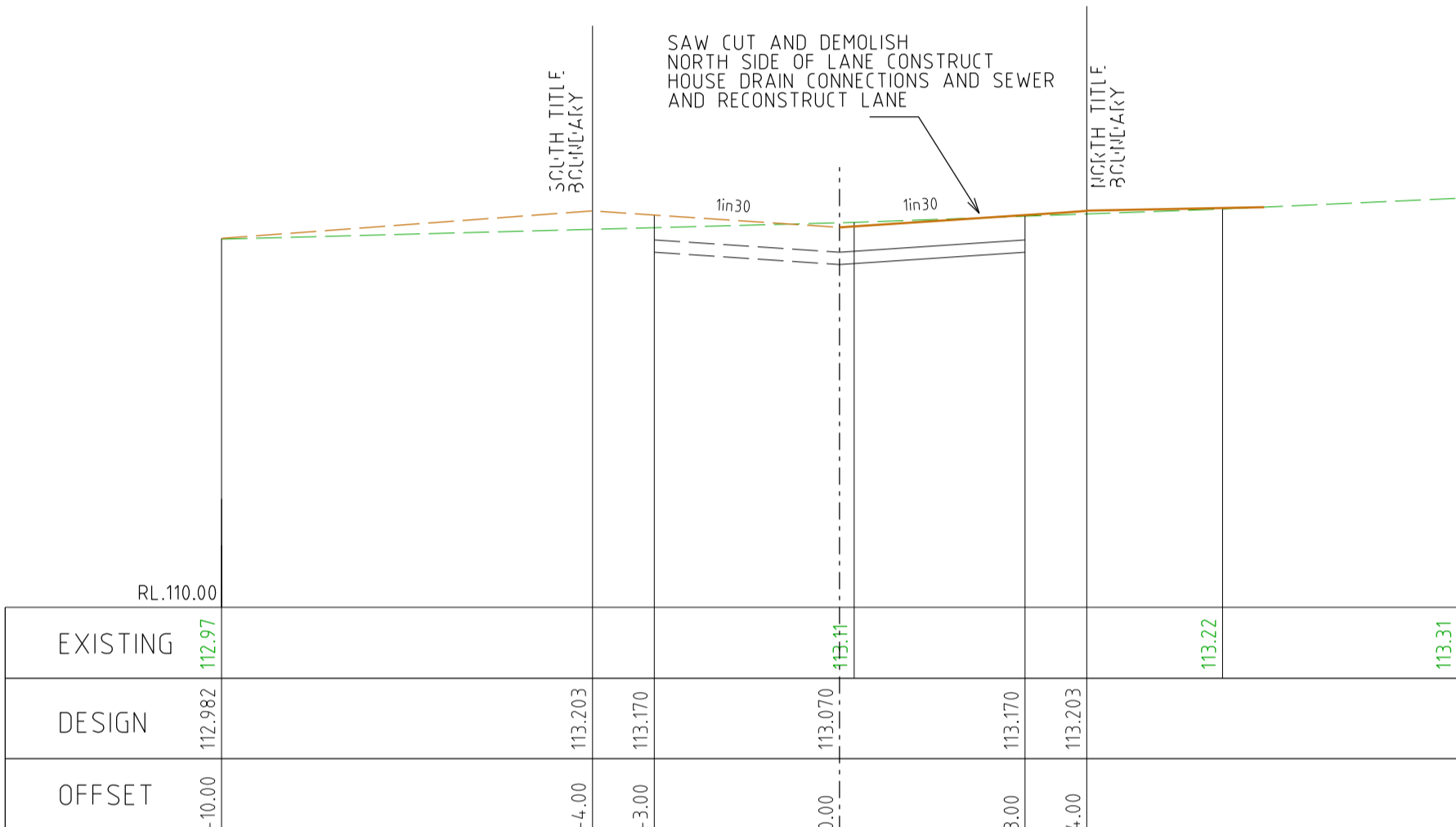
NOVA STREET CROSS SECTIONS

SCALE Hor. 1:100
 Vert 1:50

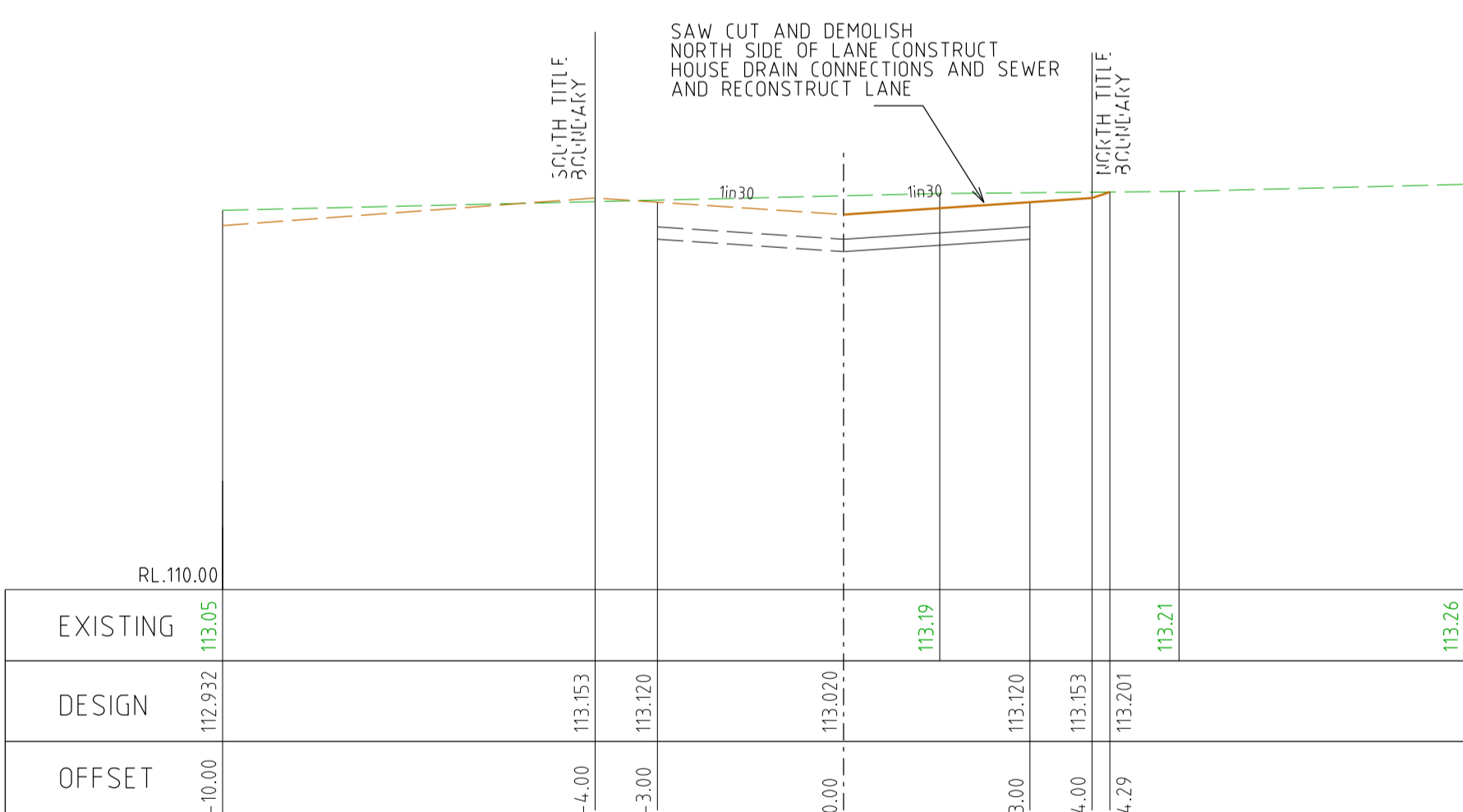
AMENDMENTS		MELWAY REF. 342-J-7		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		SURVEY B.P.D.		OPALIA ESTATE STAGE 5		MUNICIPALITY MELTON	
		DESIGN RK		NOVA STREET LONG AND CROSS SECTIONS		REFERENCE 6751 E/05	
A 18-11-2020 CONSTRUCTION ISSUE		DRAWN RK		SCALE AS SHOWN DATUM AHD DATE APR. 20		SHEET 15 OF 23	
VER DATE REMARKS		CHECKED				A	



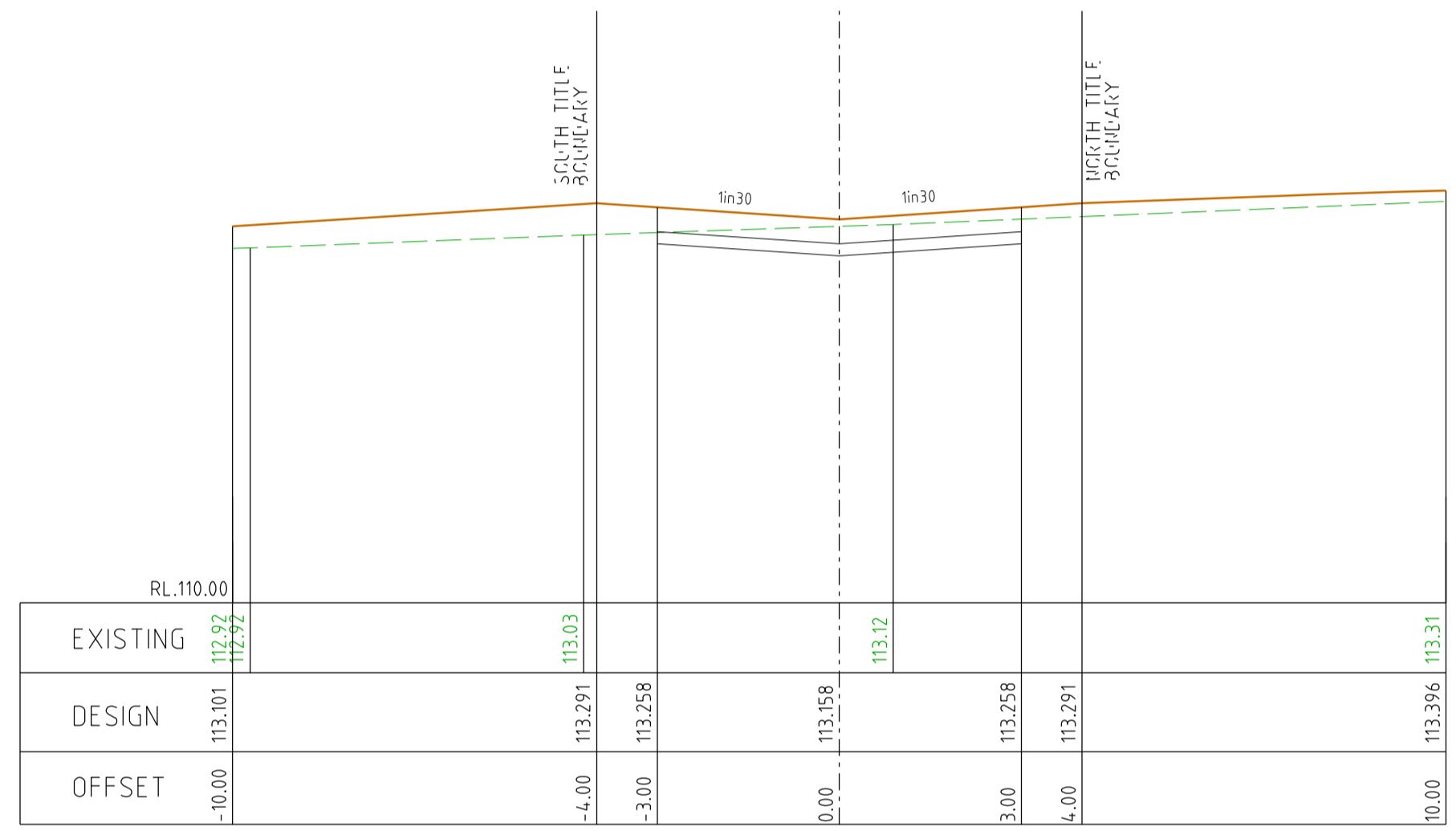
25.00



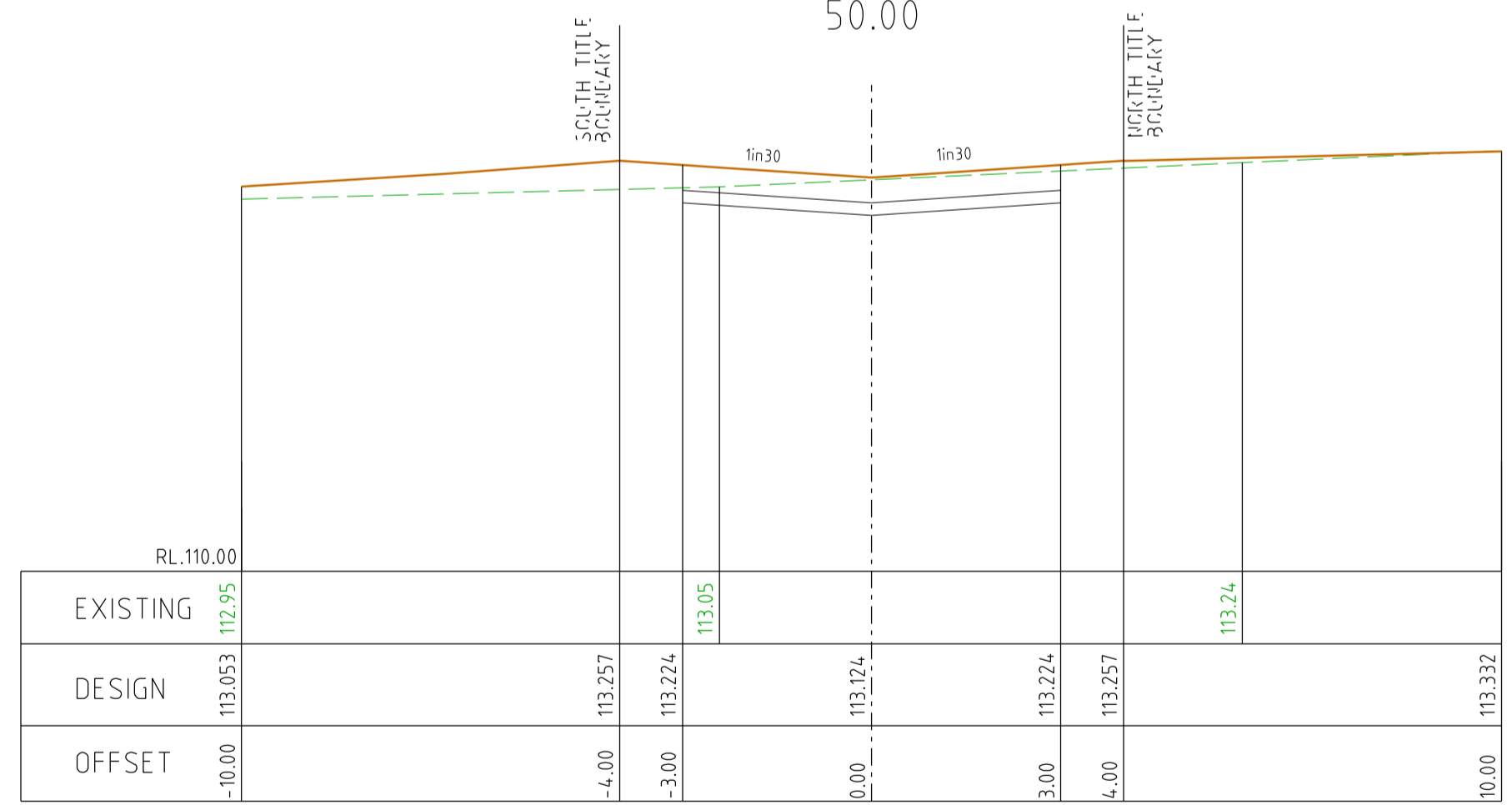
20.00



3.00



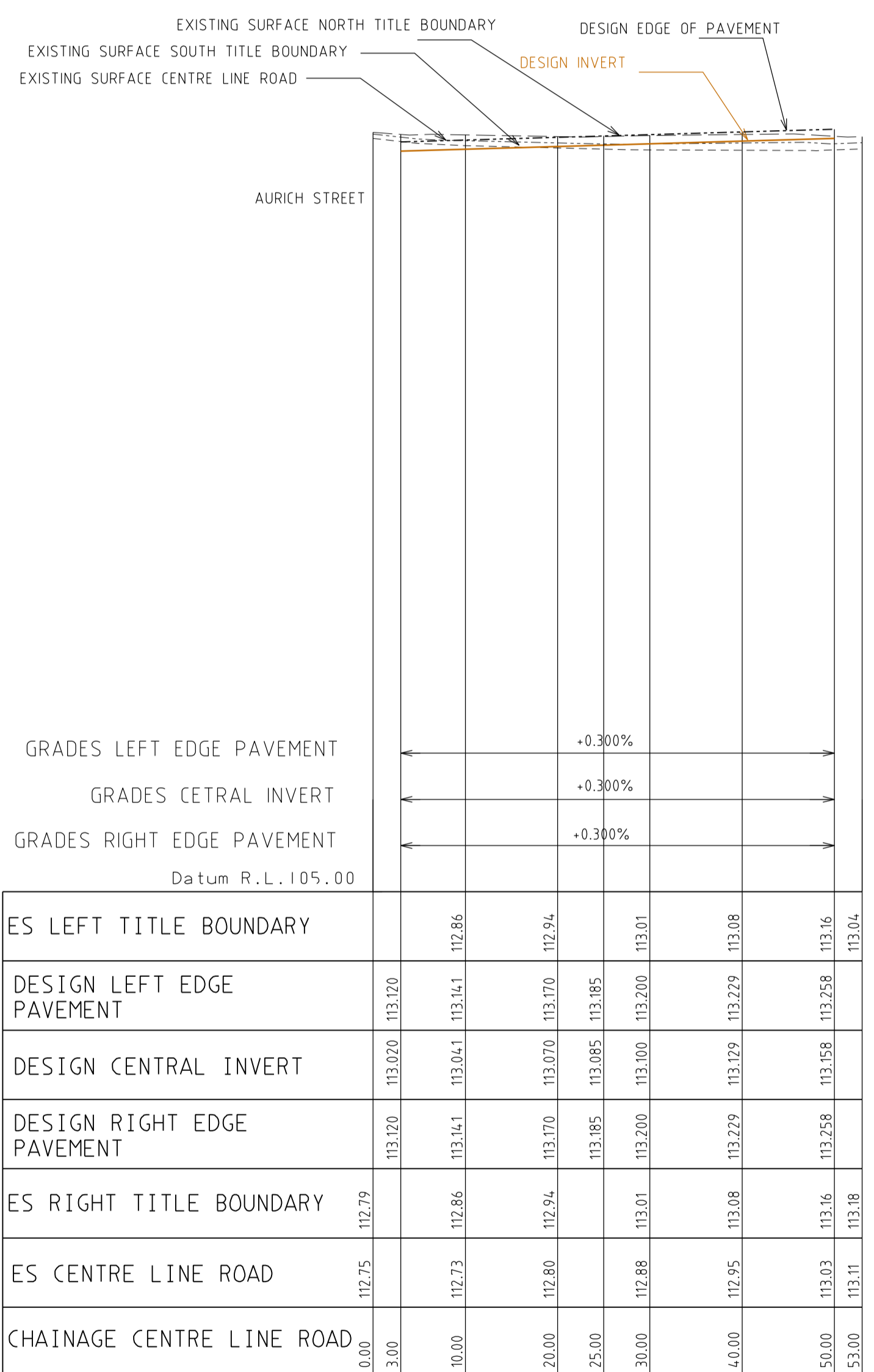
50.00



38.50

MIRACLE LANE CROSS SECTIONS

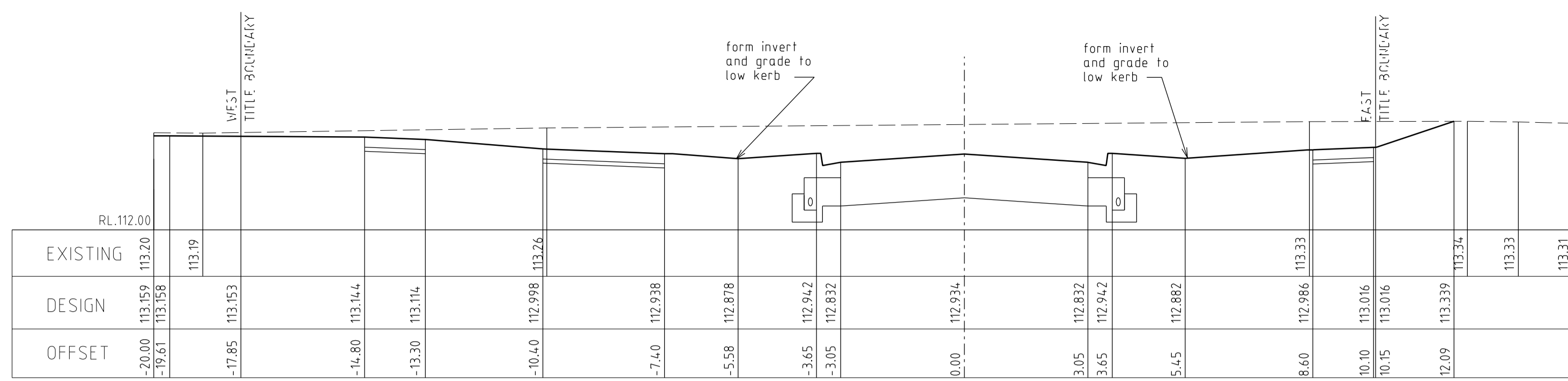
SCALE Hor. 1:100
Vert 1:50



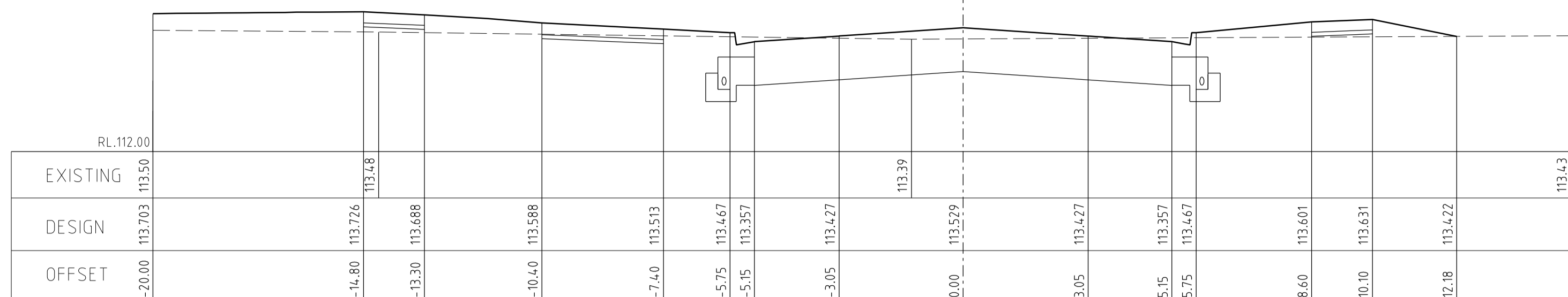
MIRACLE LANE LONGITUDINAL SECTION

SCALE Hor. 1:500
Vert 1:50

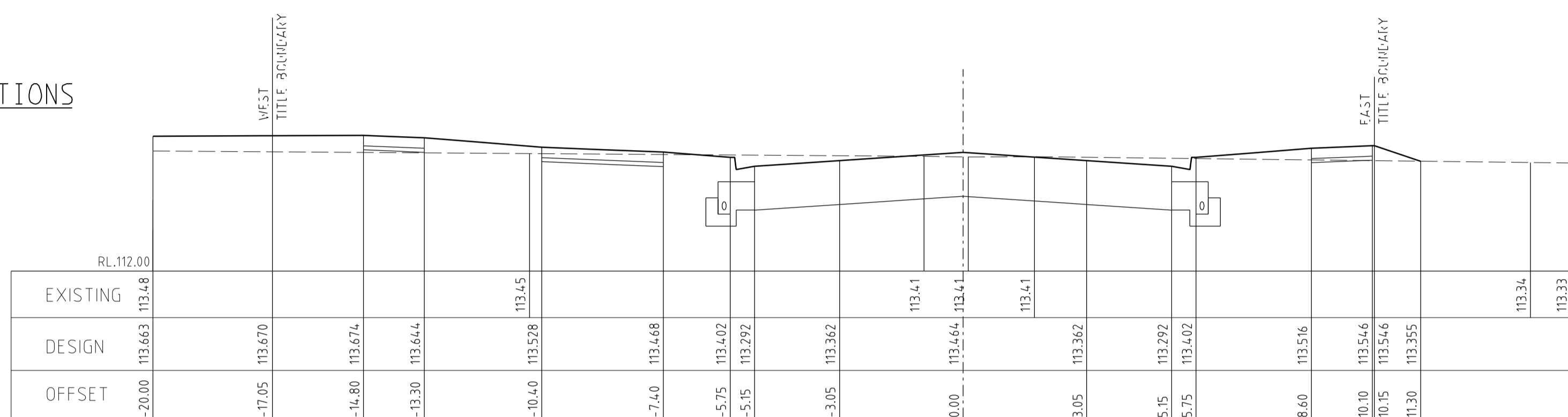
		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK		MUNICIPALITY MELTON	
A 18-11-2020 CONSTRUCTION ISSUE DRAWN RK		REFERENCE 6751 E/05	
AMENDMENTS VER. DATE REMARKS	CHECKED	SCALE AS SHOWN DATUM AHD DATE APR. 20	SHEET 16 OF 23 A



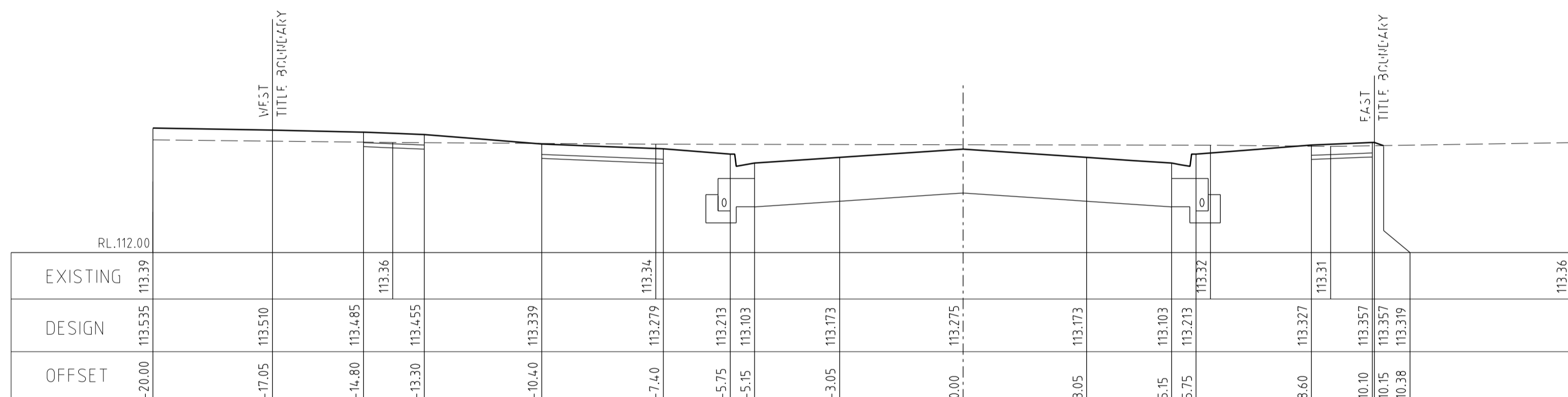
316.64



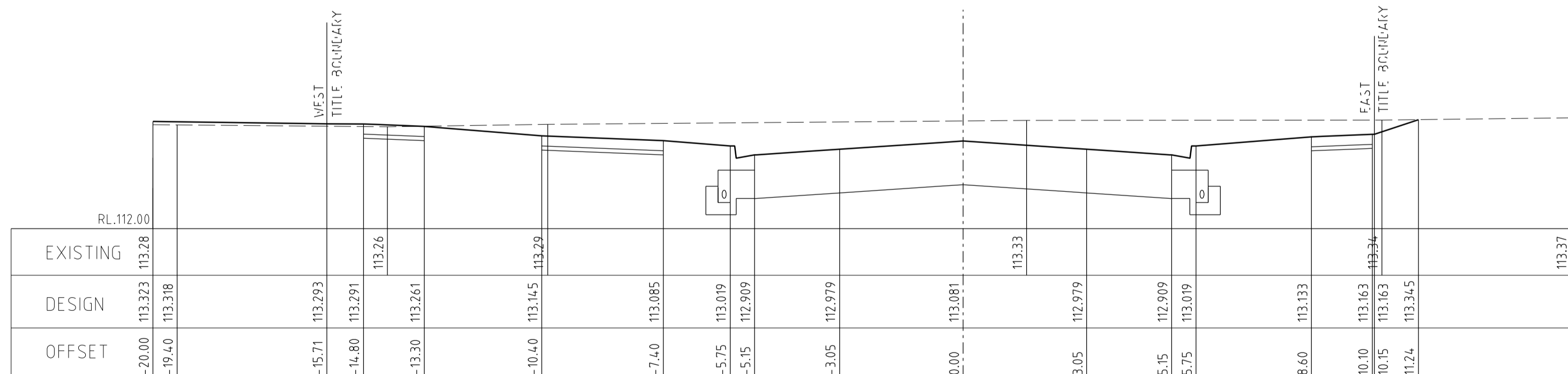
357.84



349.14



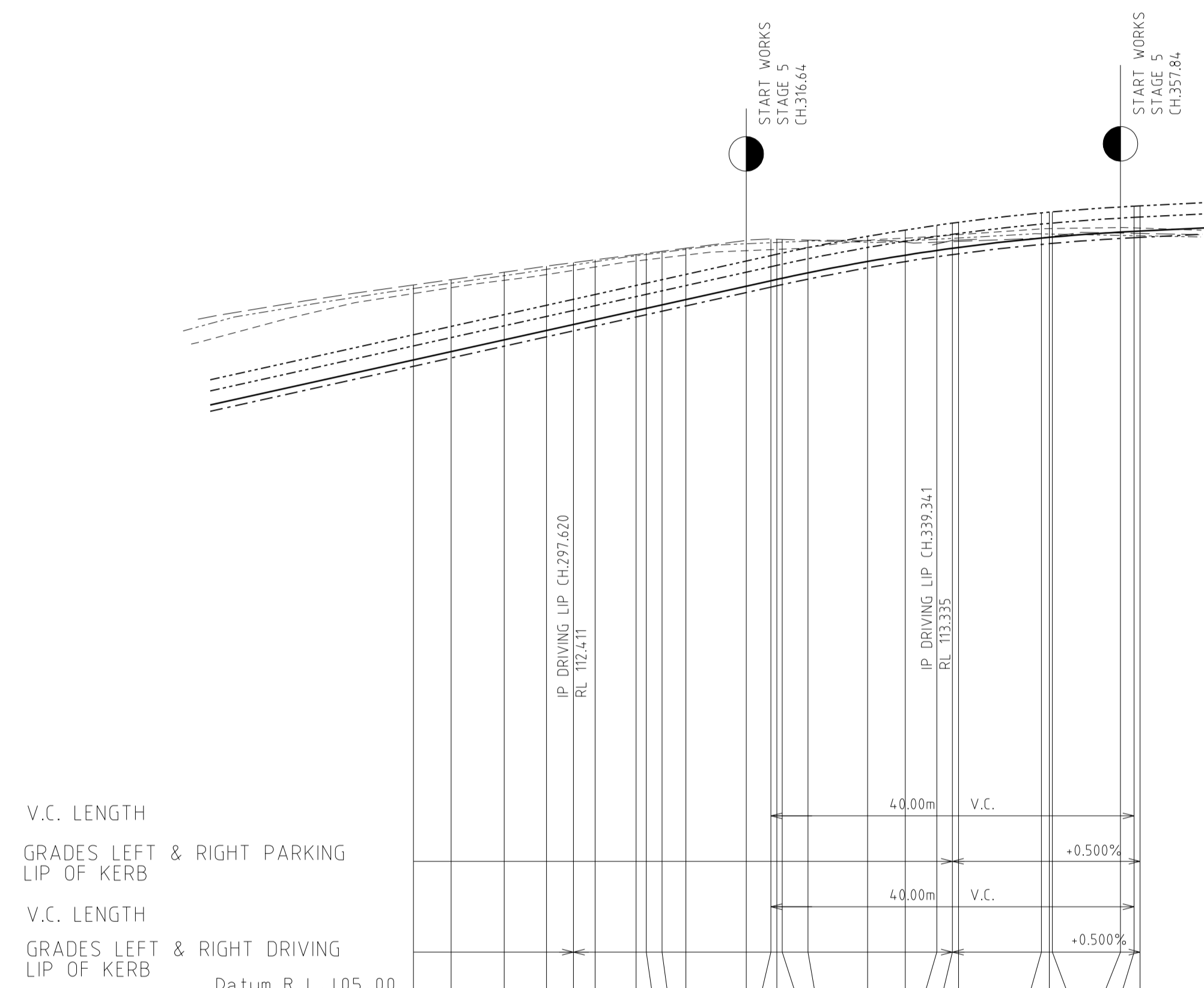
334.14



323.44

AURICH STREET CROSS SECTIONS

SCALE Hor. 1:100
Vert. 1:50

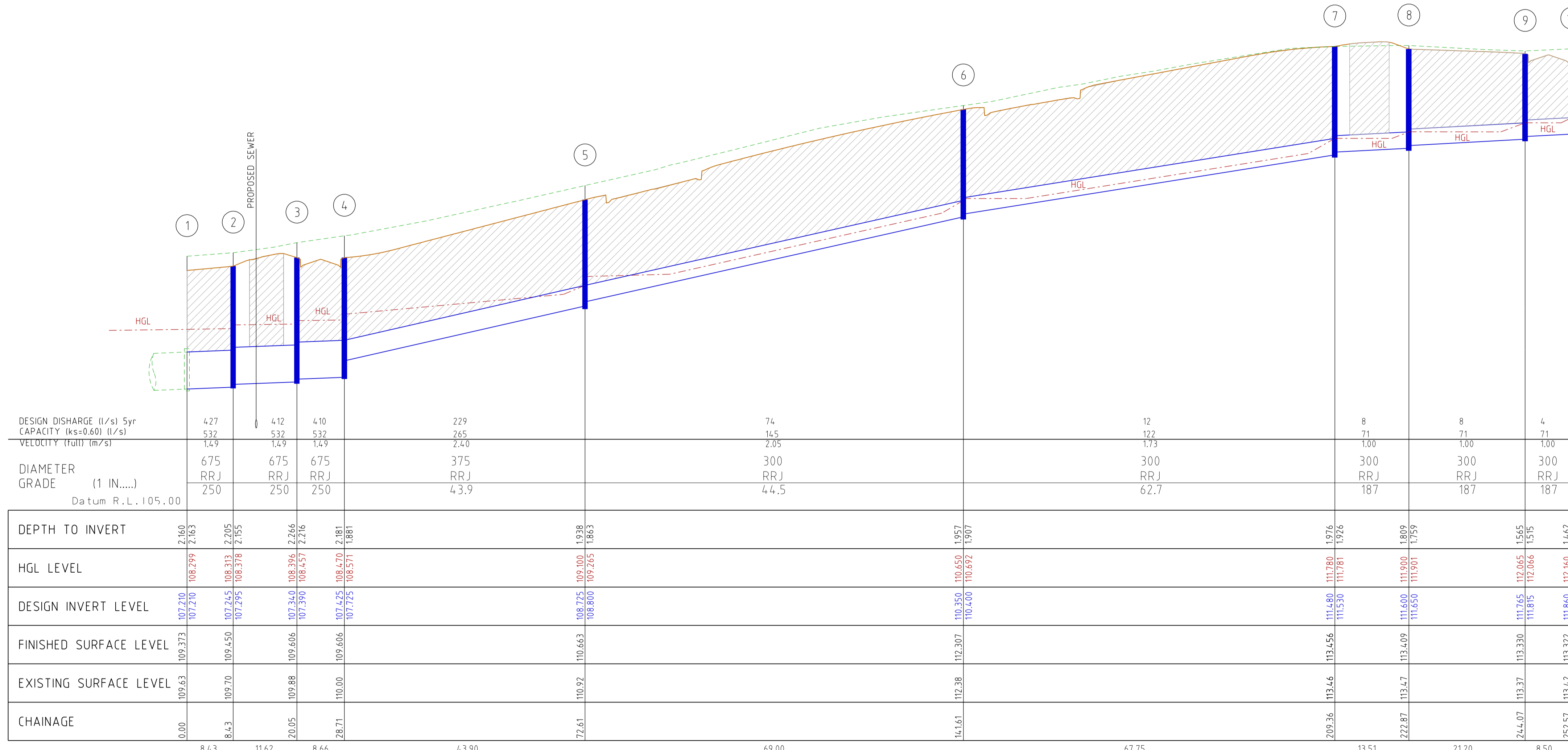
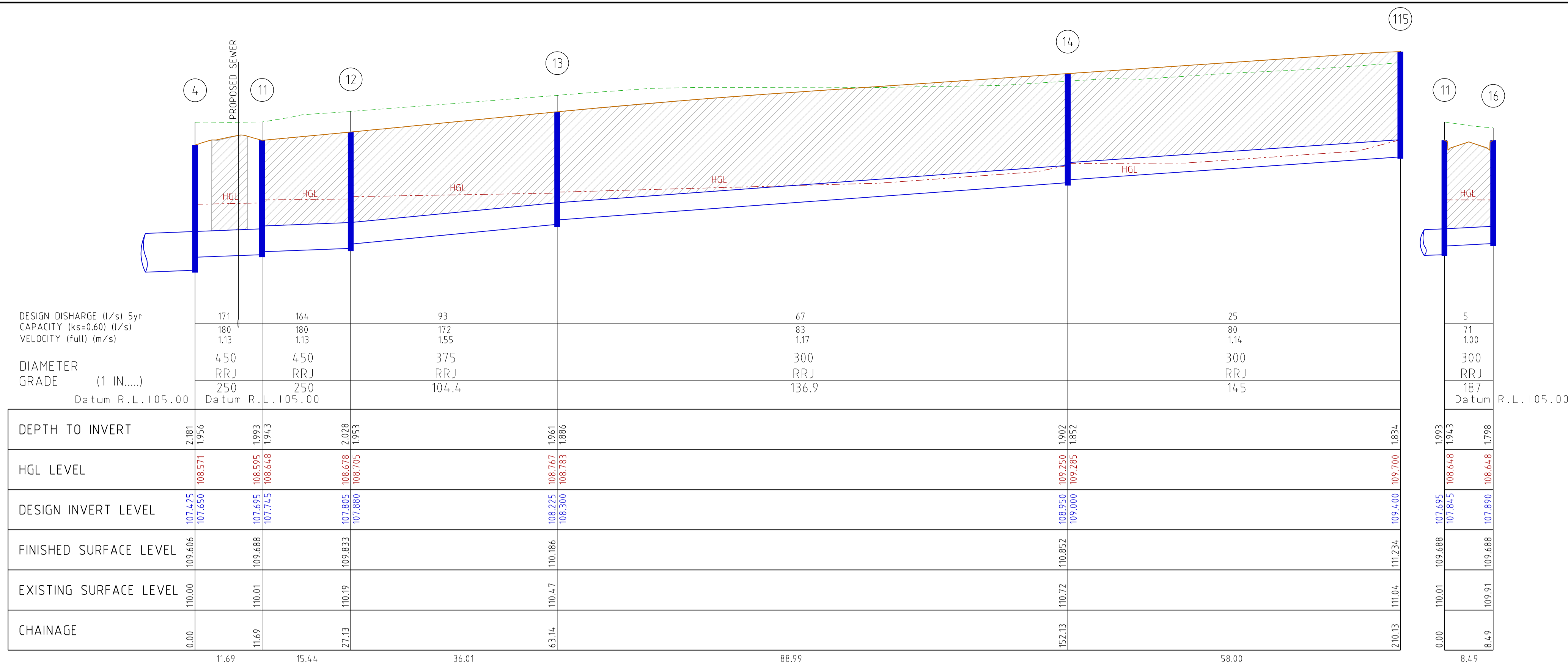


ES LEFT TITLE BOUNDARY	112.75	112.298	112.021	111.951	112.042	112.172	112.519	112.90	113.04	113.17	113.31	113.34	113.34	113.47	113.47	113.47
DESIGN LEFT FRONT PATH																
DESIGN LEFT PARKING LIP OF KERB																
DESIGN LEFT DRIVING LIP OF KERB																
DESIGN RIGHT DRIVING LIP OF KERB																
DESIGN RIGHT PARKING LIP OF KERB																
DESIGN RIGHT FRONT PATH																
ES RIGHT TITLE BOUNDARY	112.85	112.95	112.99	113.12	112.68	112.394	112.464	112.594	112.711	113.04	113.31	113.34	113.34	113.41	113.41	113.41
ES CENTRE LINE ROAD	112.81	112.95	112.99	113.12	112.68	112.394	112.464	112.594	112.711	113.04	113.31	113.34	113.34	113.41	113.41	113.41
CHAINAGE CENTRE LINE ROAD	280.00	284.14	290.00	294.64	297.62	300.00	304.52	307.36	310.00	316.64	319.34	320.00	323.44	329.34	335.34	340.00

AURICH STREET LONGITUDINAL SECTION

SCALE Hor. 1:500
Vert. 1:50

AMENDMENTS	MELWAY REF.	742-J-7	breese pitt dixon pty. ltd. land surveyors civil engineers 1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
	SURVEY	B.P.D.	
	DESIGN	RK	
	DRAWN	RK	
VER.	DATE	REMARKS	OPALIA ESTATE STAGE 5 AURICH STREET LONG AND CROSS SECTIONS REFERENCE 6751 E/05 MUNICIPALITY MELTON SHEET 17 OF 23 DATE APR. 20 SCALE AS SHOWN DATUM AHD DATE APR. 20



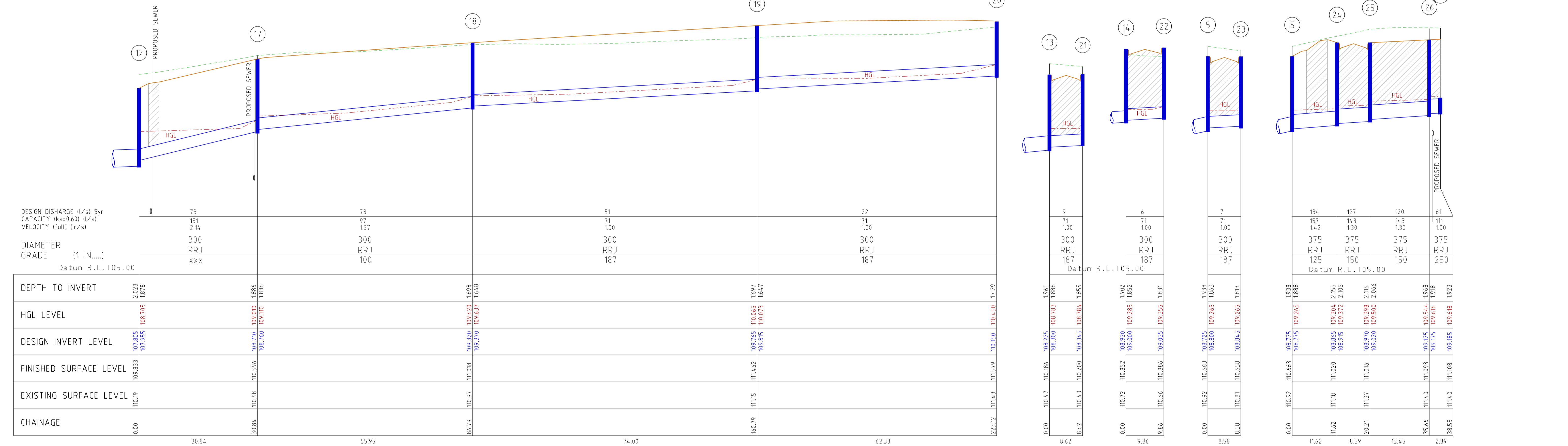
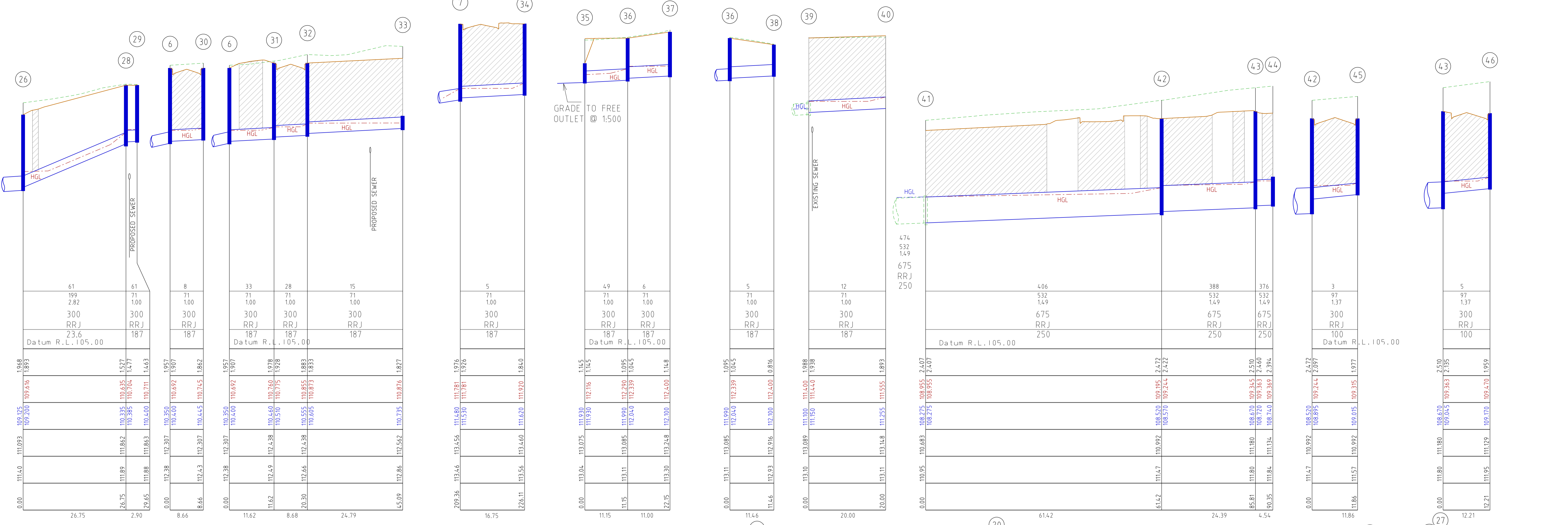
STORMWATER DRAINAGE LONGITUDINAL SECTIONS

SCALE Hor. 1:500
Vert 1:50

RRJ - RUBBER RING JOINTED

/// DENOTES CRUSHED ROCK BACKFILL

		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 calc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK		OPALIA ESTATE STAGE 5 DRAINAGE LONG SECTIONS AND PIT SCHEDULE		MUNICIPALITY MELTON	
VER. DATE 18-11-2020 CONSTRUCTION ISSUE				REFERENCE 6751 E/05	
CHECKED		SCALE AS SHOWN DATUM AHD		DATE APR. 20 SHEET 18 OF 23	



DESIGN DISCHARGE (l/s) 5yr
CAPACITY (l/s) (l/s)
VELOCITY (full) (m/s)

DIAMETER
GRADE (1 IN.....)
Datum R.L. 105.00

STORMWATER DRAINAGE LONGITUDINAL SECTIONS

SCALE Hor. 1:500
Vert 1:50

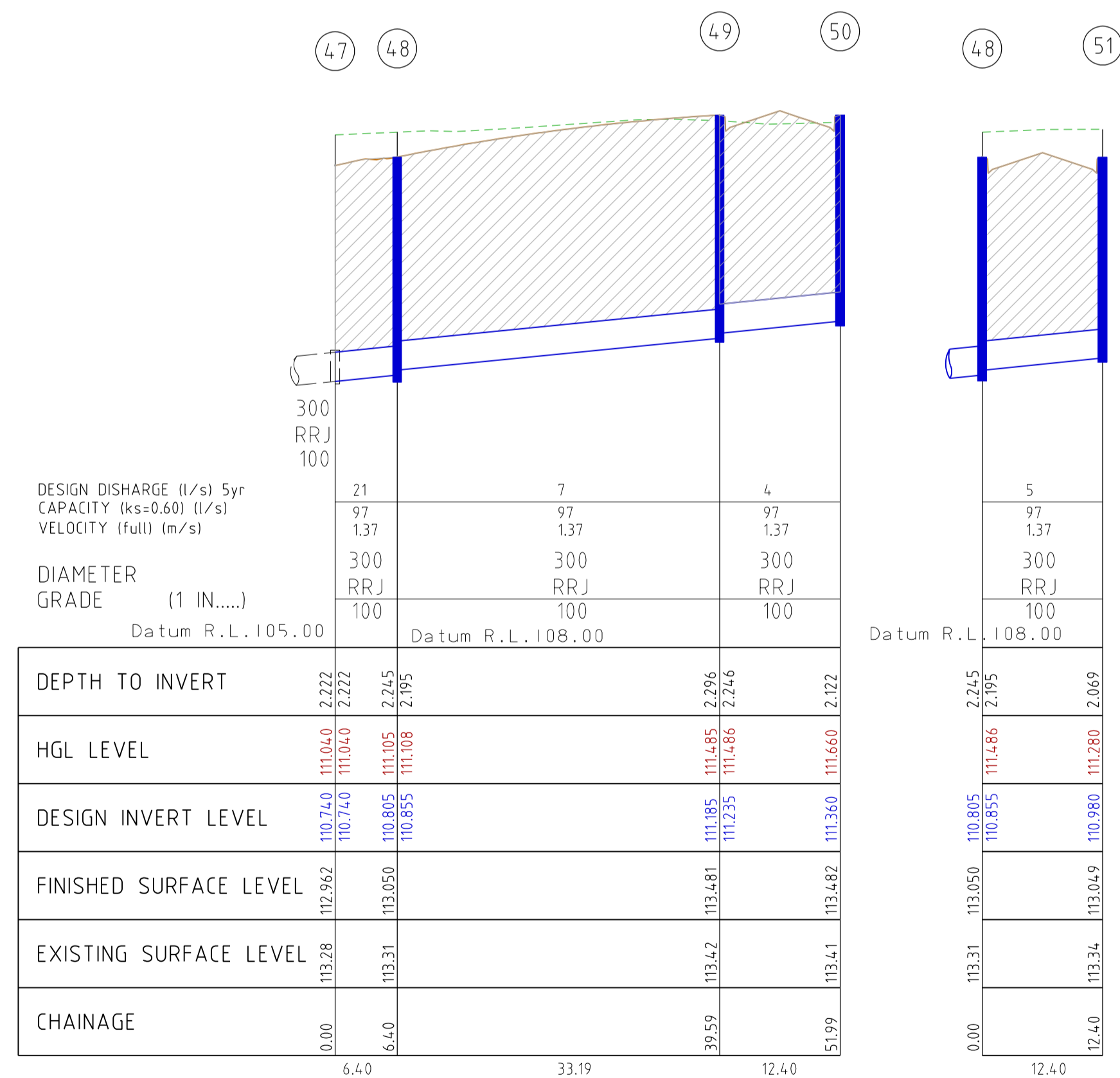
RRJ - RUBBER RING JOINTED

/// DENOTES CRUSHED ROCK BACKFILL

<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>		<p>1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310</p>	
<p>MELWAY REF. 742-J-7</p> <p>SURVEY B.P.D.</p> <p>DESIGN RK</p> <p>DRAWN RK</p>		<p>OPALIA ESTATE STAGE 5</p> <p>DRAINAGE LONGITUDINAL SECTIONS</p>	
<p>A 18-11-2020 CONSTRUCTION ISSUE</p>		<p>MUNICIPALITY MELTON</p>	
<p>VER DATE REMARKS</p>		<p>REFERENCE 6751 E/05</p>	
<p>CHECKED</p>		<p>SCALE AS SHOWN DATUM AHD DATE APR. 20 SHEET 19 OF 23</p>	

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	Ex END PIPE	-x-	675	107.210	Ex 675	107.210	109.373	2.160	REMOVE TEMPORARY SEAL AND CONNECT
2	G.S.E.P.	S 900x600 H 1000x1000	675	107.295	675	107.245	109.450	2.205	EDCM 2019 601/605 HAUNCH PIT EDCM 2019 607
3	G.S.E.P.	S 900x600 H 1000x1000	675	107.390	675	107.340	109.606	2.266	EDCM 2019 601/605 HAUNCH PIT EDCM 2019 607
4	G.S.E.P.	S 900x600 H 1000x1000	375	107.725	675	107.425	109.606	2.181	EDCM 2019 601/605 HAUNCH PIT EDCM 2019 607
5	G.S.E.P.	900x600	300	108.800	375	108.725	110.663	1.938	EDCM 2019 601/605
6	G.S.E.P.	900x600	300	110.400	300	110.350	112.307	1.957	EDCM 2019 601/605
7	JP	900x600	300	111.530	300	111.480	113.456	1.976	EDCM 2019 605
8	JP	900x600	300	111.650	300	111.600	113.409	1.809	EDCM 2019 605
9	G.S.E.P.	900x600	300	111.815	300	111.765	113.330	1.565	EDCM 2019 601/605
10	G.S.E.P.	900x600	-	-	300	111.860	113.322	1.462	EDCM 2019 601/605
11	G.S.E.P.	900x600	450	107.745	450	107.695	109.688	1.993	EDCM 2019 601/605
12	JP	900x600	375	107.880	450	107.805	109.833	2.028	EDCM 2019 605
13	G.S.E.P.	900x600	300	108.300	375	108.225	110.186	1.961	EDCM 2019 601/605
14	G.S.E.P.	900x600	300	109.000	300	108.950	110.852	1.902	EDCM 2019 601/605
15	JP	900x600	-	-	300	109.400	111.234	1.834	EDCM 2019 605
16	G.S.E.P.	900x600	-	-	300	107.890	109.688	1.798	EDCM 2019 601/605
17	JP	900x600	300	108.760	300	108.710	110.596	1.886	EDCM 2019 605
18	JP	900x600	300	109.370	300	109.320	111.018	1.698	EDCM 2019 605
19	JP	900x600	300	109.815	300	109.765	111.462	1.697	EDCM 2019 605
20	JP	900x600	-	-	300	110.150	111.579	1.429	EDCM 2019 605
21	G.S.E.P.	900x600	-	-	300	108.345	110.200	1.855	EDCM 2019 601/605
22	G.S.E.P.	900x600	-	-	300	109.055	110.886	1.831	EDCM 2019 601/605
23	G.S.E.P.	900x600	-	-	300	108.845	110.658	1.813	EDCM 2019 601/605
24	G.S.E.P.	900x600	375	108.915	375	108.865	111.020	2.155	EDCM 2019 601/605
25	G.S.E.P.	900x600	375	109.020	375	108.970	111.016	2.116	EDCM 2019 601/605
26	JP	900x600	375	109.175	300	109.125	111.093	1.968	EDCM 2019 605
27	END PIPE	-x-	-	-	375	109.185	111.108	1.923	SEAL END OF PIPE FOR FUTURE CONNECTION
28	JP	900x600	300	110.385	300	110.335	111.862	1.527	EDCM 2019 605
29	END PIPE	-x-	-	-	300	110.400	111.863	1.463	SEAL END OF PIPE FOR FUTURE CONNECTION
30	G.S.E.P.	900x600	-	-	300	110.445	112.307	1.862	EDCM 2019 601/605
31	G.S.E.P.	900x600	300	110.510	300	110.460	112.438	1.978	EDCM 2019 601/605
32	G.S.E.P.	900x600	300	110.605	300	110.555	112.438	1.883	EDCM 2019 601/605
33	END PIPE	-x-	-	-	300	110.735	112.562	1.827	SEAL END OF PIPE FOR FUTURE CONNECTION
34	G.J.P.	900x600	-	-	300	111.620	113.460	1.840	EDCM 2019 605, FIT CLASS 'D' GATIC GRATE OR SIMILAR
35	ENDWALL	-x-	300	111.135	-	111.135	111.635	0.500	PROVIDE TEMPORARY SANDBAG ENDWALL
36	JP	900x600	300	111.245	300	111.195	113.085	1.890	EDCM 2019 605
37	JP	900x600	-	-	300	111.305	112.916	1.611	EDCM 2019 605
38	JP	900x600	-	-	300	111.305	112.916	1.611	EDCM 2019 605
39	G.J.P.	900x600	300	111.150	300	111.100	113.089	1.988	EDCM 2019 605, FIT CLASS 'D' GATIC GRATE OR SIMILAR CONSTRUCT PIT OVER EXISTING 300 DIA DRAIN
40	G.J.P.	900x600	-	-	300	111.255	113.148	1.893	EDCM 2019 605, FIT CLASS 'D' GATIC GRATE OR SIMILAR
39	Ex END PIPE	-x-	675	108.275	Ex 675	108.275	110.683	2.407	REMOVE TEMPORARY SEAL AND CONNECT
42	G.S.E.P.	S 900x600 H 900x1000	675	108.570	675	108.570	110.992	2.472	EDCM 2019 601/605 HAUNCH PIT EDCM 2019 607
43	G.S.E.P.	900x600	675	108.720	675	108.670	111.180	2.510	EDCM 2019 601/605 CONSTRUCT GRATE SEPERATE FROM JP
44	END PIPE	-x-	-	-	675	108.740	111.134	2.394	SEAL END OF PIPE FOR FUTURE CONNECTION
45	G.S.E.P.	900x600	-	-	300	109.015	110.992	1.977	EDCM 2019 601/605
46	FUT.G.S.E.P.	900x600	-	-	300	109.170	111.129	1.959	EDCM 2019 601/605
47	Ex END PIPE	-x-	300	110.740	Ex 300	110.740	112.962	2.222	REMOVE TEMPORARY SEAL AND CONNECT
48	G.S.E.P.	900x600	300	110.855	300	110.805	113.050	2.245	EDCM 2019 601/605
49	G.S.E.P.	900x600	300	111.235	300	111.185	113.481	2.296	EDCM 2019 601/605
50	G.S.E.P.	900x600	-	-	300	111.360	113.482	2.122	EDCM 2019 601/605
51	G.S.E.P.	900x600	-	-	300	110.980	113.049	2.069	EDCM 2019 601/605



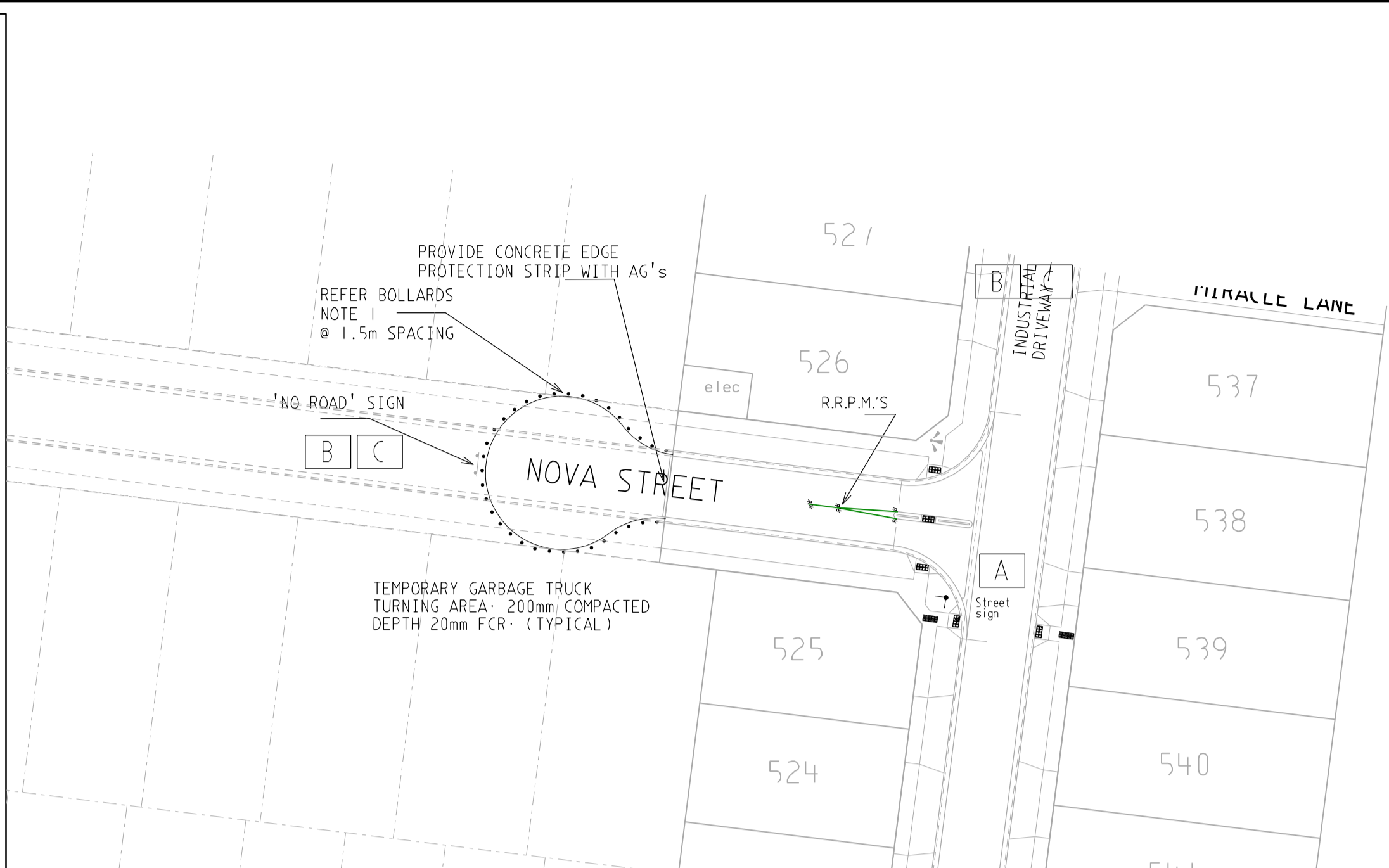
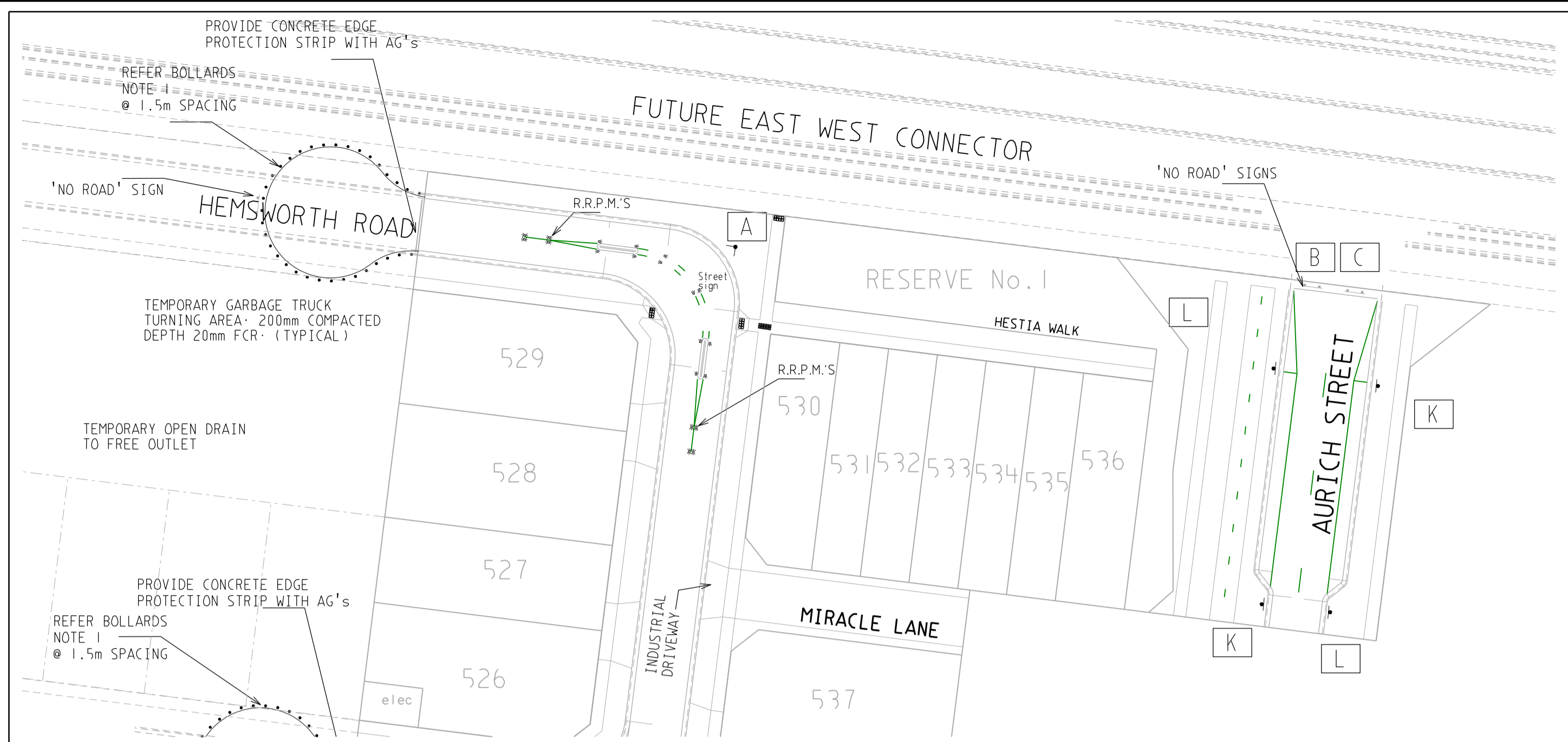
STORMWATER DRAINAGE LONGITUDINAL SECTIONS

SCALE Hor: 1:500
Vert: 1:50

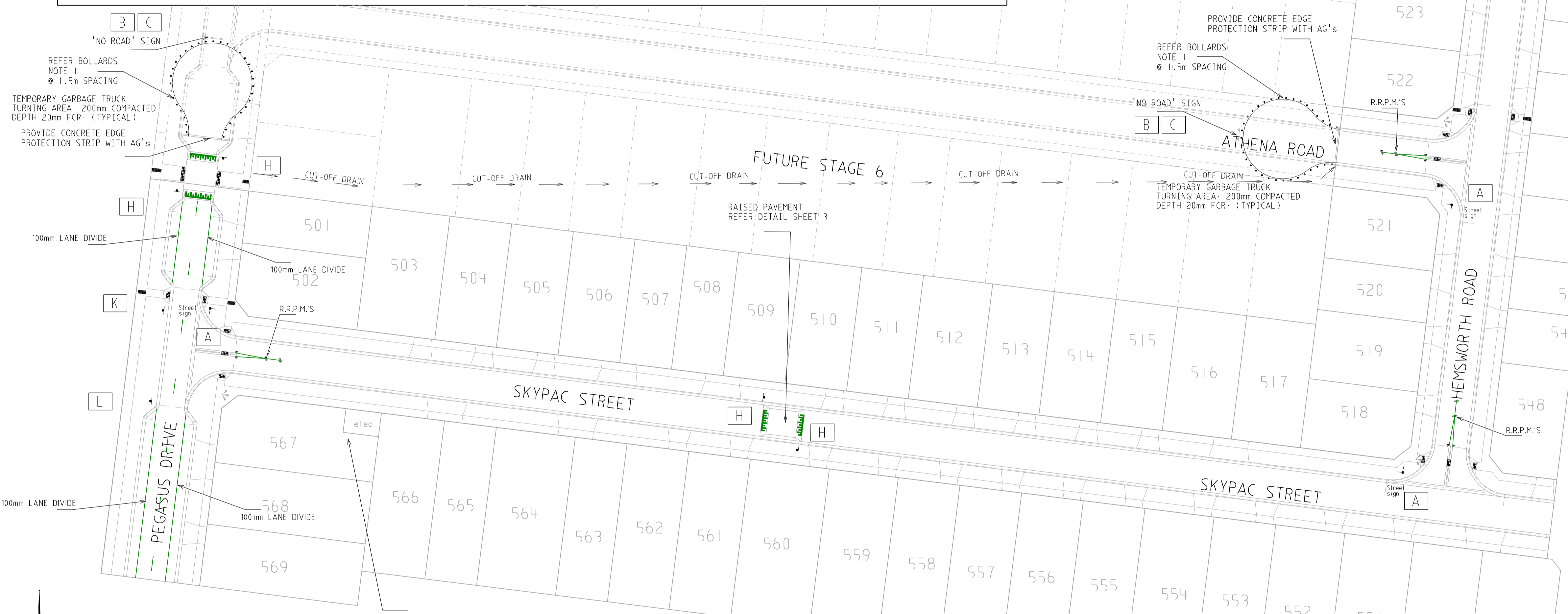
RRJ - RUBBER RING JOINTED

▨ DENOTES CRUSHED ROCK BACKFILL

<p>breese pitt dixon pty. ltd. land surveyors civil engineers</p>		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		<p>MELWAY REF. 342-J-7</p> <p>SURVEY B.P.D.</p> <p>DESIGN RK</p> <p>DRAWN RK</p> <p>CHECKED</p>	
<p>AMENDMENTS</p> <p>B 16-12-2020 DRAIN LINE PIT NUMBERS AMENDED</p> <p>A 18-11-2020 CONSTRUCTION ISSUE</p>		<p>OPALIA ESTATE STAGE 5</p> <p>DRAINAGE LONGITUDINAL SECTIONS</p>	
<p>VER. DATE</p>		<p>MUNICIPALITY MELTON</p> <p>REFERENCE 6751 E/05</p>	
<p>SCALE AS SHOWN</p>		<p>DATUM AHD</p> <p>DATE APR. 20</p> <p>SHEET 20 OF 23</p>	



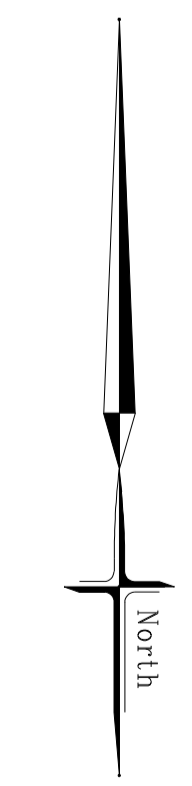
NORTH HALF OF STAGE 1
MIRACLE LANE TO BE
SAW CUT AND RECONSTRUCTED
TO ALLOW FOR HOUSE DRAIN
CONNECTION



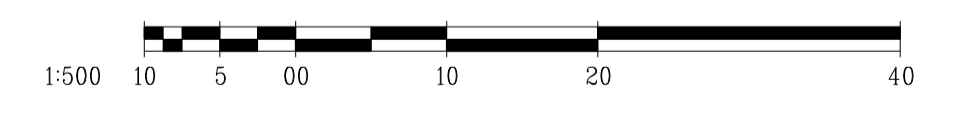
SIGN SCHEDULE

SIGN	DESCRIPTION
A	STREET NAME SIGN (BOTH FACES)
B	'ROAD CLOSED' (G9-20)
C	OBSTRUCTION MARKER (D4-5)
G	GIVE WAY PEDESTRIANS (R3-1)
H	SPEED HUMP (W5-10) 20km/h (W8-2)
K	NO STANDING LEFT (R5-35L)
L	NO STANDING RIGHT (R5-35R)

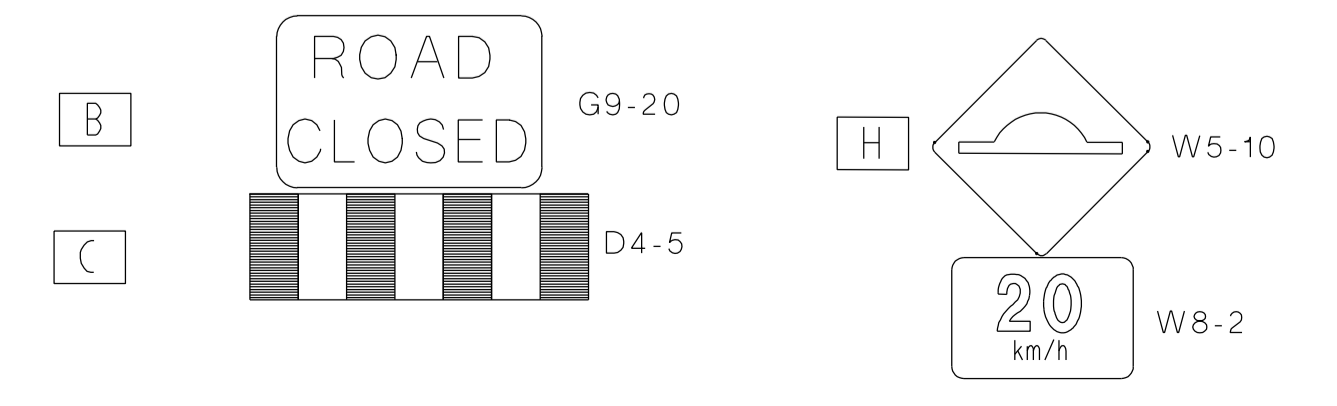
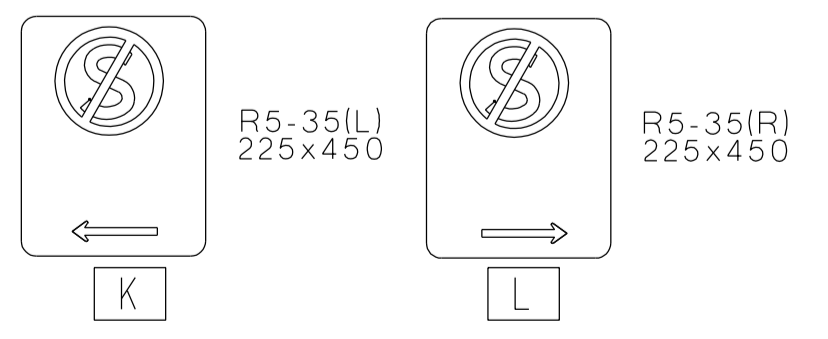
- NOTES**
- ALL SIGNS AND TRAFFIC CONTROL MEASURES, SHALL BE IN ACCORDANCE WITH AS1742.2. 1, 2 & 3
 - LINE MARKING TO AS1742.2. SHALL BE SETOUT, INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
 - ANY OBSOLETE LINEMARKING SHALL BE REMOVED BY AN APPROVED GRINDING OR STRIPPING METHOD. PRIOR 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 SITWORKS SHALL COMMENCE UNTIL ALL TEMPORARY SIGNS ETC. ARE IN APPROVED LOCATIONS



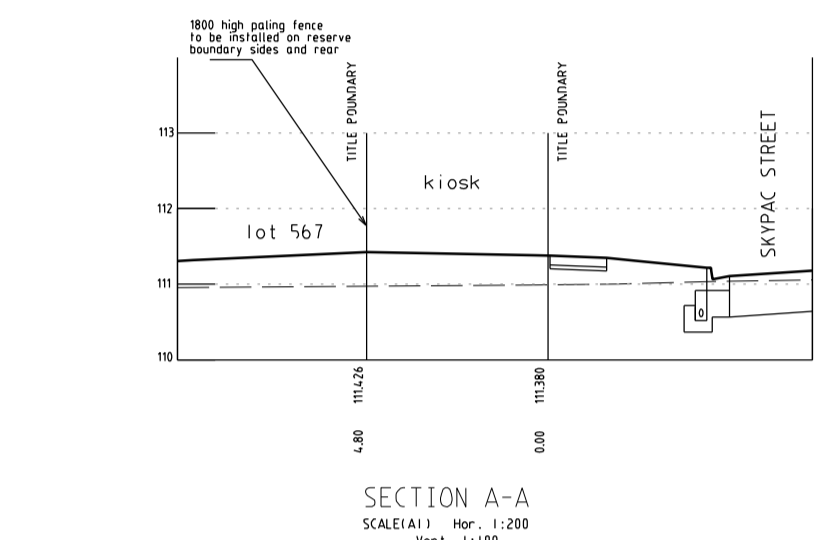
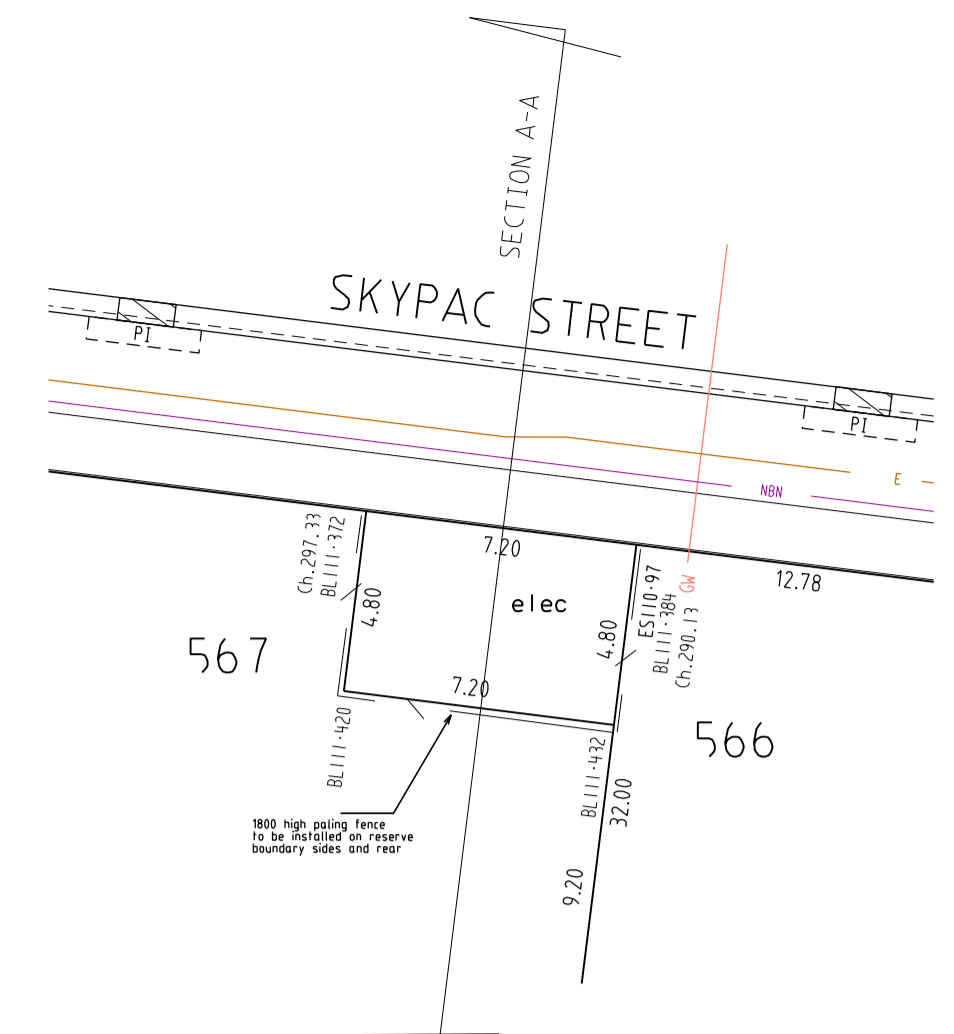
REFER SHEET 22 FOR ELECTRICAL KIOSK DETAILS
SIGNAGE AND LINE MARKING PLAN



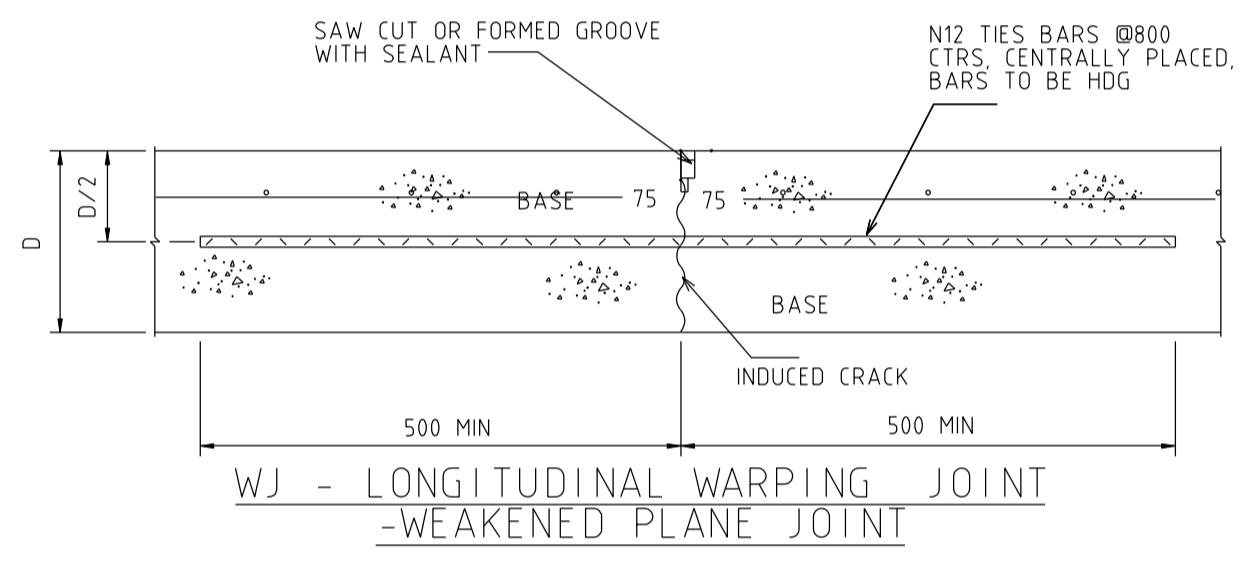
BOTH FACES	BOTH FACES
STREET NAME	STREET NAME
A	A



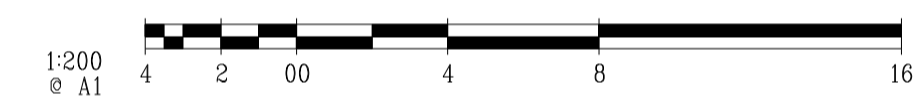
		MELWAY REF. 342-J-7 SURVEY B.P.D. DESIGN RK DRAWN RK		MUNICIPALITY MELTON	
		OPALIA ESTATE STAGE 5 SIGNAGE AND LINE MARKING PLAN		REFERENCE 6751 E/05	
AMENDMENTS A 18-11-2020 CONSTRUCTION ISSUE	VER DATE REMARKS	CHECKED	SCALE AS SHOWN DATUM AHD DATE APR. 20	SHEET 21 OF 23	1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310



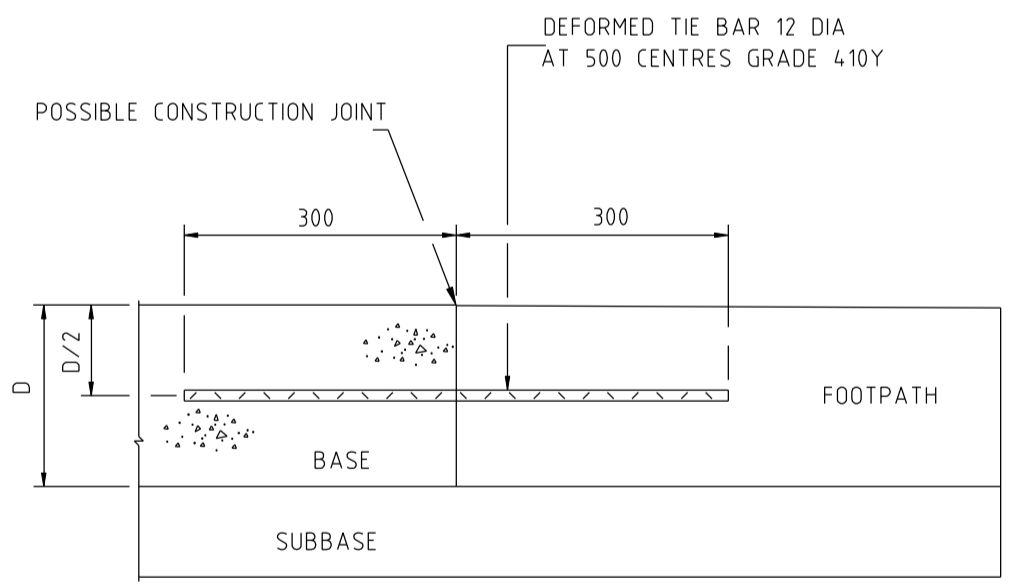
SUBSTATION SITE DETAIL SKYPAC STREET



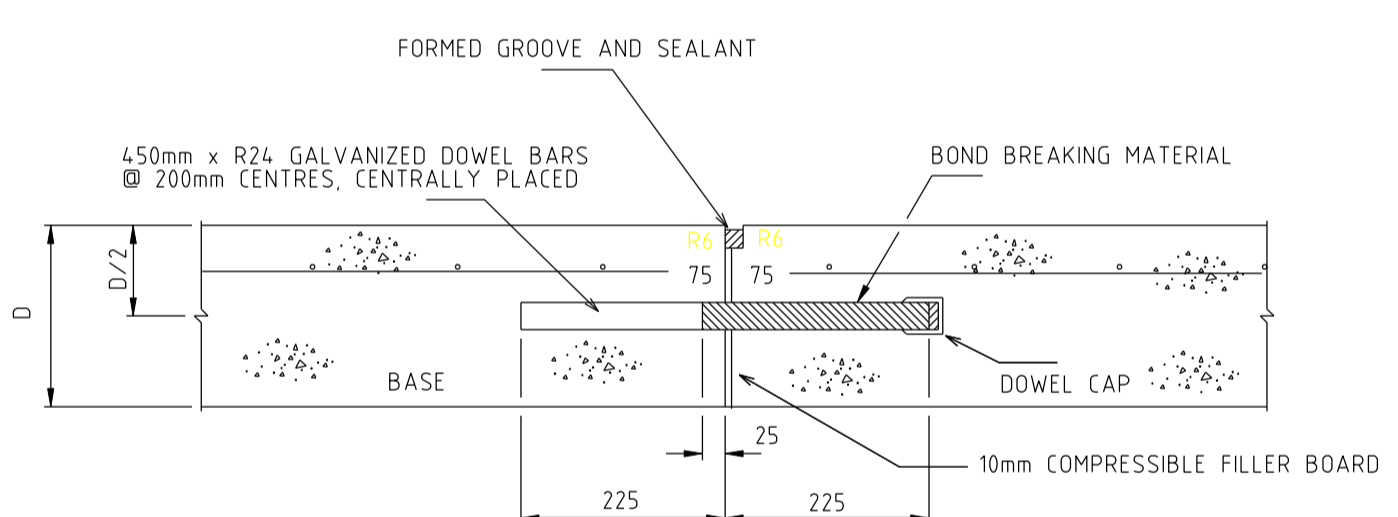
PAVEMENT JOINT DETAILS



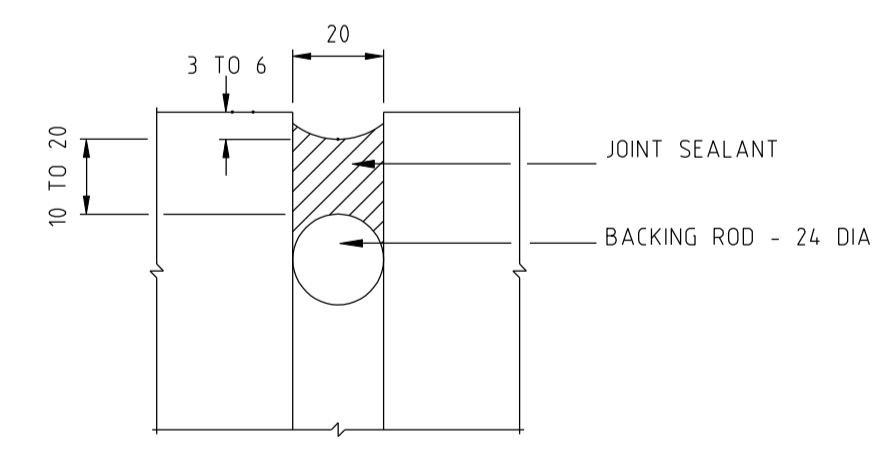
CONCRETE POURING - CONCRETE POURS CAN BE STOPPED / STARTED AT EJ'S OR CJ'S AS REQUIRED BY THE CONTRACTOR



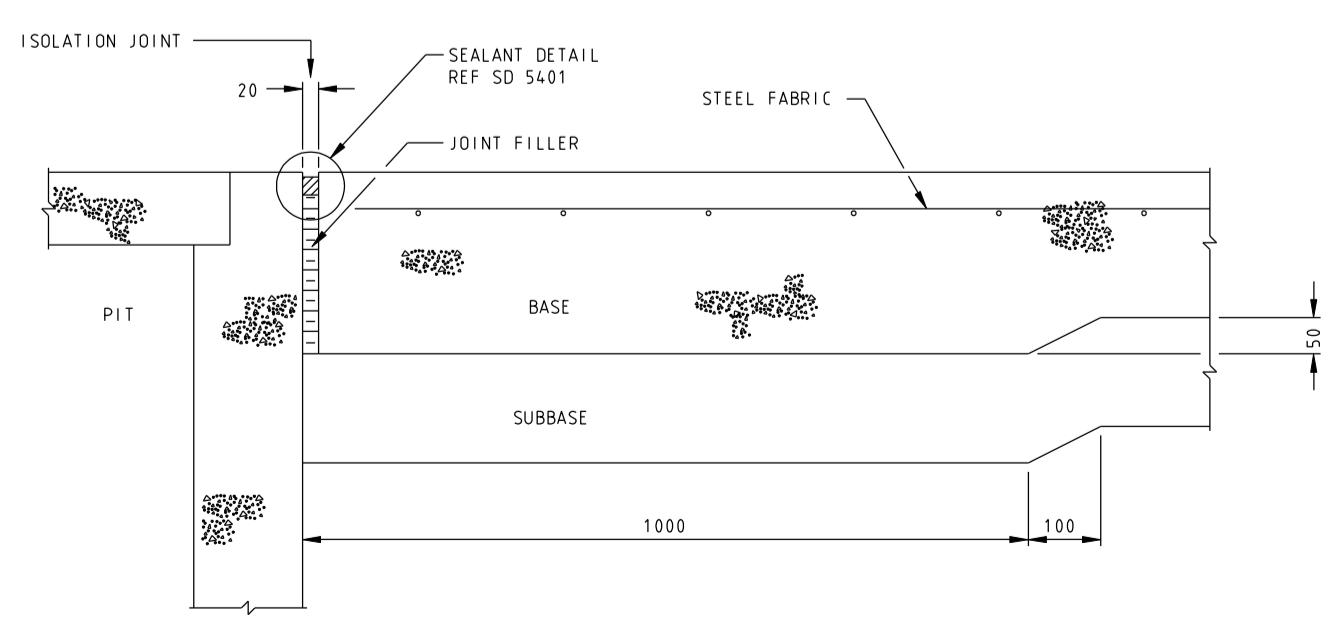
TJ - FOOTPATH TIED JOINT



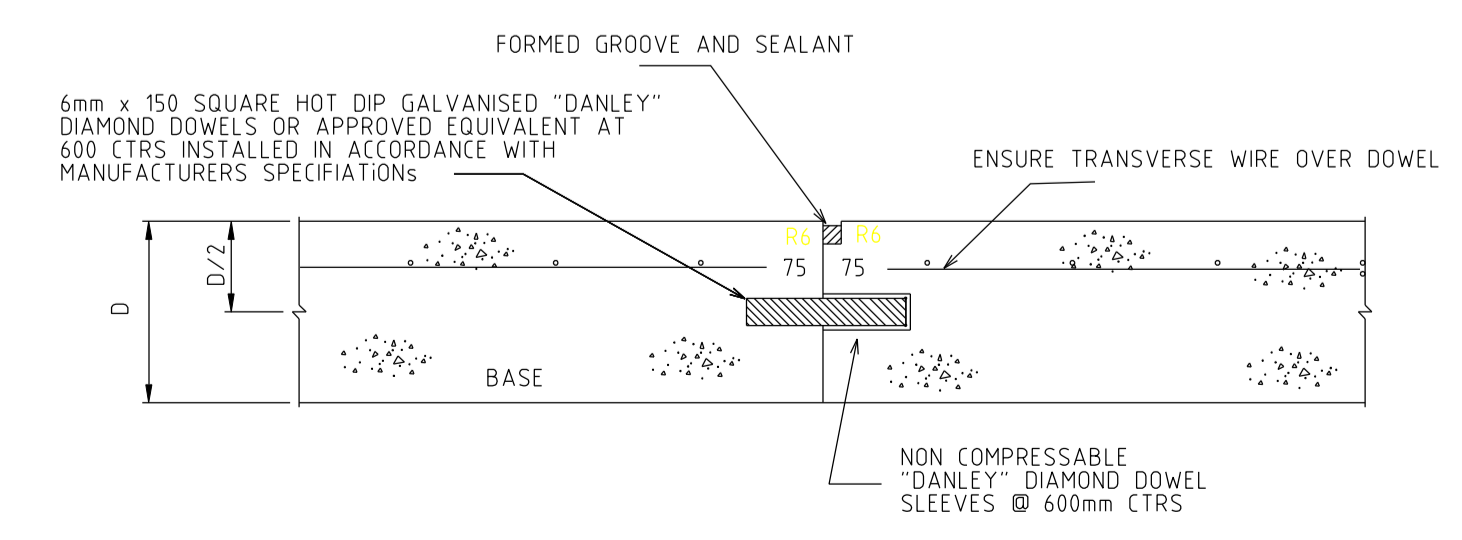
EJ - TRANSVERSE EXPANSION JOINT - DOWELLED BUTT JOINT AT CONSTRUCTION JOINT



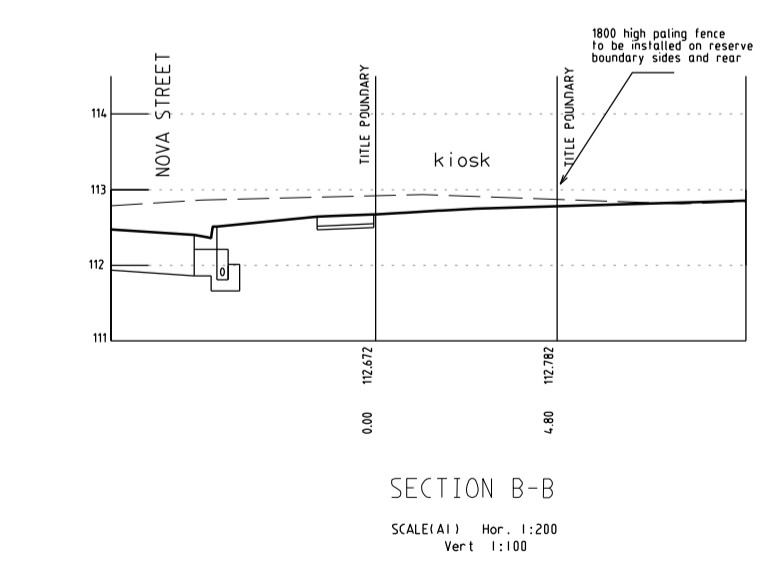
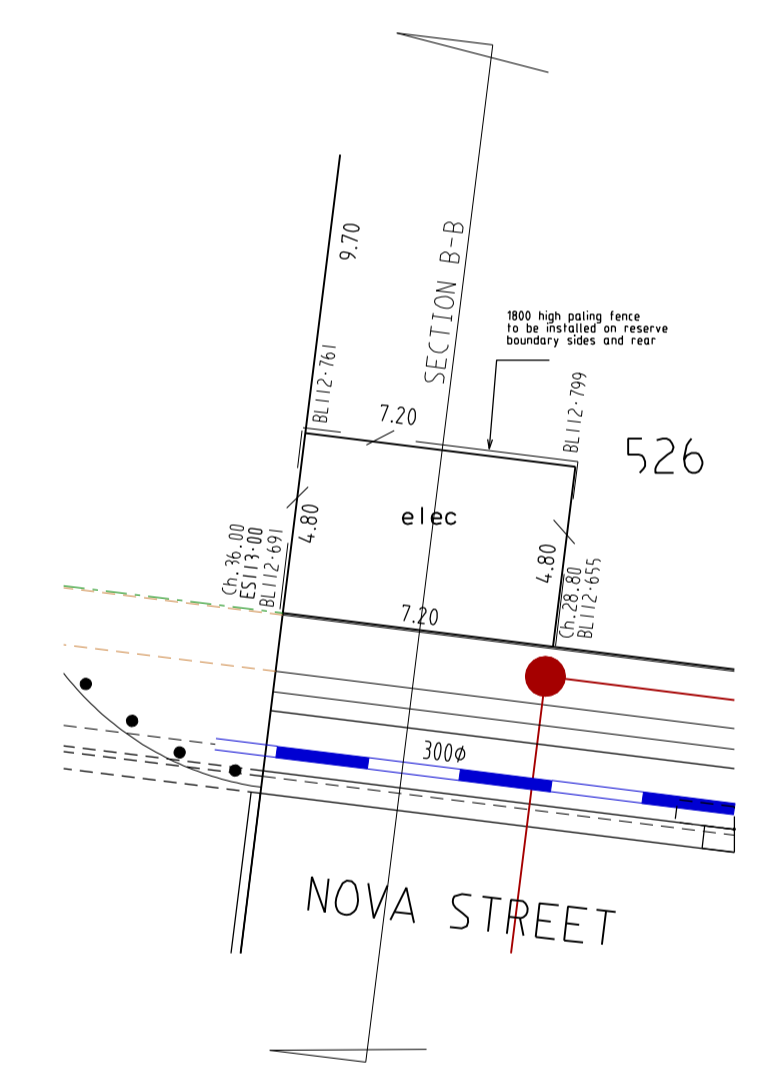
SEALANT DETAIL - EXPANSION JOINT



JOINT AROUND PIT STRUCTURES

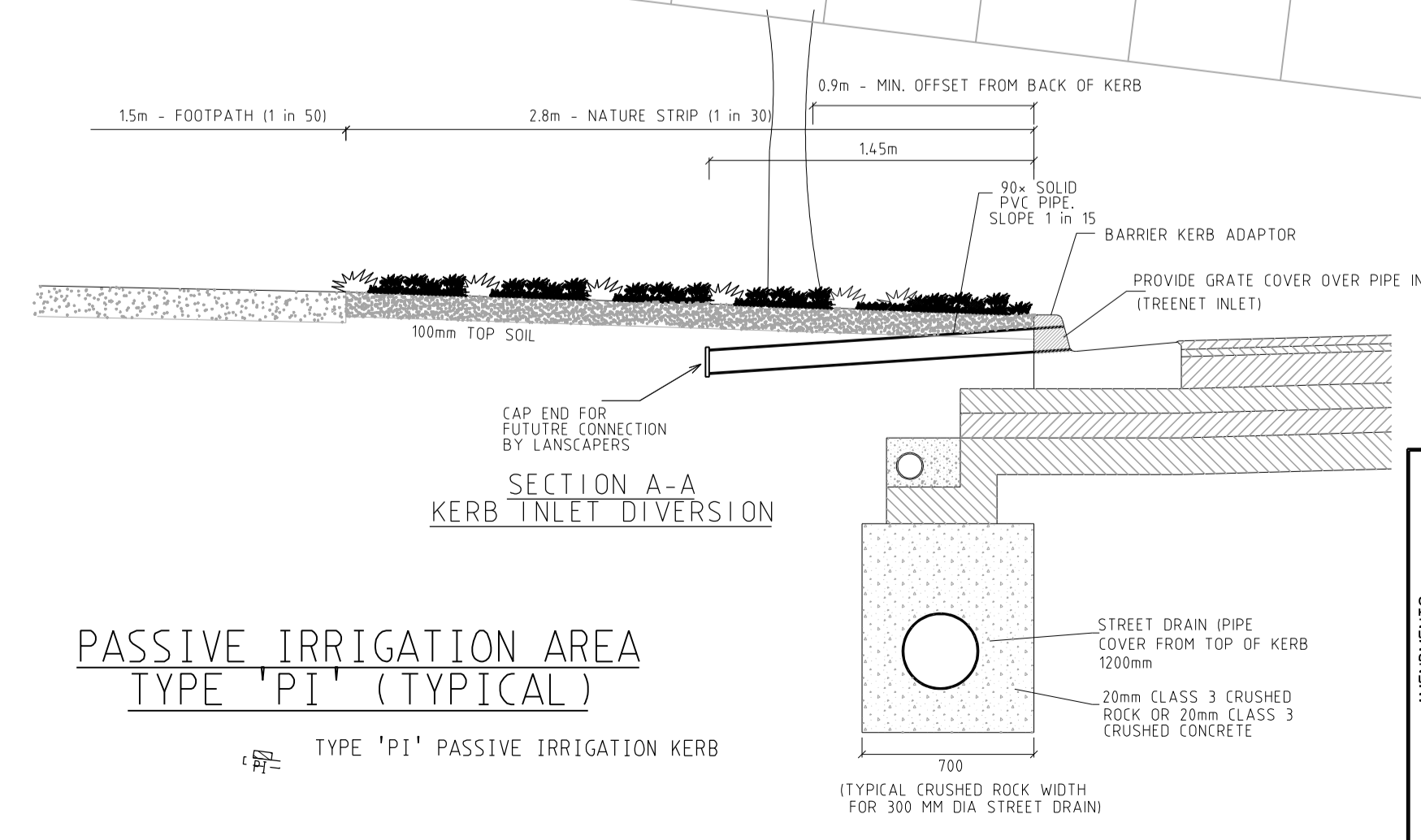
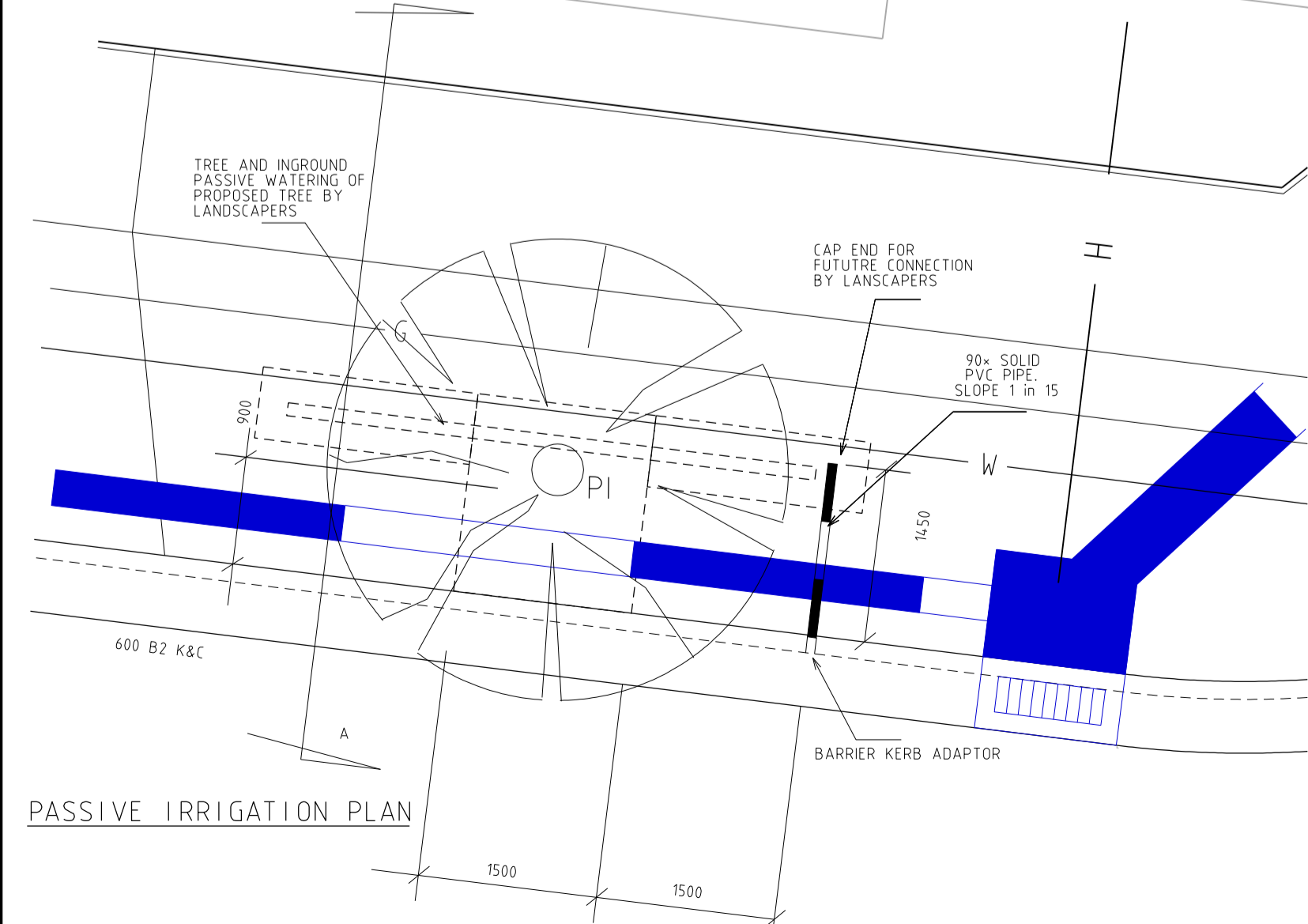
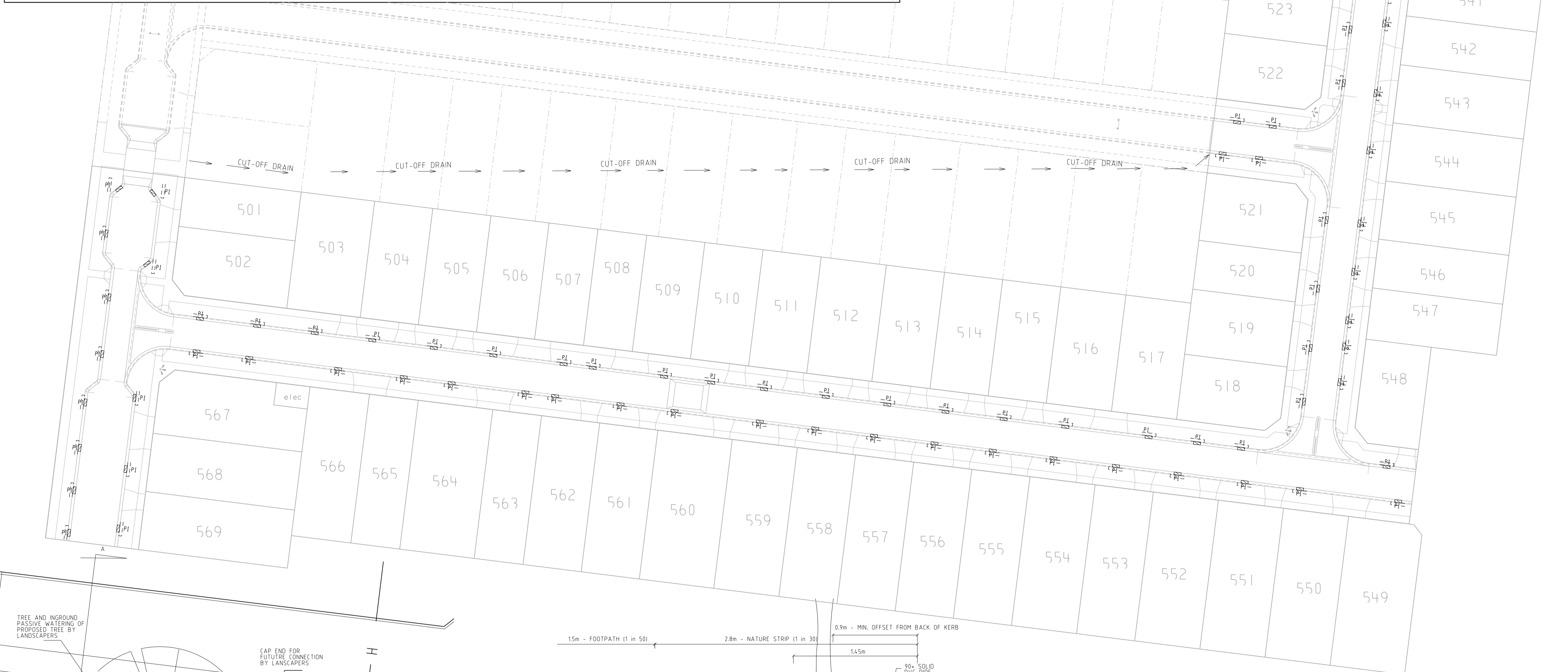
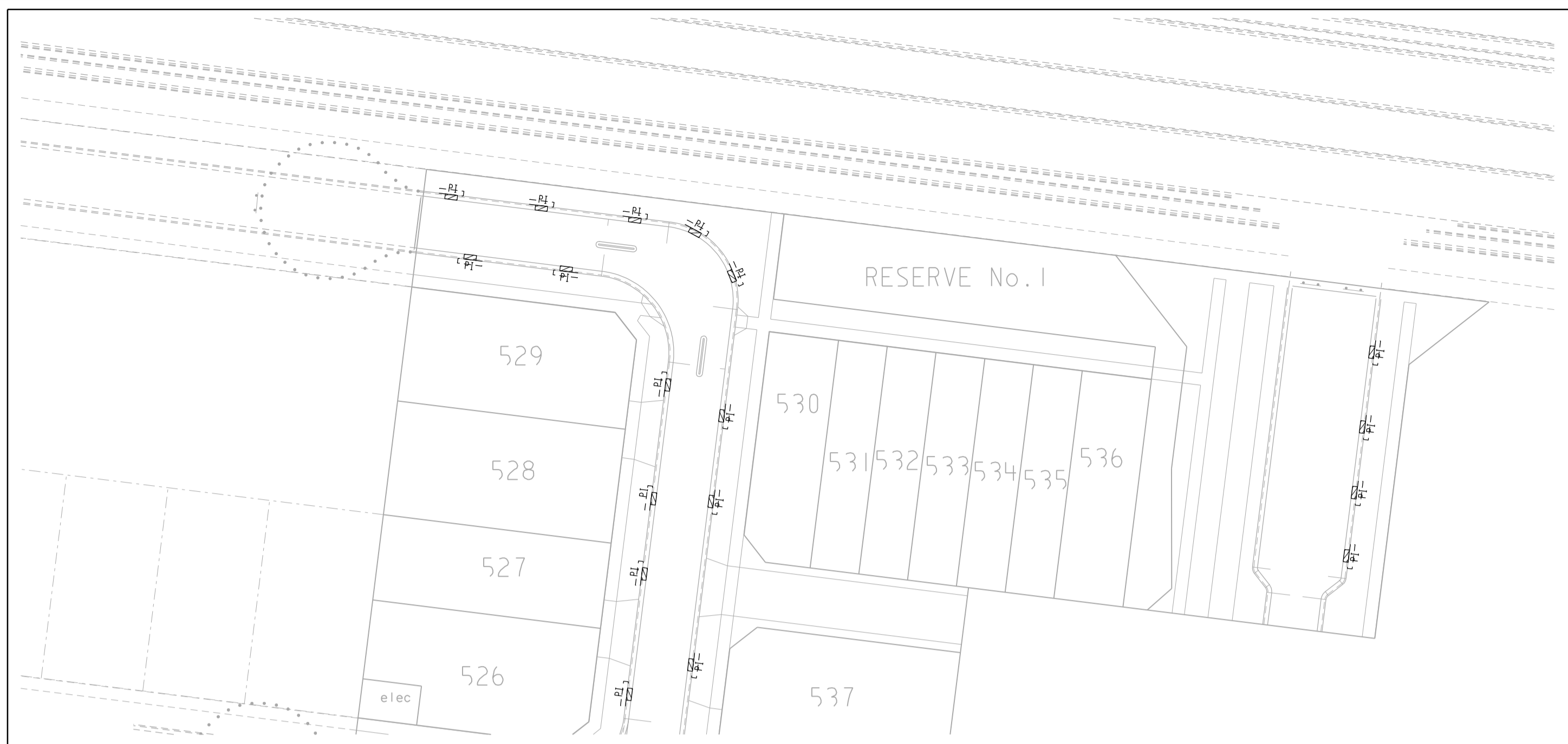


CJ - TRANSVERSE CONTRACTION JOINT - DOWELLED BUTT JOINT AT CONSTRUCTION JOINT



SUBSTATION SITE DETAIL NOVA STREET

AMENDMENTS		MELWAY REF. 342-J-7		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 catc street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		SURVEY B.P.D.		OPALIA ESTATE STAGE 5		MUNICIPALITY MELTON	
		DESIGN RK				REFERENCE 6751 E/05	
A 18-11-2020 CONSTRUCTION ISSUE		DRAWN RK		CONCRETE JOINTING PLAN		SHEET 22 OF 23	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE APR. 20	4



AMENDMENTS	DATE	REMARKS
C	26-2-2021	PASSIVE IRRIGATION LOCATIONS AMENDED
B	26-11-2020	PASSIVE IRRIGATION ADDED FRONT LOT 562
A	18-11-2020	CONSTRUCTION ISSUE

		1/19 catc street hawthorn east, 3123 telephone RR23 2300 fax no. RR23 2310	
MELWAY REF. 342-J-7 SURVEY B.P.D.		MUNICIPALITY MELTON	
DESIGN RK DRAWN RK		REFERENCE 6751 E/05	
CHECKED		SCALE AS SHOWN DATUM AHD DATE APR. 20 SHEET 23 OF 23	

FOR REVISIONS