

Appendix [A]

Detailed Design Drawings

KYOGLE COUNCIL
HW16 - BRUXNER HIGHWAY
 MALLANGANEE RANGE TO WILLOCK STREET
 SEGMENT 5390 TO 5400
 37.52km TO 39.66km WEST OF CASINO
 PAVEMENT REHABILITATION
ROAD DESIGN
 DETAILED DESIGN

LOCALITY PLAN




PART INDEX

PART	CODE	NAME
1	GE	GENERAL (4 SHEETS)
	RD	ROAD ALIGNMENT AND DETAIL (29 SHEETS)
	RC	ROAD CROSS SECTIONS (33 SHEETS)
	PV	PAVEMENT (10 SHEETS)
	RF	ROADSIDE FURNITURE, SIGNPOSTING AND PAVEMENT MARKING (10 SHEETS)

NOT FOR CONSTRUCTION

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-000063-01-GE.dgn		PLOT DATE / TIME 4/07/2022 6:27:30 AM		PLOT BY tightd		CLIENT  Transport for NSW		KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE TO WILLOCK STREET 37.52km TO 39.66km FROM CASINO		A3
PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		DESIGNED SIGNED NAME .. DYLAN TIGHT TITLE .. ROAD DESIGNER DATE	REVIEWED SIGNED NAME .. DAVID JOHNSON TITLE .. DESIGN MANAGER NORTHERN DATE	VERIFIED SIGNED NAME .. DAVID JOHNSON TITLE .. DESIGN MANAGER NORTHERN DATE	TNSW PROJECT MANAGER NAME .. ROSS GERSEKOWSKI TITLE .. PROJECT MANAGER THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE BRIEF AND PROJECT MANAGER / CLIENT INSTRUCTIONS.		PREPARED FOR REGIONAL & OUTER METROPOLITAN PROJECT MANAGEMENT NORTHERN		TNSW PROJECT No. P.0067958.04.001.008.001	DESIGN PROJECT No. SF2019/160050
						TNSW REGISTRATION No. DS2020/000063		ISSUE STATUS DETAILED DESIGN	EDMS No. QA43317665	SHEET No. GE-0001
										PART 1 ISSUE A


HW16 BRUXNER HIGHWAY - MALLANGANEE RANGE AND WILLOCK STREET S5390-5400 - INDEX

SHEET NUMBER	SHEET DESCRIPTION
GE	GENERAL (4 SHEETS)
GE-0001	COVER SHEET
GE-0002	INDEX
GE-0003	KEY PLAN
GE-0004	GENERAL NOTES
RD	ROAD ALIGNMENT AND DETAIL (29 SHEETS)
RD-0001	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 37519 TO 37750
RD-0002	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 37750 TO 38000
RD-0003	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38000 TO 38250
RD-0004	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38250 TO 38500
RD-0005	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38500 TO 38750
RD-0006	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38750 TO 39000
RD-0007	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 39000 TO 39250
RD-0008	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 39250 TO 39500
RD-0009	ROAD ALIGNMENT PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 39500 TO 39665
RD-0010	SURVEY AND ALLIGNMENT SHEDULE
RD-0011	TYPICAL CROSS-SECTIONS
RD-0012	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 37519 TO 37750
RD-0013	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 37750 TO 38000
RD-0014	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38000 TO 38250
RD-0015	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38250 TO 38500
RD-0016	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38500 TO 38750
RD-0017	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 38750 TO 39000
RD-0018	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 39000 TO 39250
RD-0019	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 39250 TO 39500
RD-0020	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - 39500 TO 39665
RD-0021	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 37519TO 37750
RD-0022	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 37750 TO 38000
RD-0023	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 38000 TO 38250
RD-0024	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 38250 TO 38500
RD-0025	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 38500 TO 38750
RD-0026	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 38750 TO 39000
RD-0027	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 39000 TO 39250
RD-0028	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 39250 TO 39500
RD-0029	LONGITUDINAL SECTION - HW16 - BRUXNER HIGHWAY - MC00 - 39500TO 39665
RC	ROAD CROSS SECTIONS (33 SHEETS)
RC-0001	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 37 519 TO 37 575
RC-0002	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 37 600 TO 37 675
RC-0003	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 37 700 TO 37 775
RC-0004	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 37 800 TO 37 875
RC-0005	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 37 900 TO 37 975
RC-0006	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 000 TO 38 025
RC-0007	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 050 TO 38 075
RC-0008	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 100 TO 38 125
RC-0009	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 150 TO 38 200
RC-0010	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 225 TO 38 250

SHEET NUMBER	SHEET DESCRIPTION
RC-0011	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 275 TO 38 300
RC-0012	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 325 TO 38 350
RC-0013	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 375 TO 38 400
RC-0014	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 425 TO 38 500
RC-0015	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 525
RC-0016	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 550 TO 38 575
RC-0017	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 600 TO 38 625
RC-0018	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 650 TO 38 675
RC-0019	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 700
RC-0020	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 725
RC-0021	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 750 TO 38 775
RC-0022	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 800 TO 38 825
RC-0023	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 850 TO 38 875
RC-0024	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 900 TO 38 925
RC-0025	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38 950 TO 38 975
RC-0026	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 000 TO 39 075
RC-0027	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 100 TO 39 175
RC-0028	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 200 TO 39 275
RC-0029	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 300 TO 39 375
RC-0030	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 400 TO 39 475
RC-0031	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 500 TO 39 550
RC-0032	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 575 TO 39 650
RC-0033	CROSS SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39 665
PV	PAVEMENT (10 SHEETS)
PV-0001	PAVEMENT PROFILES
PV-0002	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 37520 TO 37750
PV-0003	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 37750 TO 38000
PV-0004	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 38000 TO 38250
PV-0005	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 38250 TO 38500
PV-0006	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 38500 TO 38750
PV-0007	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 38750 TO 39000
PV-0008	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 39000 TO 39250
PV-0009	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 39250 TO 39500
PV-0010	PAVEMENT PLAN - HW16 BRUXNER HIGHWAY - MC00 - 39500 TO 39665
RF	ROADSIDE FURNITURE, SIGNPOSTING AND PAVEMENT MARKING (10 SHEETS)
RF-0001	ROAD FURNITURE AND LINEMARKING SCHEDULES
RF-0002	ROADSIDE FURNITURE PLAN - HW16 BRUXNER HIGHWAY - MC00 - 37519 TO 37750
RF-0003	ROADSIDE FURNITURE PLAN - HW16 BRUXNER HIGHWAY - MC00 - 37750 TO 38000
RF-0004	ROADSIDE FURNITURE PLAN - HW16 BRUXNER HIGHWAY - MC00 - 38000 TO 38250
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RF-0009	ROADSIDE FURNITURE PLAN - HW16 BRUXNER HIGHWAY - MC00 - 39250 TO 39500
RF-0010	ROADSIDE FURNITURE PLAN - HW16 BRUXNER HIGHWAY - MC00 - 39500 TO 39665

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallanganee Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-01-GE.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 7/03/2022 12:04:12 PM	PLOT BY tightd	CLIENT  Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO INDEX	A3						
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD				ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. GE-0002	ISSUE A

GENERAL NOTES

1. THESE NOTES SHOULD BE READ IN CONJUNCTION WITH OTHER ENGINEERING DRAWINGS, SPECIFICATIONS AND WRITTEN INSTRUCTIONS. ALWAYS REFER TO TECHNICAL SPECIFICATIONS FOR CLARIFICATION AND DETAILS.
2. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL RELEVANT CODES OF PRACTICE REFERRED TO THEREIN AND THE REQUIREMENTS OF ALL STATUTORY AUTHORITIES.
3. LEVELS AND CONTOURS ARE IN METRES (m) AND DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE (UNO). SCALES AND SCALE BARS ARE FOR A3 SIZE DRAWINGS
4. ALL LEVELS ARE TO AHD DATUM.
5. ALL COORDINATES ARE AS PER CO-ORDINATE SYSTEM STATED IN TITLE BLOCK.
6. ALL STATIONS AND RADII ARE IN METRES.
7. ALL LOCATIONS, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. REFER DISCREPANCIES TO THE PRINCIPAL. DO NOT OBTAIN DIMENSIONS FROM SCALING.
8. THE CONTRACTOR SHALL ENSURE ACCESS IS AVAILABLE TO PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
9. THESE DRAWINGS ARE BASED ON GROUND FEATURES AS AT THE DATE OF SURVEY 28/09/2019.

UTILITIES

1. THE UTILITY INFORMATION SHOWN IN THE DRAWINGS IS SCHEMATIC ONLY AND IS INTENDED TO ACCENTUATE THE PRESENCE OF PUBLIC UTILITY SERVICES ALONG THE PROJECT LENGTH. ACTUAL LOCATIONS SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.
2. IN ORDER TO AVOID DAMAGE TO THE SERVICES THE CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATING THE WORKS ADJACENT TO ANY SERVICE WITH THE RELEVANT UTILITY AUTHORITY IN ACCORDANCE WITH THE AUTHORITY REQUIREMENTS.
3. THE CONTRACTOR SHALL CO-ORDINATE WITH THE RELEVANT UTILITY AUTHORITIES AND THE PRINCIPAL WITH RESPECT TO ANY TEMPORARY DIVERSIONS NECESSARY FOR CONSTRUCTION STAGING WORKS.

LANDSCAPING

1. ALL DISTURBED AREAS TO BE STABILISED WITH 100mm TOPSOIL LAYER AND HAND SEEDED. REFER TO SPECIFICATION R178 FOR DETAILS.

PAVEMENT MARKING, ROAD FURNITURE & SIGN POSTING

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
2. REFER TO R.M.S. STANDARD DRAWINGS FOR SAFETY BARRIER DETAILS, UNLESS SPECIFIED OTHERWISE.
3. FOR DETAILS OF SAFETY BARRIER DELINEATORS REFER R.M.S. STANDARD DRG OR MANUFACTURERS DETAIL.
4. SIGN POSTS PLACED WITHIN THE CLEAR ZONE WITHOUT SAFETY BARRIER PROTECTION SHALL BE FRANGIBLE.
5. FOR DETAILS OF PAVEMENT MARKINGS, SIGN POSTS AND SIGN SUPPORT STRUCTURES REFER R.M.S. GUIDELINES, STANDARD DRGS, RELEVANT AUSTRALIAN SPECIFICATION AND DRG'S BY OTHERS.
6. ALL PERMANENT PAVEMENT MARKINGS SHALL BE IN WATERBORNE PAINT UNLESS NOTED OTHERWISE.
7. GUIDE POST / DELINEATOR SPACING IS 60m UNO.

STORMWATER DRAINAGE

1. THE DOCUMENTED DRAINAGE SYSTEM IS DETAILED ONLY FOR NORMAL AUSTRROADS TRAFFIC LOADING CONSTRUCTION VEHICLE REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
2. UNSUITABLE FOUNDING MATERIAL FOR PIPES AND STRUCTURES SHALL BE REMOVED OR IMPROVED IN ACCORDANCE WITH THE RELEVANT SPECIFICATIONS AND TO THE PRINCIPAL'S SATISFACTION.
3. REINFORCEMENT EXPOSED IN MODIFICATION OF PRECAST COMPONENTS SHALL BE PROTECTED WITH THE APPROVED METHOD OF COVER REPLACEMENT TO THE PRINCIPAL'S SATISFACTION.
4. WHERE NOTED ON THE PLANS BATTERS ARE TO BE RECONTOURED AROUND DRAINAGE LINES
5. EXISTING DRAINAGE CULVERTS DEPICTED AS REMAINING MUST BE CHECKED BY THE CONTRACTOR FOR CONDITION. THE CONTRACTOR IS TO UNDERTAKE A CONDITION SURVEY. FOR DETAILS OF GUARDFENCE, HEADWALLS AND SO KERB REFER TO MODEL DRAWINGS.

SAFETY BARRIERS

1. BARRIER TO BE INSTALLED AS PER RMS MODEL DRAWINGS LISTED IN THE SUPPLEMENTARY DRAWING INDEX, OR TO MANUFACTURES SPECIFICATIONS.
2. ANY CHANGES TO PRODUCTS LISTED IN THE BARRIER SCHEDULES ARE TO BE MADE IN CONSULTATION WITH THE DESIGNER.


SUPPLEMENTARY DRAWING INDEX

DRAWING NUMBER	DESCRIPTION OF DRAWING
R0100-01	ROCK FILLED MATTRESS PROTECTION FO CULVERTS AT INLETS AND OUTLETS
R0230	STORMWATER DRAINAGE SERIES - BATTER DRAINS
R0220-22	STORMWATER DRAINAGE SERIES - GULLY PITS - STANDARDS GULLY PIT SO2
R0240-01	STORMWATER DRAINAGE SERIES - PIPES - INSTALLATION OF BURIED CONCRETE PIPES
R0300-01	STANDARD KERB AND CHANNEL SHAPES
R0710-04	W-BEAM AND THRIE BEAM SAFETY BARRIERS POST ON SLIP BASE
R0710-09	W-BEAM AND THRIE BEAM SAFETY BARRIERS W-BEAM TO THRIE BEAM TRANSITION
R0710-15	W-BEAM/THRIE BEAM RAIL FASTENER COMPONENTS M16 BOLTS AND NUTS - RAIL
R0710-16	W-BEAM/THRIE BEAM RAIL FASTENER COMPONENTS HEXAGON HEAD BOLTS AND NUTS
R0710-17	W-BEAM/THRIE BEAM POST AND SLIP BASE HEXAGON HEAD BOLTS AND NUTS
R0710-18	W-BEAM AND THRIE BEAM SAFETY BARRIER DELINEATION UNIT
R0710-19	AASHTO G4 W BEAM ASSEMBLY
MD.R33.A04	STANDARD PAVEMENT SUBSURFACE DRAINAGE DETAILS - BATTER OUTLET FOR SUBSURFACE DRAINS
MD.R37.A01	STANDARD PAVEMENT SUBSURFACE DRAINAGE DETAILS - INTRA PAVEMENT DRAINS

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50mm ON A3 SIZE ORIGINAL

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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD				ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. GE-0004	ISSUE A

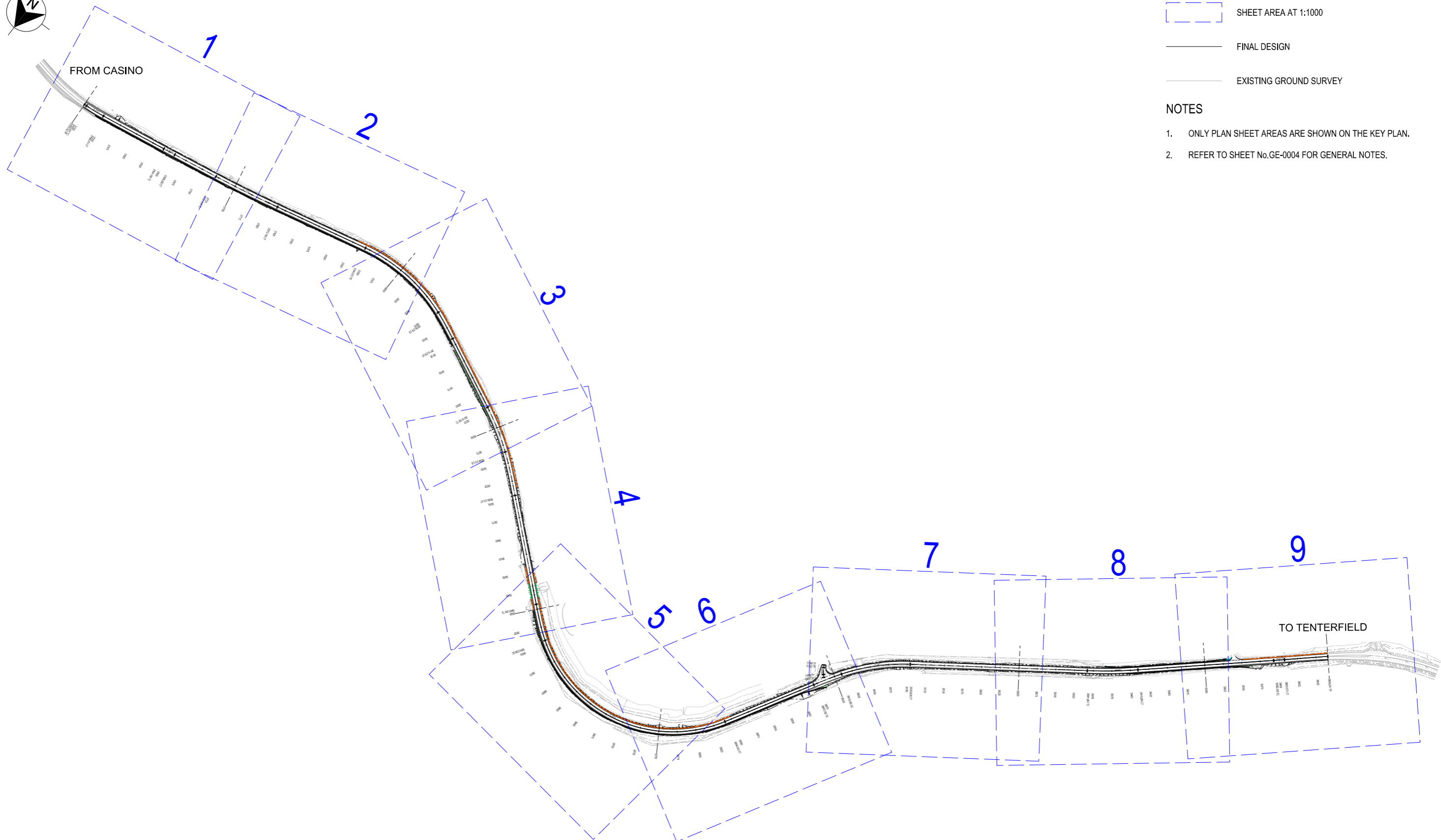


LEGEND

- SHEET AREA AT 1:1000
- FINAL DESIGN
- EXISTING GROUND SURVEY

NOTES

1. ONLY PLAN SHEET AREAS ARE SHOWN ON THE KEY PLAN.
2. REFER TO SHEET No.GE-0004 FOR GENERAL NOTES.



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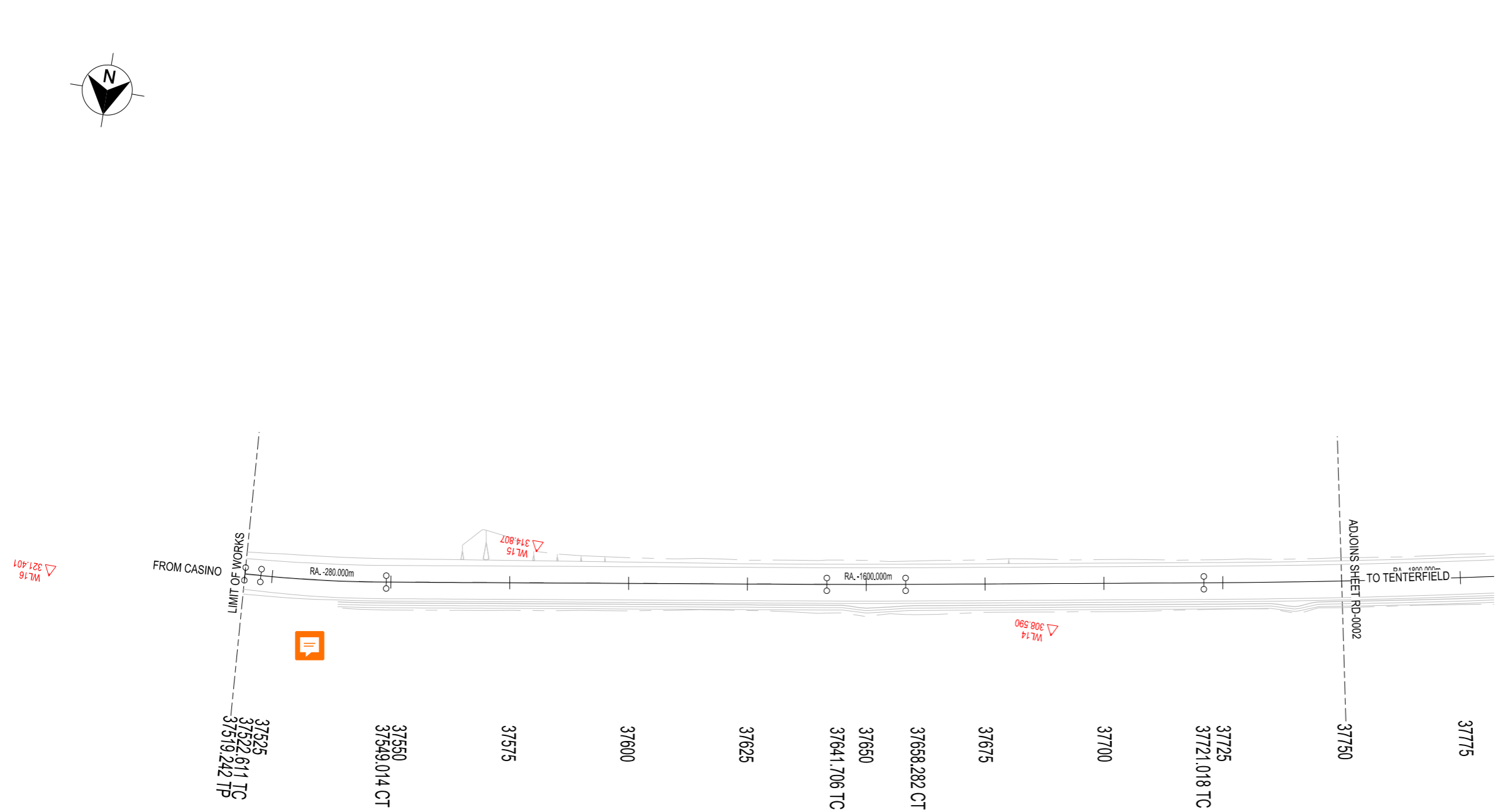
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EXTERNAL REFERENCE FILES			WVR No.		APPROVAL		TNSW REGISTRATION No. DS2020/00063		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN		EDMS No. QA4331765		SHEET No. GE-0003	ISSUE A
REV DATE AMENDMENT / REVISION DESCRIPTION			SCALE ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE		NAME		NSW GOVERNMENT		REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	
			SCALE 1:5000m		TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		DRAWN		D. TIGHT		NSW GOVERNMENT		REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	
			CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		DRG CHECK		D. JOHNSON		NSW GOVERNMENT		REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	
			DESIGN CHECK		D. JOHNSON		DESIGN		D. TIGHT		NSW GOVERNMENT		REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	
			DESIGN MANAGER		D. JOHNSON		PROJECT MANAGER		R. GERSERKOWSKI		NSW GOVERNMENT		REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	

LEGEND

- MC00 — CONTROL STRING LABEL
- — — CONTROL STRING LABEL
- — — PROPOSED DESIGN
- DP — CADASTRAL BOUNDARY OVERLAY
- TS TANGENT TO SPIRAL
- SC SPIRAL TO CURVE
- CS CURVE TO SPIRAL
- ST SPIRAL TO TANGENT
- STS SPIRAL TO TANGENT TO SPIRAL
- TC TANGENT TO CURVE
- CT CURVE TO TANGENT
- PM PERMANENT SURVEY MARK - DO NOT DISTURB
- SB SURVEY MARK



NOTES

1. PERMANENT AND STATE SURVEY CONTROL MARKS ARE NOT TO BE DISTURBED UNLESS ASSESSED BY ROADS AND MARITIME SERVICES SURVEY IN ACCORDANCE WITH LPI STANDARDS - FINES APPLY
2. REFER TO SHEET RD-0010 FOR ALIGNMENT DETAILS
3. REFER TO SHEET RD-0010 FOR SURVEY DETAILS

UTILITY INFORMATION SHOWN ON THE PLANS DOES NOT DEPICT ANY MORE THAN THE PRESENCE OF A SERVICE, BASED ON AVAILABLE DOCUMENTARY EVIDENCE. THE PRESENCE OF A UTILITY SERVICE, ITS SIZE AND LOCATION SHOULD BE CONFIRMED BY FIELD INSPECTION, PRIOR TO THE COMMENCEMENT OF ROADWORKS AND THE RELEVANT UTILITY PLANS OBTAINED BY DIALLING PH 1100 OR FAX 1300 652 077 (DIAL BEFORE YOU DIG). CAUTION SHOULD BE EXERCISED WHEN WORKING IN THE VICINITY OF ALL UTILITY SERVICES.

NOT FOR CONSTRUCTION

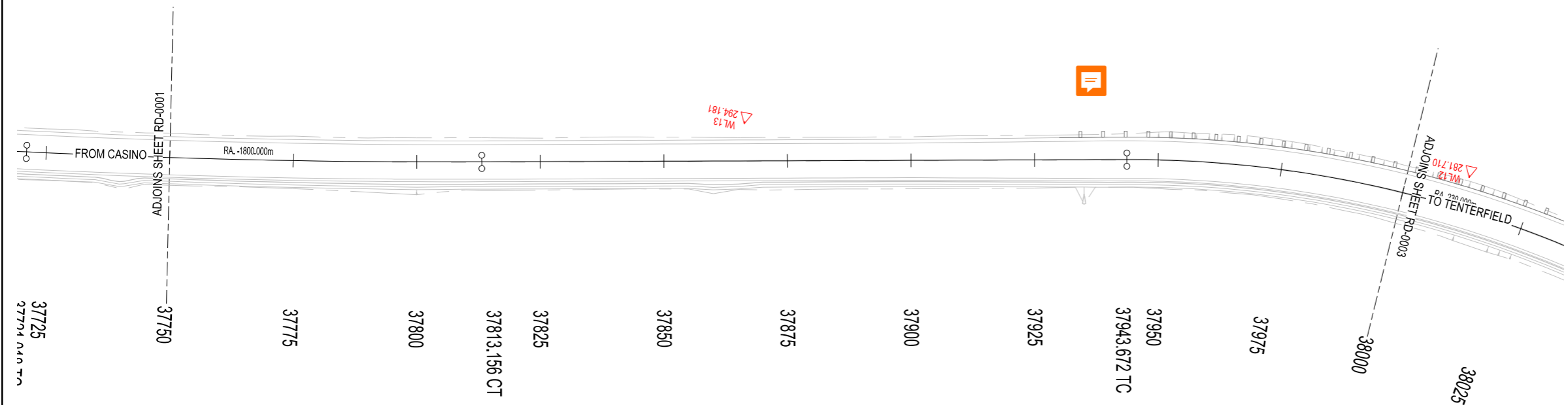
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50mm ON A3 SIZE ORIGINAL

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LEGEND

- MC00 — CONTROL STRING LABEL
- — — CONTROL STRING LABEL
- — — PROPOSED DESIGN
- DP— CADASTRAL BOUNDARY OVERLAY
- TS TANGENT TO SPIRAL
- SC SPIRAL TO CURVE
- CS CURVE TO SPIRAL
- ST SPIRAL TO TANGENT
- STS SPIRAL TO TANGENT TO SPIRAL
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- CT CURVE TO TANGENT
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- SB SURVEY MARK



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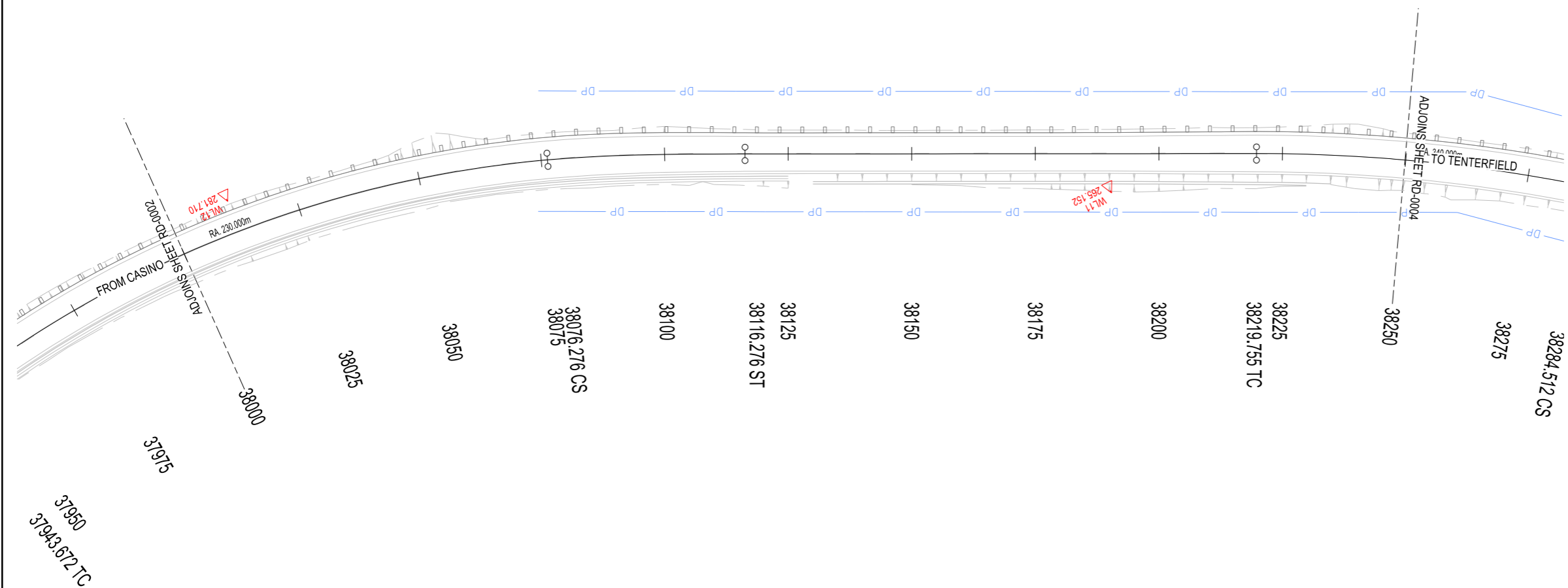
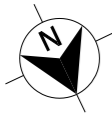
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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-02-RA.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:11:53 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO ROAD ALIGNMENT PLAN HW16 - BRUXNER HIGHWAY - MC00 - 37750 TO 38000	A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	
						 SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	
								DESIGN CHECK	D. JOHNSON	
								DESIGN MANAGER	D. JOHNSON	
								PROJECT MANAGER	R. GERSERKOWSKI	
							PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0002	ISSUE A

LEGEND

- MC00 — CONTROL STRING LABEL
- — — CONTROL STRING LABEL
- — — PROPOSED DESIGN
- DP — CADASTRAL BOUNDARY OVERLAY
- TS TANGENT TO SPIRAL
- SC SPIRAL TO CURVE
- CS CURVE TO SPIRAL
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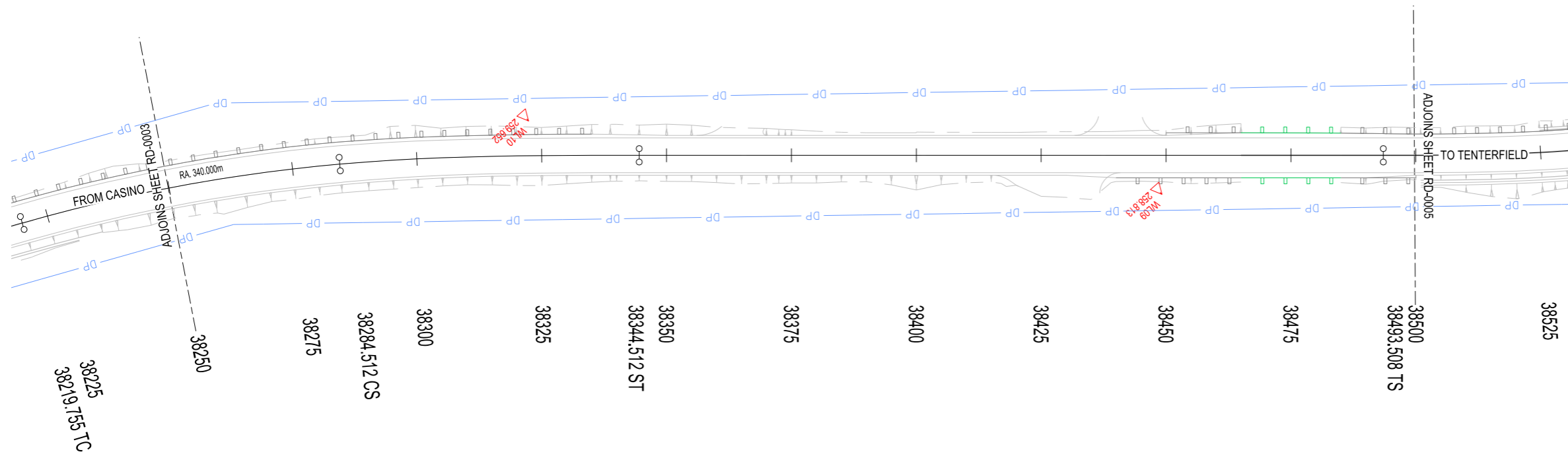
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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-02-RA.dgn			DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:11:53 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO ROAD ALIGNMENT PLAN HW16 - BRUXNER HIGHWAY - MC00 - 38000 TO 38250	A3					
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	PREPARED FOR	TNSW REGISTRATION No.	PART		
						SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	REGIONAL MAINTENANCE DELIVERY NORTHERN	DS2020/00063	1		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	PROJECT MANAGEMENT NORTHERN	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0003	ISSUE A
								DESIGN CHECK	D. JOHNSON					
								DESIGN MANAGER	D. JOHNSON					
								PROJECT MANAGER	R. GERSERKOWSKI					



LEGEND

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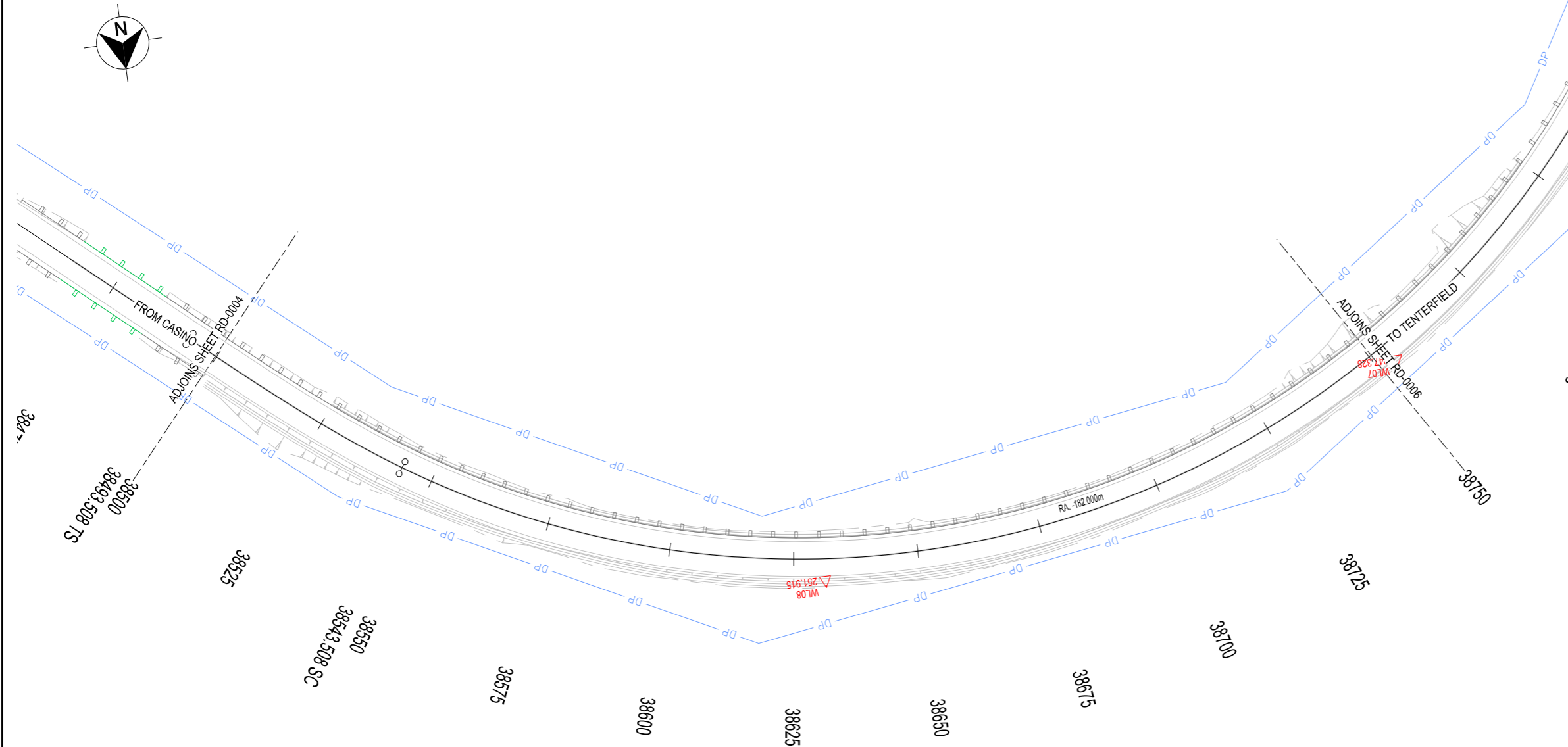
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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-02-RA.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:11:54 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO ROAD ALIGNMENT PLAN HW16 - BRUXNER HIGHWAY - MC00 - 38250 TO 38500	A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	
							TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	
								DESIGN CHECK	D. JOHNSON	
								DESIGN MANAGER	D. JOHNSON	
								PROJECT MANAGER	R. GERSERKOWSKI	
							PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0004	ISSUE A

LEGEND

- MC00 CONTROL STRING LABEL
- CONTROL STRING LABEL
- PROPOSED DESIGN
- DP CADASTRAL BOUNDARY OVERLAY
- TS TANGENT TO SPIRAL
- SC SPIRAL TO CURVE
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME		
						SCALE 1:1000m CO-ORDINATE SYSTEM MGA ZONE 56 HEIGHT DATUM AHD	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		
								TNSW REGISTRATION No.	DS2020/00063	PART 1	
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LEGEND

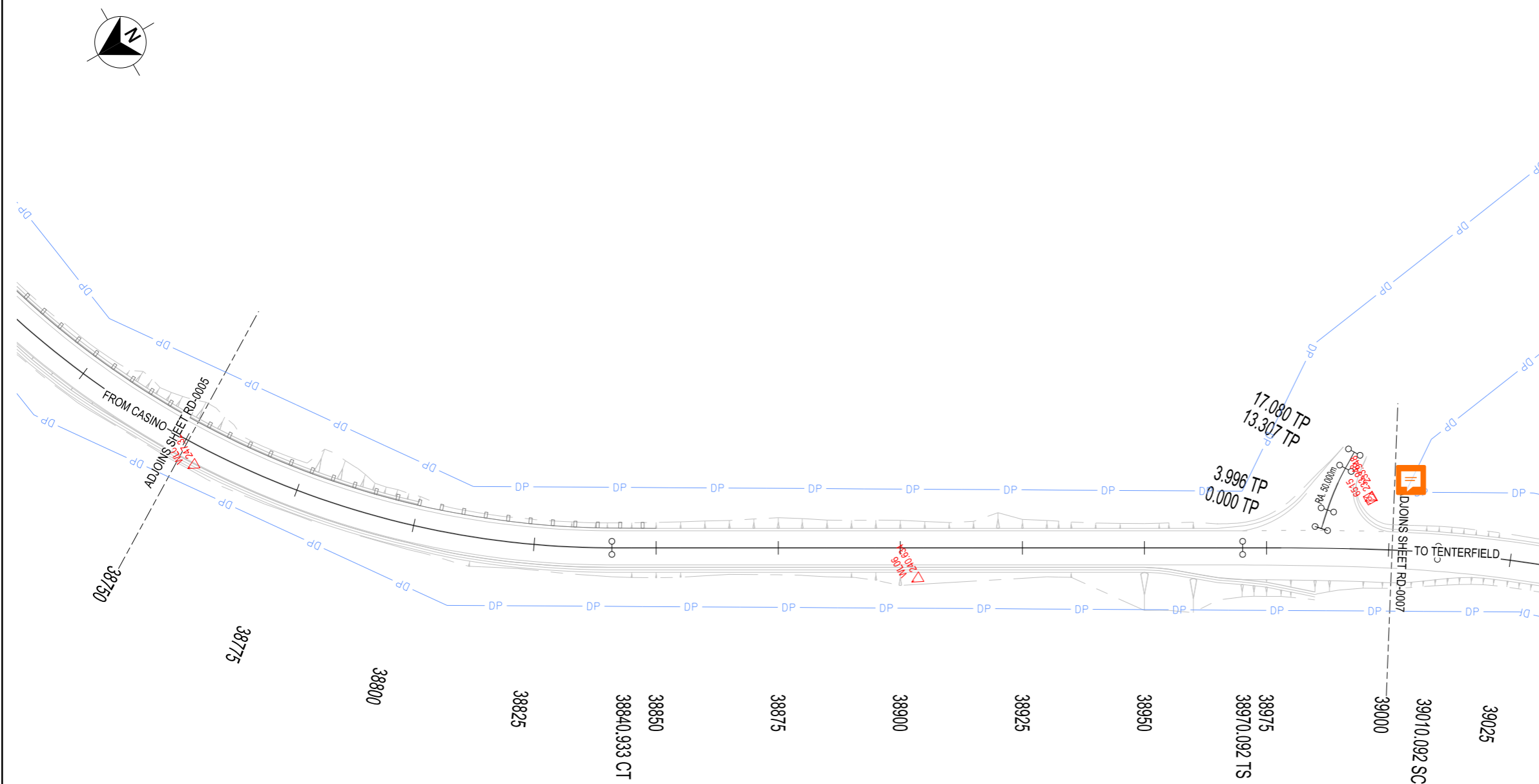
- MC00 — CONTROL STRING LABEL
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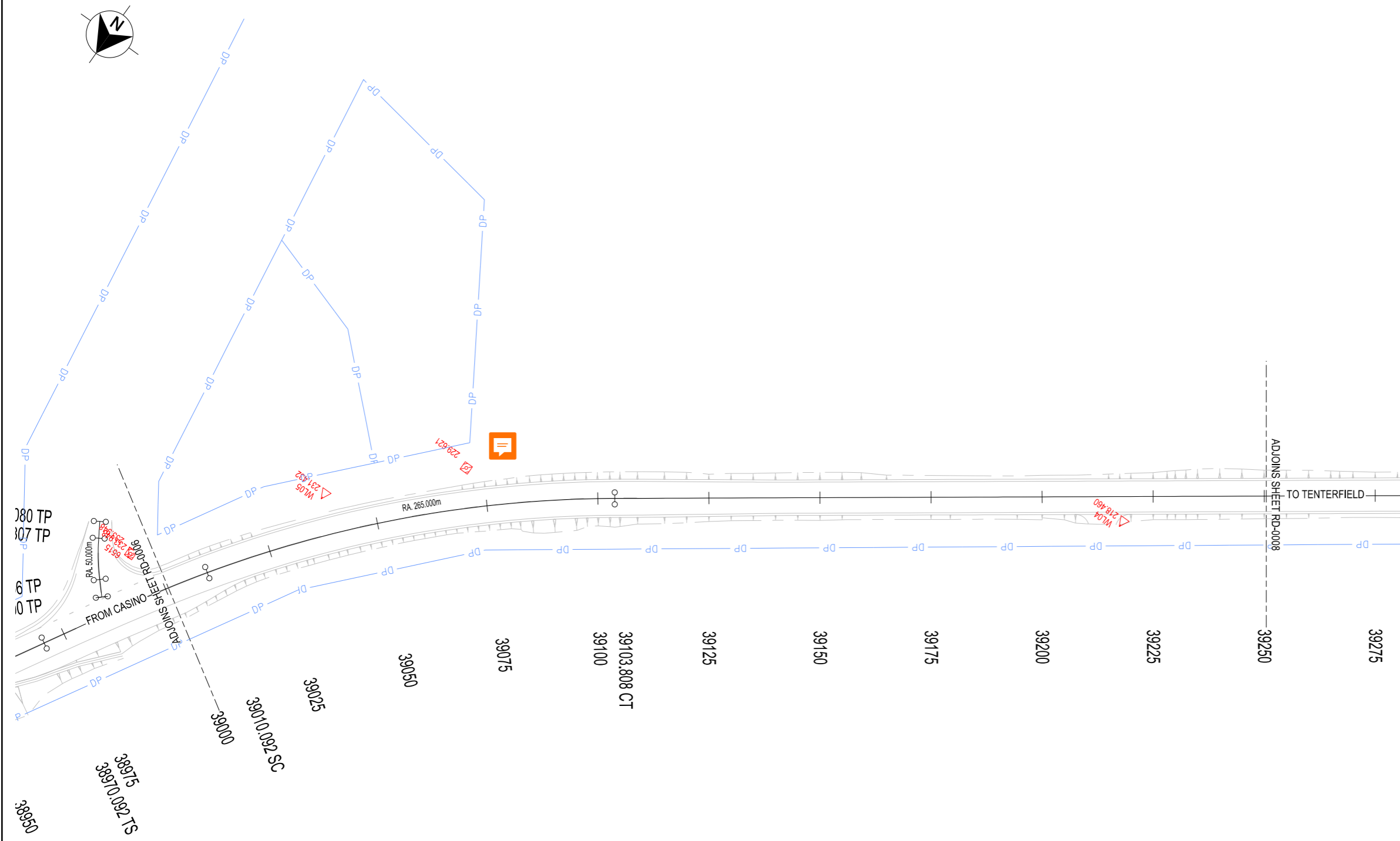


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						CO-ORDINATE SYSTEM MGA ZONE 56		DESIGN CHECK	D. JOHNSON	
						HEIGHT DATUM AHD		DESIGN CHECK	D. JOHNSON	
								DESIGN MANAGER	D. JOHNSON	
								PROJECT MANAGER	R. GERSERKOWSKI	
							PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0006	ISSUE A

LEGEND

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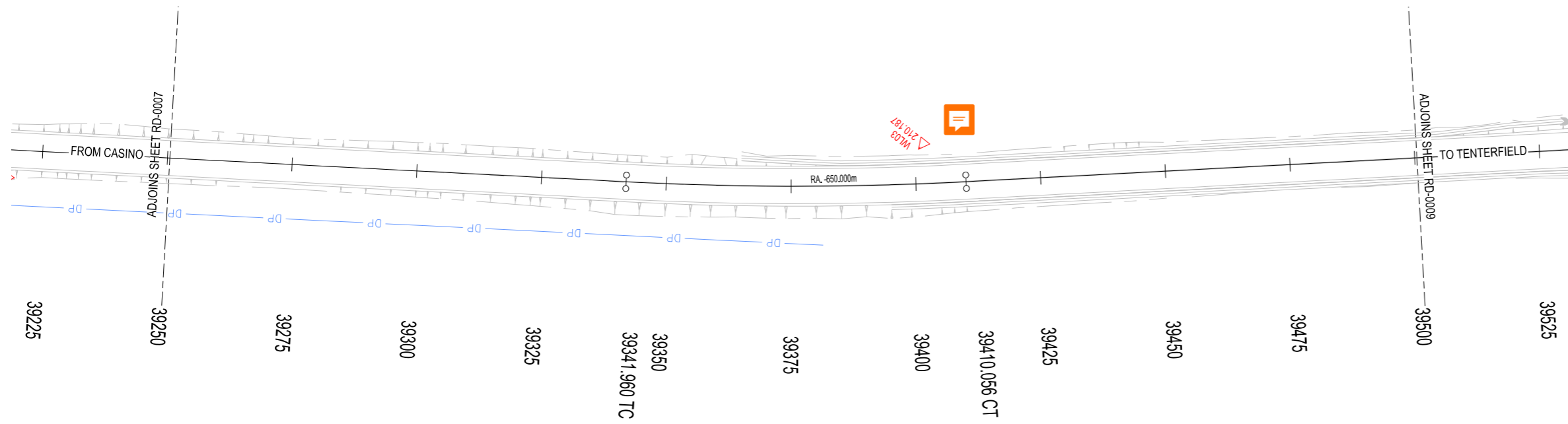
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME
						SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON
								DESIGN CHECK	D. JOHNSON
								DESIGN MANAGER	D. JOHNSON
								PROJECT MANAGER	R. GERSERKOWSKI
								PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063
								ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765
									SHEET No. RD-0007
									PART 1 ISSUE A



LEGEND

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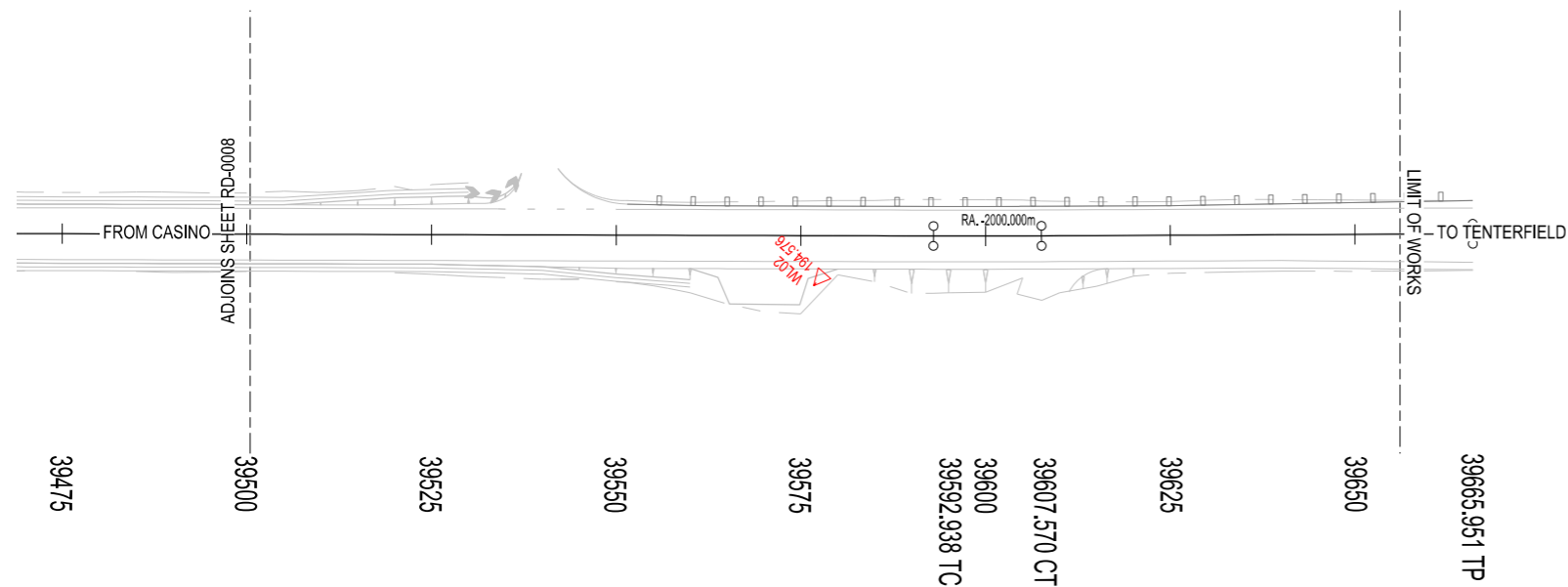
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				CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		TNSW REGISTRATION No. DS2020/00063 ISSUE STATUS DETAIL DESIGN		
								EDMS No. QA4331765	SHEET No. RD-0008	PART 1 ISSUE A



LEGEND

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50mm ON A3 SIZE ORIGINAL

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						SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN	DS2020/00063	PART 1		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	PROJECT MANAGEMENT NORTHERN	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0009	ISSUE A
								DESIGN MANAGER	D. JOHNSON					
								PROJECT MANAGER	R. GERSERKOWSKI					

SURVEY SCHEDULE

ALIGNMENT SCHEDULE

PRIMARY SURVEY CONTROL MARK SCHEDULE - SMARTNET MGA DATUM

STRING LABEL*	STATION	EASTING	NORTHING	H.CLASS /ORDER	SOURCE	HEIGHT A.H.D.	V.CLASS /ORDER	SOURCE	DATE	COMBINED S.FACTOR	DESCRIPTION
WL02	WL02	472428.8100	6802465.4480	RMS		194.5760	RMS		09/09/19	0.999560	STAR PICKET [C]
WL01	WL01	472309.2010	6802343.5610	RMS		184.1630	RMS		09/09/19	0.999560	STAR PICKET [C]
WL03	WL03	472569.4977	6802571.8643	RMS		210.1869	RMS		09/09/19	0.999560	STAR PICKET [C]
WL04	WL04	472708.6047	6802691.4110	RMS		218.4604	RMS		09/09/19	0.999560	STAR PICKET [C]
WL05	WL05	472858.7162	6802790.3175	RMS		231.4319	RMS		09/09/19	0.999560	STAR PICKET [C]
WL06	WL06	472918.3945	6802915.1770	RMS		240.6339	RMS		09/09/19	0.999560	STAR PICKET [C]
WL07	WL07	473012.2991	6803032.2095	RMS		247.3277	RMS		09/09/19	0.999560	NAIL IN CONC [C]
WL08	WL08	473131.8607	6803061.2461	RMS		251.9151	RMS		09/09/19	0.999560	NAIL IN CONC [C]
WL09	WL09	473290.7067	6802971.5662	RMS		258.8127	RMS		09/09/19	0.999560	STAR PICKET [C]
WL10	WL10	473376.2004	6802876.7541	RMS		259.6523	RMS		09/09/19	0.999560	STAR PICKET [C]
WL11	WL11	473495.7458	6802819.7310	RMS		265.1521	RMS		09/09/19	0.999560	STAR PICKET [C]
WL12	WL12	473657.9908	6802744.5070	RMS		281.7098	RMS		09/09/19	0.999560	STAR PICKET [C]
WL13	WL13	473803.5515	6802765.4826	RMS		294.1808	RMS		09/09/19	0.999560	STAR PICKET [C]
WL14	WL14	473974.0618	6802818.5529	RMS		308.5898	RMS		09/09/19	0.999560	STAR PICKET [C]
WL15	WL15	474083.7337	6802818.8393	RMS		314.8073	RMS		09/09/19	0.999560	STAR PICKET [C]
WL16	WL16	474184.0715	6802840.6329	RMS		321.4009	RMS		09/09/19	0.999560	STAR PICKET [C]

Mean Combined Scale Factor (CSF) = 0.999560


- [P] = Permanent Mark must be protected during construction in accordance with Specification G71
- [C] = Suitable for construction and must not be disturbed until assessment by Surveyor
- [N] = Not suitable for construction as Survey Mark may be unstable
- * = Last four characters of the Permanent Mark number or four character descriptor used in DTM

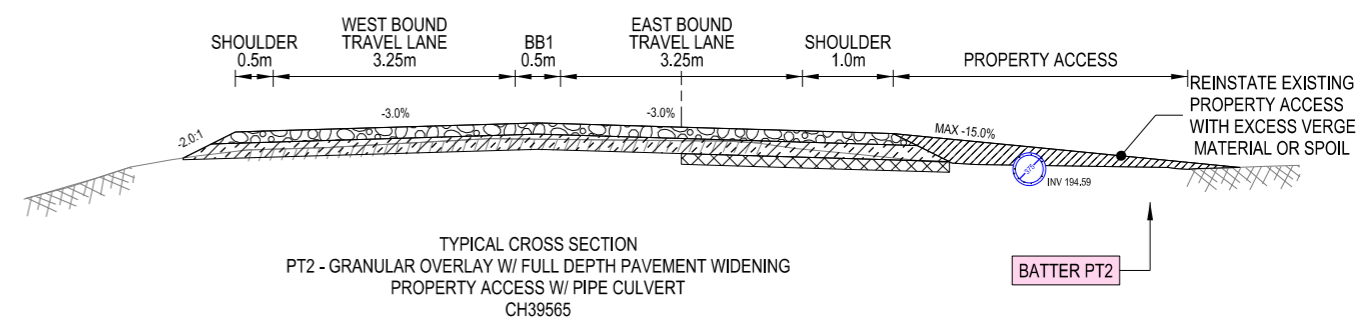
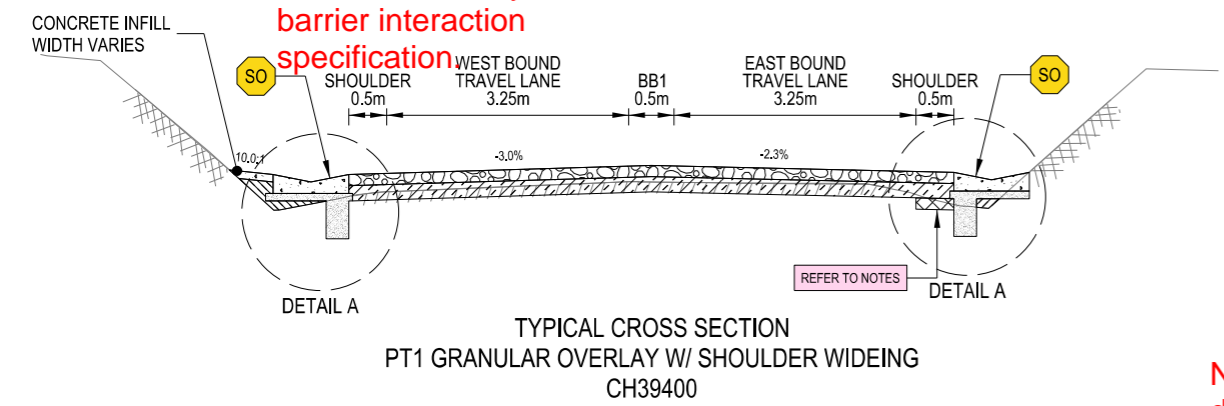
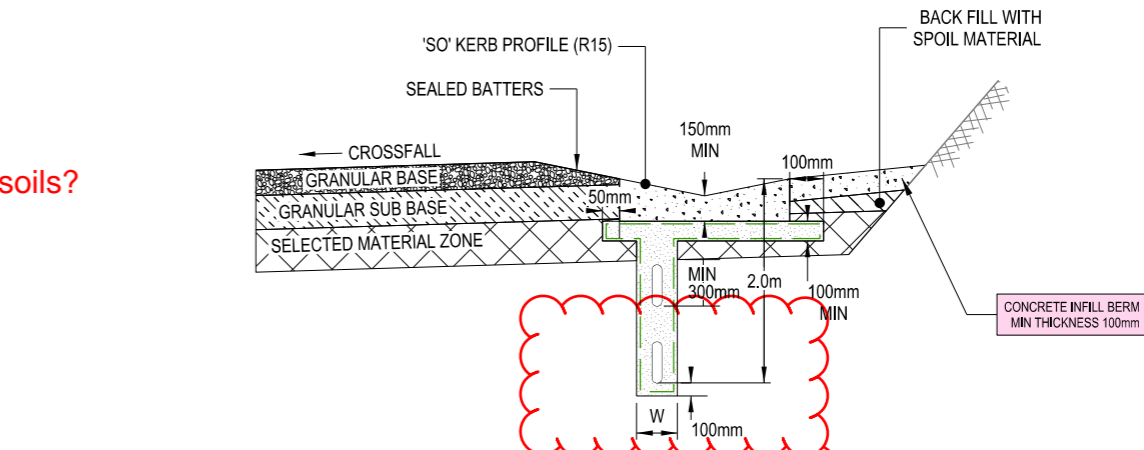
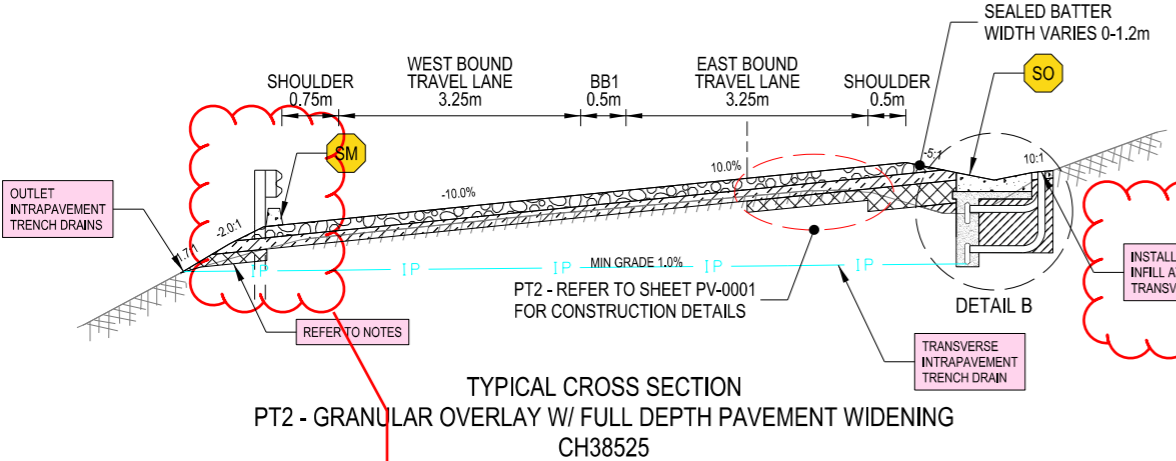
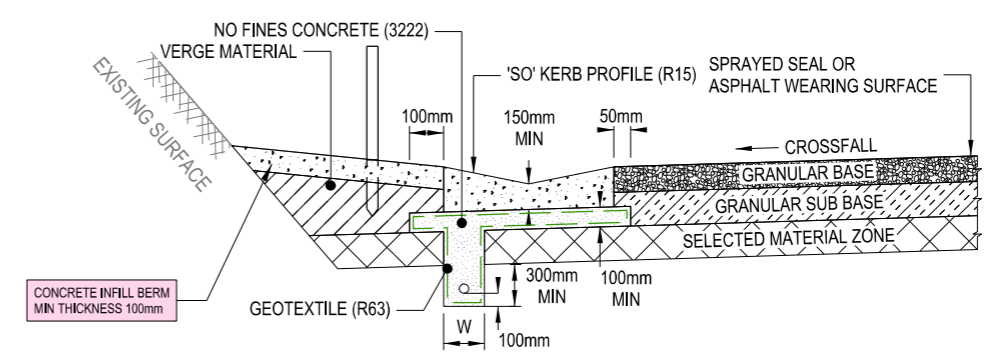
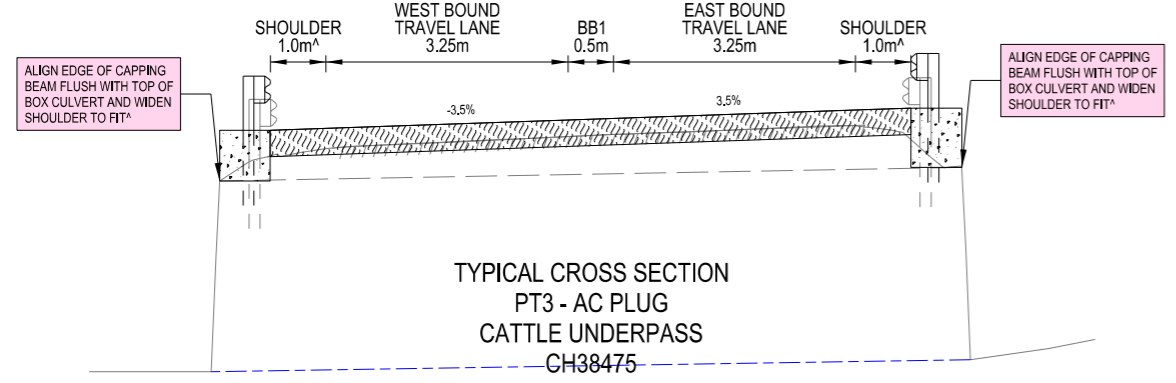
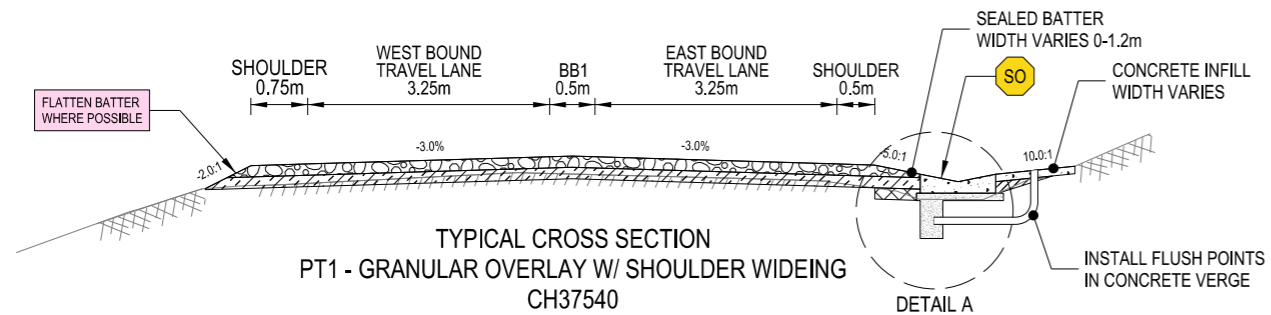
HORIZONTAL ALIGNMENT MC00

NAME	-CHARACTERISTICS--	--LENGTH--	-CHAINAGE-	-----X-----	-----Y-----
1	BEARING= 266 17 11.5	2.693	37519.242	474143.43351	6802834.56332
2	XC = 474158.88115 YC = 6802554.97680 R = -280.000	27.753	37521.935	474140.74644	6802834.38892
3	BEARING= 260 36 27.3	151.504	37549.687	474113.18639	6802831.22305
4	XC = 474257.46516 YC = 6801030.62948 R = -1800.000	96.124	37701.192	473963.71314	6802806.49821
5	BEARING= 257 32 52.2	144.649	37797.316	473869.34116	6802788.28694
6	XC = 473676.34512 YC = 6802991.45144 R = 240.000	138.621	37941.965	473728.09499	6802757.09712
6	A = 97.97959	40.000	38080.586	473591.74142	6802766.85800
7	BEARING= 295 24 57.2	101.431	38120.586	473555.16121	6802783.01044
8	XC = 473600.88634 YC = 6803115.57246 R = 320.000	88.942	38222.018	473463.54691	6802826.54326
9	BEARING= 311 20 26.9	176.563	38310.959	473389.51462	6802875.31844
9	A = 104.78550	60.000	38487.522	473256.95211	6802991.94486
10	XC = 473113.02935 YC = 6802873.73314 R = -183.000	294.196	38547.522	473209.86385	6803029.01379
11	BEARING= 209 50 15.5	129.966	38841.719	472954.28803	6802964.78365
11	A = 102.95630	40.000	38971.685	472889.62411	6802852.04583
12	XC = 472649.58564 YC = 6802966.67459 R = 265.000	94.649	39011.685	472868.86115	6802817.86850
13	BEARING= 234 37 33.5	258.124	39106.334	472802.99723	6802750.59617
14	XC = 472708.30789 YC = 6802438.08721 R = -200.000	22.176	39364.458	472592.52556	6802601.16526
15	BEARING= 228 16 22.6	269.018	39386.634	472575.19135	6802587.35203
			39655.652	472374.41676	6802408.29833
			TOTAL LENGTH	2136.410	

NOT FOR CONSTRUCTION

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-02-RA.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_Mallangane Range Willock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:11:56 PM	PLOT BY tightd	CLIENT  Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO ROAD ALIGNMENT PLAN SURVEY AND ALIGNMENT SCHEDULE	A3			
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME			
							TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT			
								DRG CHECK	D. JOHNSON			
								DESIGN	D. TIGHT			
								DESIGN CHECK	D. JOHNSON			
								DESIGN MANAGER	D. JOHNSON			
								PROJECT MANAGER	R. GERSERKOWSKI			
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0010	PART 1	ISSUE A



NOTE:
WHERE WIDENING IS REQUIRED, THE EXISTING SHOULDER SHOULD BE EXCAVATED AND THE EXTENT OF EXISTING PAVEMENT ASSESSED. WHERE IT IS ASSESSED THAT THE EXISTING FORMATION WIDTH IS NOT SUFFICIENT, THE SHOULDER AND VERGE MATERIAL SHOULD BE EXCAVATED AND REPLACED WITH 150MM OF SELECT MATERIAL AND 150MM OF SUBBASE QUALITY GRAVEL (RMS 3051) AND 150MM OF DGB20 MATERIAL (RMS 3051).

Are flush points required on subsoils?

INSTALL FLUSH POINTS IN CONCRETE INFILL AT CONNECTION POINTS OF TRANSVERSE TRENCHDRAINS

check kerb/safety barrier interaction specification

No transverse drainage shown on DRAWINGS.

Check whether transverse drain required?

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallingane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallinganeRangeWillock_Design_JFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:11:58 PM	PLOT BY tightd	CLIENT NSW Government	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN TYPICAL CROSS-SECTIONS	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE NAME DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		NOT TO SCALE		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063
ISSUE STATUS DETAIL DESIGN		EDMS No. QA4331765	SHEET No. RD-0011	PART 1 ISSUE A		© Transport for NSW		

LEGEND

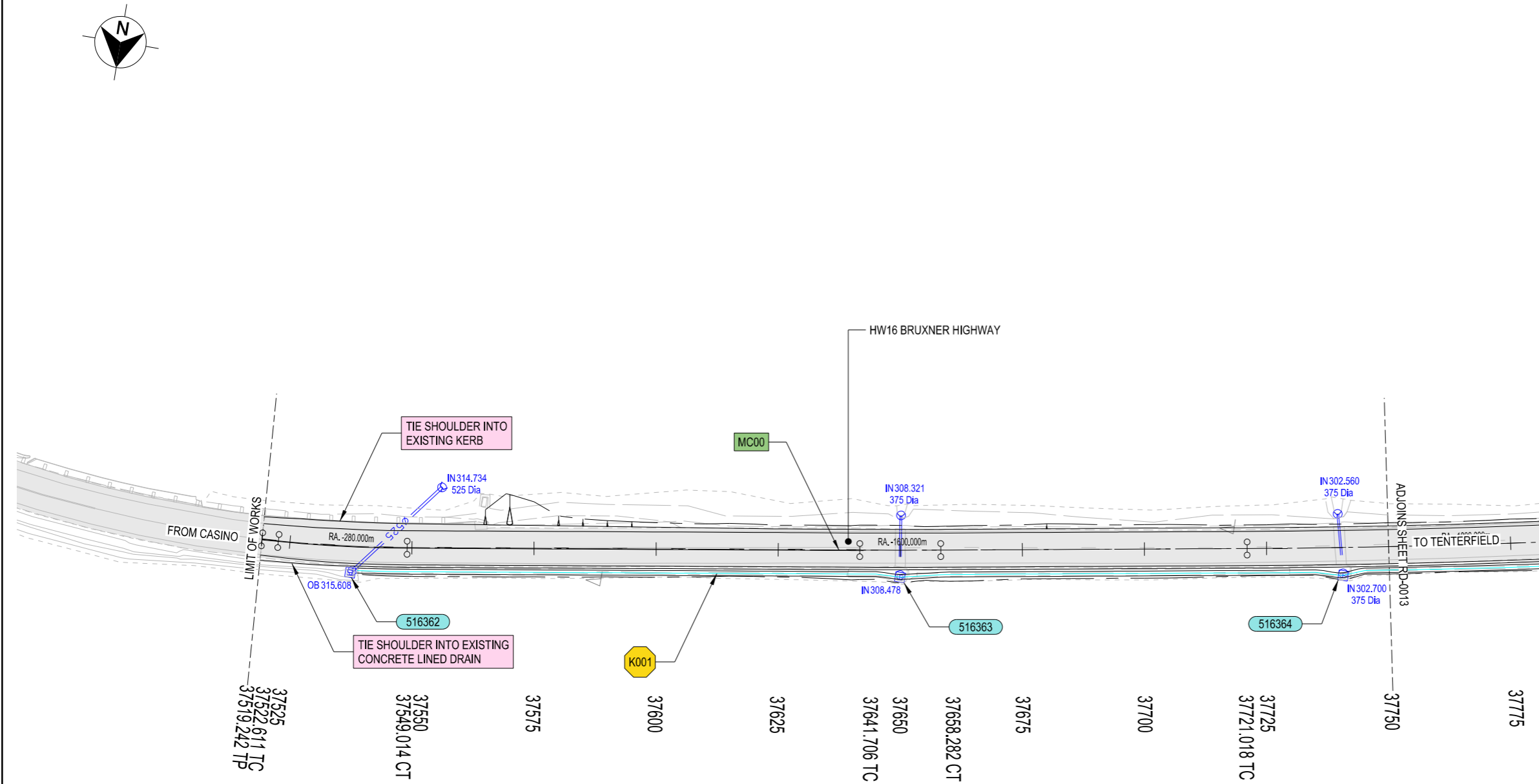
- MC00 CONTROL STRING LABEL
- PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- / — EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
- EXISTING DRAINAGE PIT / INSPECTION PIT
- K001 KERB CALLOUT LABEL
- PROPOSED GUTTER FLOW LINE
- PROPOSED INTRA-PAVEMENT TRENCH DRAIN
- EXISTING PIT MODIFIED WITH INSITU RISER & SO GRATE
- INLET SUMP GULLY W/ INLET ARRANGEMENT
- TC TELEPHONE JUNCTION MARKER
- TDP TELECOMMUNICATIONS DISTRIBUTION PILLAR
- TELECOMMUNICATIONS CABLE
- UNDERGROUND POWER LINE
- OVERHEAD POWER LINE
- POWER POLE / STAY CABLE
- TREE TO BE RETAINED
- TREE TO BE REMOVED

NOTES

1. REFER TO RF-0001 - RF-0009 FOR ROADSIDE FURNITURE, LINEMARKING & SAFETY BARRIER SETOUT DETAILS

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NOT FOR CONSTRUCTION



DRAINAGE PIT SCHEDULE

ID	PIT LID TYPE	CHAINAGE	LOCATION	KERB INVERT (m AHD)	COMMENTS
516362	LETTER BOX	37540	EASTBOUND LANE	EXISTING	RETAIN EXISTING
516363	LETTER BOX	37650	EASTBOUND LANE	310.105	RAISE PIT 35mm
516364	LETTER BOX	37740	EASTBOUND LANE	303.882	RAISE PIT 180mm

KERB & CHANNEL SCHEDULE

KERB ID	TYPE	LOCATION	START CH	FINISH CH	LENGTH (m)
K001	SO KERB	RHS	37540	38240	700

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:11:59 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN HW16 - BRUXNER HIGHWAY - MC00 - 37519 TO 37750	A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME
						0 10 20 30 40 SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON
								DESIGN CHECK	D. JOHNSON
								DESIGN MANAGER	D. JOHNSON
								PROJECT MANAGER	R. GERSERKOWSKI
								PREPARED FOR	REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
								TNSW REGISTRATION No.	DS2020/00063
								ISSUE STATUS	DETAIL DESIGN
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								SHEET No.	RD-0012
								PART	1
								ISSUE	A

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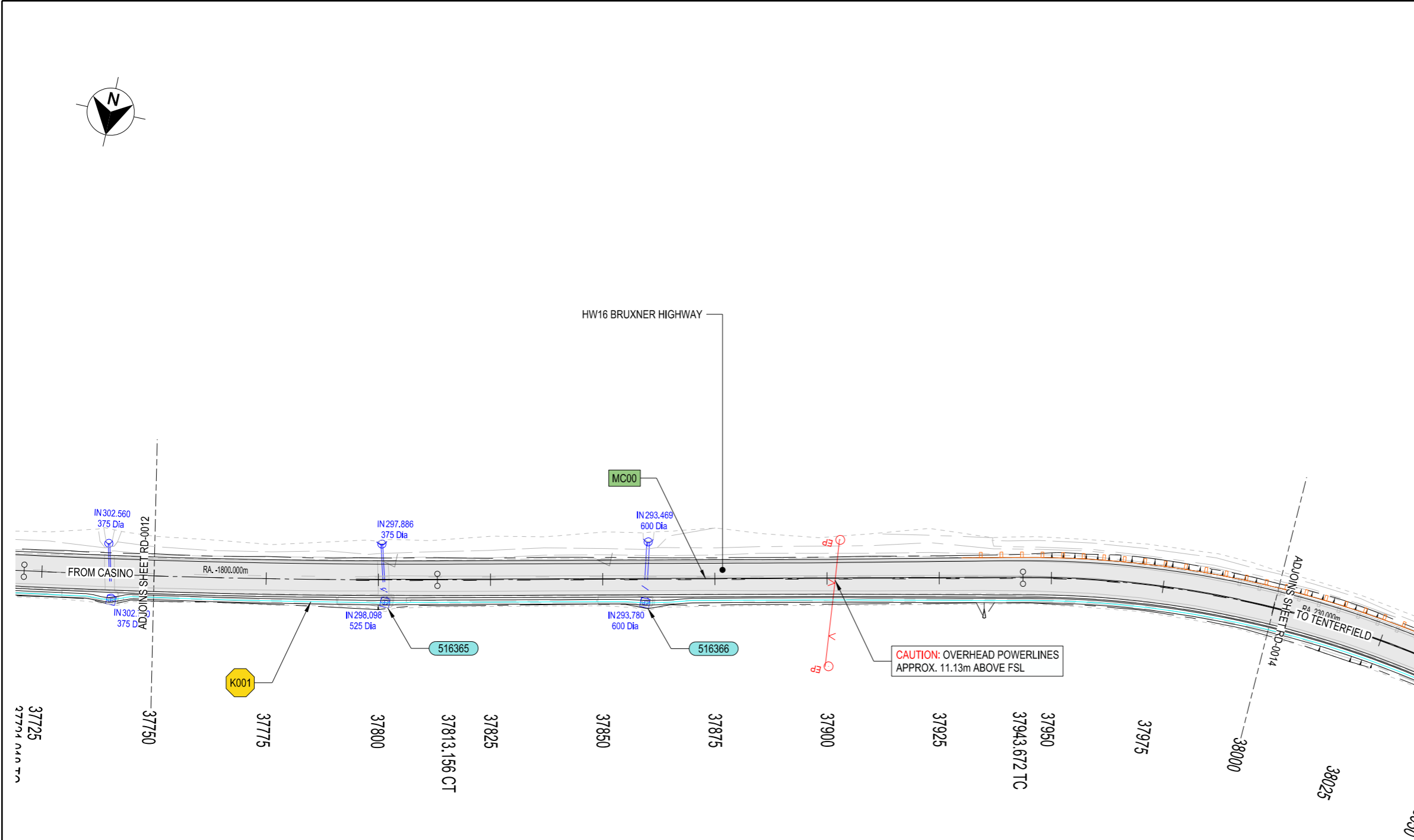
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- PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- / — EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
- EXISTING DRAINAGE PIT / INSPECTION PIT
- K001 — KERB CALLOUT LABEL
- PROPOSED GUTTER FLOW LINE
- IP — PROPOSED INTRA-PAVEMENT TRENCH DRAIN
- EXISTING PIT MODIFIED WITH INSITU RISER & SO GRATE
- INLET SUMP GULLY W/ INLET ARRANGEMENT
- TC — TELEPHONE JUNCTION MARKER
- TDP — TELECOMMUNICATIONS DISTRIBUTION PILLAR
- T — TELECOMMUNICATIONS CABLE
- EC — UNDERGROUND POWER LINE
- V — OVERHEAD POWER LINE
- EP — POWER POLE / STAY CABLE
- TREE TO BE RETAINED
- TREE TO BE REMOVED

NOTES

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DRAINAGE PIT SCHEDULE

ID	PIT LID TYPE	CHAINAGE	LOCATION	KERB INVERT (m AHD)	COMMENTS
516365	LETTER BOX	37800	EASTBOUND LANE	299.605	TIE INTO EXISTING
516366	LETTER BOX	37860	EASTBOUND LANE	294.904	TIE INTO EXISTING

KERB & CHANNEL SCHEDULE

KERB ID	TYPE	LOCATION	START CH	FINISH CH	LENGTH (m)
K001	SO KERB	RHS	37540	38240	700

DRAINAGE PIT SCHEDULE

KERB & CHANNEL SCHEDULE

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:00 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN HW16 - BRUXNER HIGHWAY - MC00 - 37750 TO 38000	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME
						0 10 20 30 40 SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT
						CO-ORDINATE SYSTEM MGA ZONE 56	DESIGN CHECK	D. JOHNSON	DESIGN
						HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	DESIGN CHECK
							DESIGN MANAGER	D. JOHNSON	DESIGN CHECK
							PROJECT MANAGER	R. GERSERKOWSKI	DESIGN CHECK
									PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
									REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
									TNSW REGISTRATION No. DS2020/00063
									ISSUE STATUS DETAIL DESIGN
									EDMS No. QA4331765
									SHEET No. RD-0013
									PART 1 ISSUE A

LEGEND

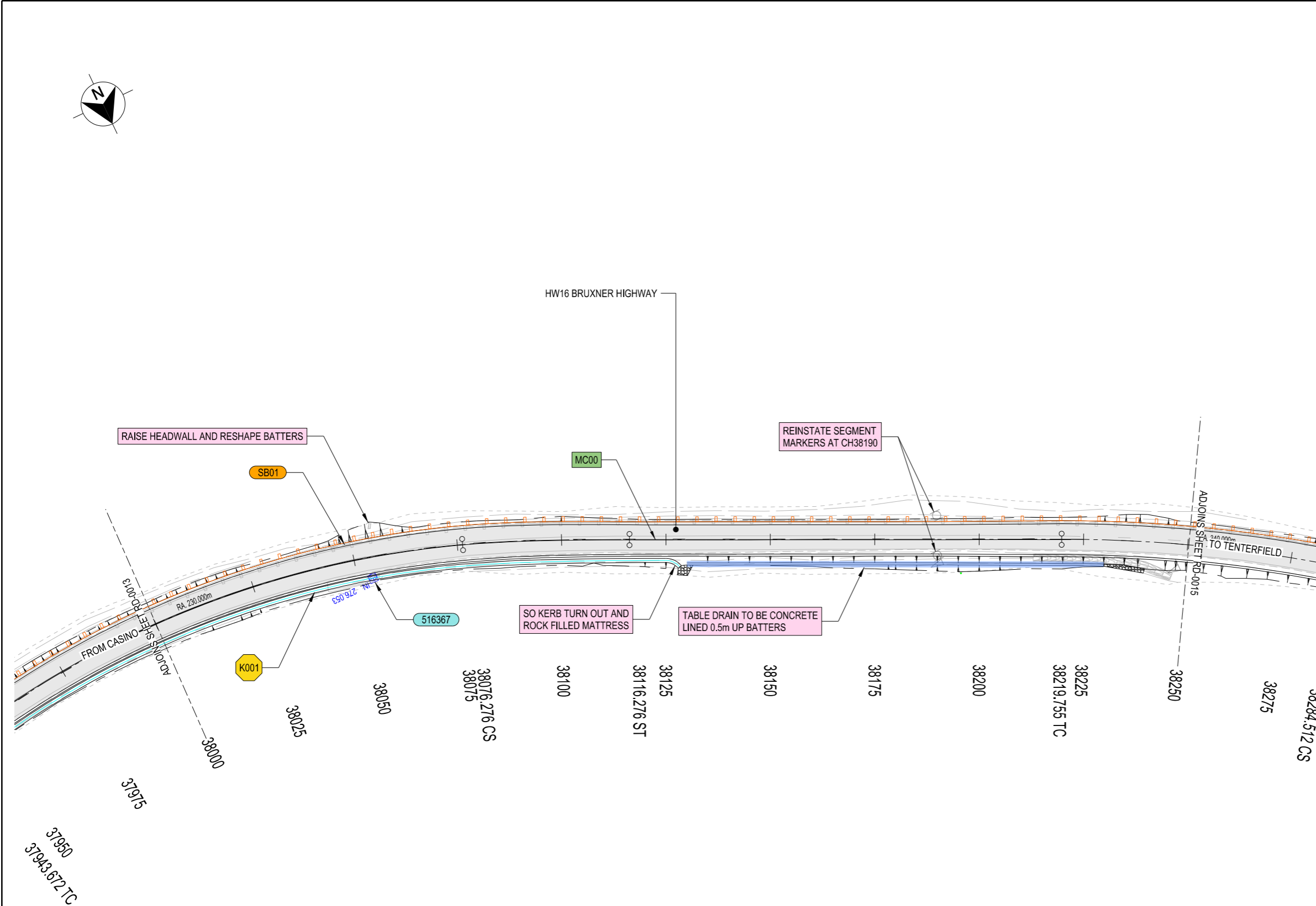
- MC00 — CONTROL STRING LABEL
- — PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- / — EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
- EXISTING DRAINAGE PIT / INSPECTION PIT
- K001 — KERB CALLOUT LABEL
- PROPOSED GUTTER FLOW LINE
- IP — PROPOSED INTRA-PAVEMENT TRENCH DRAIN
- EXISTING PIT MODIFIED WITH INSITU RISER & SO GRATE
- INLET SUMP GULLY W/ INLET ARRANGEMENT
- TC — TELEPHONE JUNCTION MARKER
- TDP — TELECOMMUNICATIONS DISTRIBUTION PILLAR
- TELECOMMUNICATIONS CABLE
- EC — UNDERGROUND POWER LINE
- OVERHEAD POWER LINE
- EP — POWER POLE / STAY CABLE
- TREE TO BE RETAINED
- TREE TO BE REMOVED

NOTES

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NOT FOR CONSTRUCTION



DRAINAGE PIT SCHEDULE

ID	PIT LID TYPE	CHAINAGE	LOCATION	KERB INVERT (m AHD)	COMMENTS
516367	LETTER BOX	38055	EASTBOUND LANE	277.277	RAISE PIT 25mm

KERB & CHANNEL SCHEDULE

KERB ID	TYPE	LOCATION	START CH	FINISH CH	LENGTH (m)
K001	SO KERB	RHS	37540	38240	700

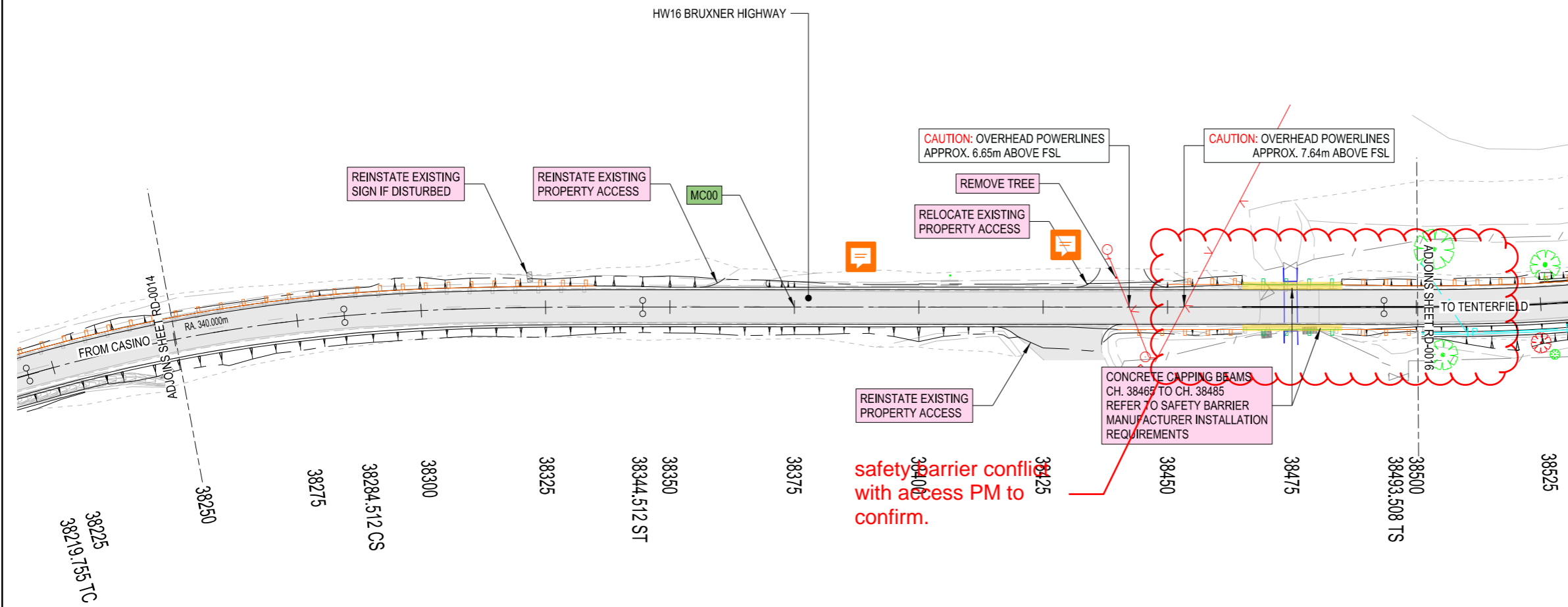
THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY		
						SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063
						ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0014	PART 1 ISSUE A



LEGEND

- MC00 — CONTROL STRING LABEL
- — PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- / — — EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
- EXISTING DRAINAGE PIT / INSPECTION PIT
- KERB CALLOUT LABEL
- PROPOSED GUTTER FLOW LINE
- PROPOSED INTRA-PAVEMENT TRENCH DRAIN
- EXISTING PIT MODIFIED WITH INSITU RISER & SO GRATE
- INLET SUMP GULLY W/ INLET ARRANGEMENT
- TELEPHONE JUNCTION MARKER
- TELECOMMUNICATIONS DISTRIBUTION PILLAR
- TELECOMMUNICATIONS CABLE
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NOTES

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:02 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN HW16 - BRUXNER HIGHWAY - MC00 - 38250 TO 38500	A3
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No. APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063
			<p>SCALE 1:1000m</p>	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	REGIONAL MAINTENANCE DELIVERY NORTHERN	ISSUE STATUS DETAIL DESIGN
			CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	EDMS No. QA4331765	SHEET No. RD-0015
					DESIGN MANAGER	D. JOHNSON		ISSUE A
					PROJECT MANAGER	R. GERSERKOWSKI		PART 1

LEGEND

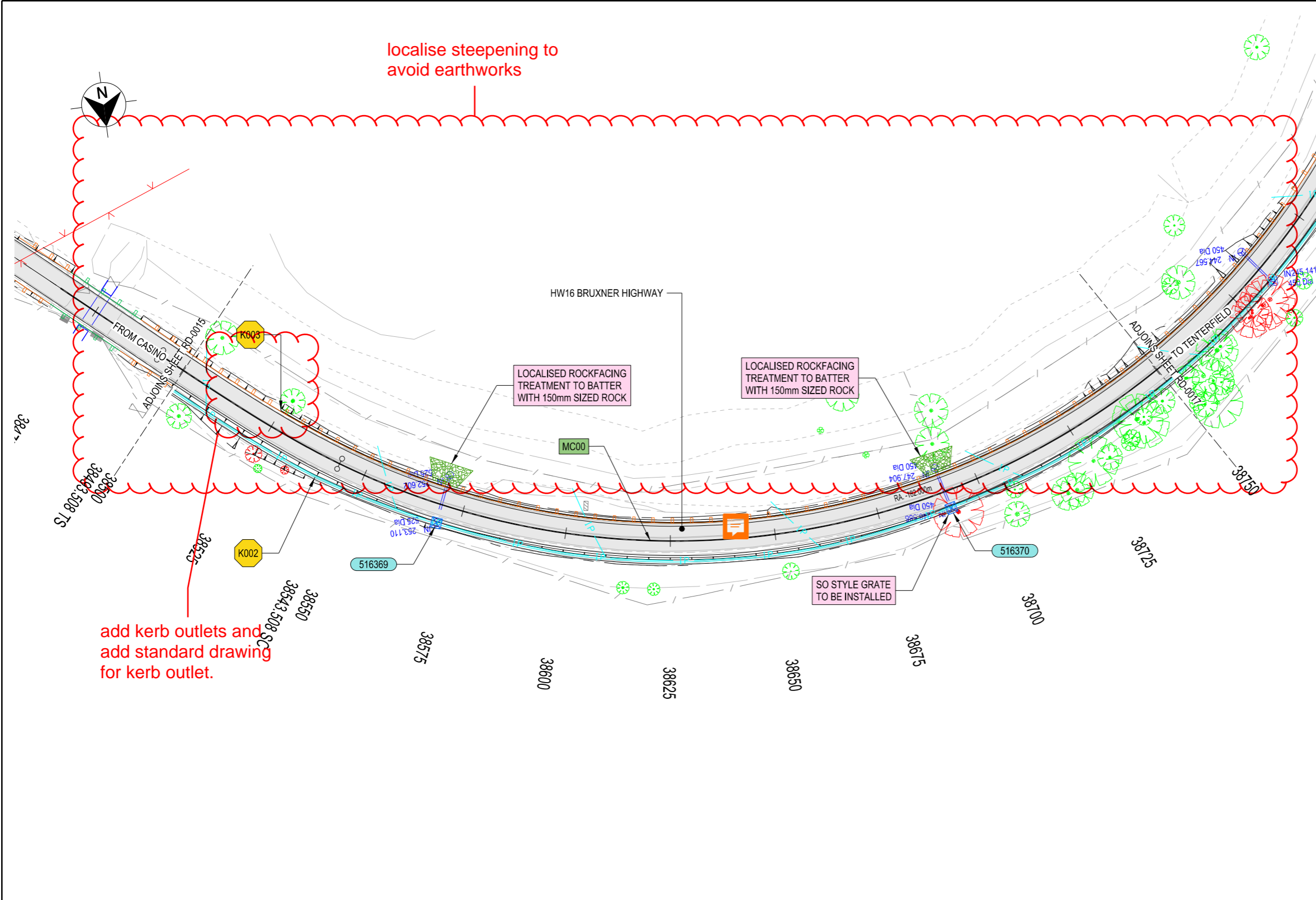
- MC00 CONTROL STRING LABEL
- PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
- EXISTING DRAINAGE PIT / INSPECTION PIT
- K001 KERB CALLOUT LABEL
- PROPOSED GUTTER FLOW LINE
- IP PROPOSED INTRA-PAVEMENT TRENCH DRAIN
- EXISTING PIT MODIFIED WITH INSITU RISER & SO GRATE
- INLET SUMP GULLY W/ INLET ARRANGEMENT
- TC TELEPHONE JUNCTION MARKER
- TDP TELECOMMUNICATIONS DISTRIBUTION PILLAR
- TELECOMMUNICATIONS CABLE
- EC UNDERGROUND POWER LINE
- OVERHEAD POWER LINE
- EP POWER POLE / STAY CABLE
- 🌳 TREE TO BE RETAINED
- 🌳 TREE TO BE REMOVED

NOTES

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NOT FOR CONSTRUCTION



DRAINAGE PIT SCHEDULE

ID	PIT LID TYPE	CHAINAGE	LOCATION	KERB INVERT (m AHD)	COMMENTS
516369	SO2 GRATE	38570	EASTBOUND LANE	254.786	RAISE PIT 460mm
516370	SO2 GRATE	38690	EASTBOUND LANE	250.028	RAISE PIT 600mm

KERB & CHANNEL SCHEDULE

KERB ID	TYPE	LOCATION	START CH	FINISH CH	LENGTH (m)
K002	SO KERB	RHS	38500	38985	485
K003	SM KERB	LHS	38525	38800	275

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:02 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN HW16 - BRUXNER HIGHWAY - MC00 - 38500 TO 38750	A3				
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	PREPARED FOR	TNSW REGISTRATION No.	PART
						0 10 20 30 40 SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	DS2020/00063	1
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	ISSUE STATUS	RD-0016	A
								DESIGN MANAGER	D. JOHNSON	EDMS No.	QA4331765	ISSUE
								PROJECT MANAGER	R. GERSERKOWSKI			

LEGEND

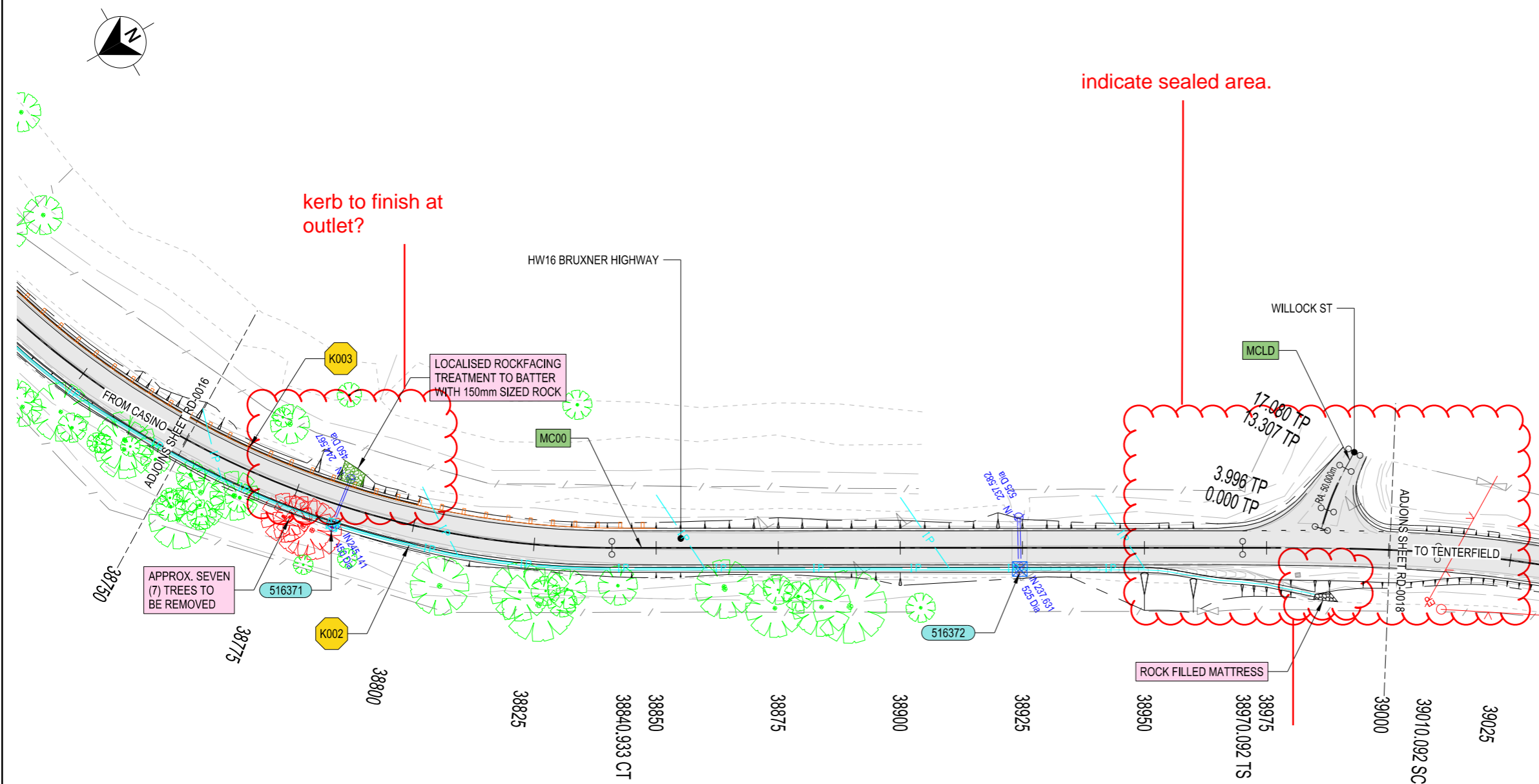
- MC00 CONTROL STRING LABEL
- PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
- EXISTING DRAINAGE PIT / INSPECTION PIT
- K001 KERB CALLOUT LABEL
- PROPOSED GUTTER FLOW LINE
- IP — PROPOSED INTRA-PAVEMENT TRENCH DRAIN
- EXISTING PIT MODIFIED WITH INSITU RISER & SO GRATE
- INLET SUMP GULLY W/ INLET ARRANGEMENT
- TC — TELEPHONE JUNCTION MARKER
- TDP — TELECOMMUNICATIONS DISTRIBUTION PILLAR
- TELECOMMUNICATIONS CABLE
- EC — UNDERGROUND POWER LINE
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- EP — POWER POLE / STAY CABLE
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- TREE TO BE REMOVED

NOTES

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DRAINAGE PIT SCHEDULE

ID	PIT LID TYPE	CHAINAGE	LOCATION	KERB INVERT (m AHD)	COMMENTS
516371	SO2 GRATE	38785	EASTBOUND LANE	246.755	RAISE PIT 490mm
516372	SO2 GRATE	38925	EASTBOUND LANE	238.983	RAISE PIT 60mm

KERB & CHANNEL SCHEDULE

KERB ID	TYPE	LOCATION	START CH	FINISH CH	LENGTH (m)
K002	SO KERB	RHS	38500	38985	485
K003	SM KERB	LHS	38525	38800	275

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:03 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN HW16 - BRUXNER HIGHWAY - MC00 - 38750 TO 39000	A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	
						SCALE 1:1000m CO-ORDINATE SYSTEM MGA ZONE 56 HEIGHT DATUM AHD	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	
							TNSW REGISTRATION No.	DS2020/00063	PART 1	
							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0017	ISSUE A

LEGEND

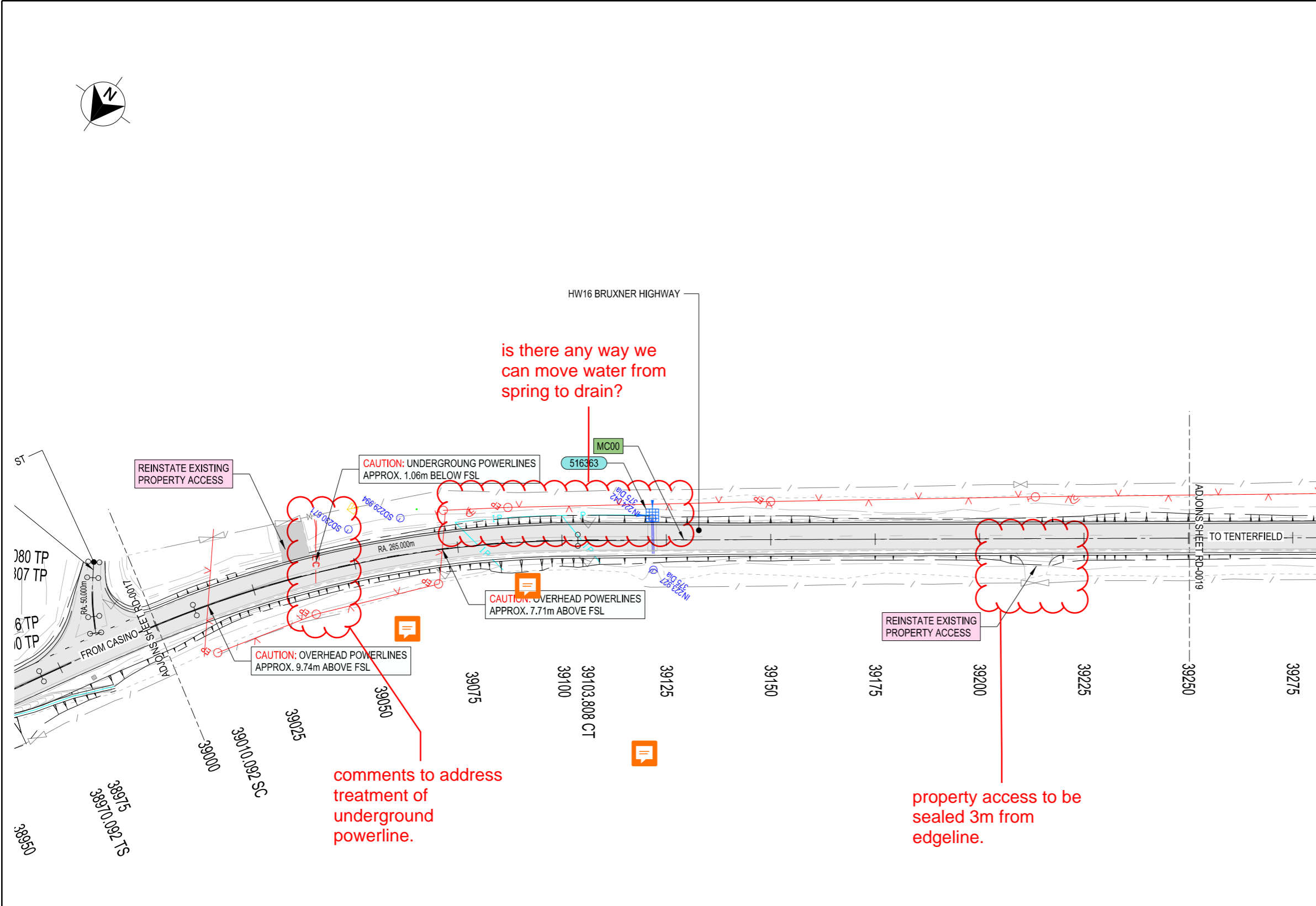
- MC00 CONTROL STRING LABEL
- PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- / — EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
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DRAINAGE PIT SCHEDULE

ID	PIT LID TYPE	CHAINAGE	LOCATION	KERB INVERT (m AHD)	COMMENTS
516373	2 INLET SUMP GULLY	39120	WESTBOUND LANE	225.519	RAISE PIT 275mm

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50mm ON A3 SIZE ORIGINAL

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:04 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN HW16 - BRUXNER HIGHWAY - MC00 - 39000 TO 39250	A3		
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 10 20 30 40 SCALE 1:1000m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI		
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0018	PART 1 ISSUE A

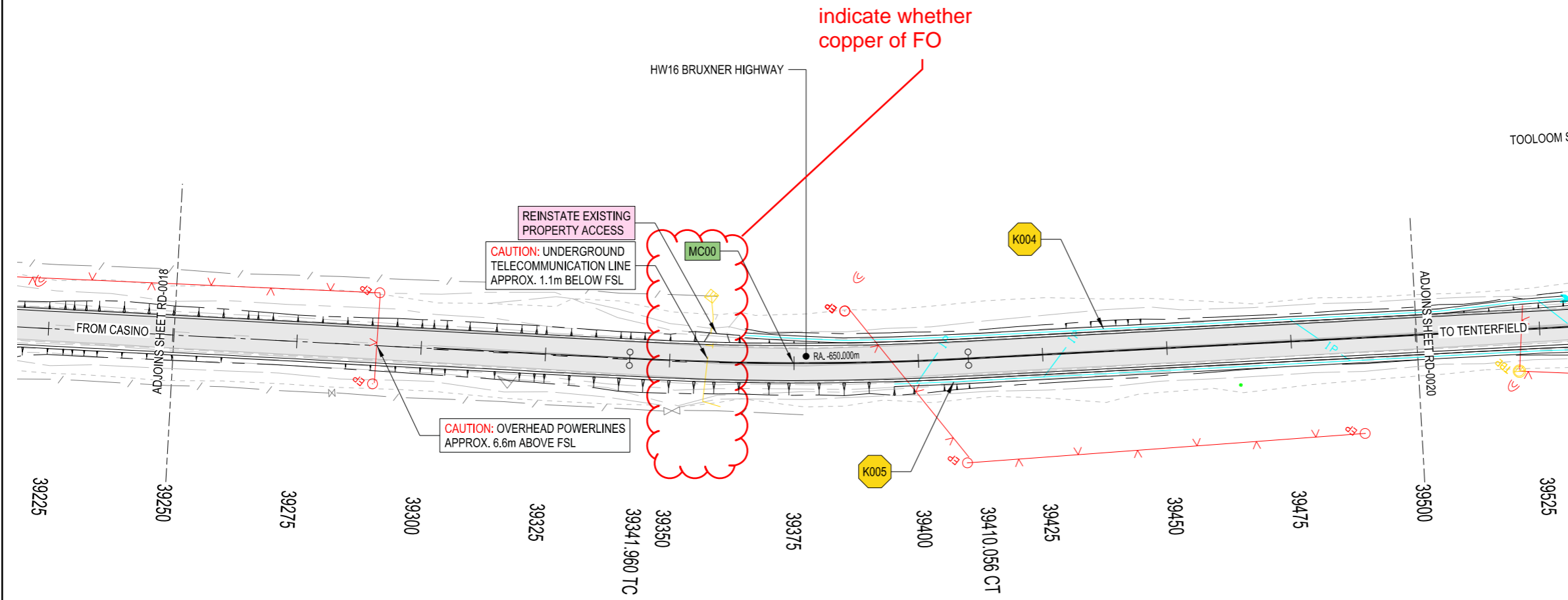


LEGEND

- MC00 — CONTROL STRING LABEL
- PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- / — EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
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- K001 — KERB CALLOUT LABEL
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NOTES

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KERB & CHANNEL SCHEDULE

KERB ID	TYPE	LOCATION	START CH	FINISH CH	LENGTH (m)
K004	SO KERB	LHS	39365	39535	170
K005	SO KERB	RHS	39395	39600	205

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:05 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO DETAIL PLAN HW16 - BRUXNER HIGHWAY - MC00 - 39250 TO 39500	A3
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	TNSW REGISTRATION No. DS2020/00063
				 SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	ISSUE STATUS DETAIL DESIGN
						DESIGN CHECK	D. JOHNSON	EDMS No. QA4331765
						DESIGN MANAGER	D. JOHNSON	SHEET No. RD-0019
						PROJECT MANAGER	R. GERSERKOWSKI	ISSUE A



DRAINAGE SCHEDULE

ID	TYPE	CHAINAGE	D/S PIPE INLET INVERT (m AHD)	D/S PIPE OUTLET INVERT (m AHD)	GRADE (%)	D/S PIPE DIA (mm)	D/S PIPE LENGTH (m)	D/S PIPE CLASS	INSTALLATION REQUIREMENTS
DS001	SRC PIPE	39565	195.481	194.503	-8.0	375	12.2	CLASS 4	SLOPED HEADWALLS AND SCOUR PROTECTION

Change to class 10?

check levels

Terminal flare in street? Sight distance? Widening required?

pit vs headwall?

add to drainage schedule. Also add notes to flush culvert.

LEGEND

- MC00 CONTROL STRING LABEL
- PROPOSED DESIGN
- PROPOSED SAFETY BARRIER
- EXISTING SIGNAGE
- EXISTING SAFETY BARRIER
- EXISTING PROPERTY FENCE
- EXISTING PROPERTY ACCESS GATE
- EXISTING PAVEMENT
- EXISTING DRAINAGE PIT / INSPECTION PIT
- K001 KERB CALLOUT LABEL
- PROPOSED GUTTER FLOW LINE
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NOTES

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DRAINAGE PIT SCHEDULE

ID	PIT LID TYPE	CHAINAGE	LOCATION	KERB INVERT (m AHD)	COMMENTS
PIT1	2 INLET SUMP GULLY	39605	EASTBOUND LANE	191.88	NEW PIT 600mm deep

KERB & CHANNEL SCHEDULE

KERB ID	TYPE	LOCATION	START CH	FINISH CH	LENGTH (m)
K004	SO KERB	LHS	39365	39535	170
K005	SO KERB	RHS	39395	39600	205

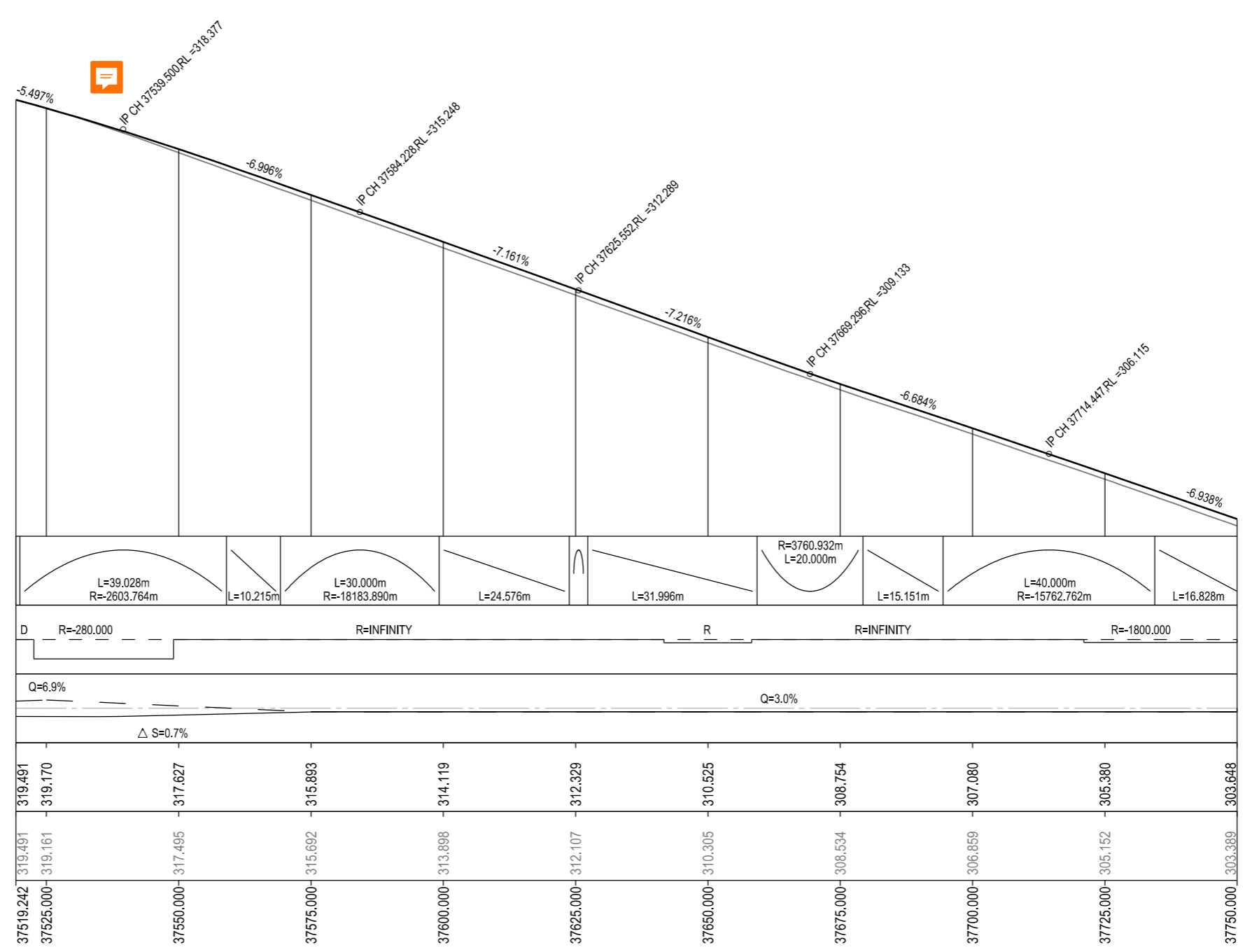
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME
						0 10 20 30 40 SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT
						CO-ORDINATE SYSTEM MGA ZONE 56	DESIGN CHECK	DRG CHECK	D. JOHNSON
						HEIGHT DATUM AHD	DESIGN CHECK	DESIGN	D. TIGHT
							DESIGN CHECK	DESIGN CHECK	D. JOHNSON
							DESIGN CHECK	DESIGN CHECK	D. JOHNSON
							PROJECT MANAGER	PROJECT MANAGER	R. GERSERKOWSKI
							PREPARED FOR	PREPARED FOR	REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
							TNSW REGISTRATION No.	ISSUE STATUS	DETAIL DESIGN
							EDMS No.	QA4331765	
							SHEET No.	RD-0020	
							ISSUE No.	1	
							ISSUE	A	

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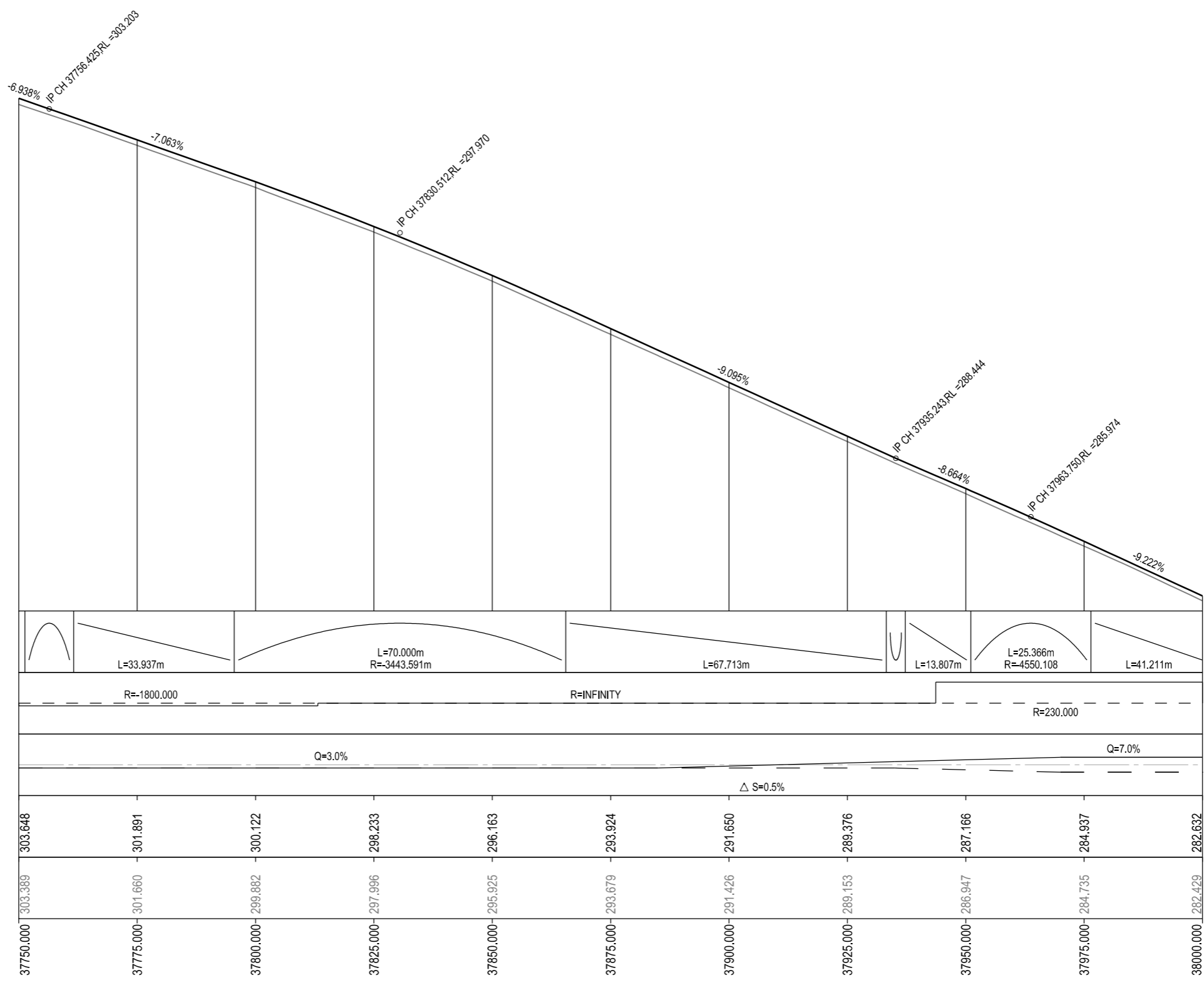


LONGITUDINAL SECTION - MC00

NOT FOR CONSTRUCTION

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EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0021	ISSUE A	

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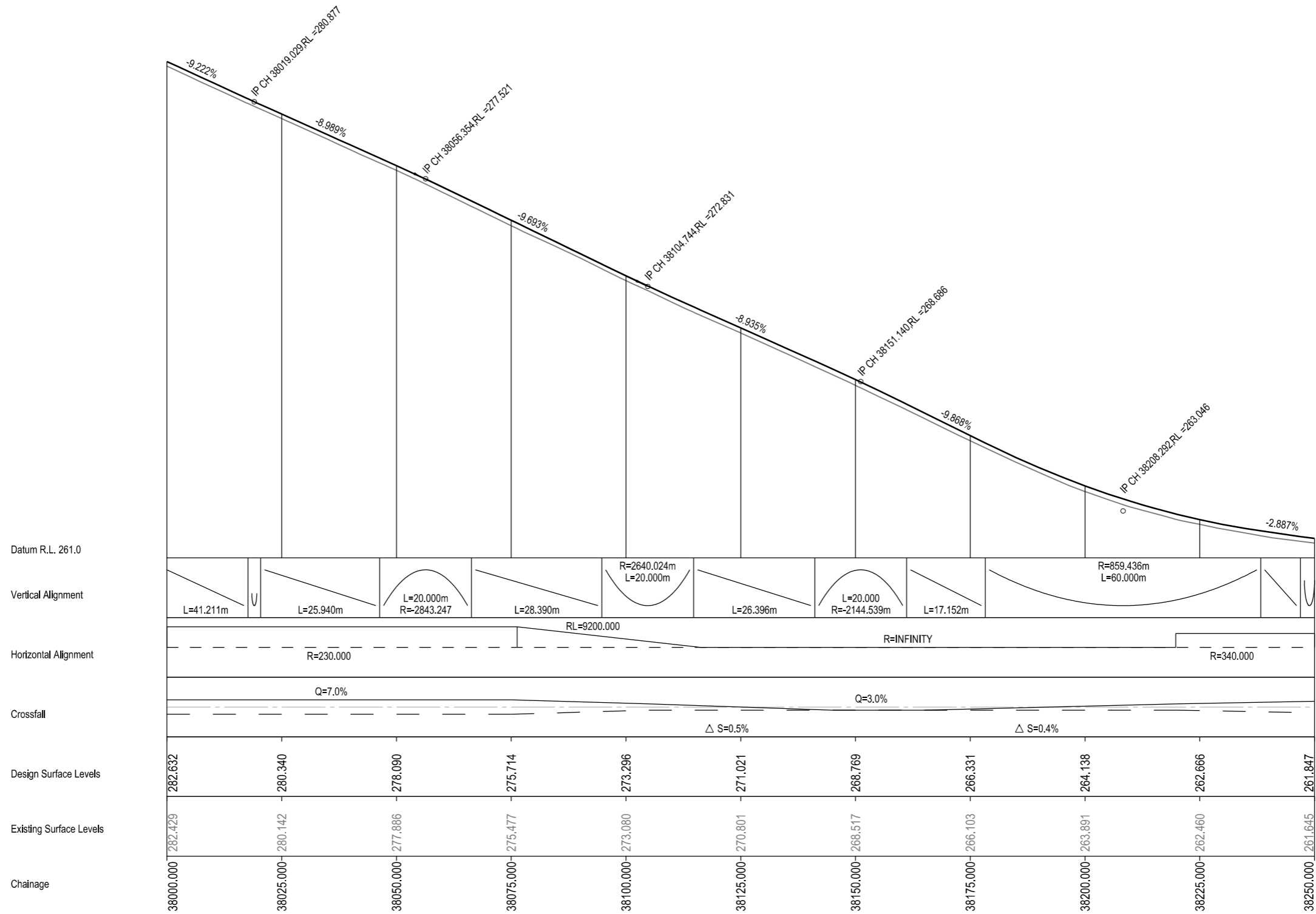
LONGITUDINAL SECTION - MC00

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn			DESIGN LOT CODE N2019070		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt			PLOT DATE / TIME 11/07/2022 1:12:08 PM		PLOT BY tightd		CLIENT Transport for NSW		KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 37750 TO 38000		A3
EXTERNAL REFERENCE FILES			REV	DATE	AMENDMENT / REVISION DESCRIPTION			WVR No.	APPROVAL		SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE	NAME
											0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m		TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		DRAWN	D. TIGHT
											CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		DRG CHECK	D. JOHNSON
													DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER		D. TIGHT	D. JOHNSON
													PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN			
													TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765
													SHEET No. RD-0022		ISSUE A	PART 1

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50mm ON A3 SIZE ORIGINAL



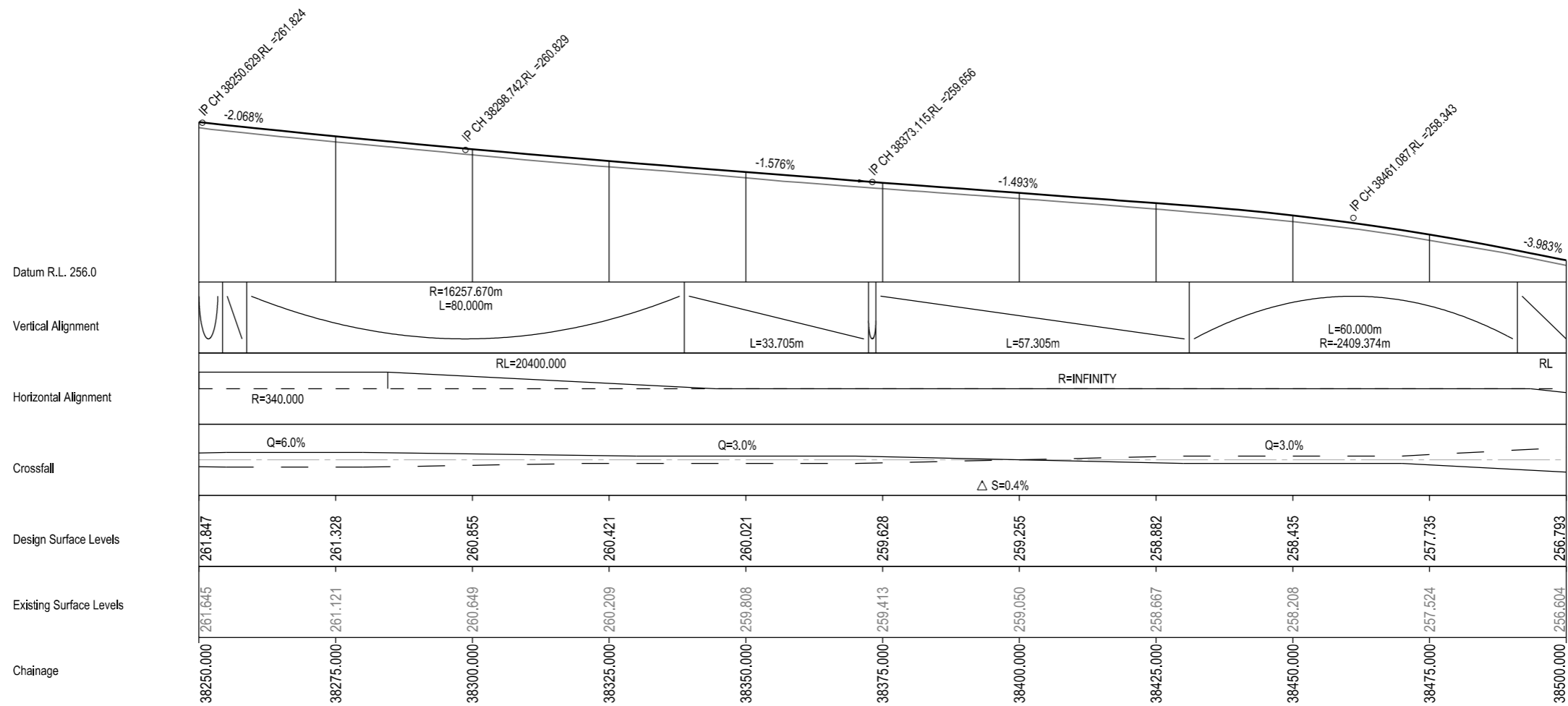
LONGITUDINAL SECTION - MC00

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn			DESIGN LOT CODE N2019070		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt			PLOT DATE / TIME 11/07/2022 1:12:08 PM		PLOT BY tightd		CLIENT Transport for NSW		KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38000 TO 38250		A3							
EXTERNAL REFERENCE FILES			REV	DATE	AMENDMENT / REVISION DESCRIPTION			WVR No.	APPROVAL		SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY										
											0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m		TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN										
											CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER		NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		PART 1
											ISSUE STATUS DETAIL DESIGN		EDMS No. QA4331765		SHEET No. RD-0023		ISSUE A						

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50mm ON A3 SIZE ORIGINAL



LONGITUDINAL SECTION - MC00

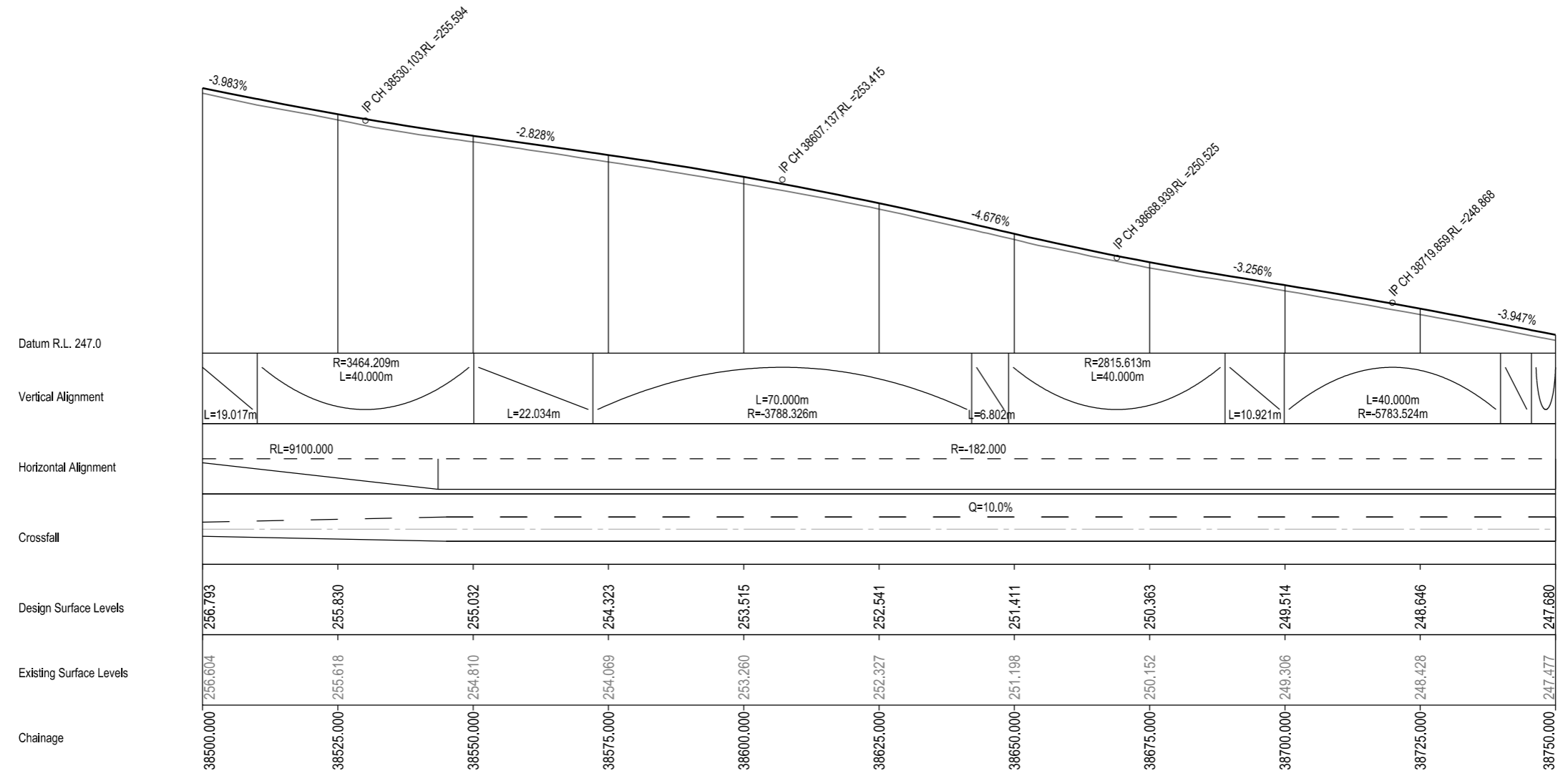
NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn			DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:09 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38250 TO 38500	PART 1						
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0024	ISSUE A

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50mm ON A3 SIZE ORIGINAL

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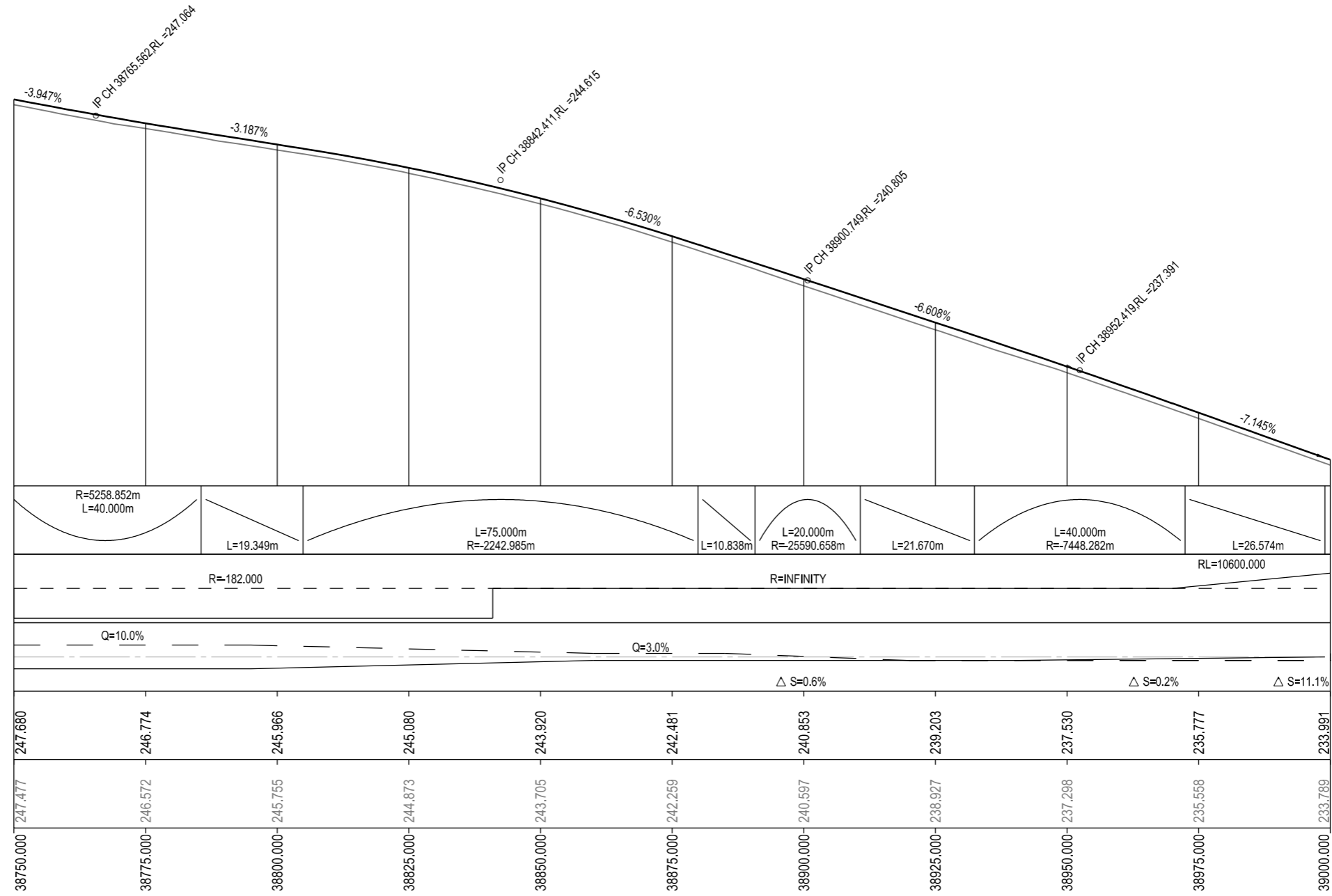


LONGITUDINAL SECTION - MC00

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:09 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38500 TO 38750	A3			
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD			ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0025	ISSUE A

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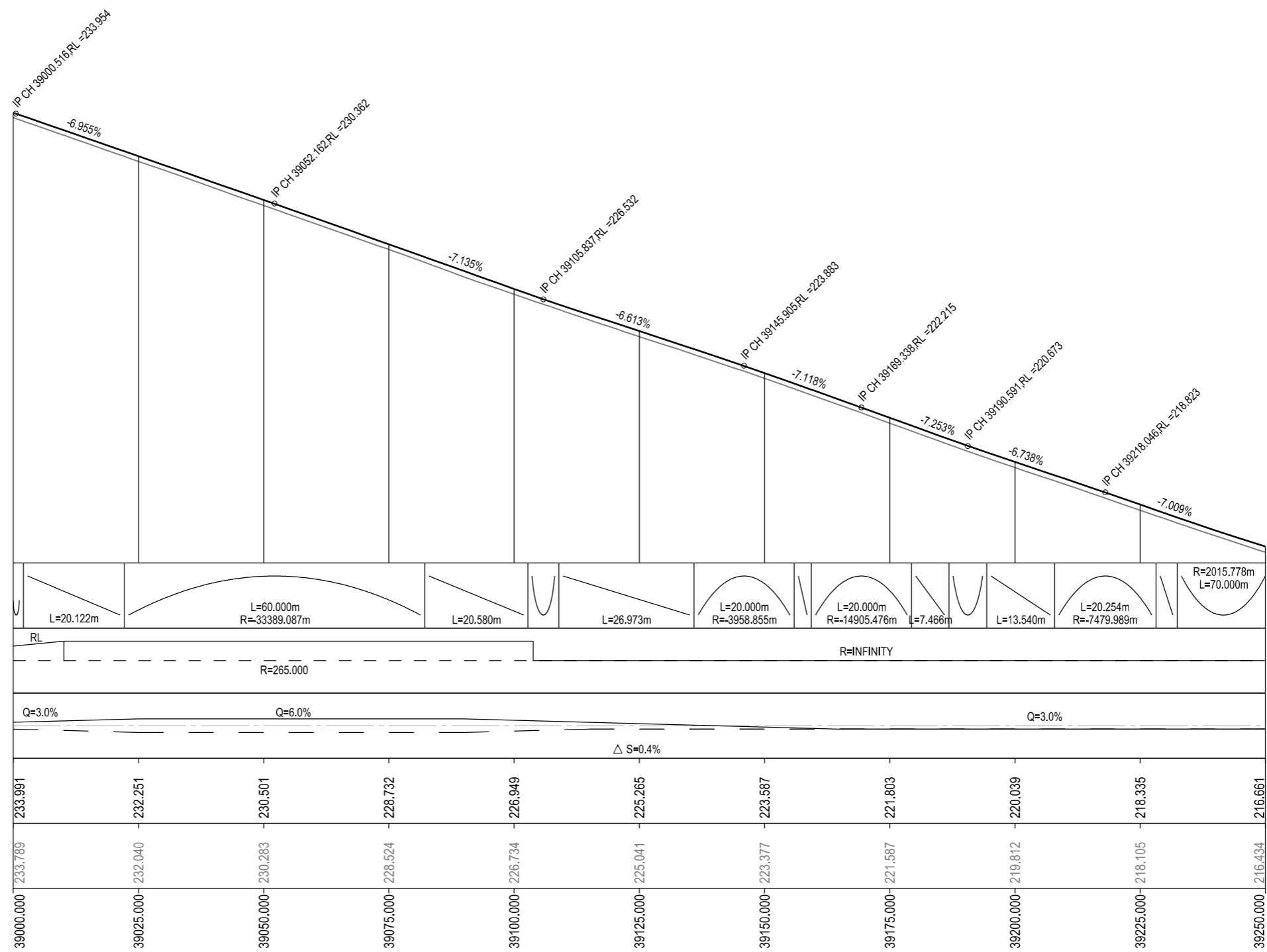


LONGITUDINAL SECTION - MC00

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:10 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 38750 TO 39000	A3
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No. APPROVAL	SCALES ON A3 SIZE DRAWING 0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
			CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK D. JOHNSON	DESIGN CHECK D. JOHNSON	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765
					DESIGN CHECK D. TIGHT	DESIGN CHECK D. JOHNSON		SHEET No. RD-0026
					DESIGN CHECK D. JOHNSON	DESIGN CHECK D. JOHNSON		ISSUE A
					PROJECT MANAGER R. GERSERKOWSKI	PROJECT MANAGER R. GERSERKOWSKI		© Transport for NSW

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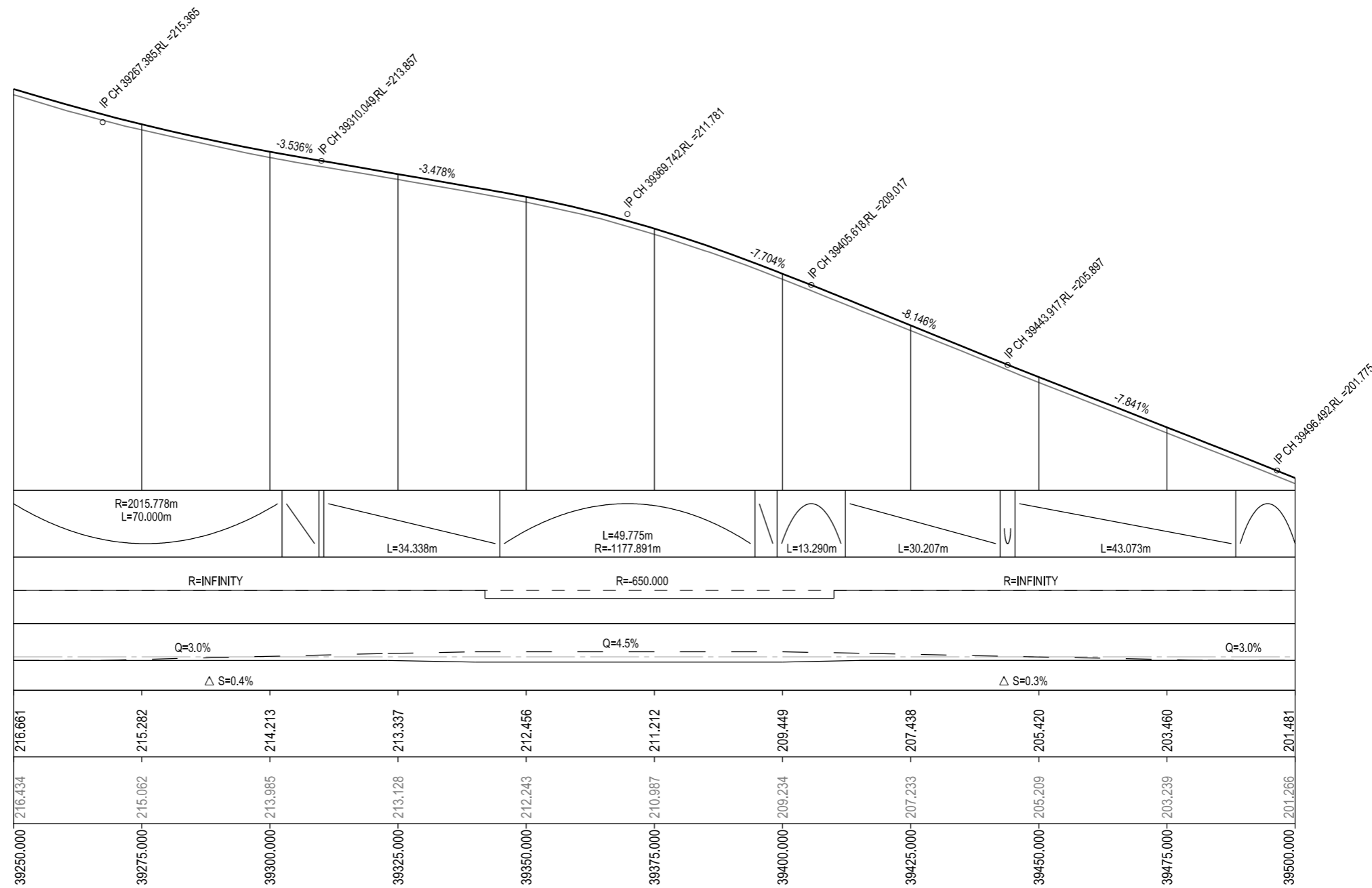


LONGITUDINAL SECTION - MC00

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:10 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39000 TO 39250	A3			
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD			ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0027	ISSUE A

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LONGITUDINAL SECTION - MC00

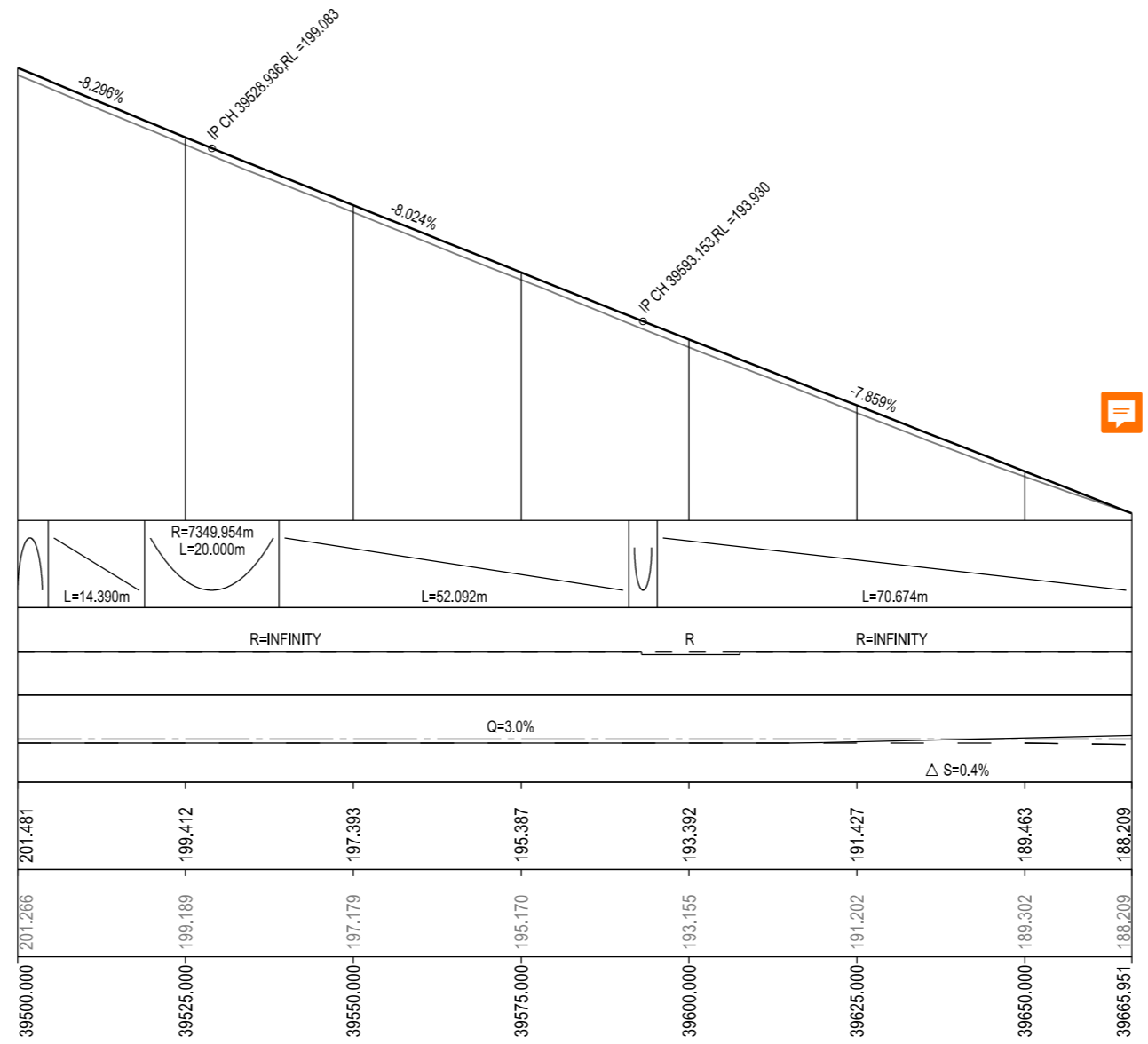
NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn			DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:10 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39250 TO 39500	A3					
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	PREPARED FOR	TNSW REGISTRATION No.	PART		
						0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	REGIONAL MAINTENANCE DELIVERY NORTHERN	DS2020/00063	1		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	PROJECT MANAGEMENT NORTHERN	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0028	ISSUE A
								DESIGN CHECK	D. JOHNSON					
								DESIGN MANAGER	D. JOHNSON					
								PROJECT MANAGER	R. GERSERKOWSKI					

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50mm ON A3 SIZE ORIGINAL

0 5 10 15 20 25 30 35 40 45

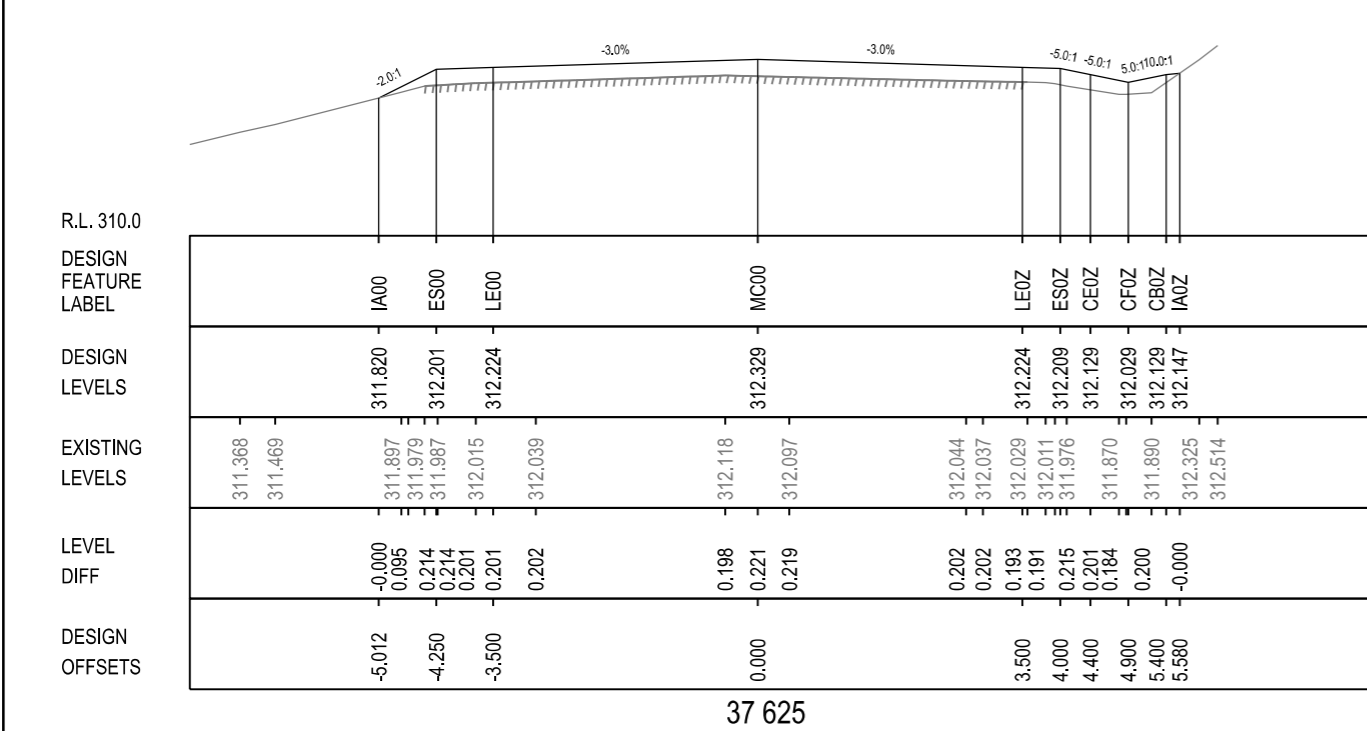


LONGITUDINAL SECTION - MC00

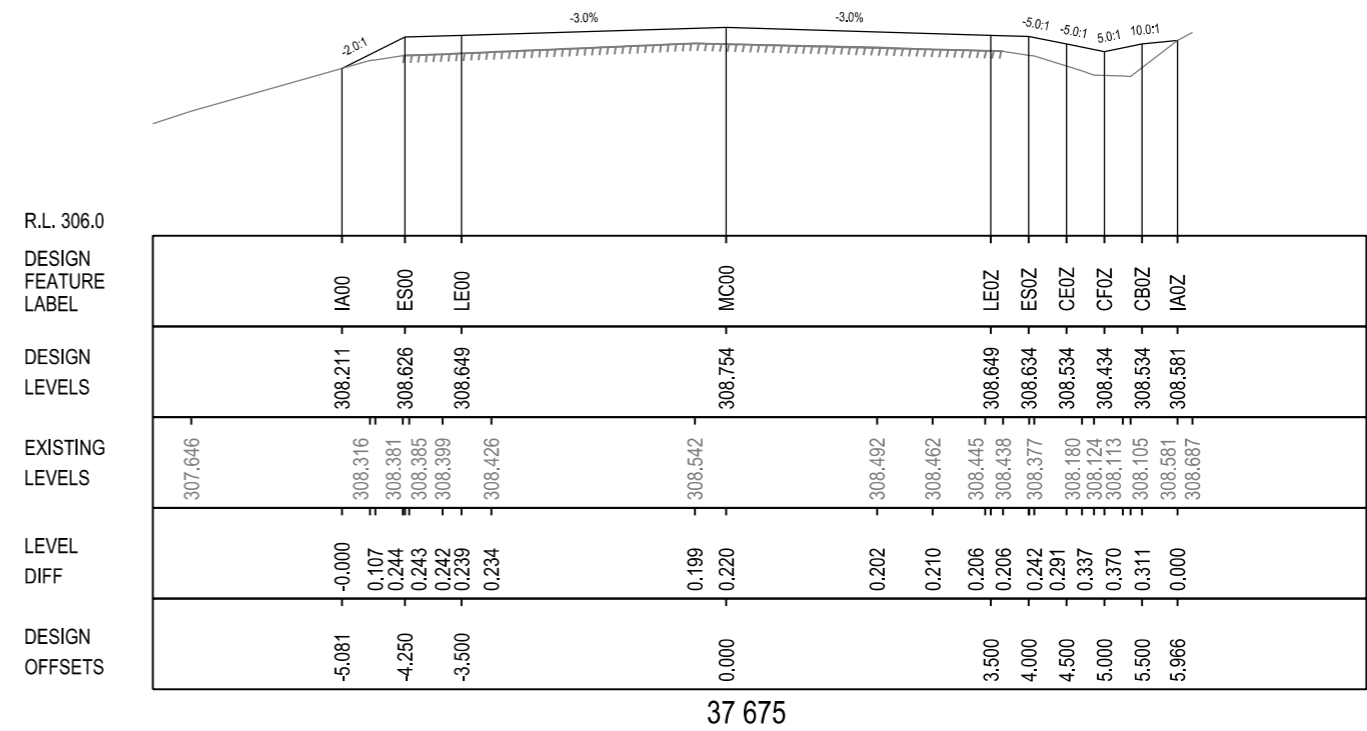
NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-03-RD.dgn			DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:11 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO LONGITUDINAL SECTION HW16 - BRUXNER HIGHWAY - MC00 - 39500 TO 39665	PART 1										
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 10 20 30 40 HORIZONTAL SCALE 1:1000m 0 2 4 6 8 VERTICAL SCALE 1:200m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RD-0029	ISSUE A				
				CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD				REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN		EDMS No. QA4331765		SHEET No. RD-0029		ISSUE A	

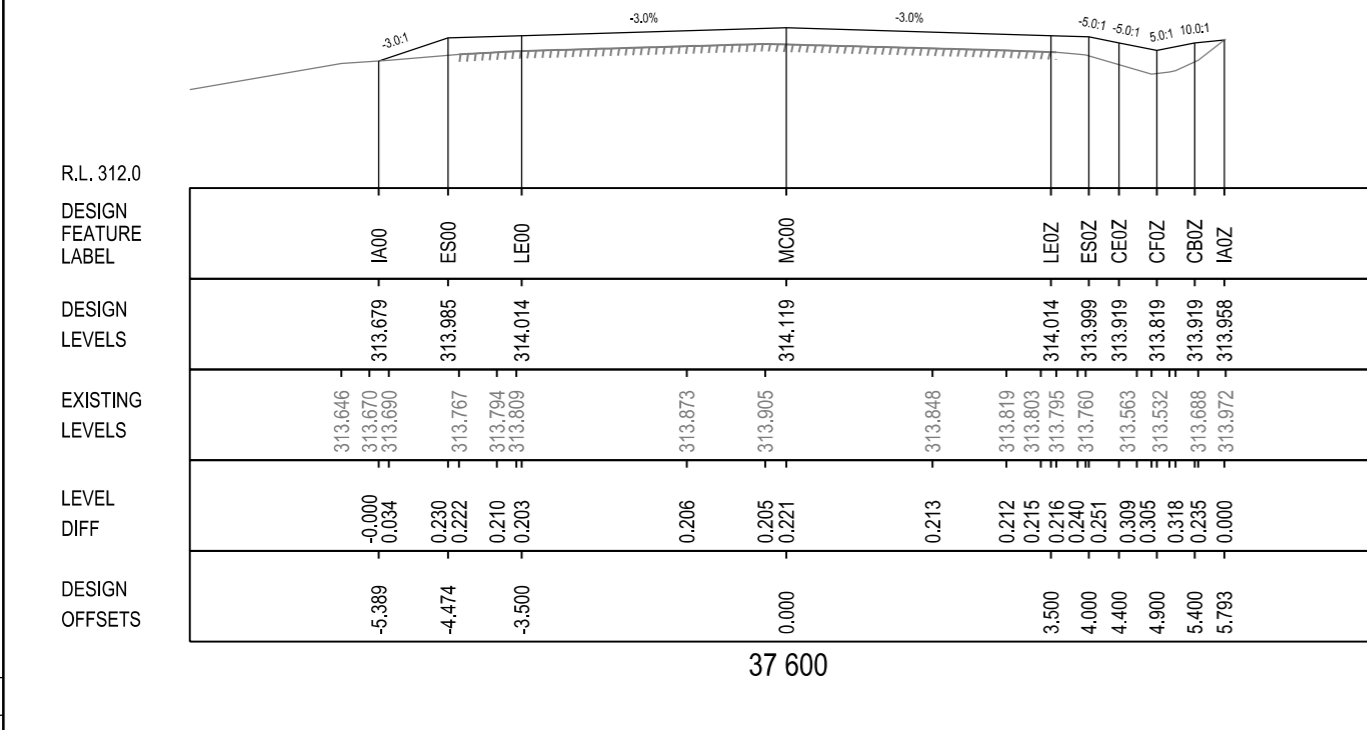
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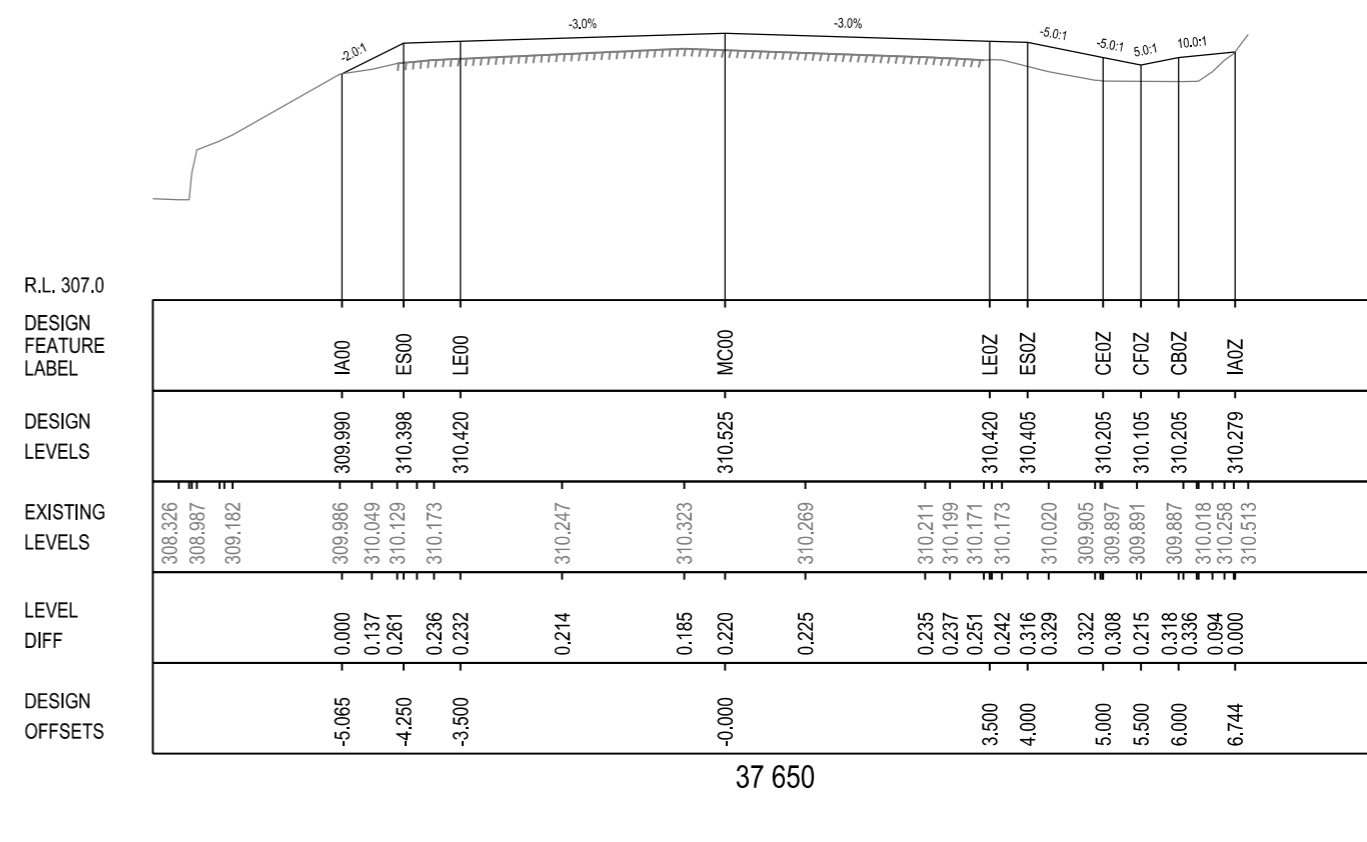
37 625



37 675



37 600



37 650

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_JFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:12 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 37 600 TO 37 675	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE
						0 1 2 3 4 SCALE 1:100m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	NAME
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DRAWN
								DRG CHECK
								DESIGN
								DESIGN CHECK
								DESIGN MANAGER
								PROJECT MANAGER
								PREPARED FOR
								REGIONAL MAINTENANCE DELIVERY NORTHERN
								PROJECT MANAGEMENT NORTHERN
								TNSW REGISTRATION No.
								DS2020/00063
								ISSUE STATUS
								DETAIL DESIGN
								EDMS No.
								QA4331765
								SHEET No.
								RC-0002
								ISSUE
								A

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50mm ON A3 SIZE ORIGINAL

R.L. 303.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	304.960	304.499	0.000	-4.835
ES00	305.253	304.592	0.111	-4.250
LE00	305.275	305.009	0.219	-3.500
MC00	305.380	305.014	0.205	-0.000
LE0Z	305.275	305.057	0.202	3.500
ES0Z	305.260	305.071	0.204	4.000
CE0Z	305.160	305.081	0.210	4.500
CF0Z	305.060	305.161	0.228	5.000
CB0Z	305.160	305.083	0.222	5.500
IA0Z	305.165	305.072	0.223	5.549

37 725

R.L. 299.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	301.418	300.955	-0.000	-4.940
ES00	301.763	301.051	0.009	-4.250
LE00	301.786	301.451	0.239	-3.500
MC00	301.891	301.517	0.237	-0.000
LE0Z	301.786	301.534	0.193	3.500
ES0Z	301.771	301.543	0.204	4.000
CE0Z	301.686	301.678	0.231	4.425
CF0Z	301.586	301.673	0.211	4.925
CB0Z	301.686	301.551	0.276	5.425
IA0Z	301.710	301.513	0.000	5.663

37 775

R.L. 305.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	306.577	306.296	-0.000	-4.999
ES00	306.952	306.382	0.134	-4.250
LE00	306.975	306.461	0.223	-3.500
MC00	307.080	306.716	0.211	0.000
LE0Z	306.975	306.747	0.208	3.500
ES0Z	306.960	306.753	0.203	4.000
CE0Z	306.860	306.762	0.220	4.500
CF0Z	306.760	306.785	0.231	5.000
CB0Z	306.860	306.869	0.233	5.500
IA0Z	306.907	306.777	0.234	5.971


37 700

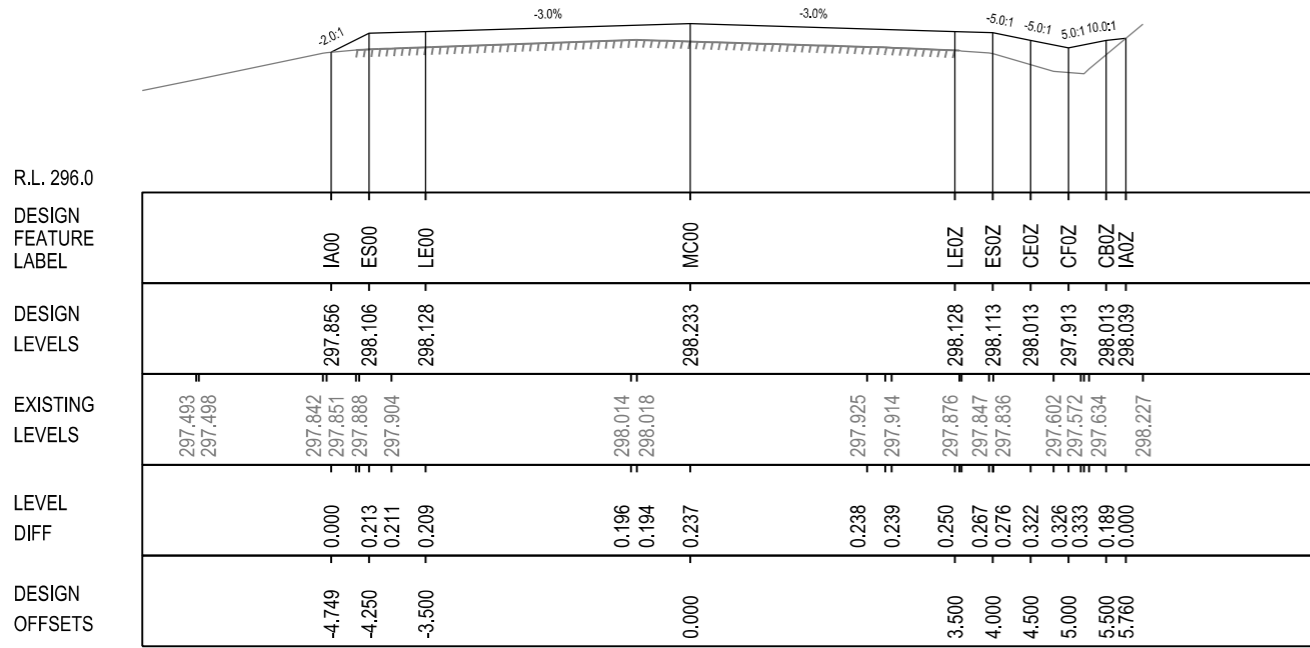
R.L. 301.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
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ES00	303.521	303.067	0.060	-4.250
LE00	303.543	303.267	0.210	-3.500
MC00	303.648	303.272	0.190	0.000
LE0Z	303.543	303.345	0.194	3.500
ES0Z	303.528	303.403	0.231	4.000
CE0Z	303.468	303.398	0.243	4.300
CF0Z	303.368	303.279	0.265	4.800
CB0Z	303.468	303.269	0.262	5.300
IA0Z	303.499	303.255	-0.000	5.602

37 750

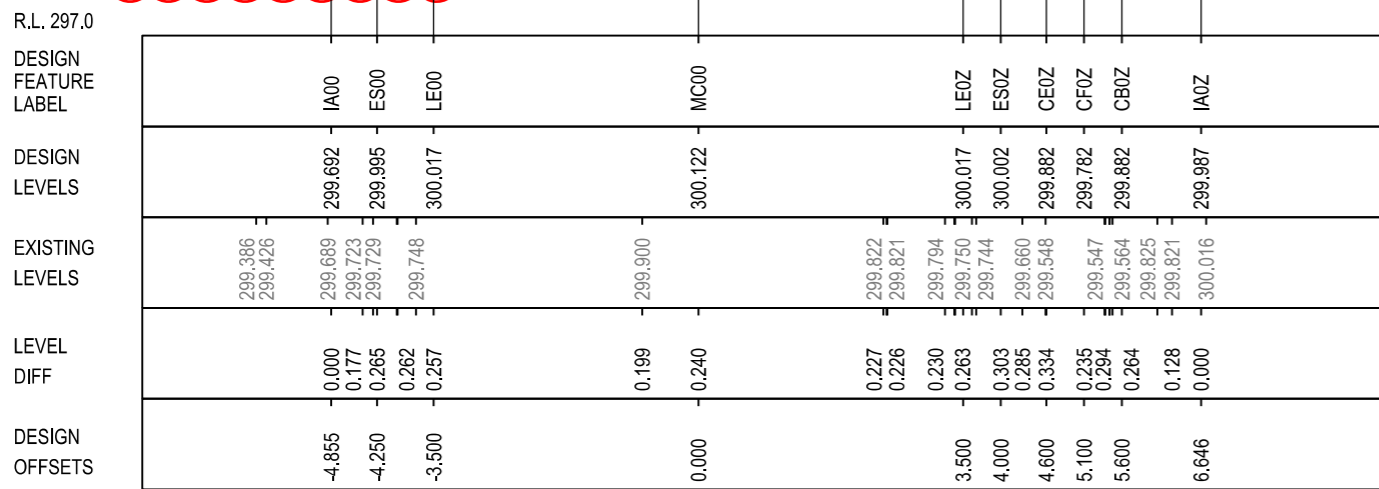
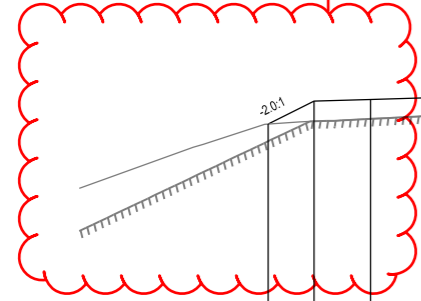
NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_JFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:12 PM	PLOT BY tightd	CLIENT  Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 37 700 TO 37 775	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI
								PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
								TNSW REGISTRATION No. DS2020/00063
								ISSUE STATUS DETAIL DESIGN
								EDMS No. QA4331765
								SHEET No. RC-0003
								PART 1 ISSUE A

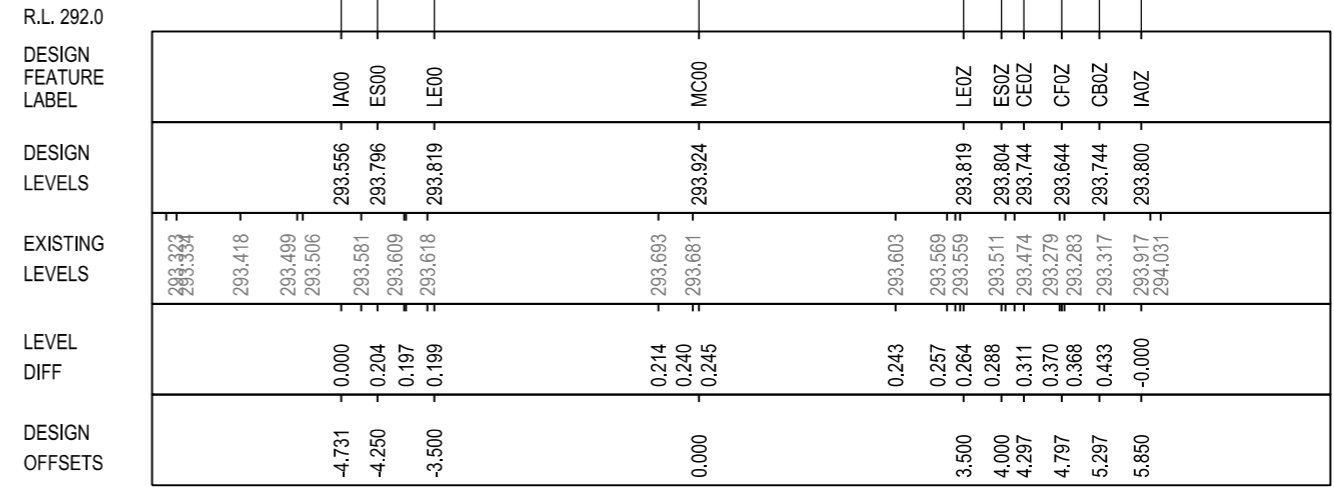


culvert outlet?

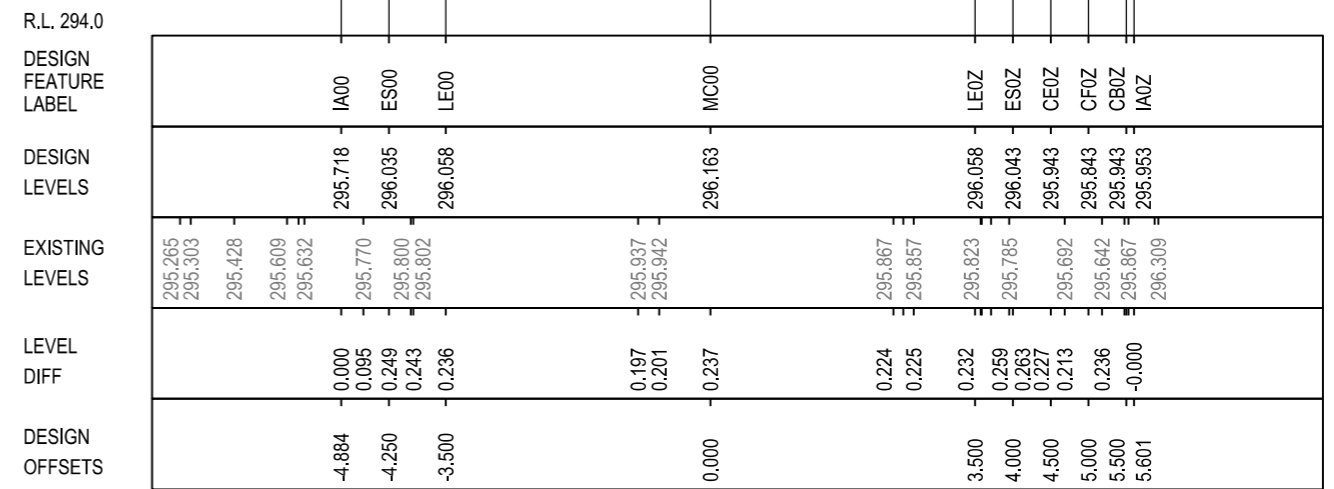
37 825



37 800



37 875



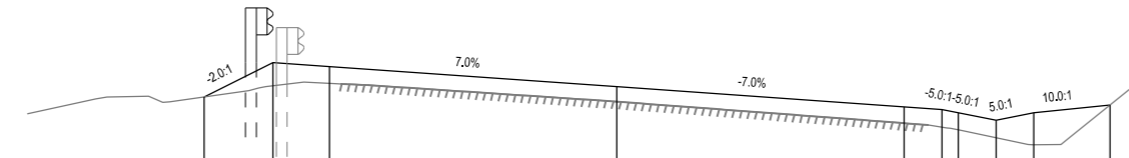
37 850

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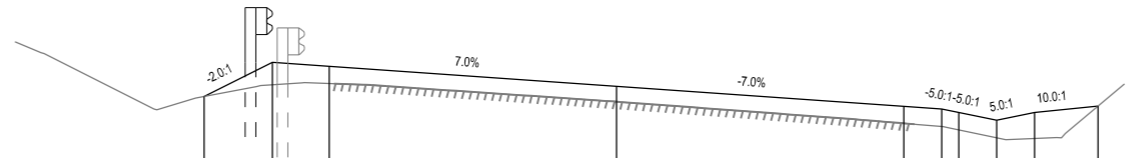
DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallanganee Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:13 PM	PLOT BY tightd	CLIENT NSW GOVERNMENT	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 37 800 TO 37 875	A3		
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE NAME DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI		
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0004	PART 1 ISSUE A

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DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	280.204	279.981	0.000	-5.459
ES00	280.658	280.179 280.203 280.214 280.140	0.213 0.305	-4.550
LE00	280.606	280.288 280.342 280.401 280.379 280.365 280.361	0.229 0.221 0.210	-3.800
MC00	280.340	280.167 280.147 280.127	0.198 0.198	-0.000
LE0Z	280.074	279.904	0.212	3.800
ES0Z	280.039	279.840	0.219	4.300
CE0Z	279.996	279.794 279.763	0.228 0.226	4.514
CF0Z	279.896	279.574	0.231	5.014
CB0Z	279.996	279.575	0.407	5.514
IA0Z	280.097	279.655 280.304	0.457 -0.000	6.520

38 025



DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	282.498	283.076 283.065	-0.000	-5.455
ES00	282.950	282.331 282.324 282.477	0.217 0.298 0.244	-4.550
LE00	282.898	282.627 282.641 282.678 282.682 282.668 282.654 282.640	0.227 0.226 0.212	-3.800
MC00	282.632	282.434 282.422	0.202 0.203	0.000
LE0Z	282.366	282.192 282.189	0.215 0.216	3.800
ES0Z	282.331	282.131	0.223	4.300
CE0Z	282.285	282.100 282.089	0.226 0.229	4.528
CF0Z	282.185	281.927	0.233	5.028
CB0Z	282.285	281.954	0.282 0.343	5.528
IA0Z	282.369	282.006 282.663	0.320 0.000	6.367

38 000

NOT FOR CONSTRUCTION

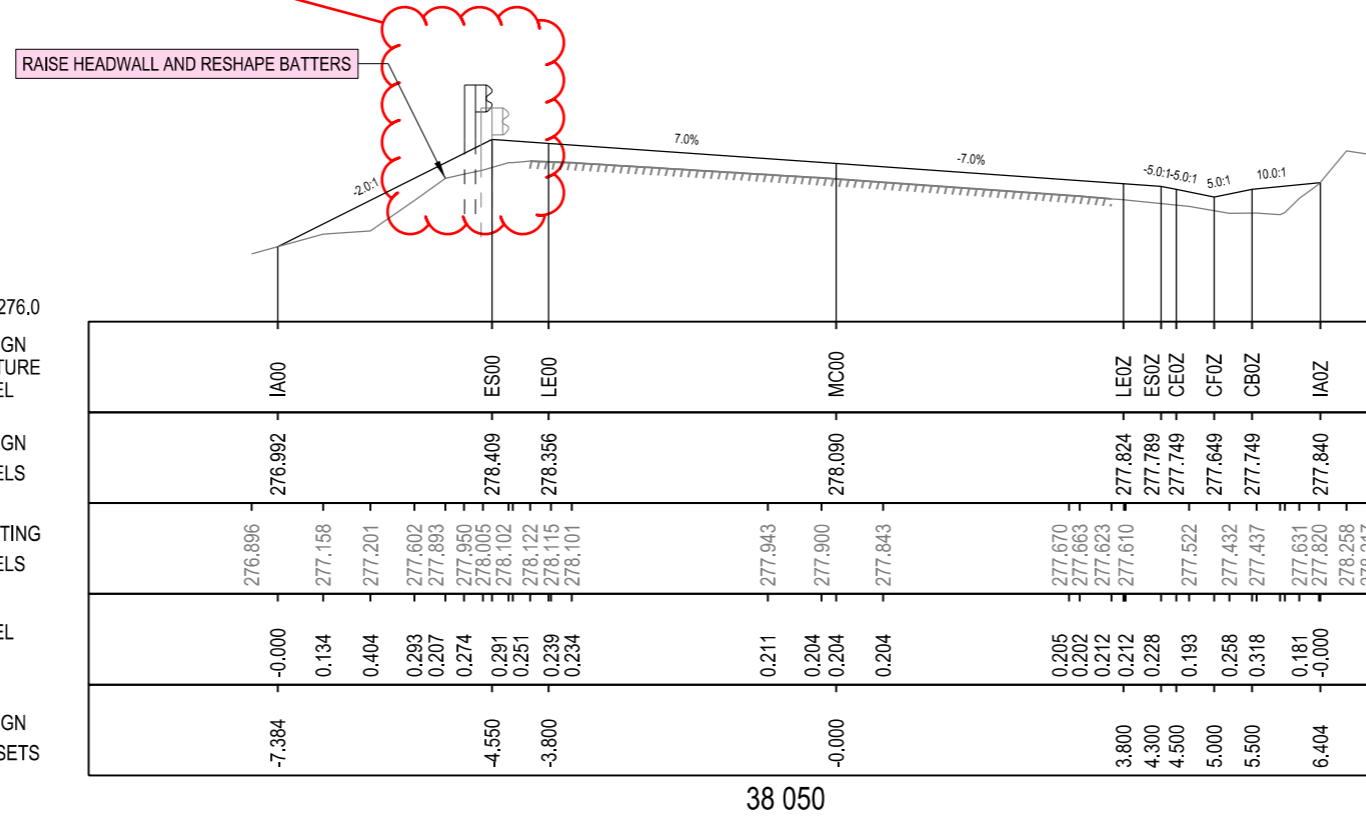
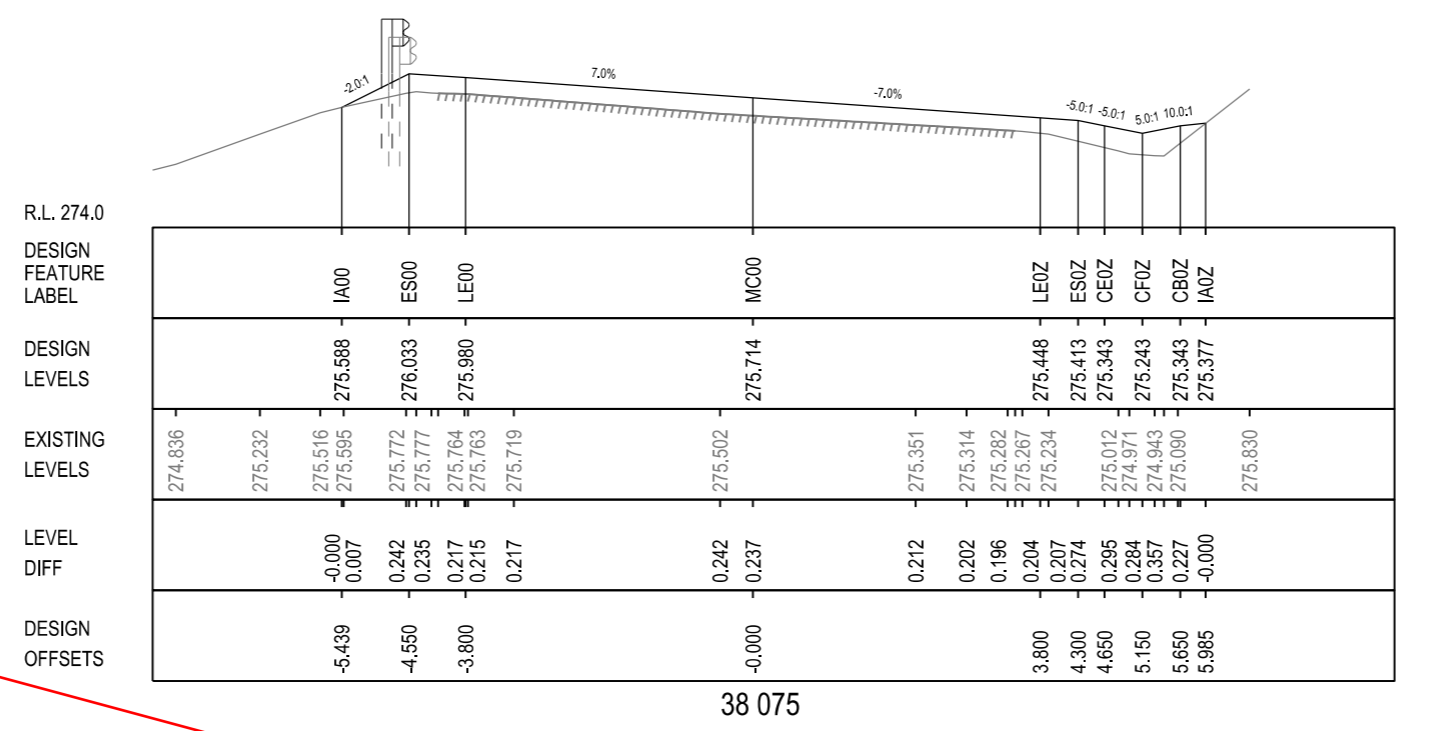
DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn			DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:14 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 000 TO 38 025	A3				
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	ISSUE A
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD			ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0006			

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50mm ON A3 SIZE ORIGINAL

0 5 10 15 20 25 30 35 40 45

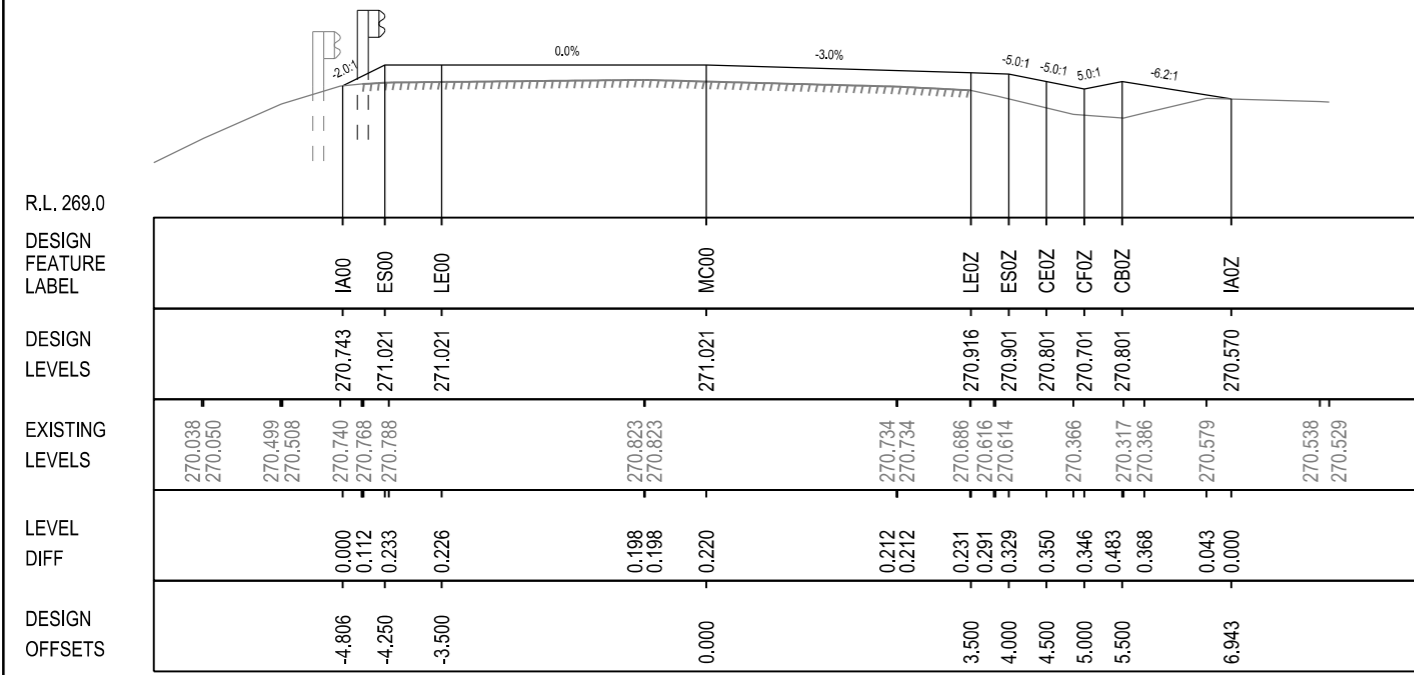
longer posts -
schedule of
quantities.



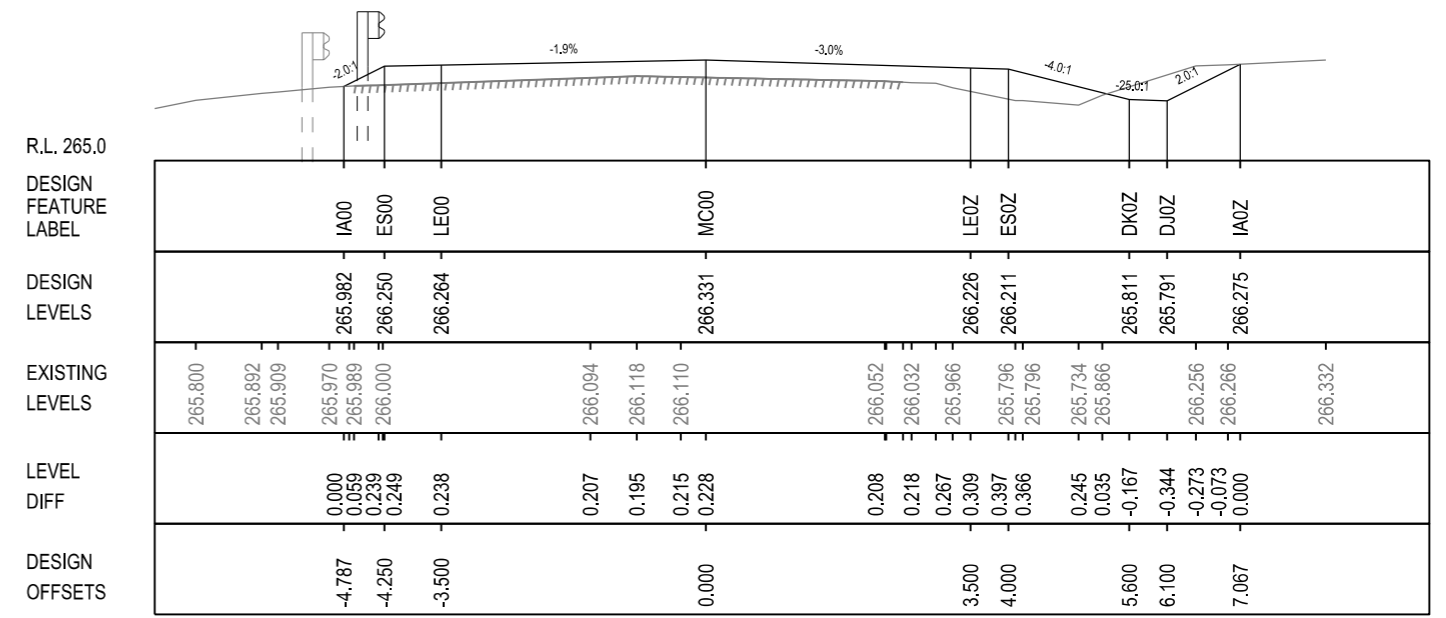
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE		
						0 1 2 3 4 SCALE 1:100m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN D. TIGHT		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DRG CHECK D. JOHNSON		
								DESIGN D. TIGHT		
								DESIGN CHECK D. JOHNSON		
								DESIGN MANAGER D. JOHNSON		
								PROJECT MANAGER R. GERSERKOWSKI		
NSW GOVERNMENT Transport for NSW							PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0007	ISSUE A

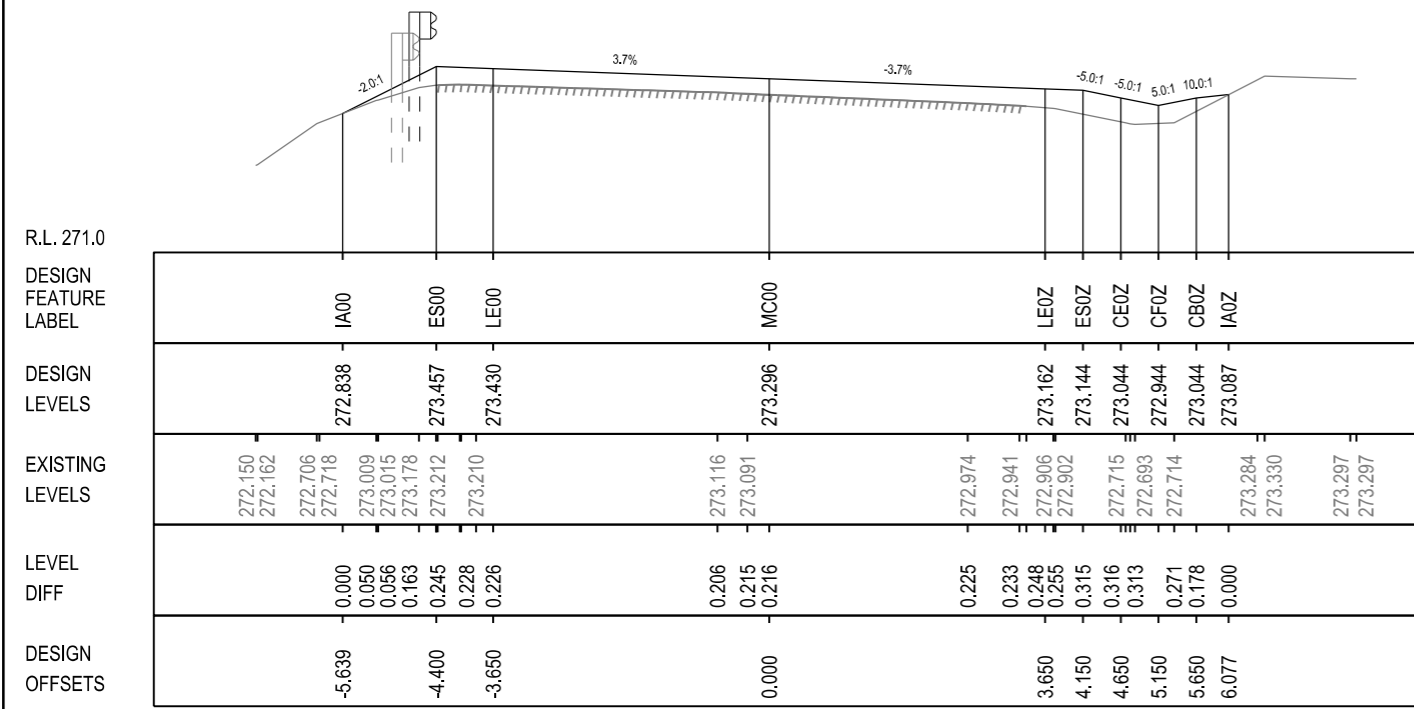
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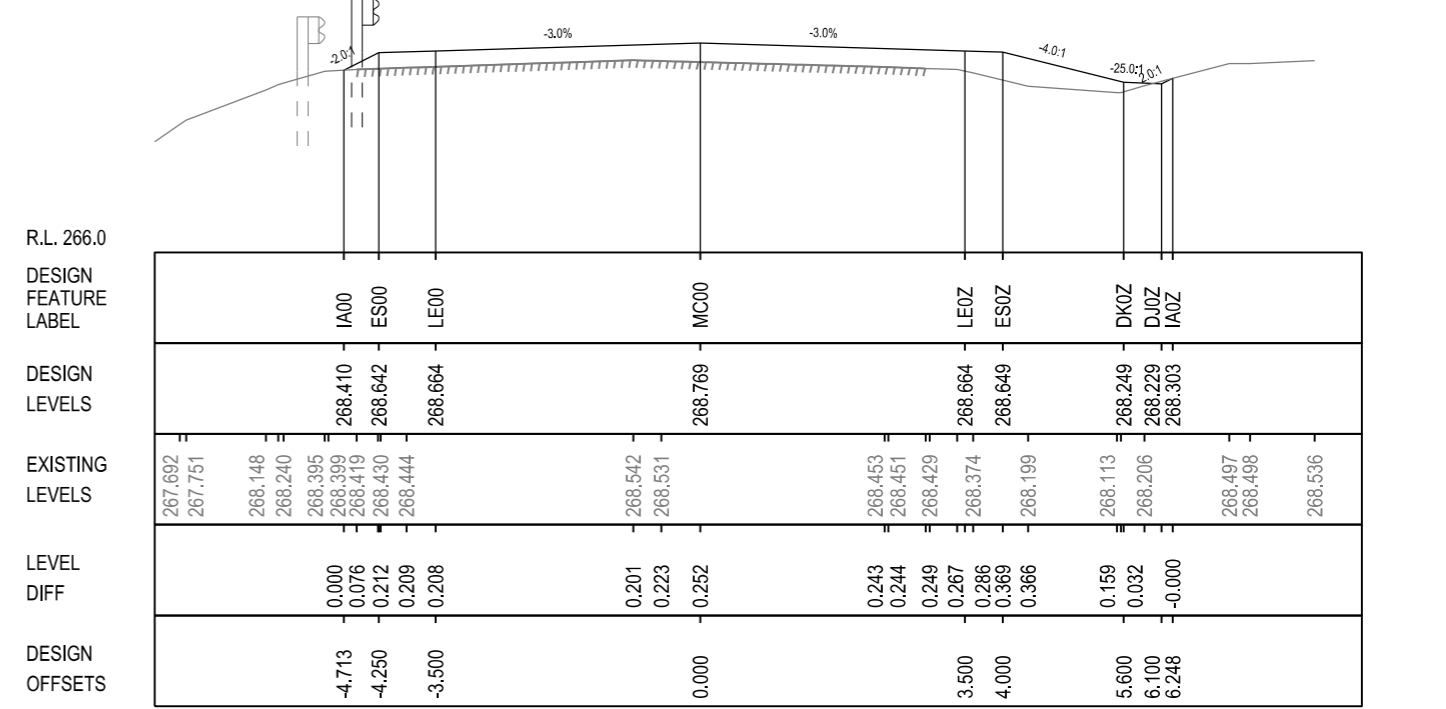
38 125



38 175



38 100



38 150

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallingane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallinganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:14 PM	PLOT BY tightd	CLIENT NSW GOVERNMENT	KYOGLÉ COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEÉ RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 100 TO 38 125	A3
EXTERNAL REFERENCE FILES		WVR No.	APPROVAL	DRAWINGS / DESIGN PREPARED BY TITLE NAME DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI		Transport for NSW	TNSW REGISTRATION No. DS2020/00063	PART 1
AMENDMENT / REVISION DESCRIPTION		SCALE 1:100m CO-ORDINATE SYSTEM MGA ZONE 56 HEIGHT DATUM AHD		TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN			REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	ISSUE STATUS DETAIL DESIGN EDMS No. QA4331765 SHEET No. RC-0008 ISSUE A

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50mm ON A3 SIZE ORIGINAL

R.L. 260.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	262.340	261.608	-0.000	-5.407
ES00	262.819	261.789	0.023	-4.450
LE00	262.793	262.149	0.163	-3.700
MC00	262.666	262.384	0.250	-0.000
LE0Z	262.639	262.501	0.217	3.700
ES0Z	262.522	262.562	0.045	4.200
DK0Z	262.122	262.323	-0.201	5.800
DJ0Z	262.102	262.280	-0.178	6.300
IA0Z	262.245	262.187	0.058	6.585
		262.424		
		262.491		
		262.529		
		262.585		
		262.586		
		262.627		
		262.194		
		262.274		

38 225

R.L. 259.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	261.133	260.373	-0.000	-5.375
ES00	261.595	260.405	0.145	-4.450
LE00	261.550	261.033	0.296	-3.700
MC00	261.328	261.262	0.255	0.000
LE0Z	261.106	261.172	-0.066	3.700
ES0Z	261.076	261.167	-0.091	4.200
IA0Z	260.145	260.987	-0.842	6.061
		260.961		
		260.961		
		260.868		
		260.796		
		260.790		
		259.884		

38 275

R.L. 262.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	263.820	263.586	0.000	-5.024
ES00	264.174	263.741	0.090	-4.317
LE00	264.167	263.777	0.277	-3.567
MC00	264.138	263.848	0.274	0.000
LE0Z	264.031	263.894	0.278	3.567
ES0Z	264.016	263.899	0.280	4.067
DK0Z	263.616	263.885	-0.269	5.667
DJ0Z	263.596	263.922	-0.326	6.167
IA0Z	264.330	263.992	0.338	7.634
		263.892		
		263.922		
		263.858		
		263.846		
		263.822		
		263.754		
		263.531		
		263.508		
		263.632		
		264.112		
		264.148		
		264.330		

38 200

R.L. 259.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	261.610	261.401	0.000	-5.419
ES00	262.095	261.573	0.174	-4.450
LE00	262.053	261.741	0.286	-3.700
MC00	261.847	261.841	0.006	0.000
LE0Z	261.641	261.836	-0.195	3.700
ES0Z	261.613	261.709	-0.096	4.200
IA0Z	260.963	261.684	-0.721	6.171
		261.654		
		261.508		
		261.488		
		261.457		
		261.348		
		261.095		
		260.839		

38 250

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_JFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:15 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 150 TO 38 200	A3			
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE NAME DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		ISSUE STATUS DETAIL DESIGN		EDMS No. QA4331765	SHEET No. RC-0009	ISSUE A			

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50mm ON A3 SIZE ORIGINAL

R.L. 258.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	259.876	259.621 259.651 259.686	-0.000	-5.619
ES00	260.561	260.080 260.087	0.109 0.124	-4.250
LE00	260.536	260.278 260.285	0.318 0.269	-3.500
MC00	260.421	260.332 260.320	0.201 0.199	-0.000
LE0Z	260.316	260.096 260.080	0.249 0.252	3.500
ES0Z	260.301	260.057 259.963	0.268 0.349	4.000
IA0Z	259.305	259.944 259.364 259.305	0.434 0.081 0.021	5.991

38 325

R.L. 257.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	259.454	259.516 259.496	-0.000	-5.099
ES00	259.728	259.474 259.325	0.223	-4.000
LE00	259.716	259.388 259.411	0.241 0.321	-3.500
MC00	259.628	259.470 259.475	0.286 0.237	0.000
LE0Z	259.541	259.457	0.208	3.500
ES0Z	259.528	259.415 259.369	0.215 0.216	4.000
IA0Z	258.766	259.324 259.307 259.257 259.197	0.225 0.260 0.334 0.362	5.524

38 375

R.L. 259.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	259.860	259.860	0.092	-6.721
ES00	261.062	260.597 260.622	0.073 0.083	-4.317
LE00	261.026	260.724 260.732	0.275 0.316	-3.567
MC00	260.855	260.809 260.803	0.222 0.222	-0.000
LE0Z	260.695	260.680 260.661	0.203 0.206	3.567
ES0Z	260.672	260.499 260.473	0.235 0.248	4.067
IA0Z	259.842	260.459 260.359 260.300	0.257 0.333 0.424	5.727

38 300

R.L. 258.0

DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	259.577	259.655 259.603	0.000 0.081	-6.255
ES00	260.141	259.568 259.726	0.214 0.263	-4.000
LE00	260.126	259.783 259.822	0.307 0.222	-3.500
MC00	260.021	259.906 259.911	0.222 0.210	0.000
LE0Z	259.916	259.869	0.217	3.500
ES0Z	259.901	259.814 259.772	0.212 0.213	4.000
IA0Z	259.295	259.708 259.697 259.650 259.610	0.221 0.226 0.264 0.329	5.212

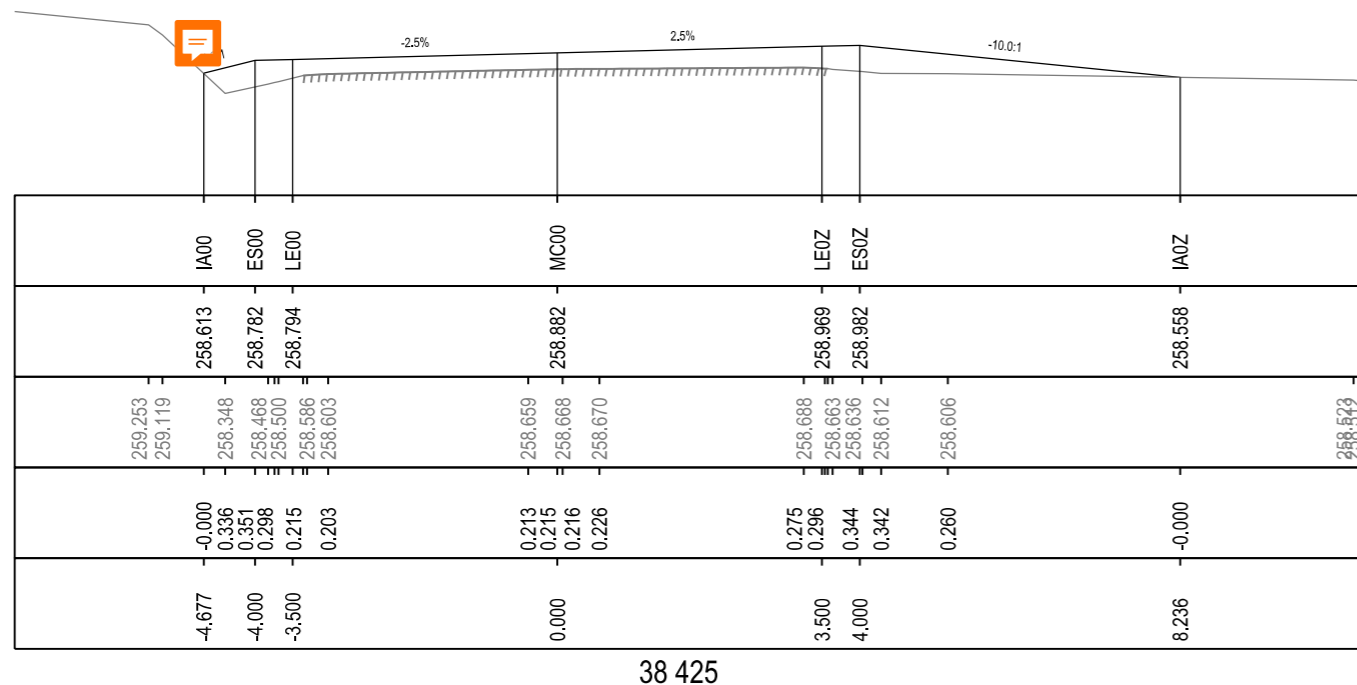
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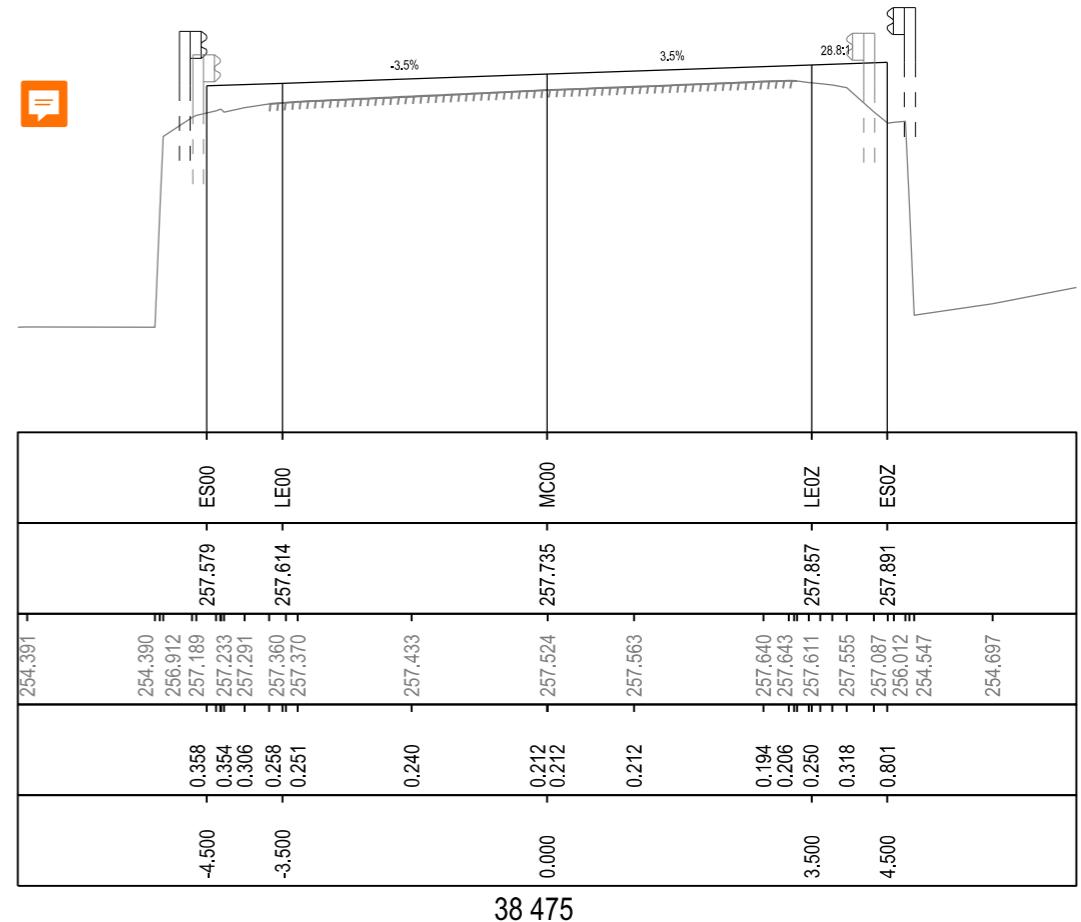
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
						TNSW REGISTRATION No. DS2020/00063	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765
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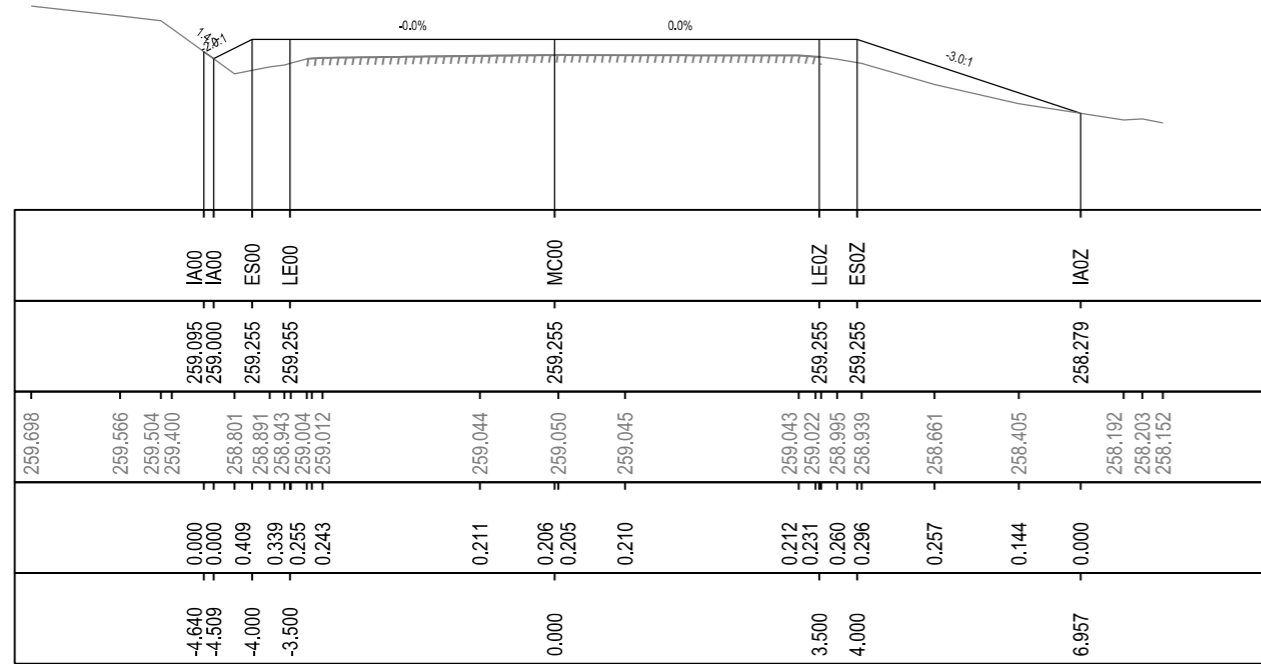
50mm ON A3 SIZE ORIGINAL



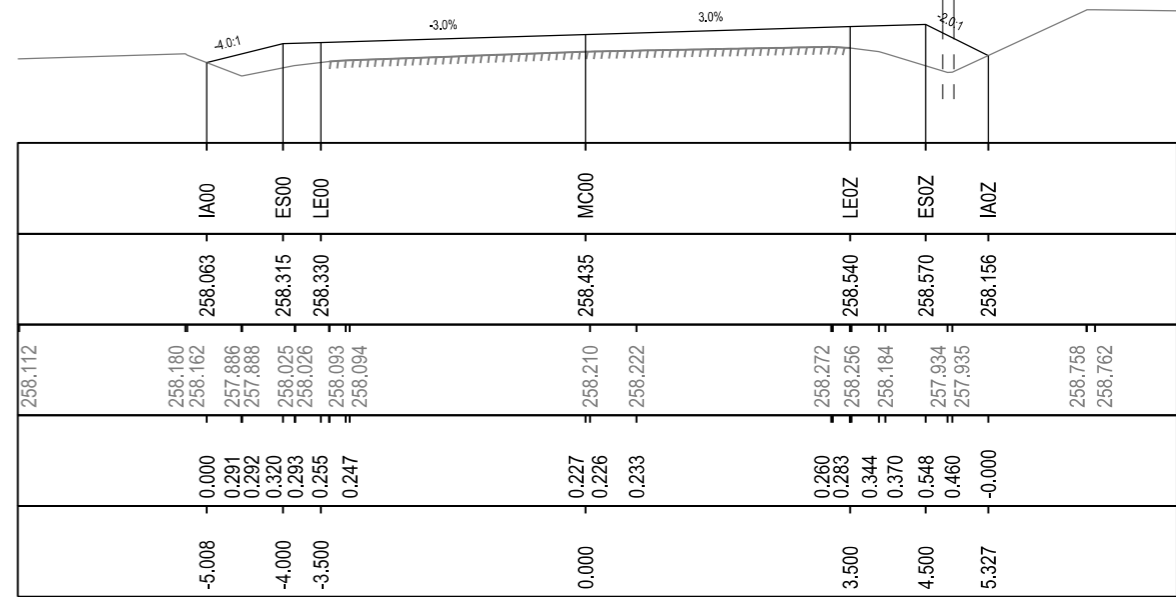
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38 475



38 400



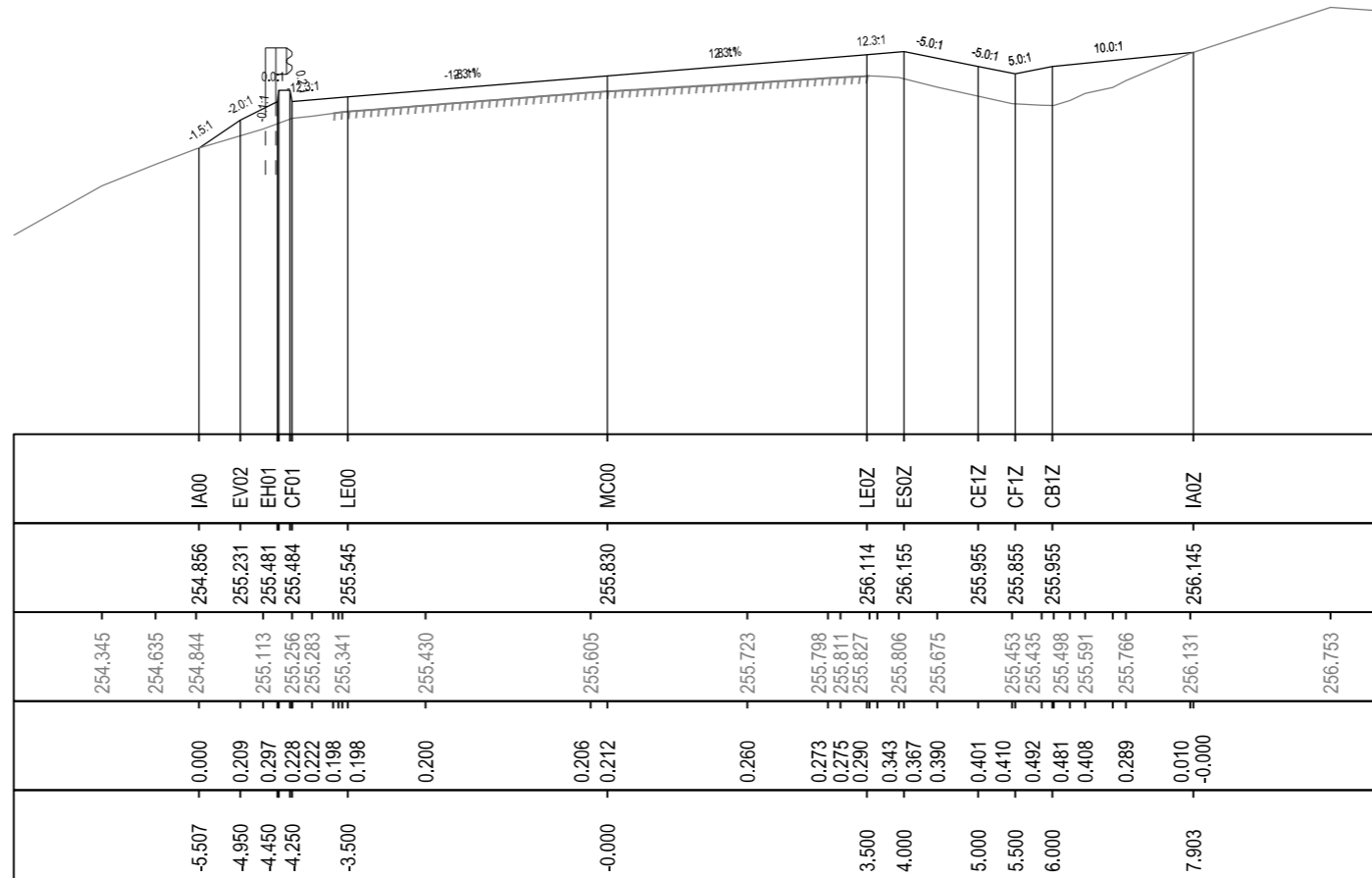
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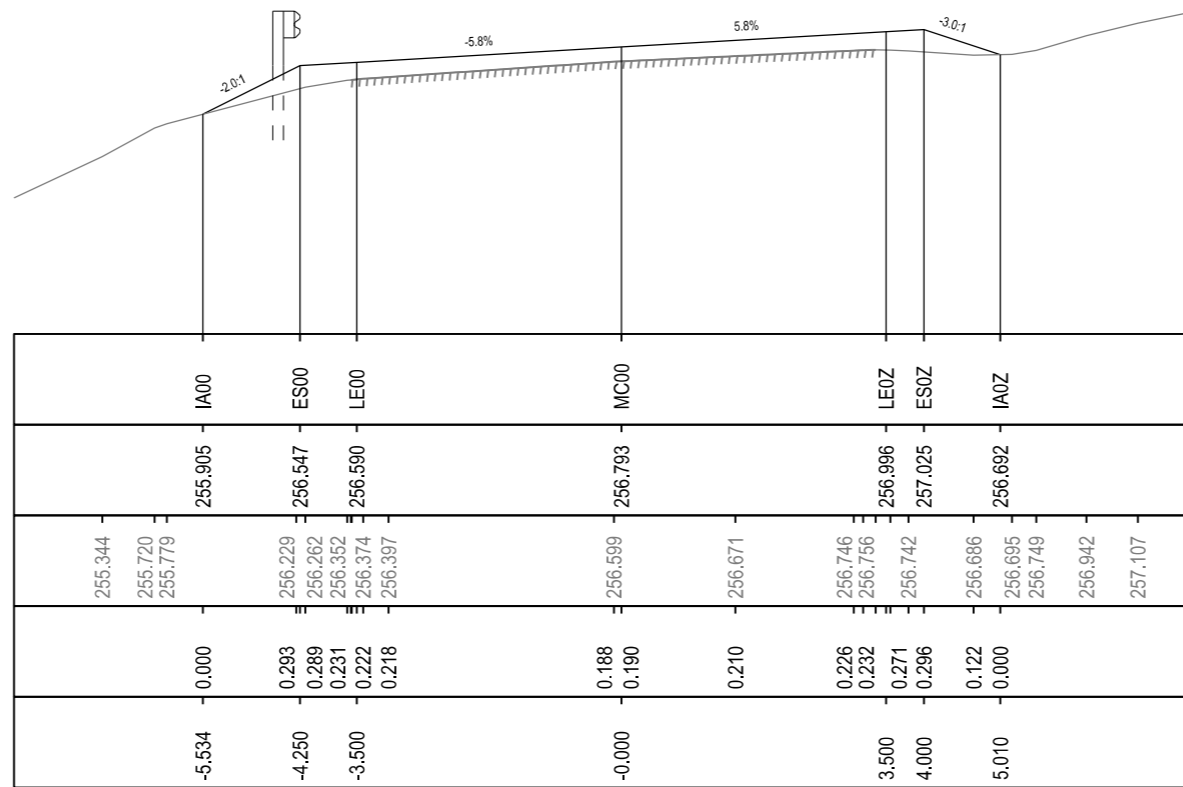
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME
						0 1 2 3 4 SCALE 1:100m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DRG CHECK	D. JOHNSON
								DESIGN	D. TIGHT
								DESIGN CHECK	D. JOHNSON
								DESIGN MANAGER	D. JOHNSON
								PROJECT MANAGER	R. GERSERKOWSKI
								PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063
								ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765
									SHEET No. RC-0011
									PART 1 ISSUE A

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50mm ON A3 SIZE ORIGINAL



38 525



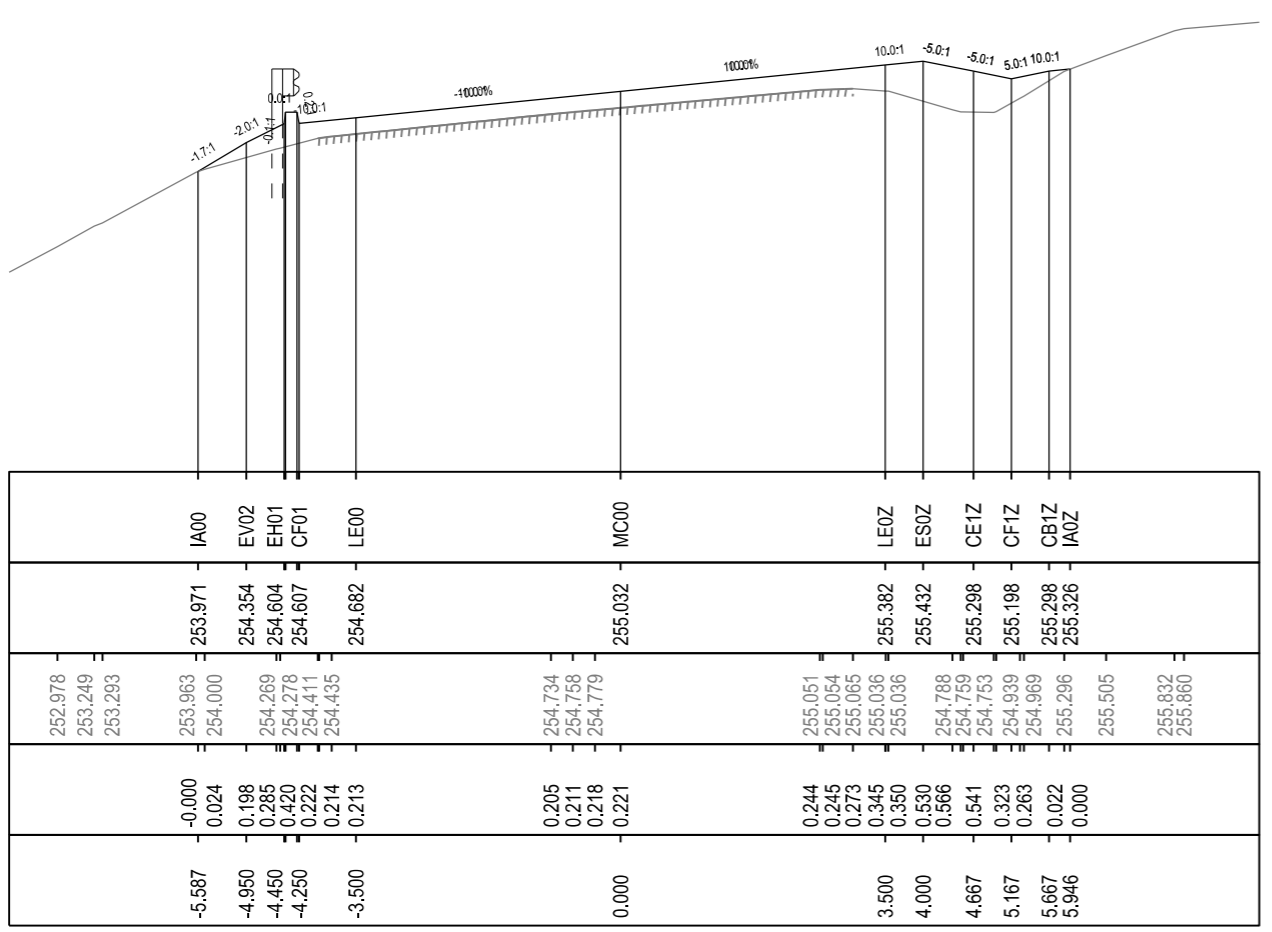
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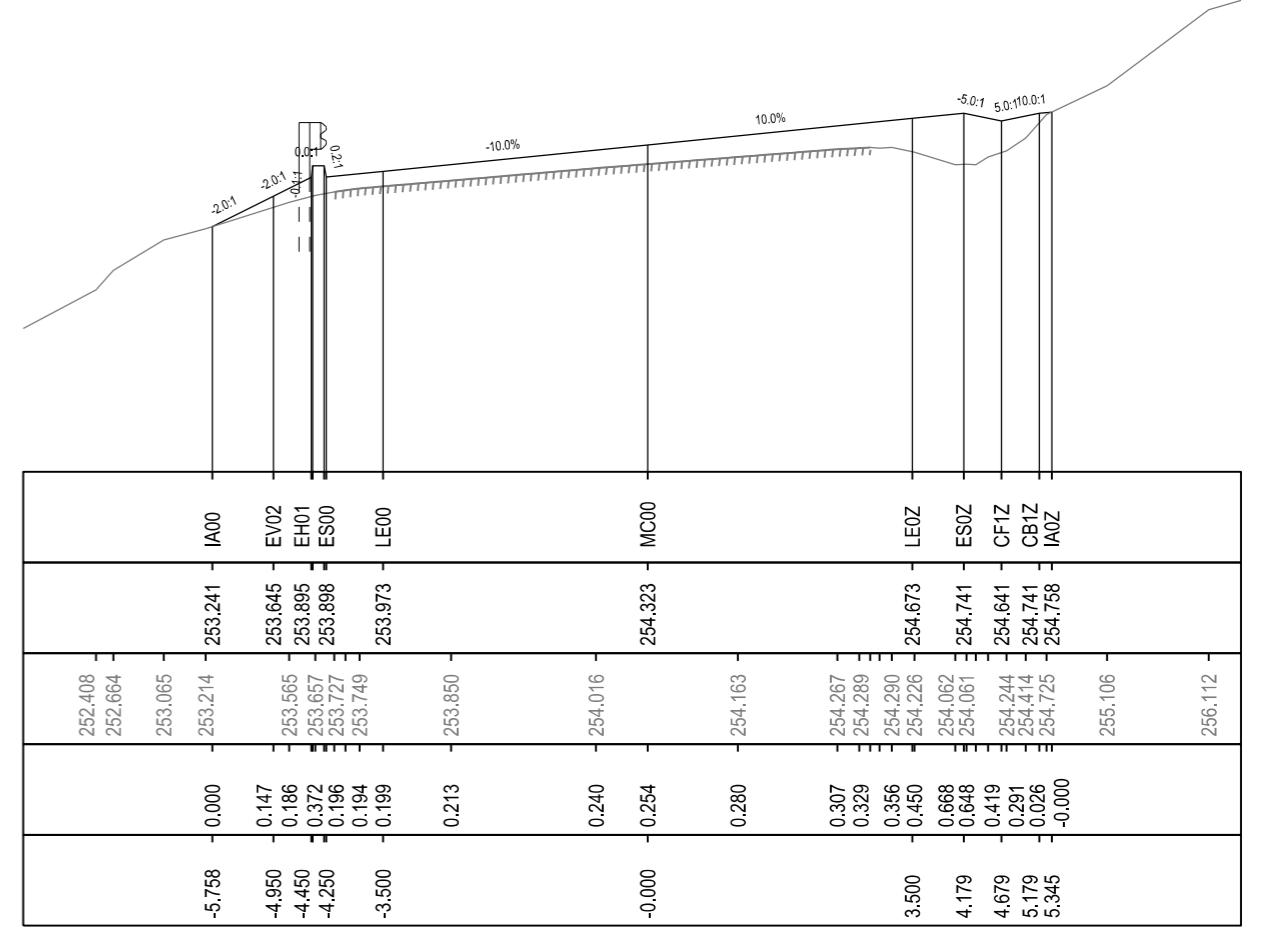
DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn			DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:16 PM	PLOT BY tightd	CLIENT KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 325 TO 38 350	PART 1 A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	
						0 1 2 3 4 SCALE 1:100m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN D. TIGHT	
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DRG CHECK D. JOHNSON	
								DESIGN D. TIGHT	
								DESIGN CHECK D. JOHNSON	
								DESIGN MANAGER D. JOHNSON	
								PROJECT MANAGER R. GERSERKOWSKI	
							NSW GOVERNMENT	Transport for NSW	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
							TNSW REGISTRATION No.	DS2020/00063	ISSUE STATUS DETAIL DESIGN
							EDMS No.	QA4331765	SHEET No. RC-0012
									ISSUE A

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50mm ON A3 SIZE ORIGINAL



38 550



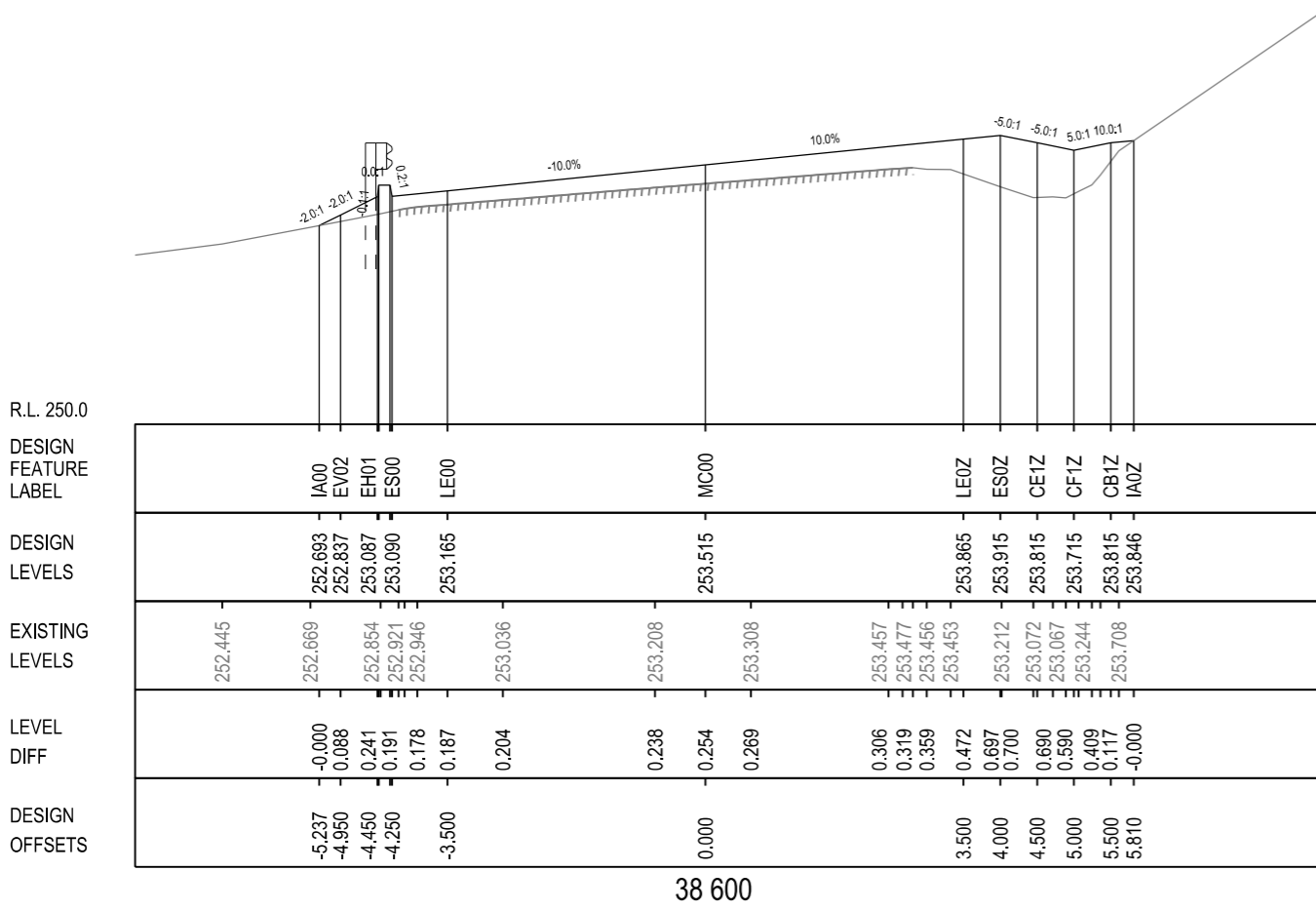
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NOT FOR CONSTRUCTION

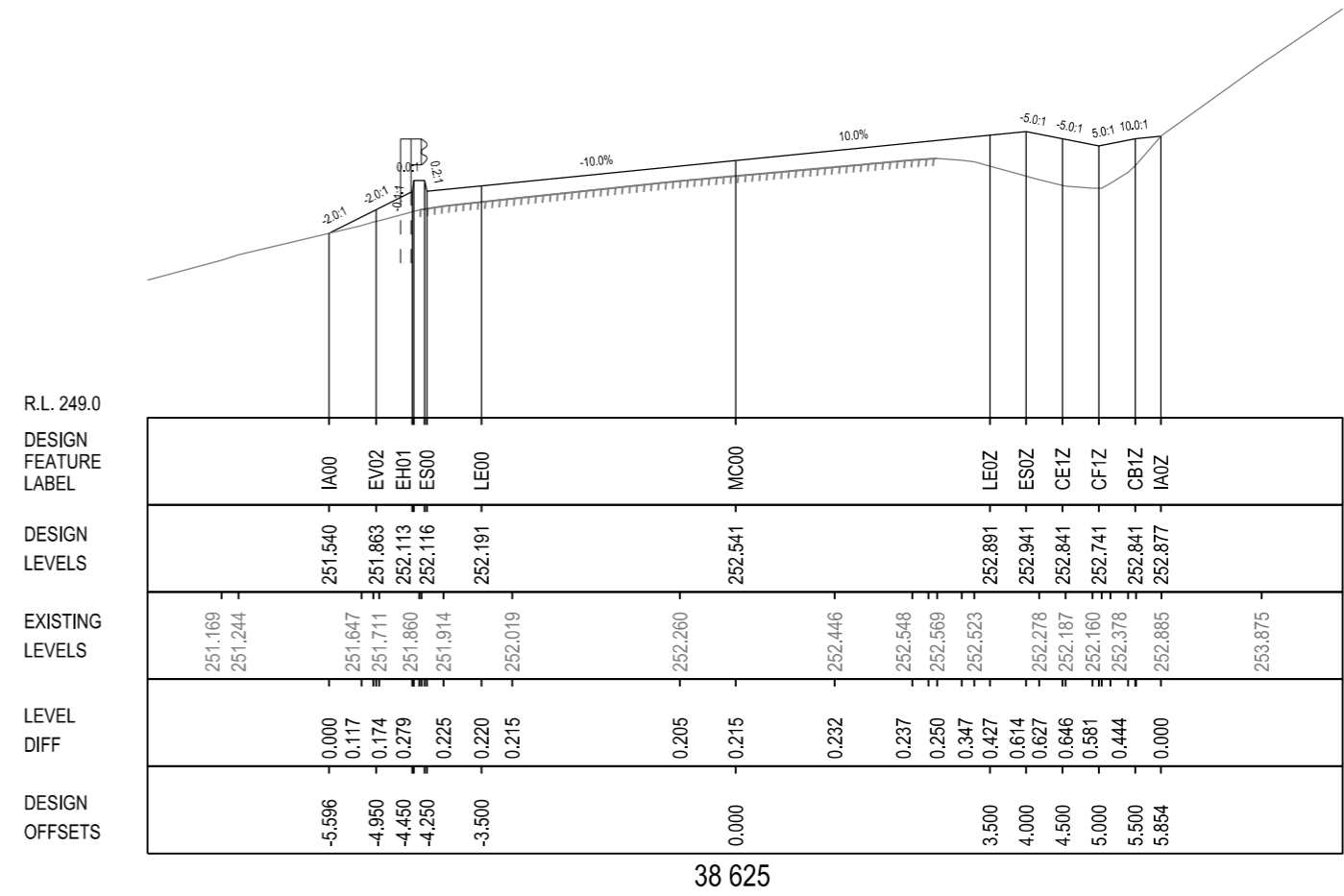
DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallanganee Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:17 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 375 TO 38 400	A3			
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI			
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0013	PART 1	ISSUE A

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL



38 600

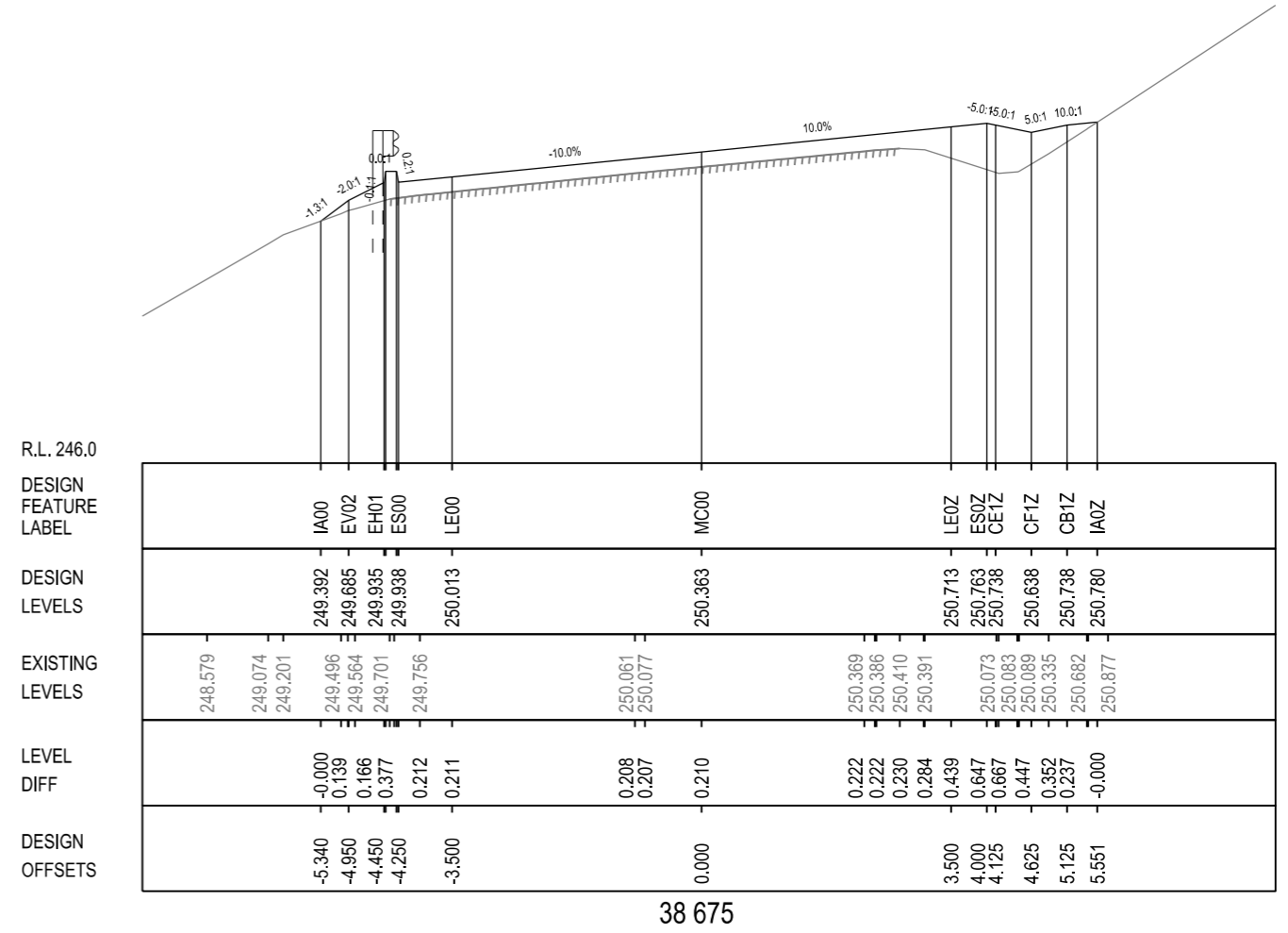
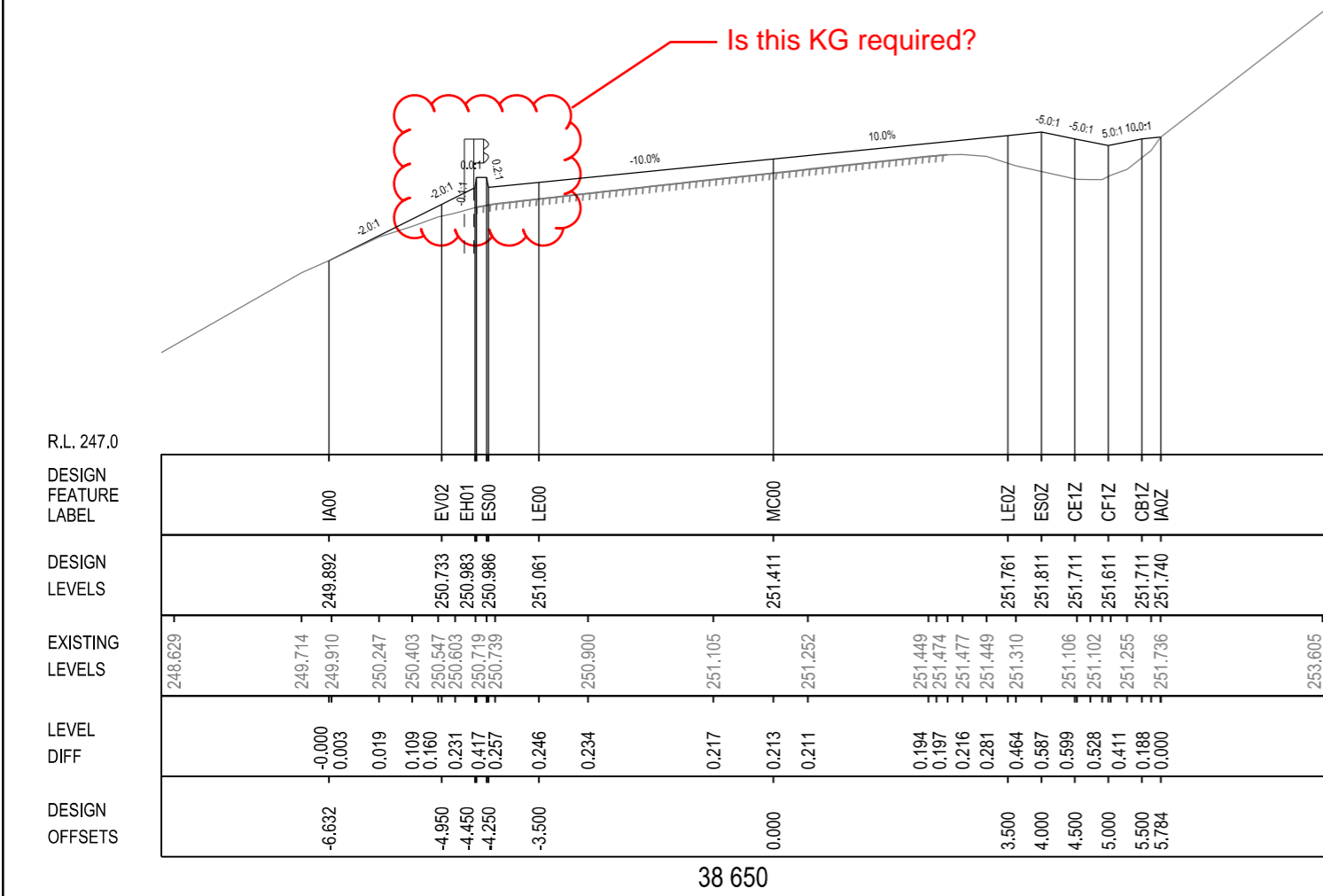


38 625

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallanganee Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:17 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 425 TO 38 500	A3		
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI		
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0014	PART 1 ISSUE A

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

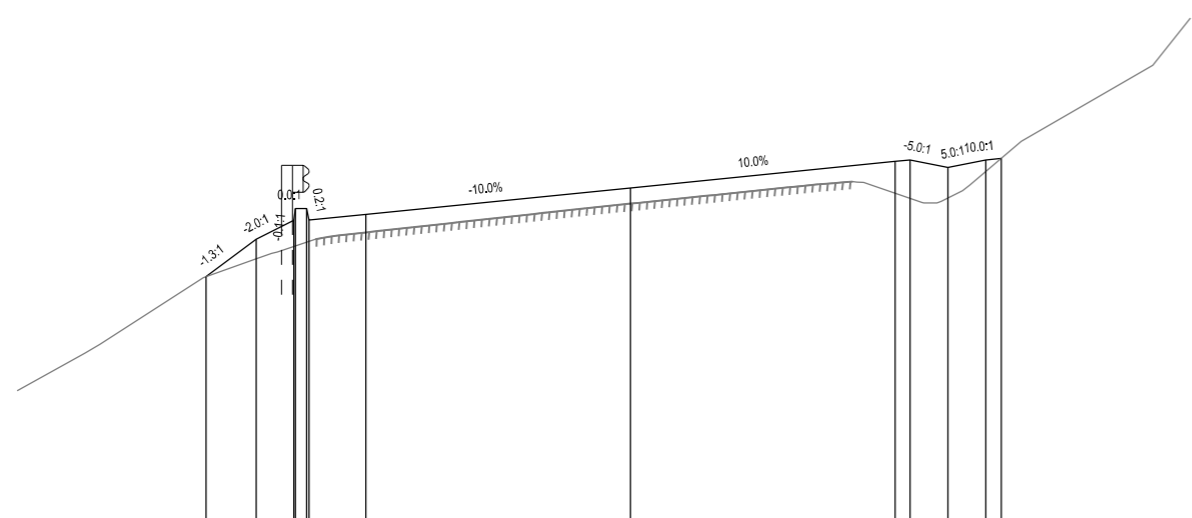


NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:17 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 525	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI
								PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
								TNSW REGISTRATION No. DS2020/00063
								ISSUE STATUS DETAIL DESIGN
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								SHEET No. RC-0015
								PART 1 ISSUE A

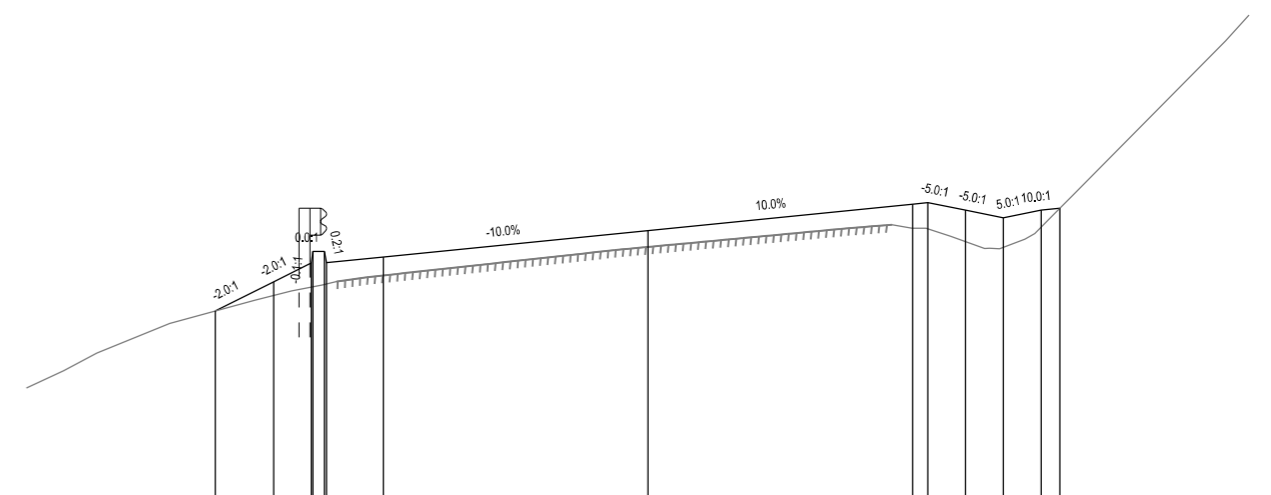
THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL



DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
IA00	248.341	247.329 247.445	-0.000	-5.611
EV02	248.836	248.573	0.258	-4.950
EH01	249.086	248.666	0.310	-4.450
ES00	249.089	248.837	0.441	-4.250
LE00	249.164	248.882	0.243	-3.500
MC00	249.514	249.196 249.245	0.216 0.210	-0.000
LE0Z	249.864	249.527	0.199	3.500
ES0Z	249.884	249.562	0.202	3.700
CF1Z	249.784	249.597	0.211	4.200
CB1Z	249.884	249.557	0.274	4.700
IA0Z	249.905	249.318 249.335 249.551	0.510 0.500 0.347	4.906
		250.129	0.000	
		251.136		

38 700



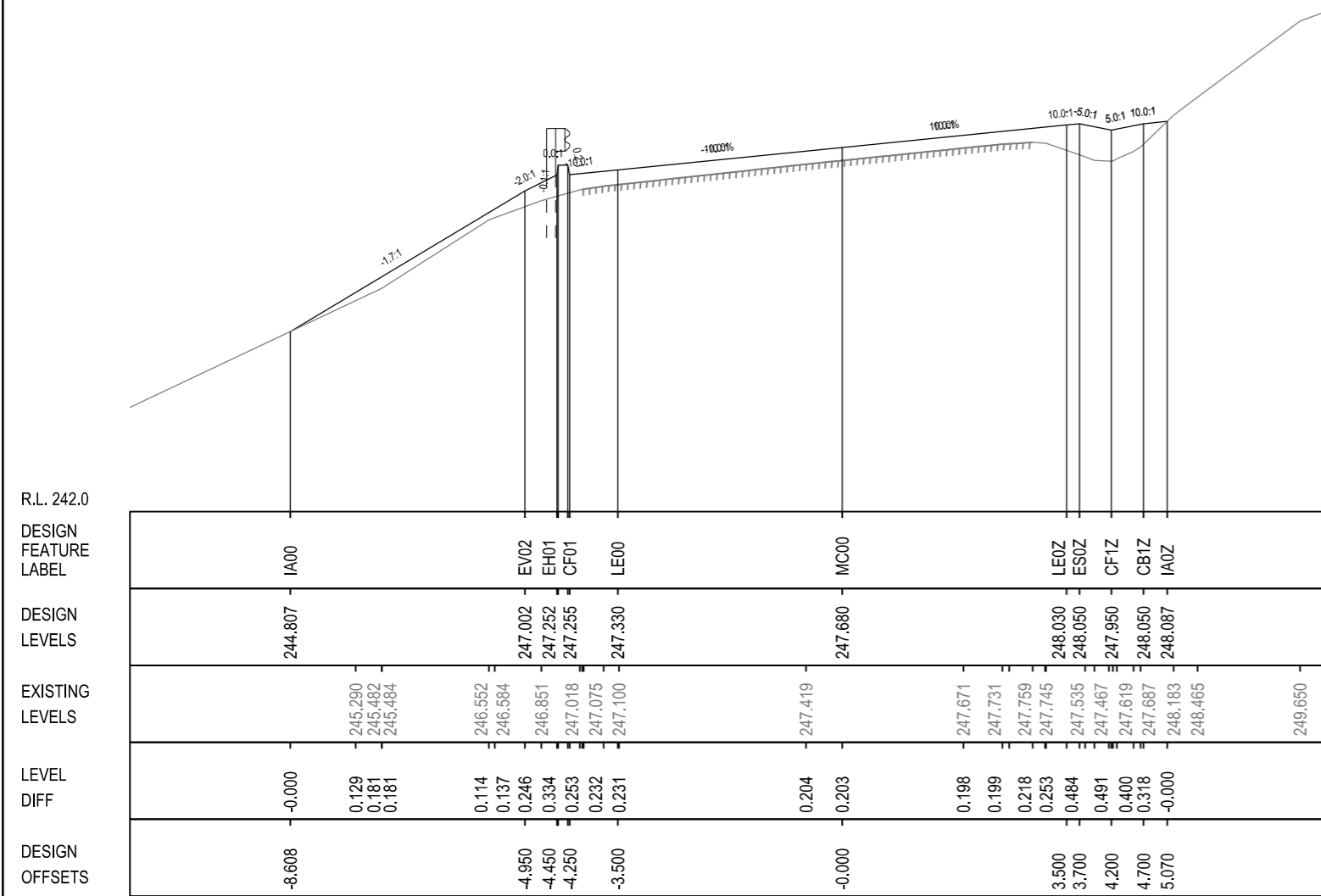
DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
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EV02	247.968	247.417	0.117	-4.950
EH01	248.218	247.725	0.239	-4.450
ES00	248.221	247.848 247.926	0.445	-4.250
LE00	248.296	247.987 248.026	0.260	-3.500
MC00	248.646	248.026 248.280 248.394 248.479	0.222 0.214 0.218 0.223	0.000
LE0Z	248.996	248.681	0.234	3.500
ES0Z	249.016	248.688	0.235	3.700
CE1Z	248.916	248.723	0.246	4.200
CF1Z	248.816	248.675	0.338	4.700
CB1Z	248.916	248.572	0.383	5.200
IA0Z	248.941	248.407 248.407 248.604 249.112	0.416 0.419 0.340 0.030	5.449
		249.112	-0.000	
		251.153		

38 725

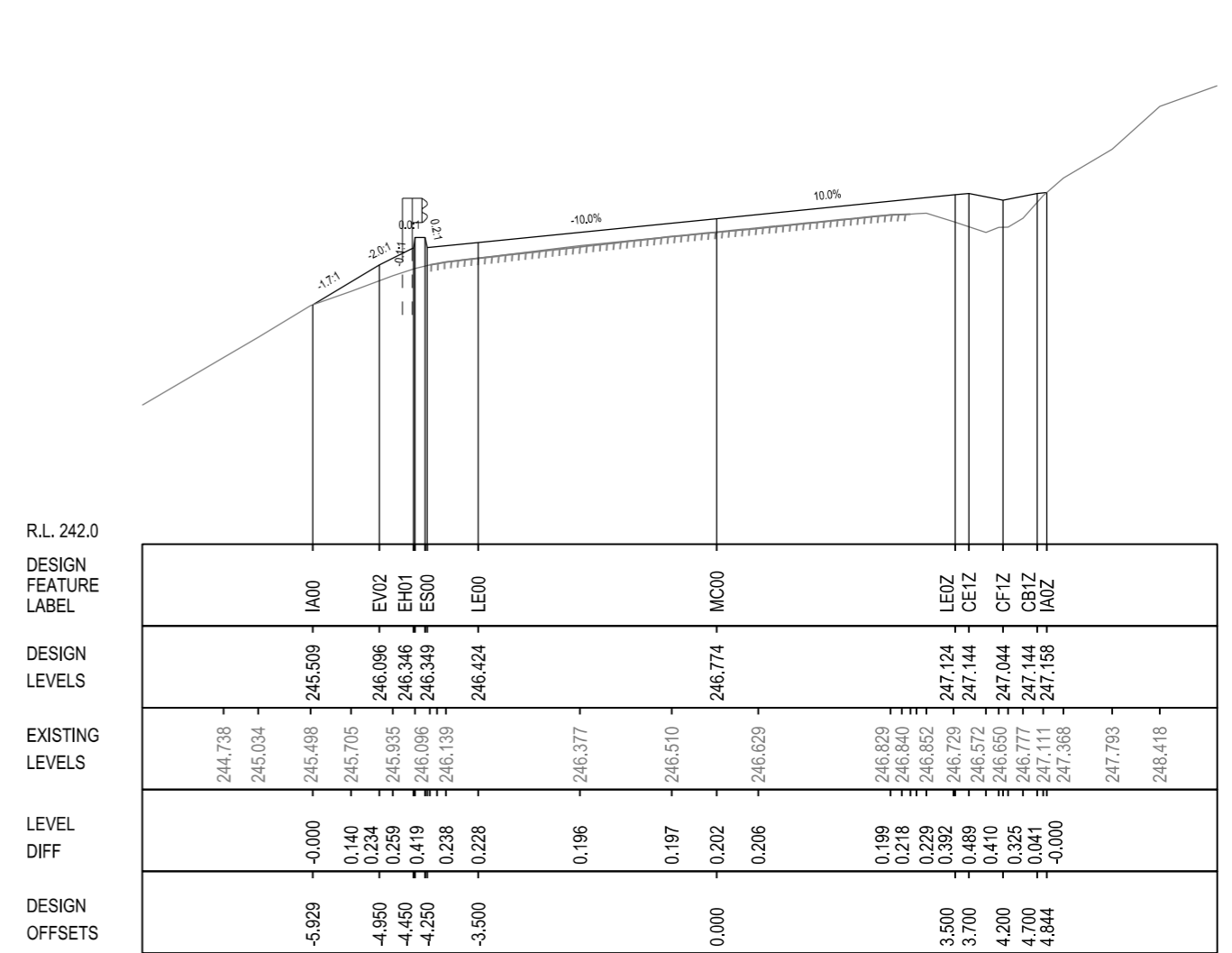
NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:18 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 550 TO 38 575	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI
								PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
								TNSW REGISTRATION No. DS2020/00063
								ISSUE STATUS DETAIL DESIGN
								EDMS No. QA4331765
								SHEET No. RC-0016
								ISSUE A

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38 750



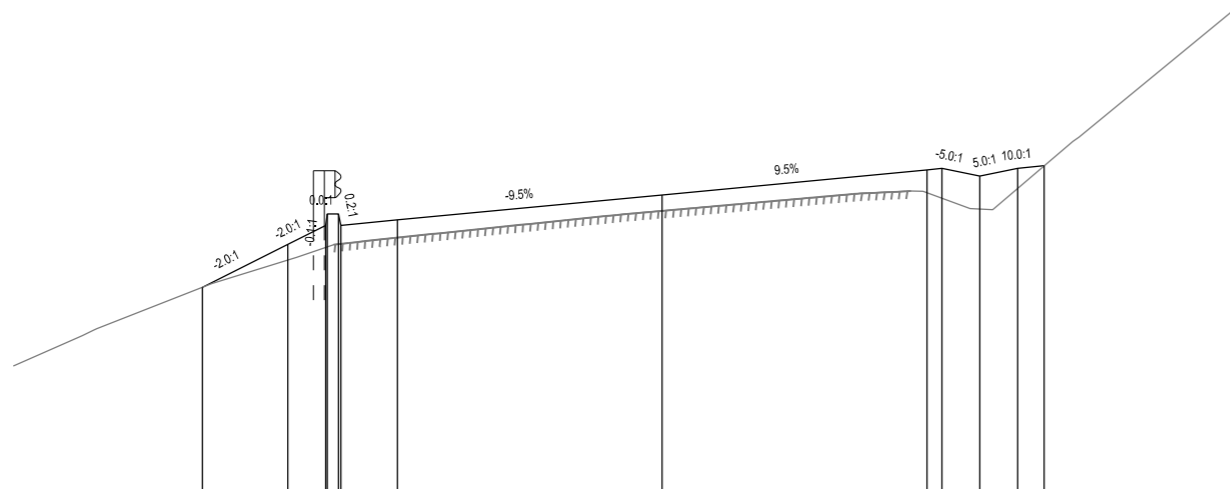
38 775

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:18 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 600 TO 38 625	PART 1
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No. APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	ISSUE A
CO-ORDINATE SYSTEM MGA ZONE 56			HEIGHT DATUM AHD			REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765
						SHEET No. RC-0017		© Transport for NSW

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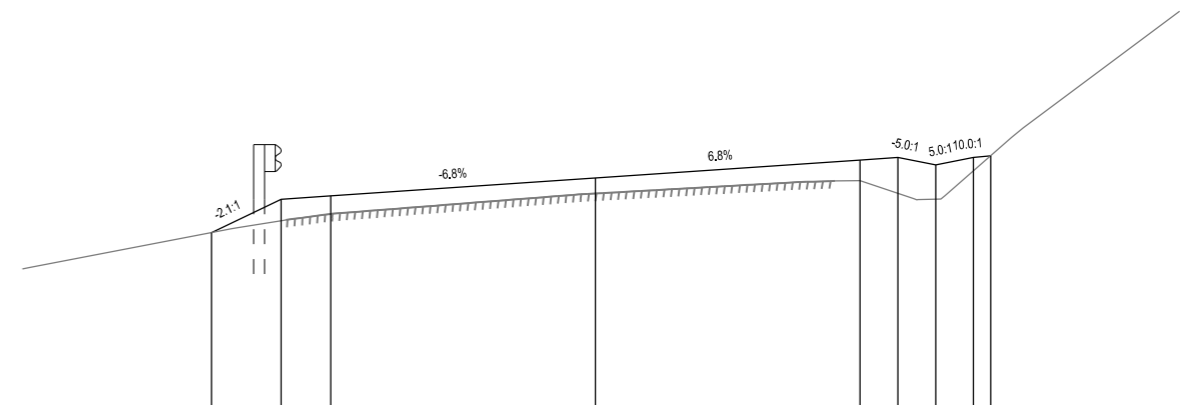
50mm ON A3 SIZE ORIGINAL



R.L. 242.0

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EV02	245.311	245.127	0.208	-4.950
EH01	245.561	245.138	0.229	-4.450
ES00	245.564	245.310	0.404	-4.250
LE00	245.635	245.377	0.245 0.235	-3.500
MC00	245.966	245.692 245.709	0.210 0.208	-0.000
LE0Z	246.298	245.984 245.984	0.228 0.228	3.500
ES0Z	246.317	246.017 246.013	0.261	3.700
CF1Z	246.217	245.786	0.395	4.200
CB1Z	246.317	245.772 245.783	0.478	4.700
IA0Z	246.352	246.675 246.730	0.264 -0.000	5.051

38 800



R.L. 242.0

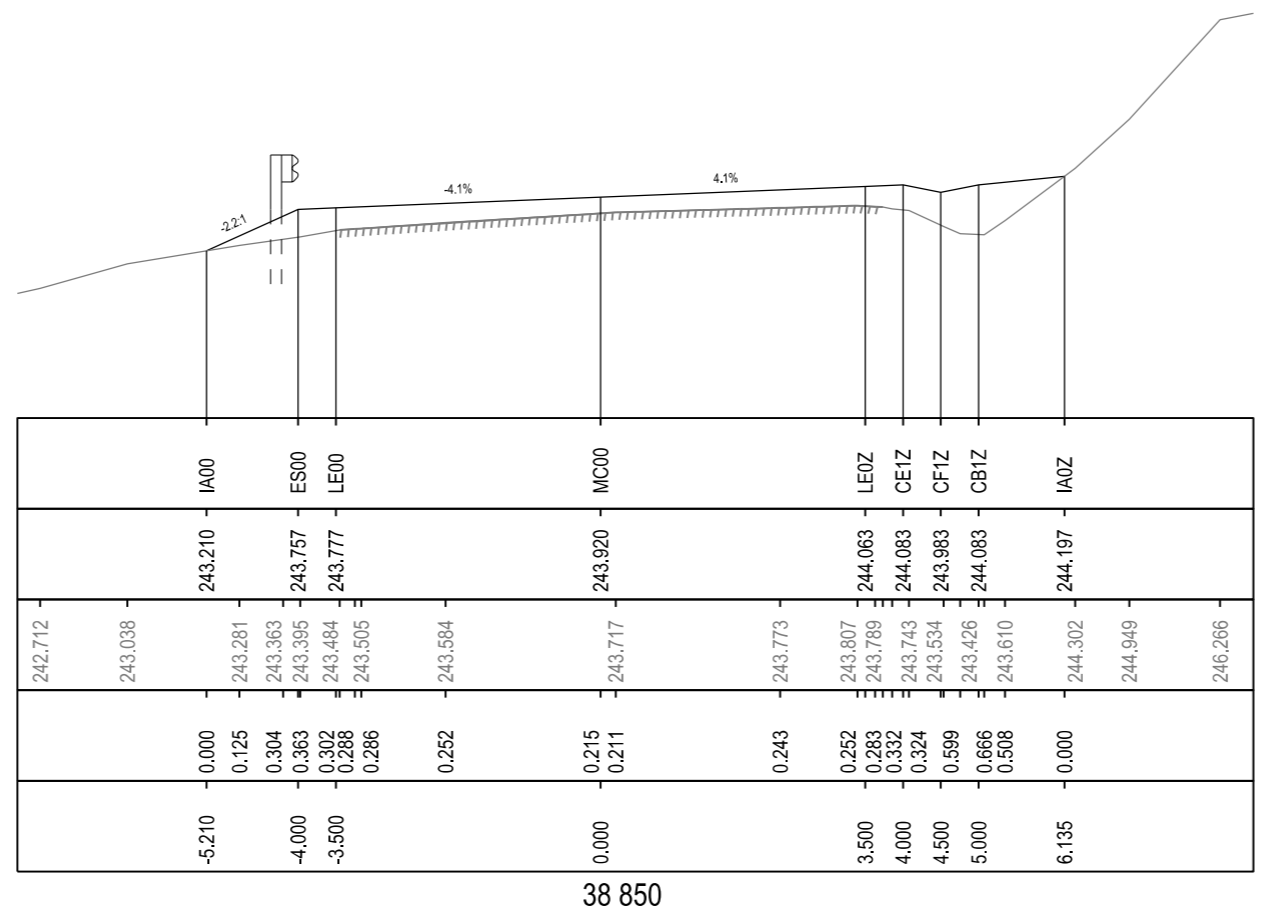
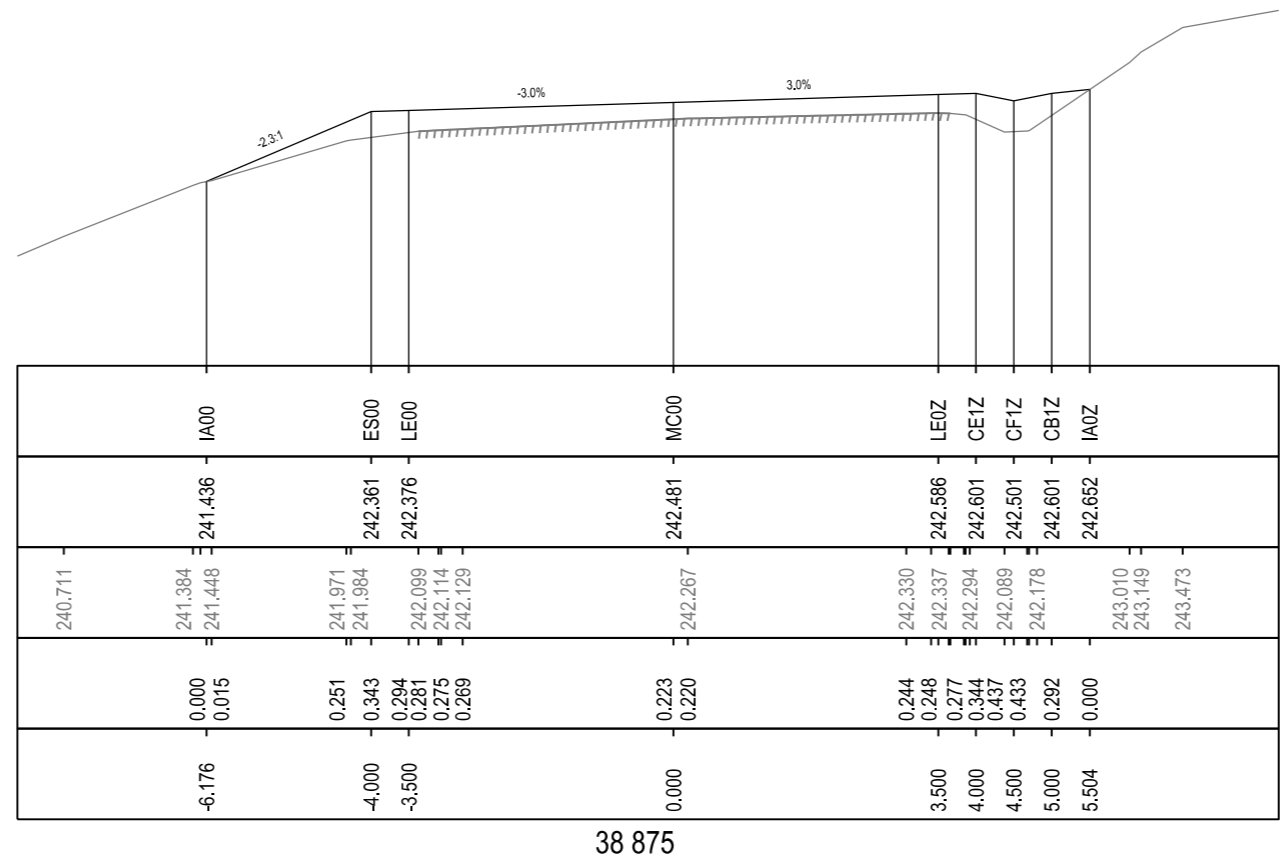
DESIGN FEATURE LABEL	DESIGN LEVELS	EXISTING LEVELS	LEVEL DIFF	DESIGN OFFSETS
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LE00	244.843	244.520 244.526 244.604 244.616	0.284 0.277 0.239 0.238	-3.500
MC00	245.080	244.863 244.871	0.203 0.206	-0.000
LE0Z	245.317	245.027 245.038	0.237 0.254	3.500
ES0Z	245.351	245.043 245.042	0.273 0.276	4.000
CF1Z	245.251	244.806 244.801	0.502 0.451	4.500
CB1Z	245.351	244.846	0.430	5.000
IA0Z	245.373	245.614 245.742	-0.000	5.227

38 825

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:18 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 650 TO 38 675	A3				
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0018	ISSUE A	

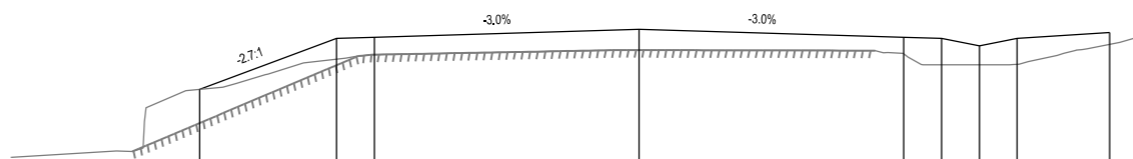
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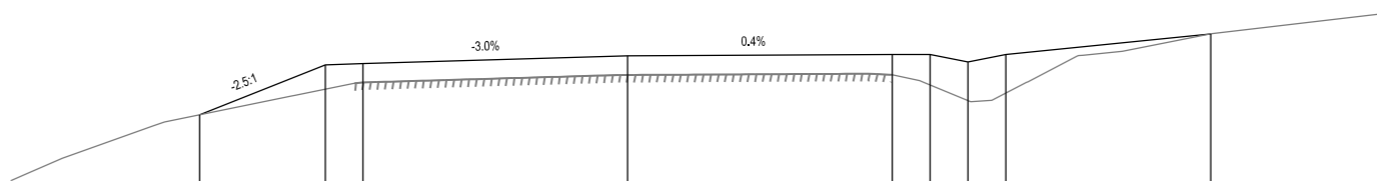
DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallingane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallinganeRangeWillock_Design_JFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:19 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEER RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 700	A3
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI
						PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
						ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0019 ISSUE A

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R.L. 236.0																									
DESIGN FEATURE LABEL		IA00		ES00	LE00		MC00			LE0Z	CE1Z	CF1Z	CB1Z	IA0Z											
DESIGN LEVELS		238.409		239.083	239.098		239.203			239.098	239.083	238.983	239.083	239.161											
EXISTING LEVELS	237.594	238.390	238.439	238.487	238.602	238.611	238.757	238.821	238.867	238.905	238.928	238.923	238.921	238.893	238.885	238.734	238.733	238.776	238.857	238.928	238.945	239.030	239.119		
LEVEL DIFF		0.000	0.102	0.129	0.134	0.162	0.275	0.243	0.230	0.259	0.266	0.275	0.221	0.193	0.212	0.213	0.356	0.349	0.249	0.328	0.317	0.260	0.205	0.197	0.158
DESIGN OFFSETS		-5.810		-4.000	-3.500		0.000				3.500	4.000	4.500	5.000										6.224	

38 925



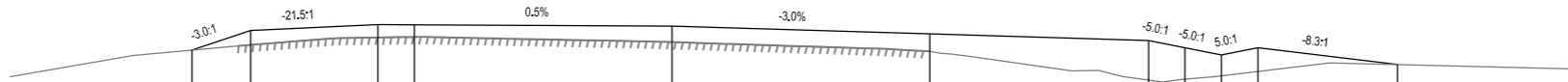
R.L. 237.0																							
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DESIGN LEVELS		240.071		240.733	240.748		240.863			240.868	240.870	240.770	240.870	241.141									
EXISTING LEVELS	239.287	239.495	239.928	239.974	240.319	240.329	240.483	240.498	240.597	240.597	240.614	240.600	240.521	240.503	240.242	240.261	240.501	240.506	240.842	240.857	240.912	241.143	241.431
LEVEL DIFF		0.000	0.233	0.245	0.323	0.258	0.249	0.251	0.255	0.252	0.267	0.348	0.403	0.513	0.570	0.512	0.392	0.121	0.115	0.111	0.000		
DESIGN OFFSETS		-5.659		-4.000	-3.500		0.000			3.500	4.000	4.500	5.000										7.712

38 900

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn				DESIGN LOT CODE N2019070		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt				PLOT DATE / TIME 11/07/2022 1:12:19 PM		PLOT BY tightd		CLIENT KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEER RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 725		A3	
EXTERNAL REFERENCE FILES				WVR No.		SCALES ON A3 SIZE DRAWING				DRAWINGS / DESIGN PREPARED BY		NSW GOVERNMENT Transport for NSW		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063	
REV DATE AMENDMENT / REVISION DESCRIPTION				APPROVAL		SCALE 1:100m 0 1 2 3 4				TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		DRAWN: D. TIGHT DRG CHECK: D. JOHNSON DESIGN: D. TIGHT DESIGN CHECK: D. JOHNSON DESIGN MANAGER: D. JOHNSON PROJECT MANAGER: R. GERSERKOWSKI		REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	
						CO-ORDINATE SYSTEM MGA ZONE 56				HEIGHT DATUM AHD				EDMS No. QA4331765		SHEET No. RC-0020	PART 1 ISSUE A

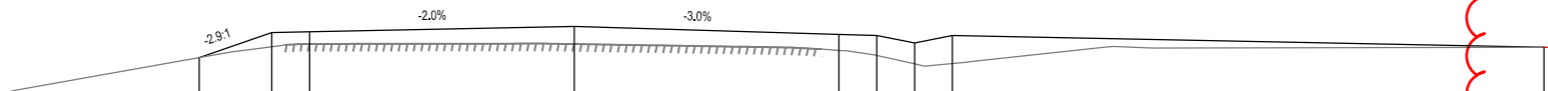
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R.L. 234.0																																																						
DESIGN FEATURE LABEL	IA00		ES20		ES00		LE00		MC00				LE0Z		ES0Z		CE1Z		CF1Z		CB1Z		IA0Z																															
DESIGN LEVELS	235.449		235.716		235.797		235.795		235.777				235.671		235.581		235.481		235.381		235.481		235.251																															
EXISTING LEVELS	235.236	235.376	235.478	235.507	235.594	235.613	235.629	235.629	235.585	235.566	235.496	235.466	235.442	235.408	235.368	235.162	235.170	235.087	235.011	235.043	235.087	235.144	235.274	235.214																														
LEVEL DIFF	0.000		0.077		0.195		0.162		0.159		0.173		0.168		0.166		0.200				0.212		0.219		0.226		0.224		0.236		0.259		0.288		0.450		0.432		0.505		0.531		0.432		0.311		0.284		0.327		0.089		-0.000	
DESIGN OFFSETS	-6.590		-5.784		-4.038		-3.538		-0.000				3.537		6.537		7.038		7.538		8.038		9.954																															

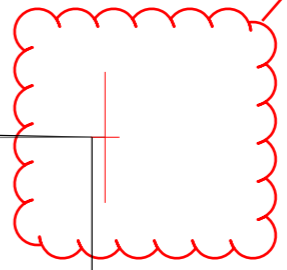
38 975

?



R.L. 235.0																																												
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DESIGN LEVELS	237.117		237.450		237.460		237.530				237.425		237.410		237.310		237.410		237.253																									
EXISTING LEVELS	236.687	237.177	237.194	237.277	237.297	237.298	237.303	237.298	237.251	237.231	237.210	237.151	237.146	237.006	237.057	237.067	237.254	237.267	237.245	237.254																								
LEVEL DIFF	-0.000		0.076		0.188		0.160		0.163		0.219				0.232		0.232		0.193		0.201		0.213		0.212		0.263		0.273		0.330		0.349		0.338		0.116		0.101		0.112		0.000	
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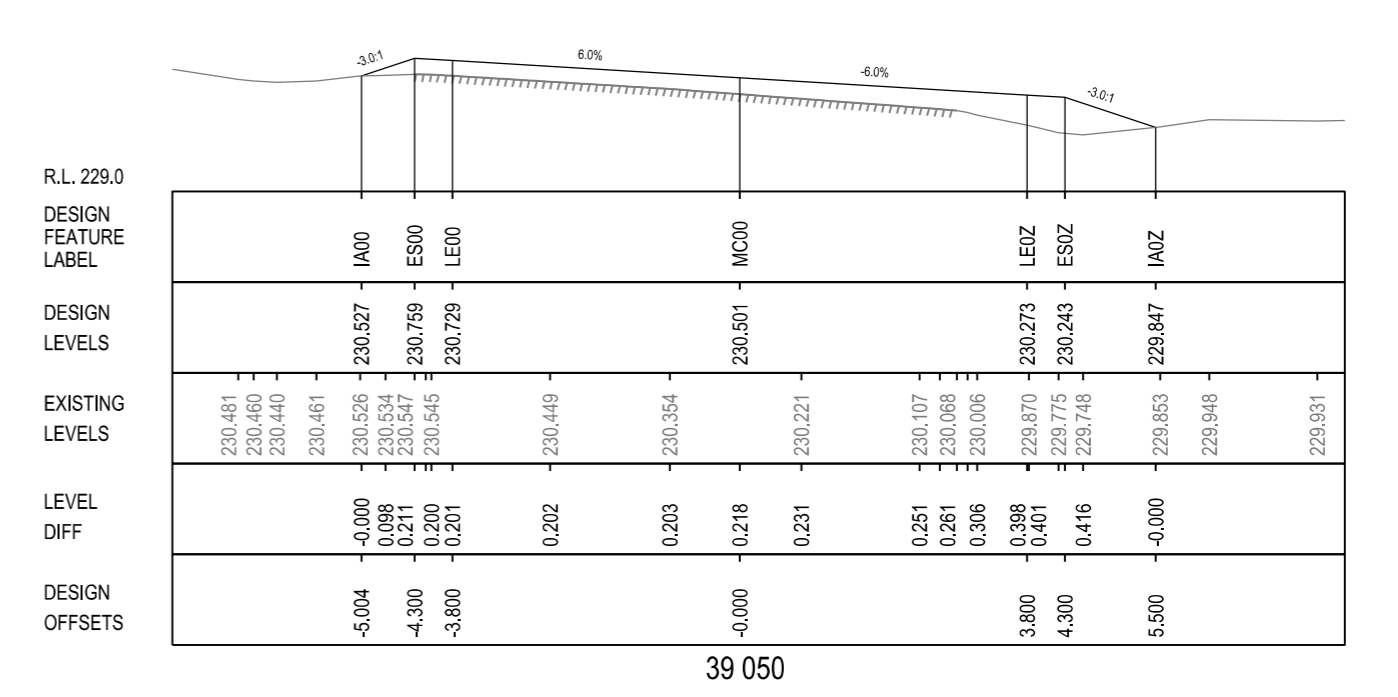
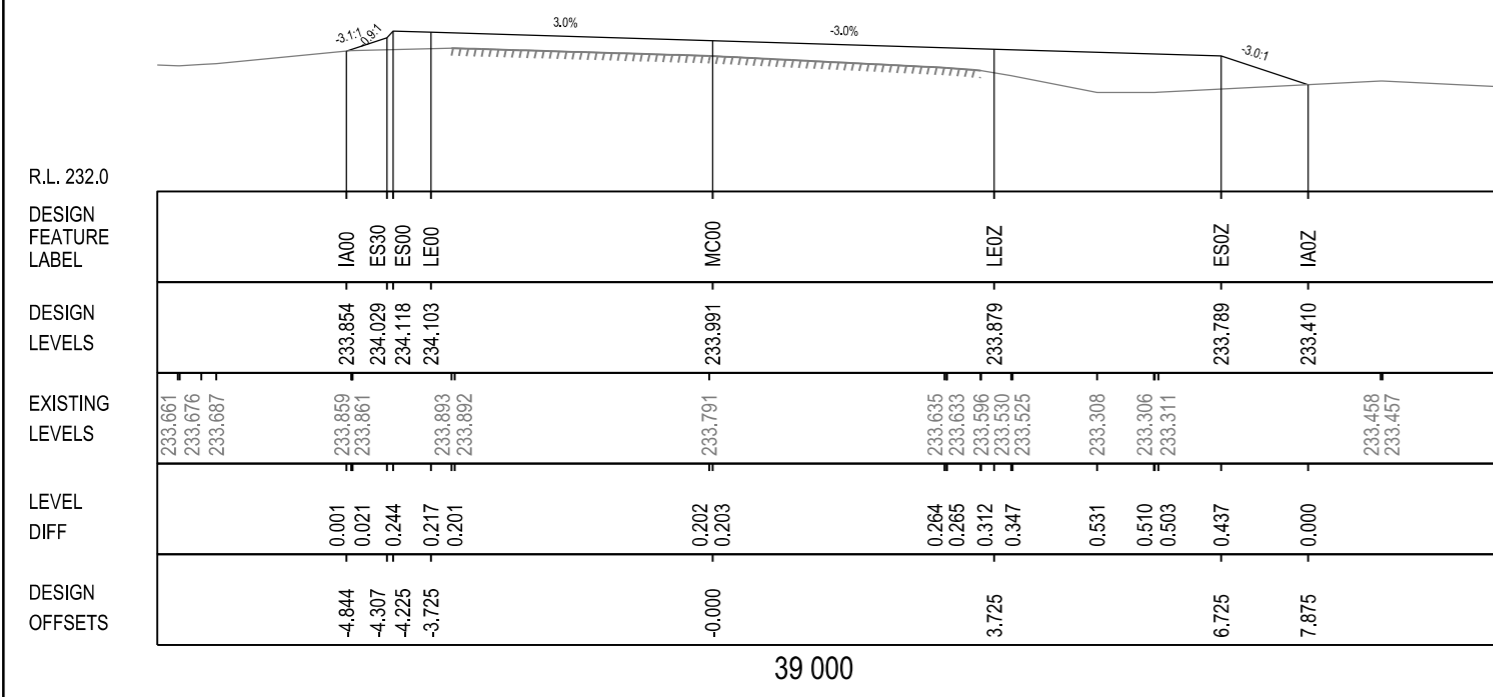
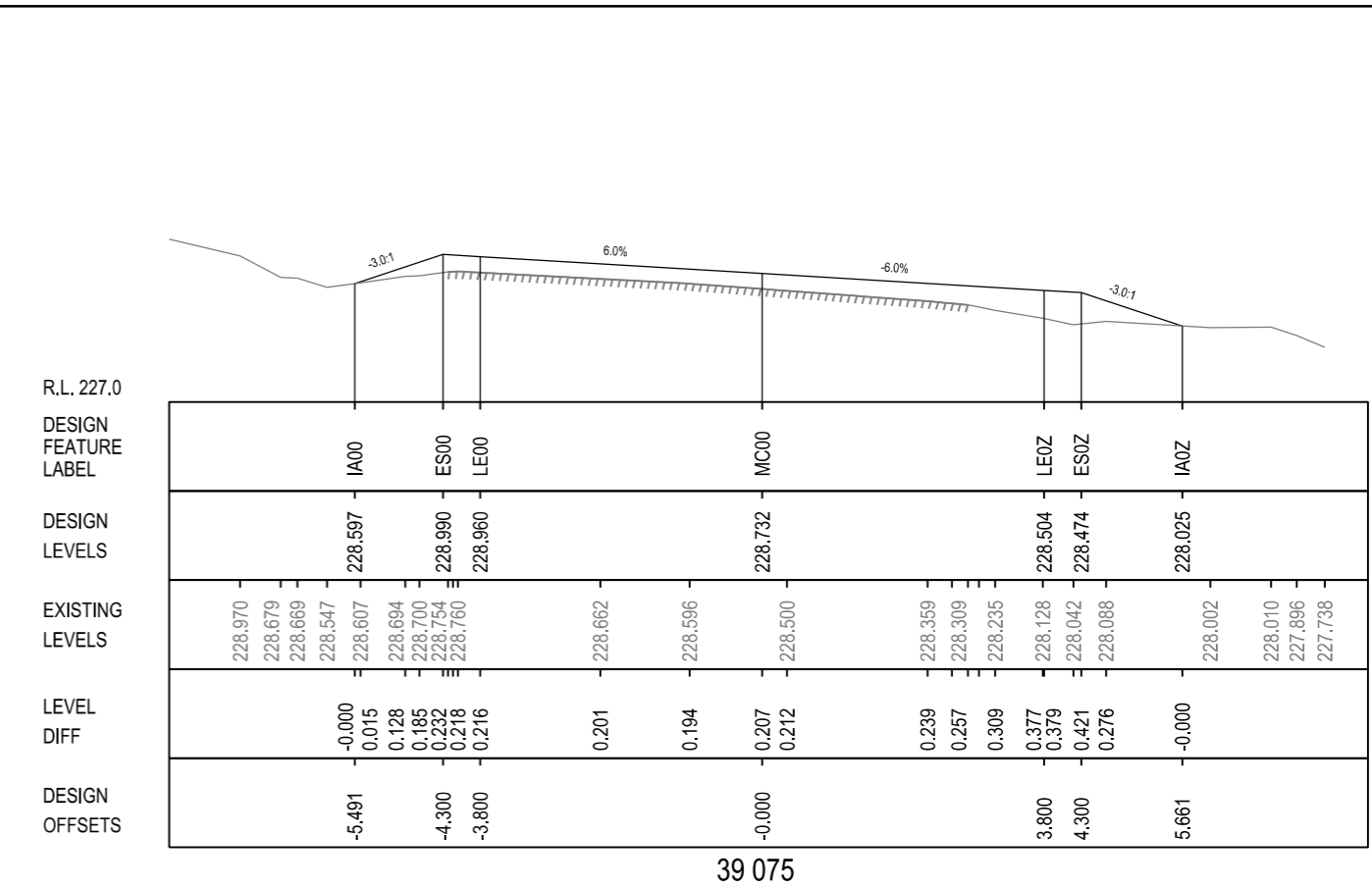
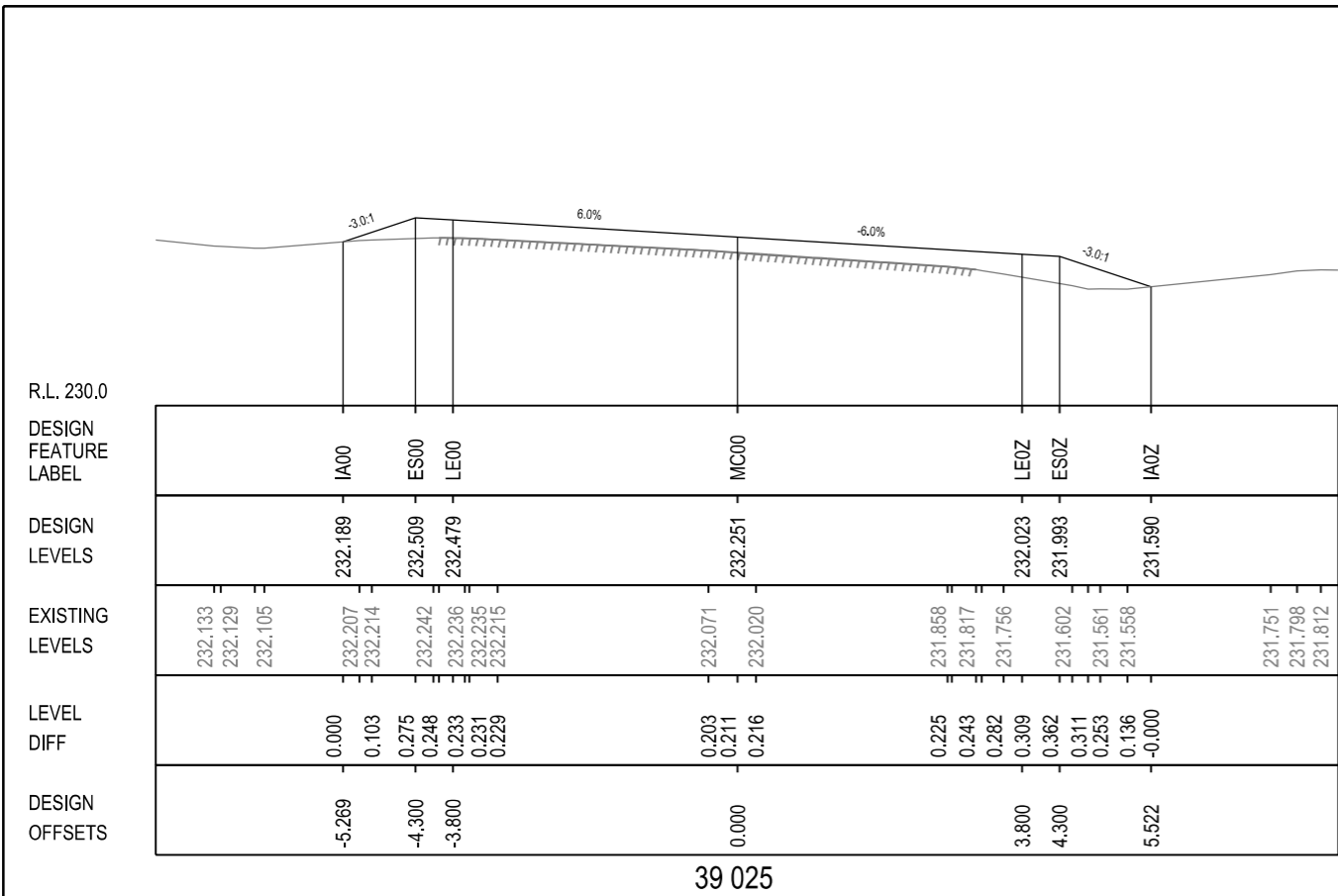
38 950



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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn			DESIGN LOT CODE N2019070		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt			PLOT DATE / TIME 11/07/2022 1:12:19 PM		PLOT BY tightd		CLIENT Transport for NSW		KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEER RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 750 TO 38 775		A3											
EXTERNAL REFERENCE FILES			REV	DATE	AMENDMENT / REVISION DESCRIPTION			WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TNSW REGISTRATION No. DS2020/00063		PART											
												TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		1											
										CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		DESIGN CHECK D.JOHNSON		DESIGN MANAGER D.JOHNSON		PROJECT MANAGER R. GERSERKOWSKI		ISSUE STATUS DETAIL DESIGN		EDMS No. QA4331765		SHEET No. RC-0021		ISSUE A	

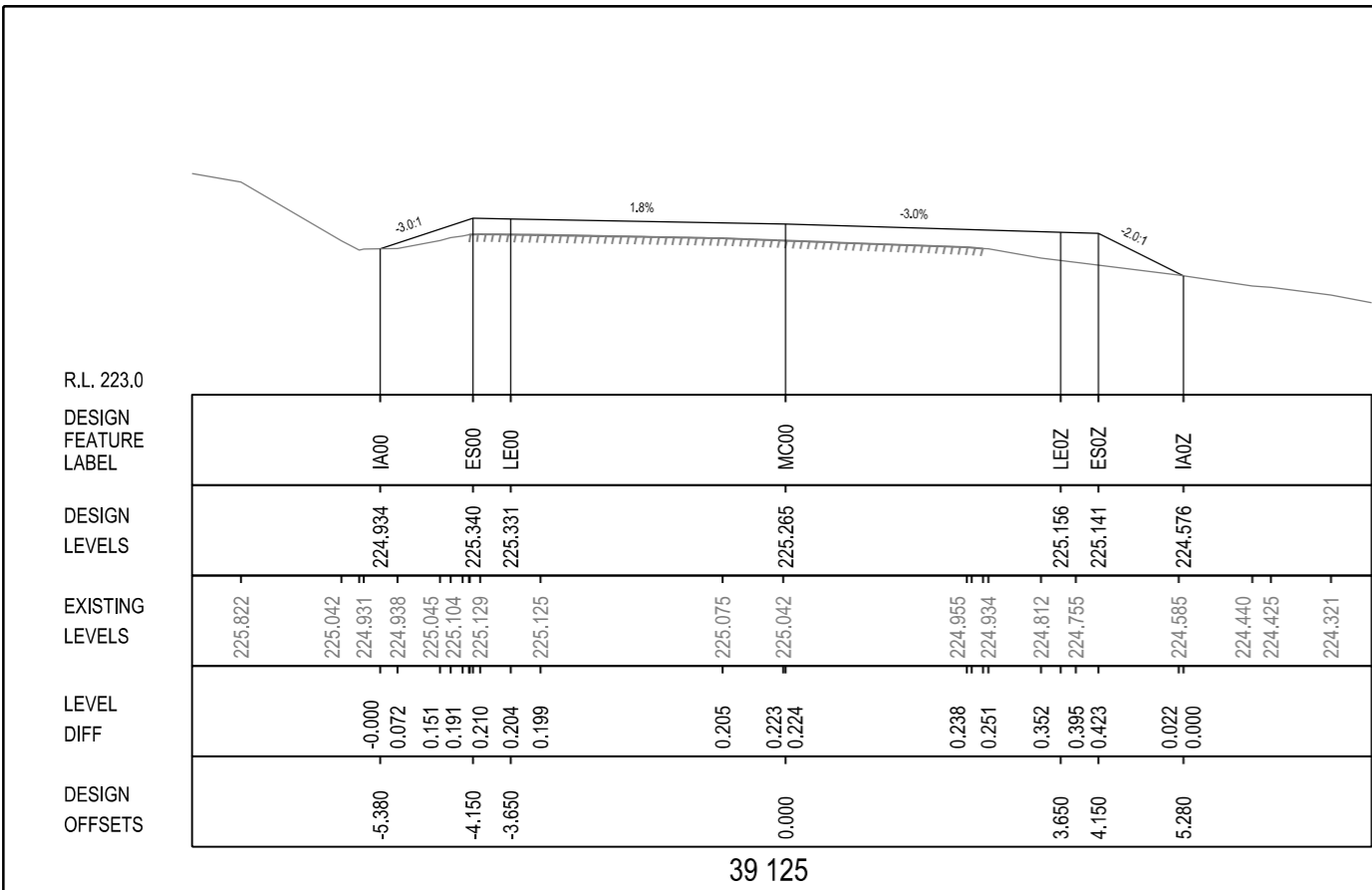
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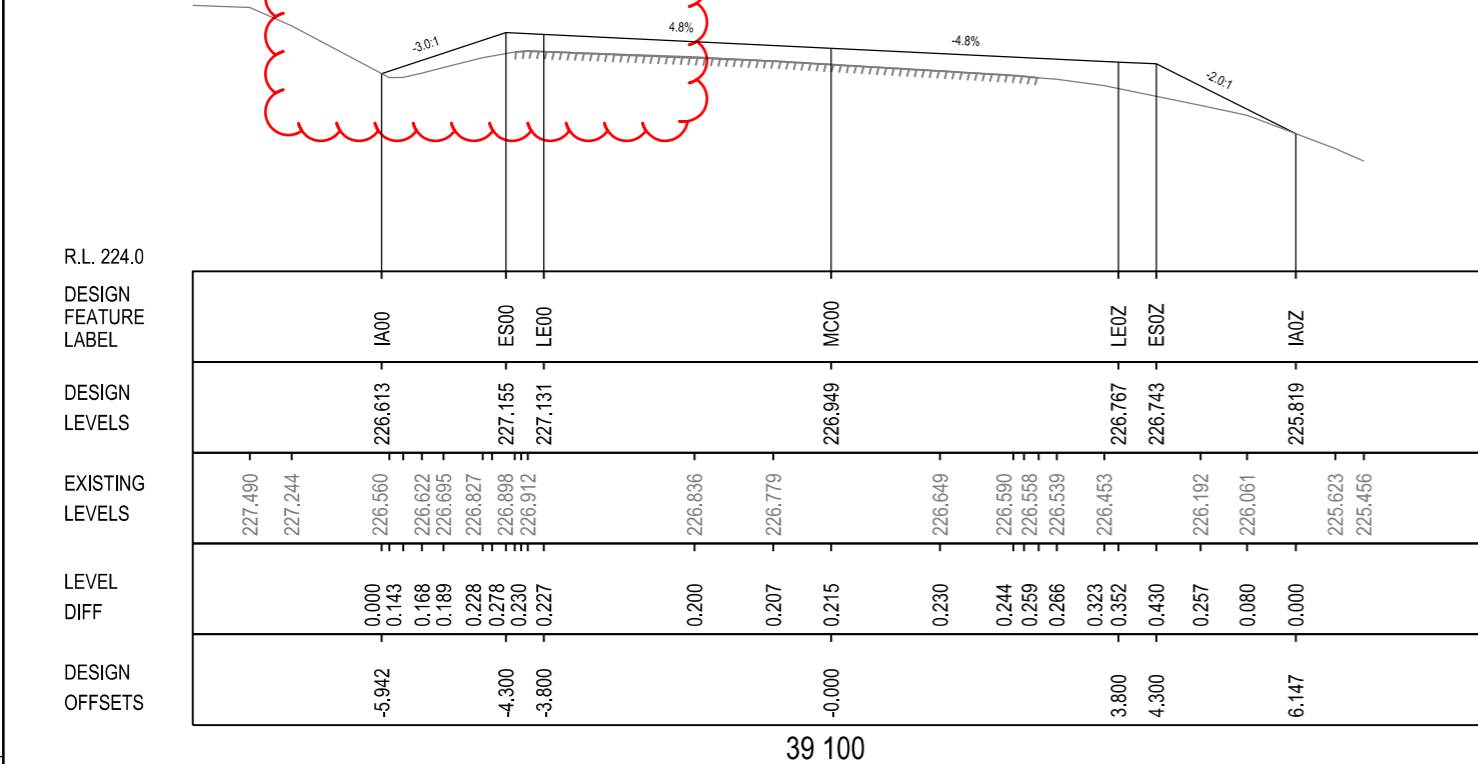
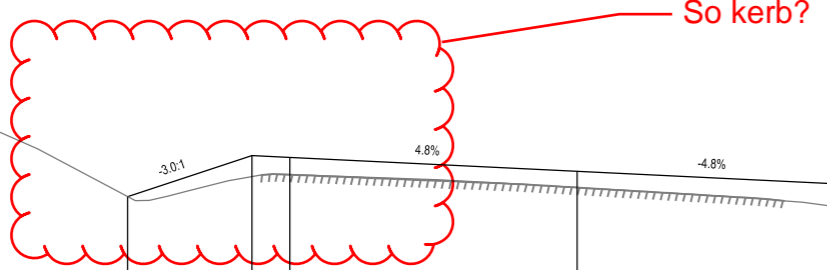
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI
						PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
						ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0022 ISSUE A

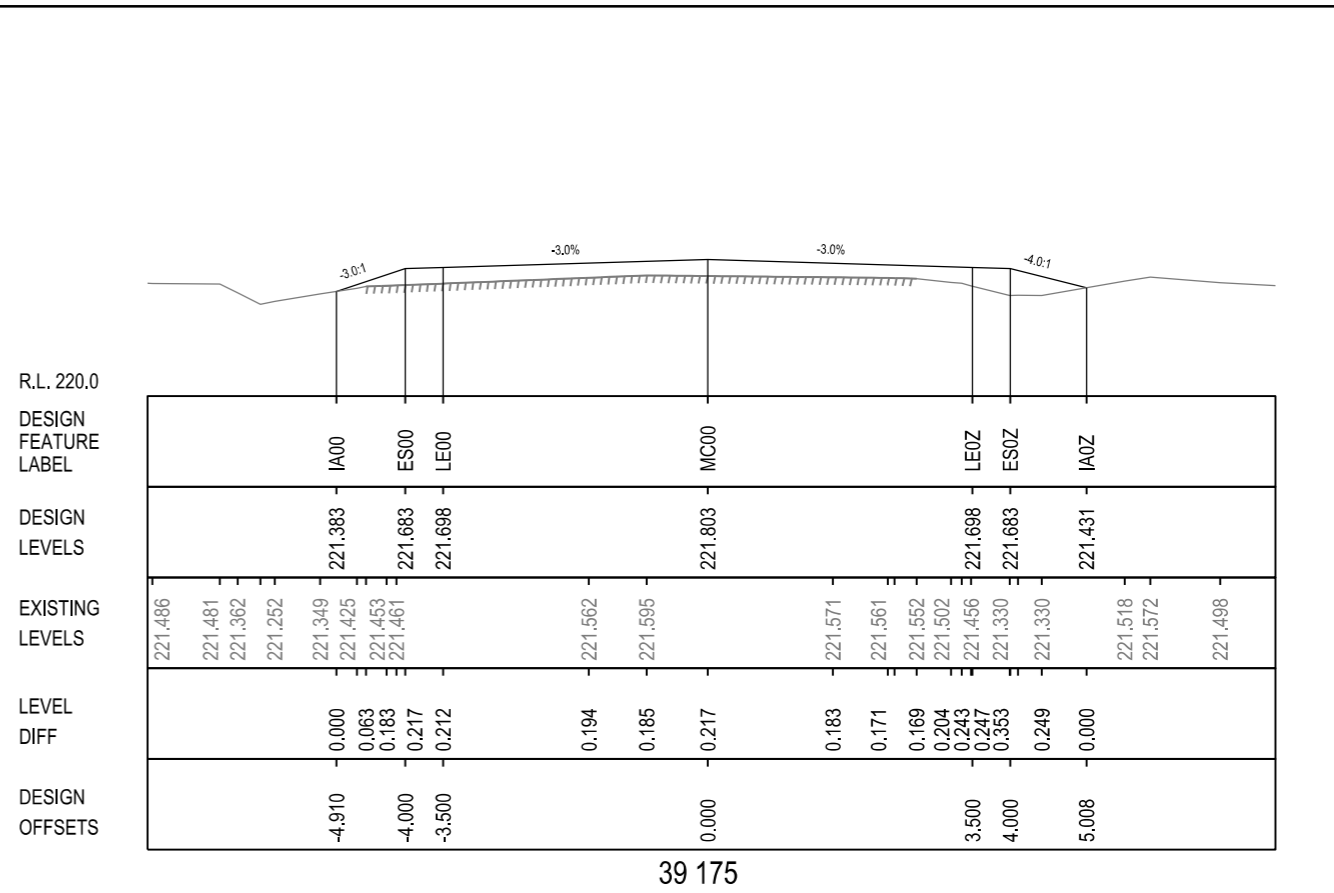
THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED



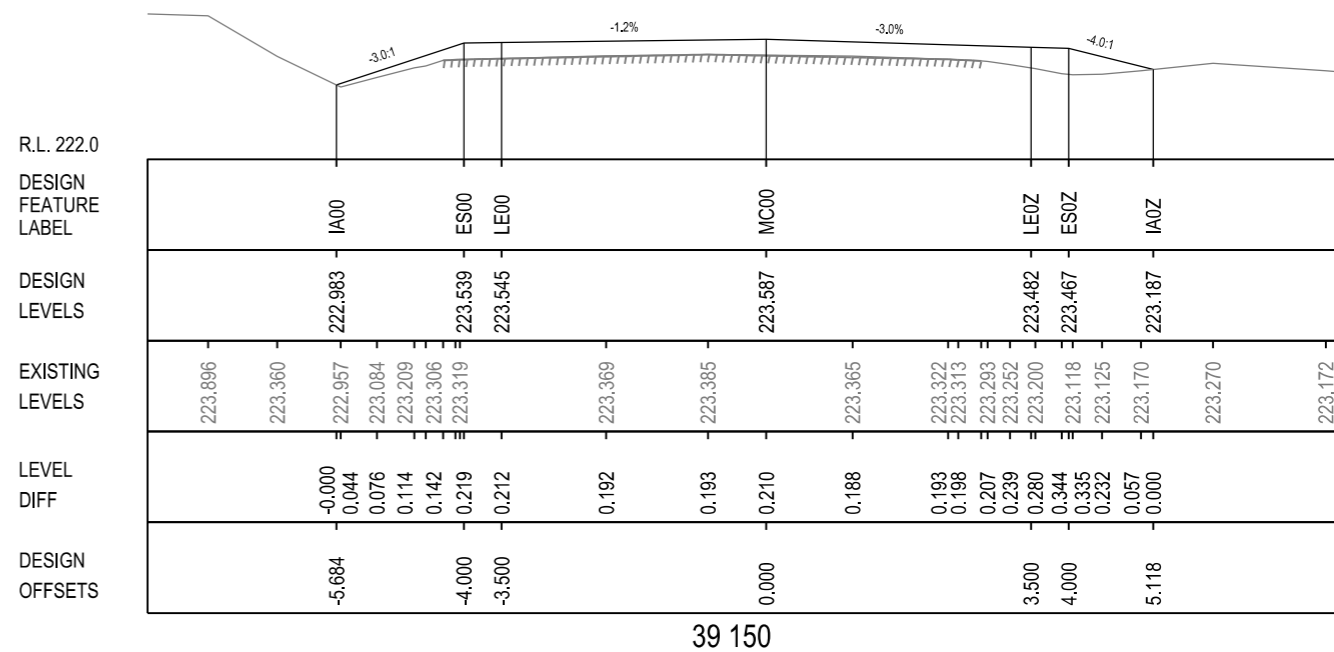
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39 100



39 175

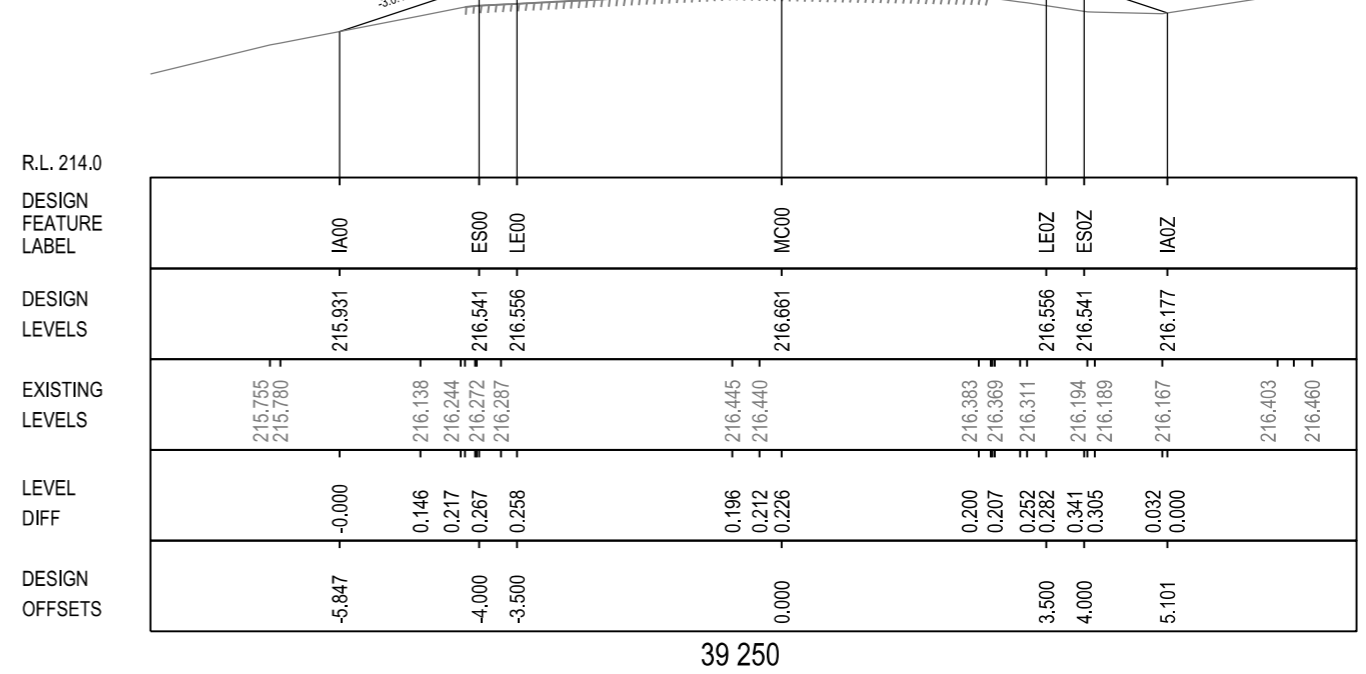
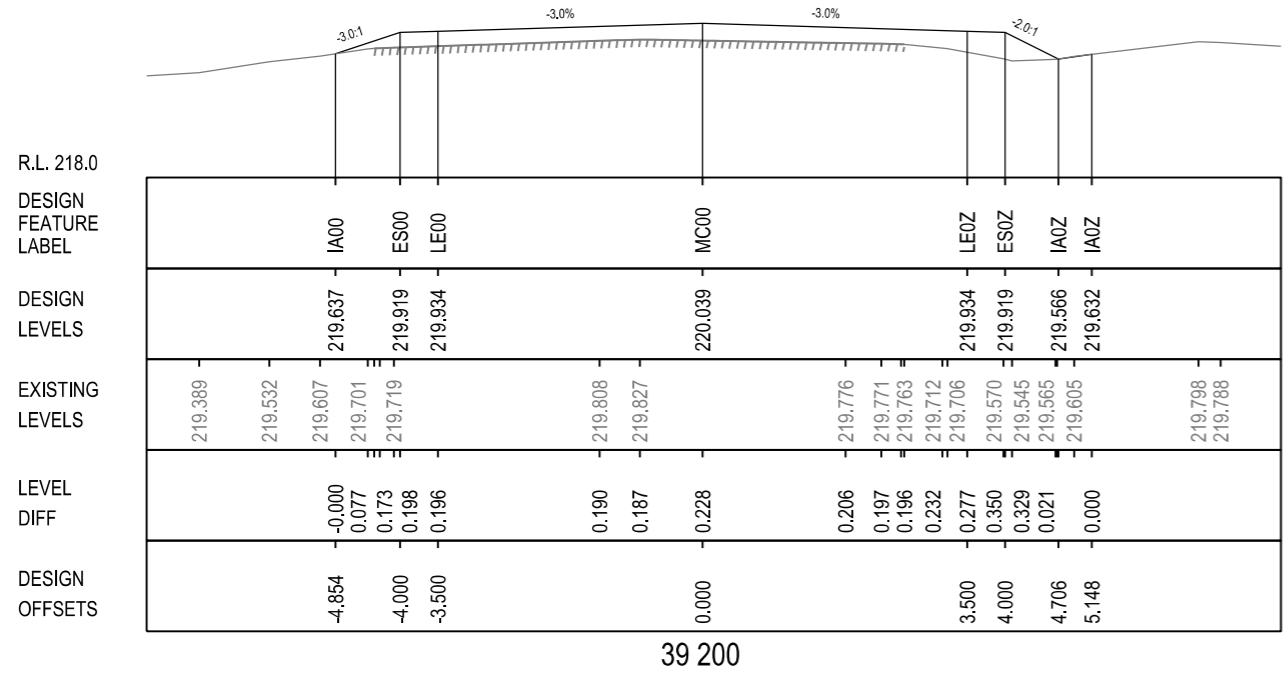
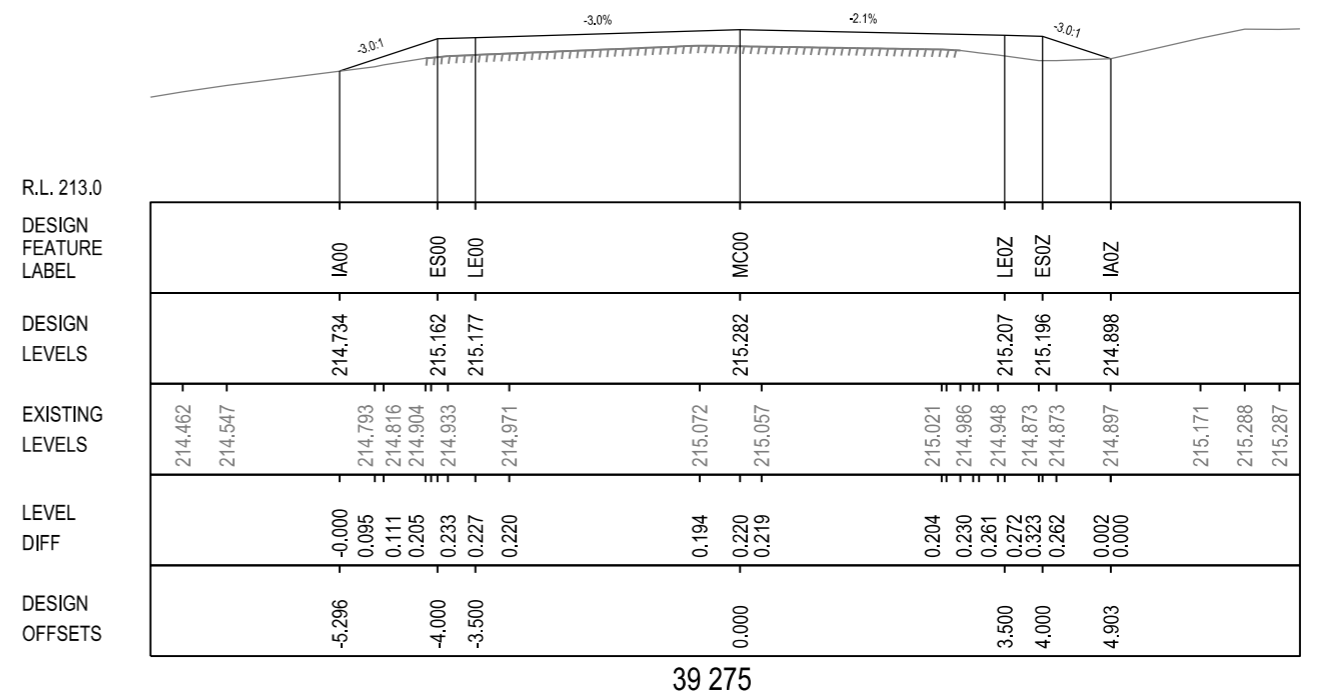
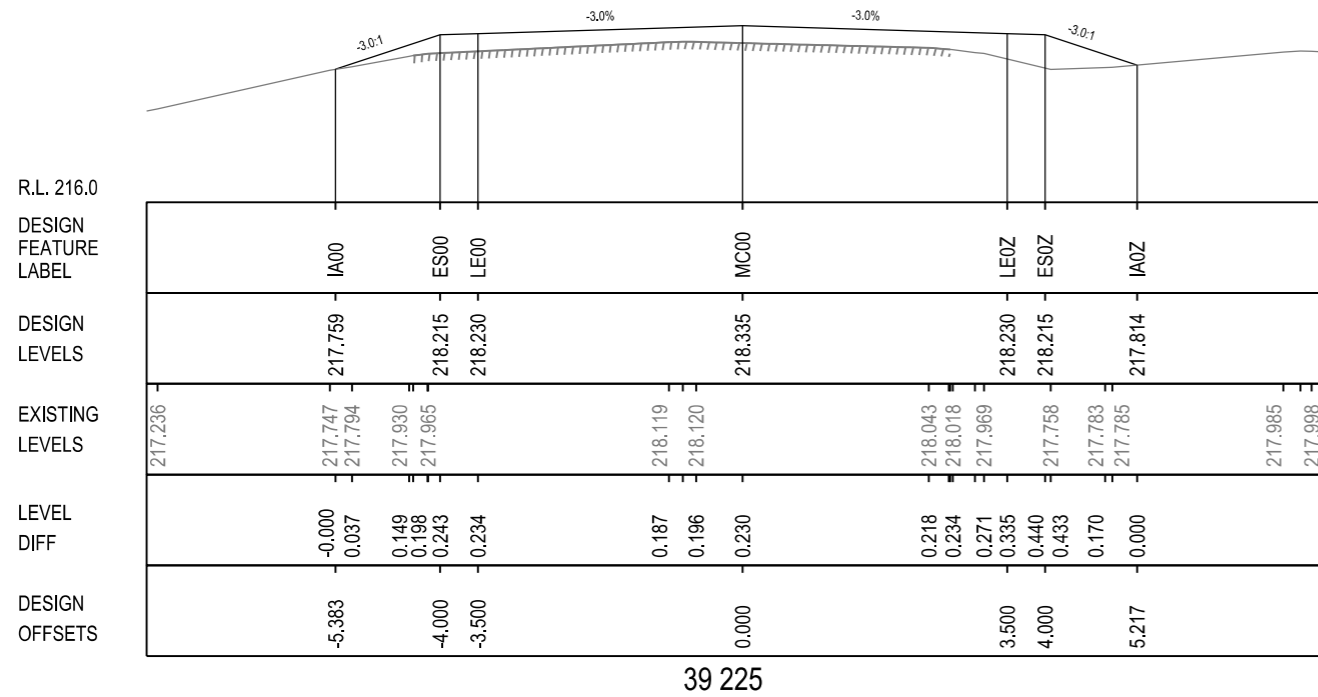


39 150

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallanganee Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeeRangeWillock_Design_JFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:20 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 850 TO 38 875	A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	
							TNSW REGISTRATION No. DS2020/00063	PART 1	
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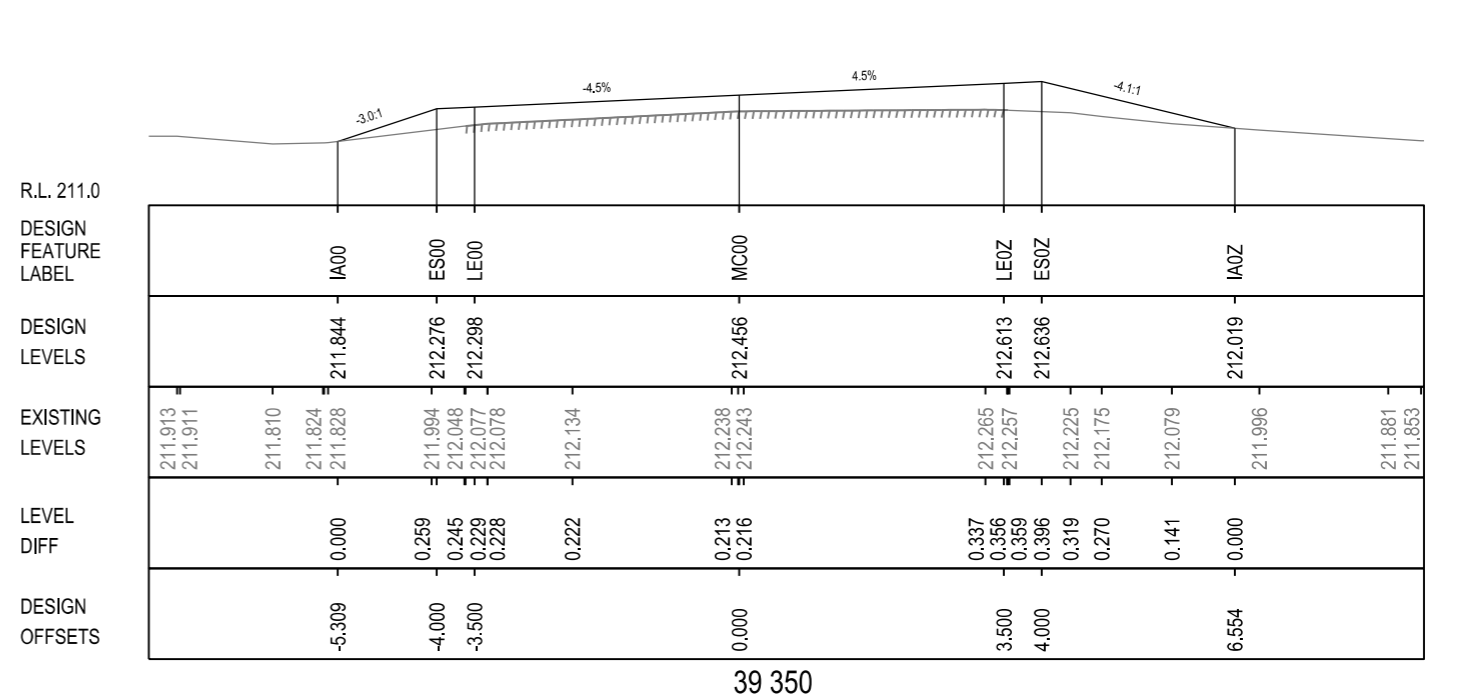
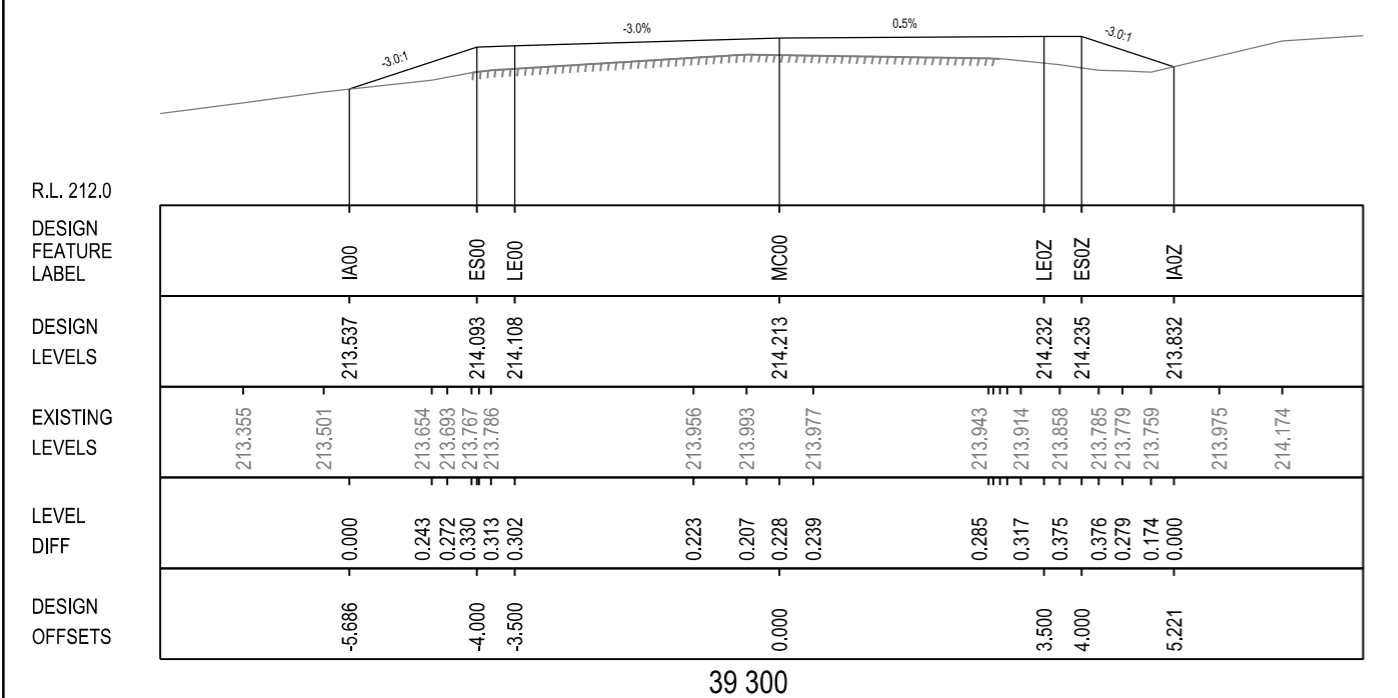
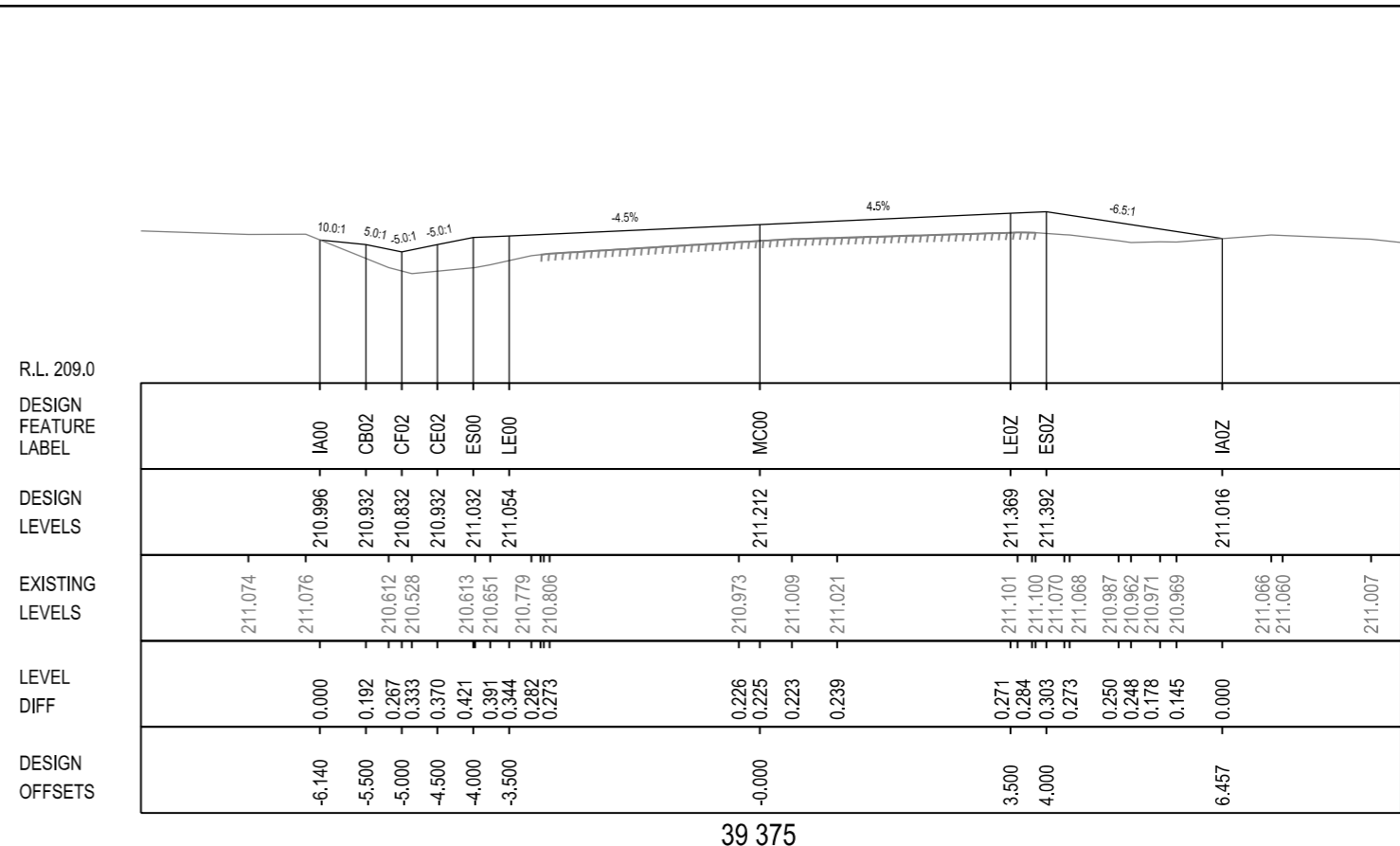
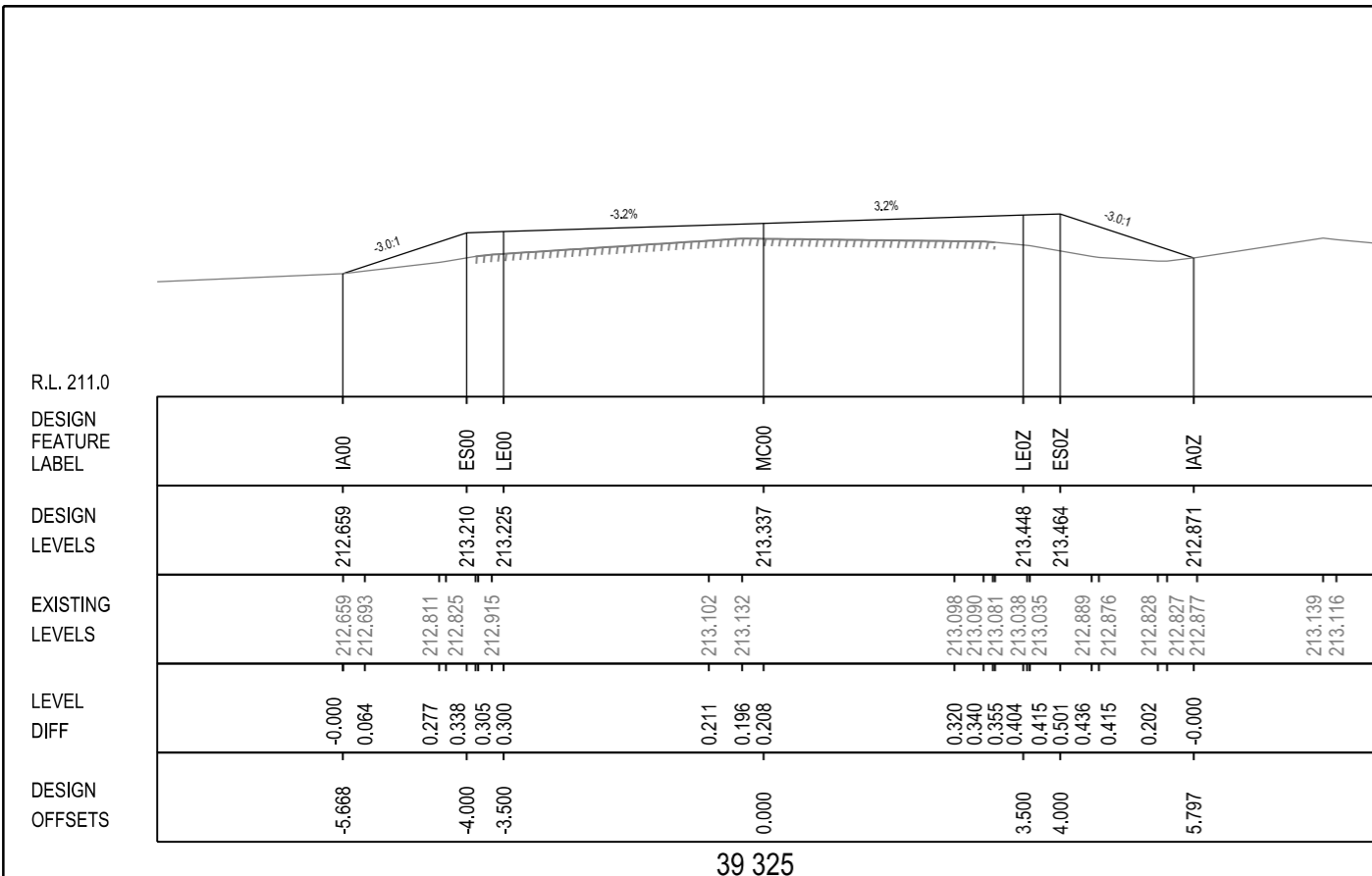
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	PREPARED FOR	TNSW REGISTRATION No.	PART
						0 1 2 3 4 SCALE 1:100m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	DS2020/00063	1
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	ISSUE STATUS	QA4331765	A
								DESIGN MANAGER	D. JOHNSON	DETAIL DESIGN	RC-0024	
								PROJECT MANAGER	R. GERSERKOWSKI			

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_Mallangane Range Willock_Design_JFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:21 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 38 950 TO 38 975	A3		
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No. APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TITLE NAME DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1		
CO-ORDINATE SYSTEM MGA ZONE 56			HEIGHT DATUM AHD		REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0025	ISSUE A

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50mm ON A3 SIZE ORIGINAL

R.L. 206.0

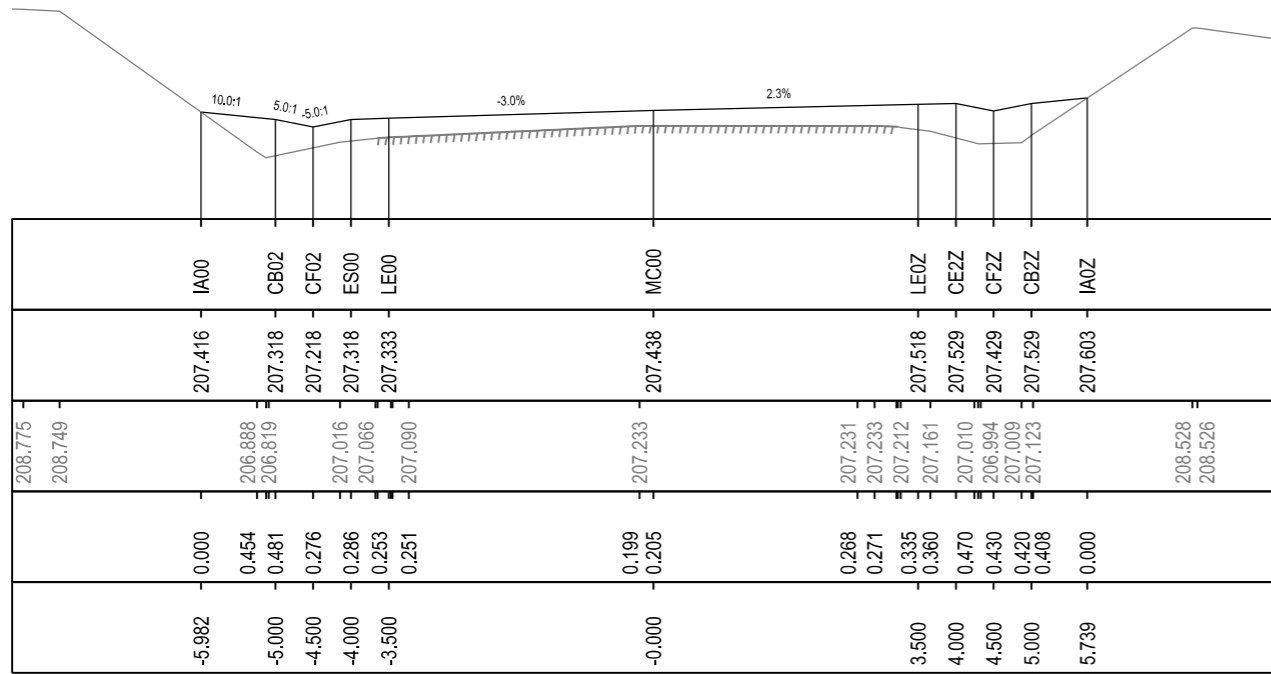
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DESIGN LEVELS

EXISTING LEVELS

LEVEL DIFF

DESIGN OFFSETS



39 425

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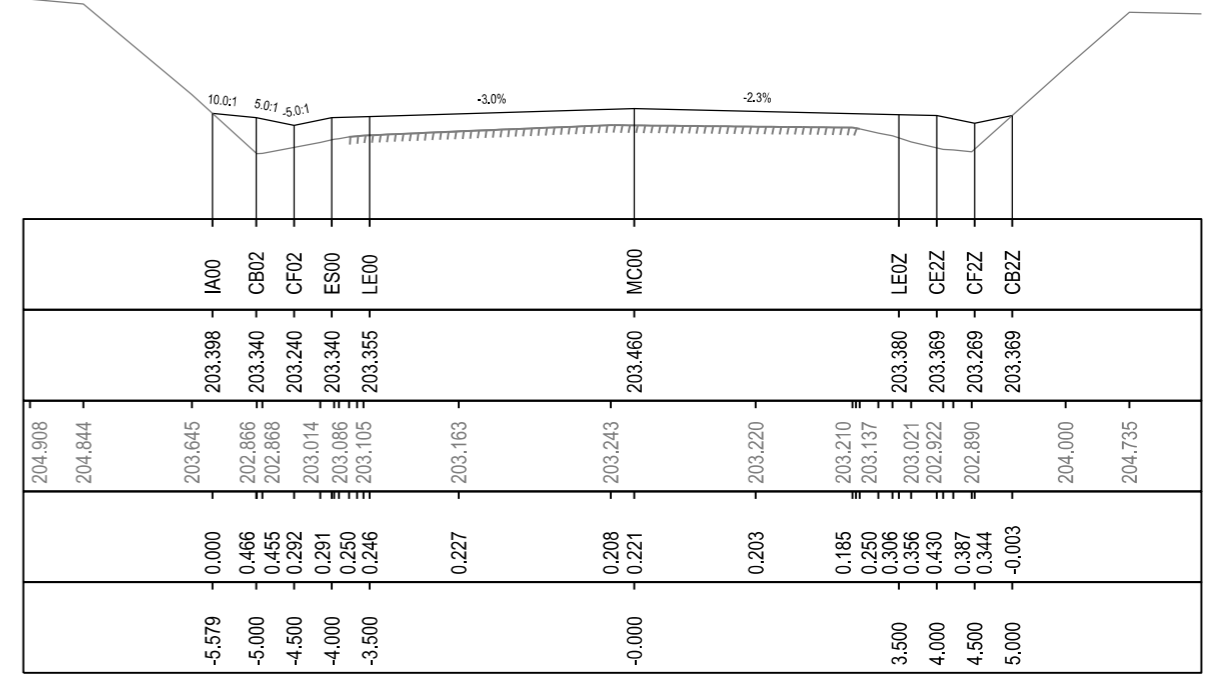
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EXISTING LEVELS

LEVEL DIFF

DESIGN OFFSETS



39 475

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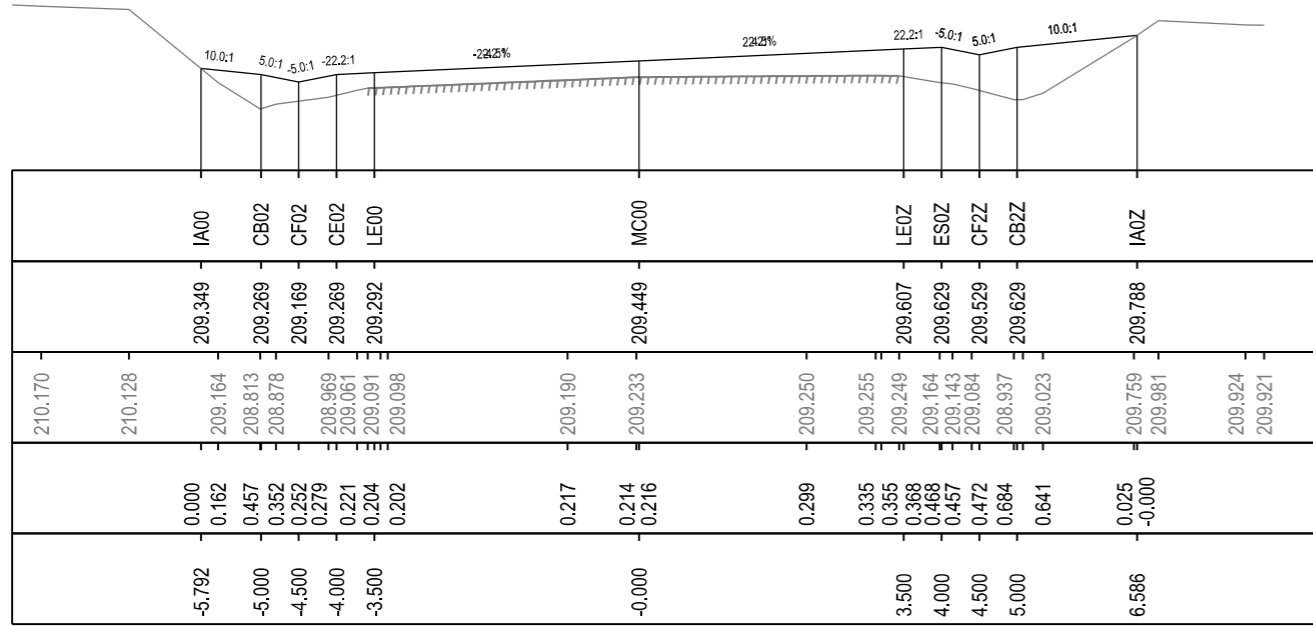
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EXISTING LEVELS

LEVEL DIFF

DESIGN OFFSETS



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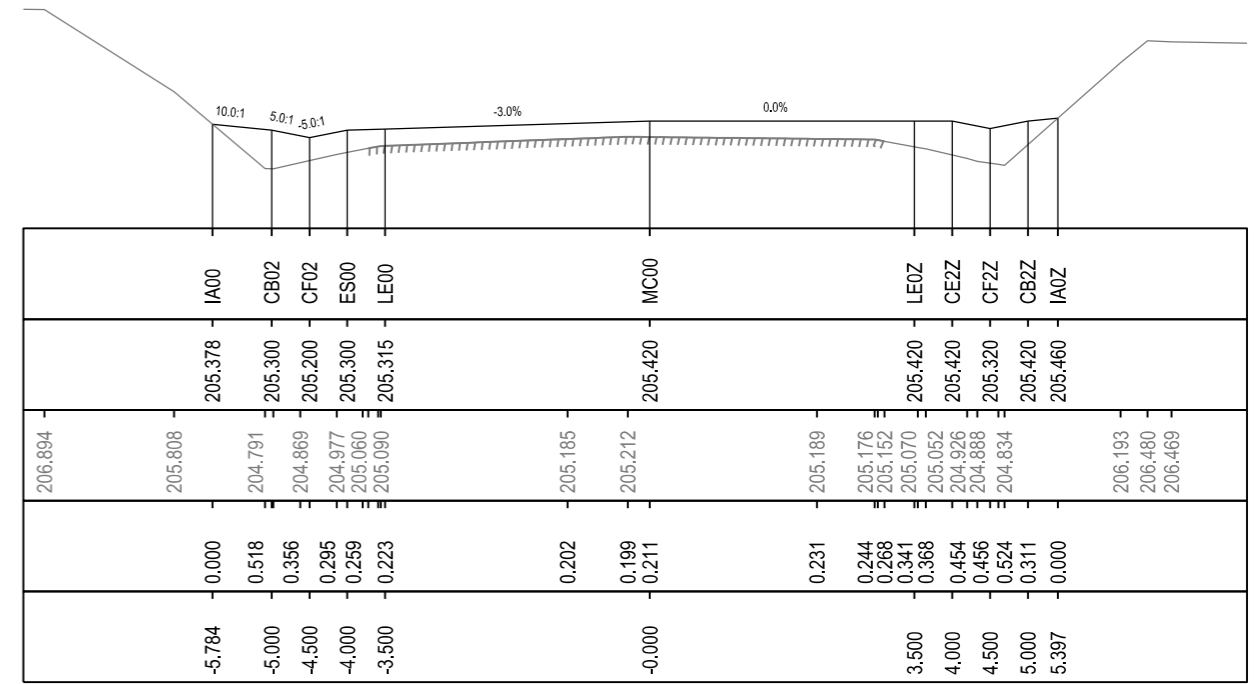
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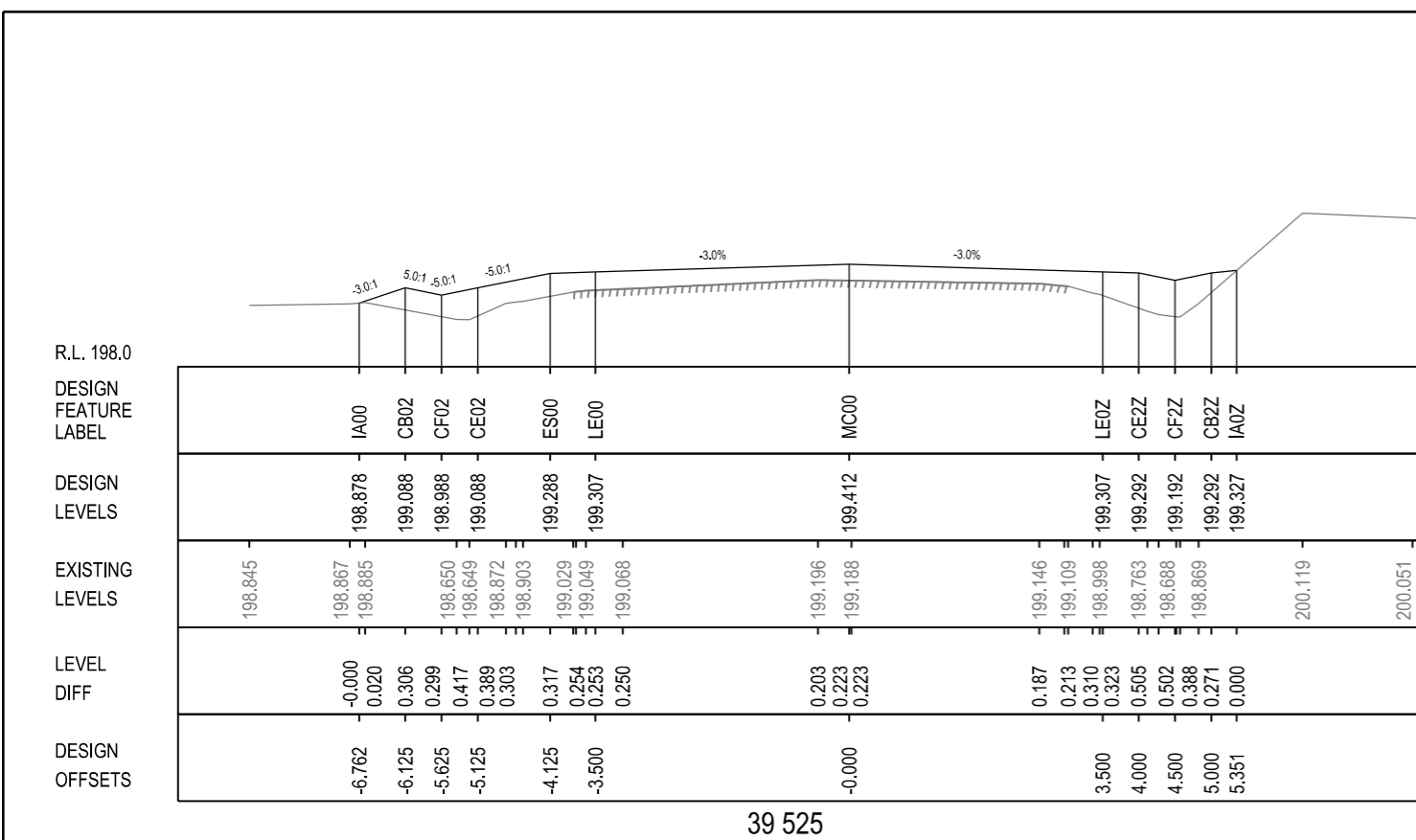


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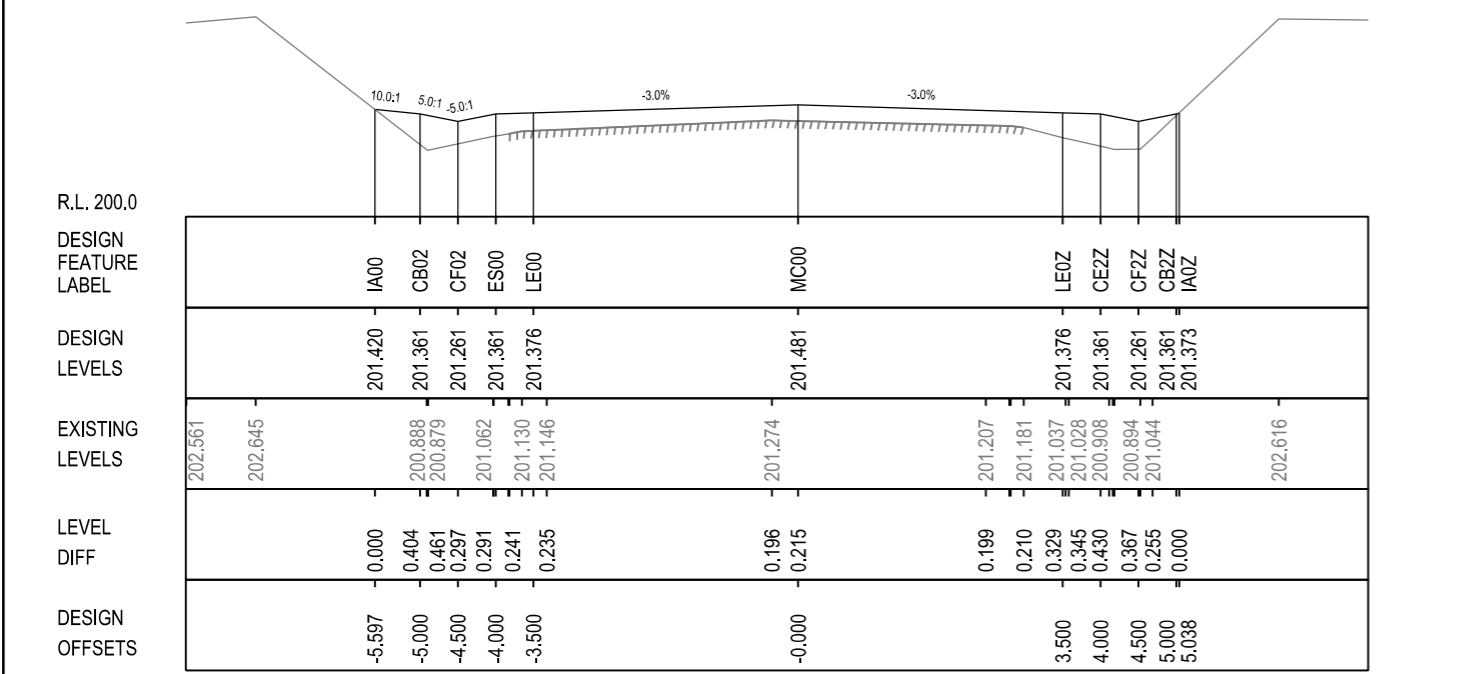
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0026	PART 1	ISSUE A

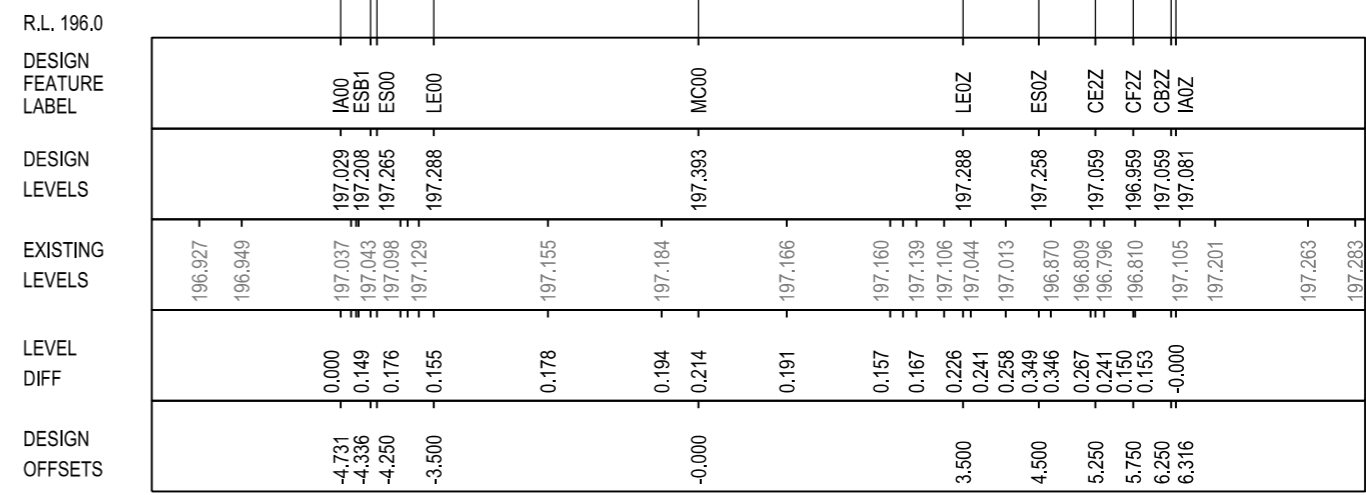
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39 525



39 500

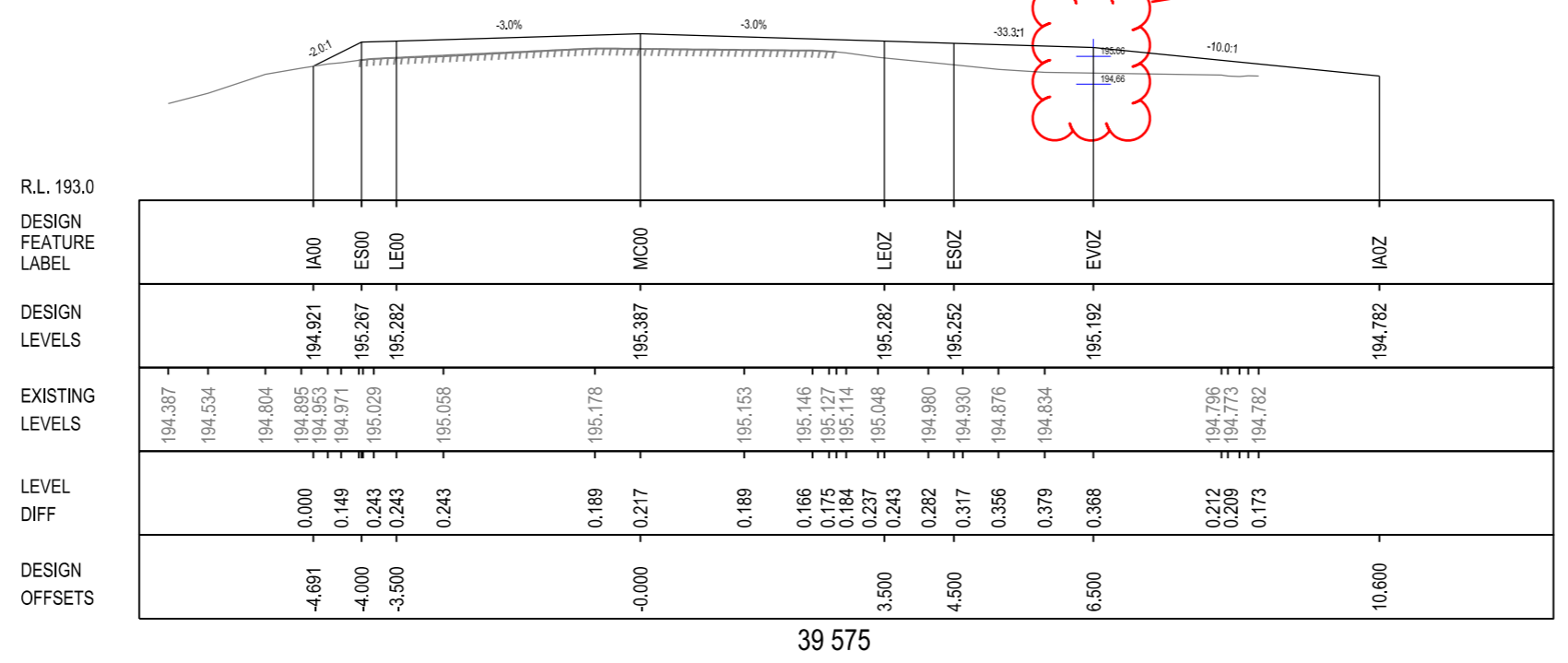
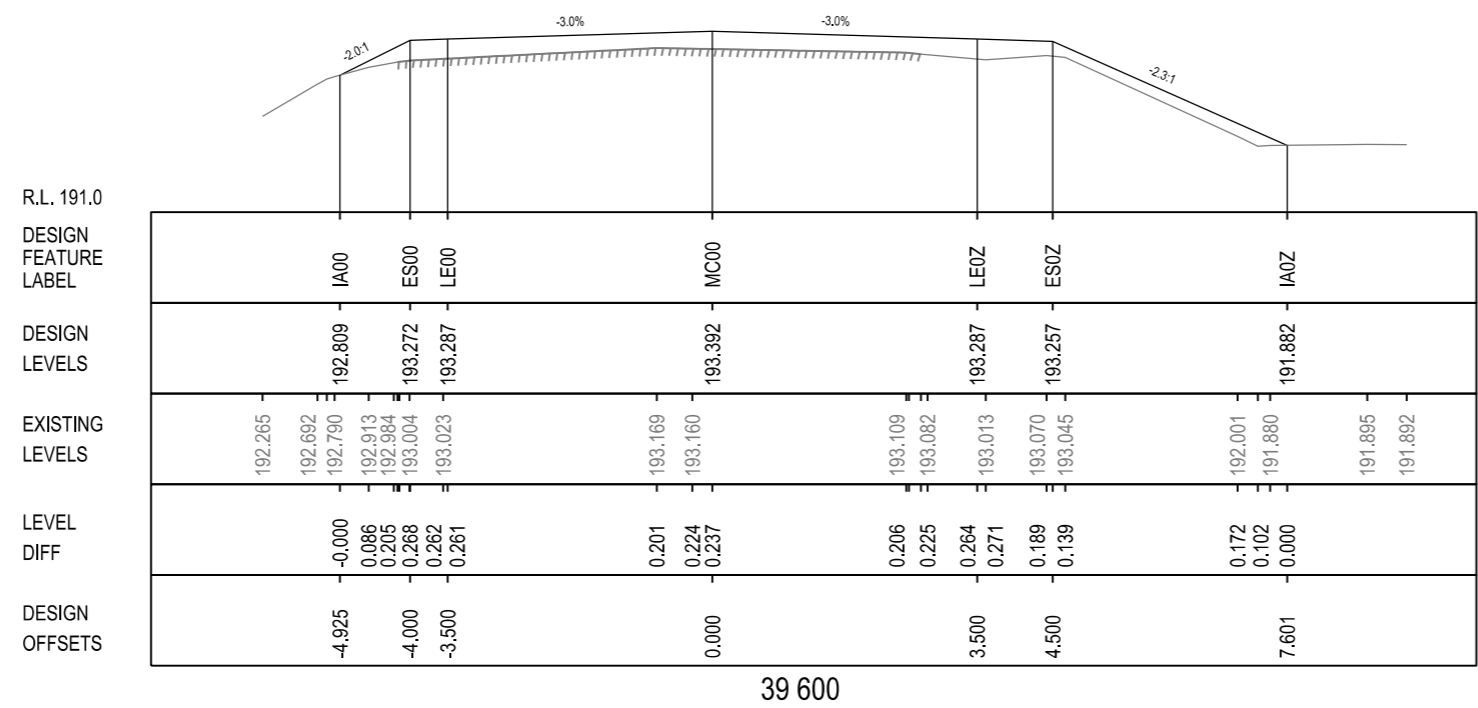


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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE
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						PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
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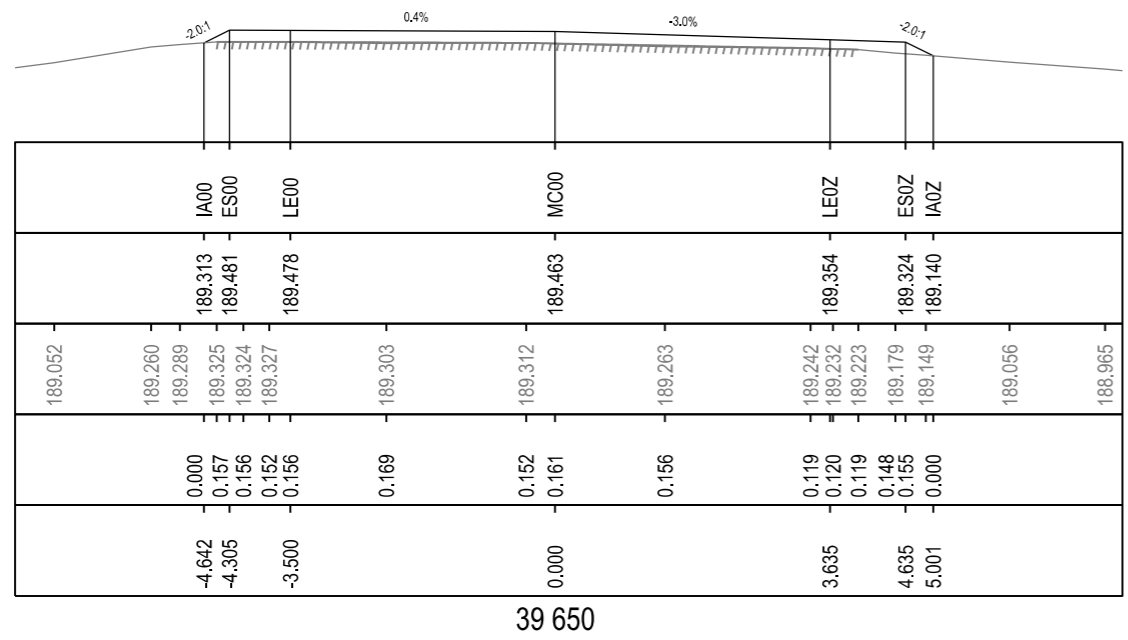


Check levels on pipe schedule on plan view sheet

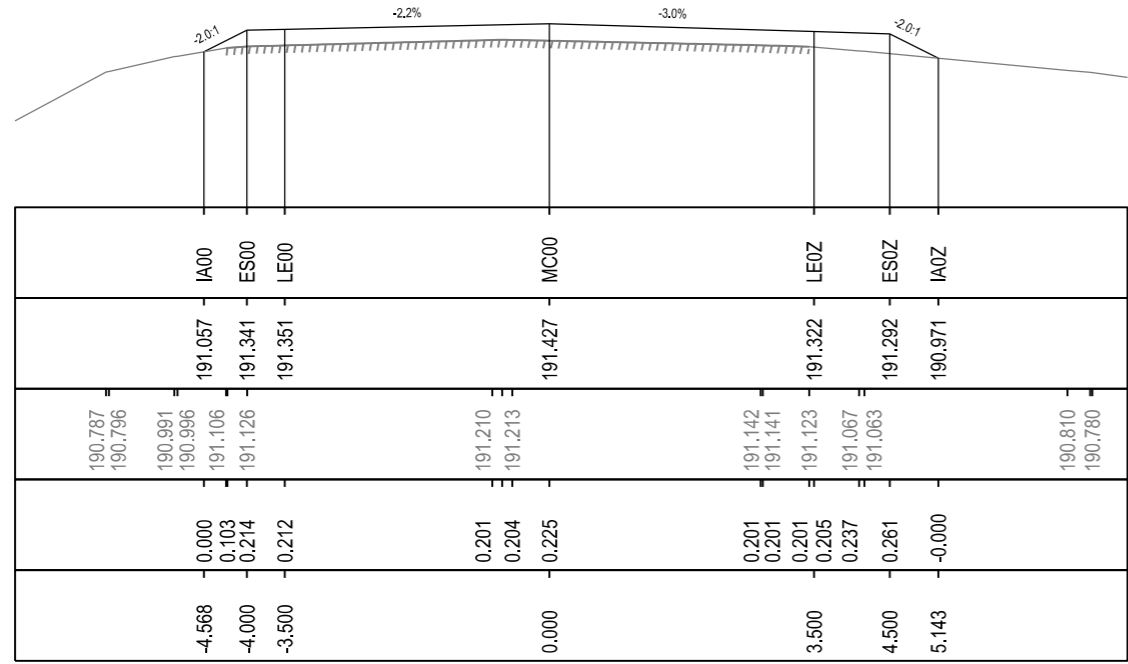
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EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No. APPROVAL	SCALES ON A3 SIZE DRAWING 0 1 2 3 4 SCALE 1:100m	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
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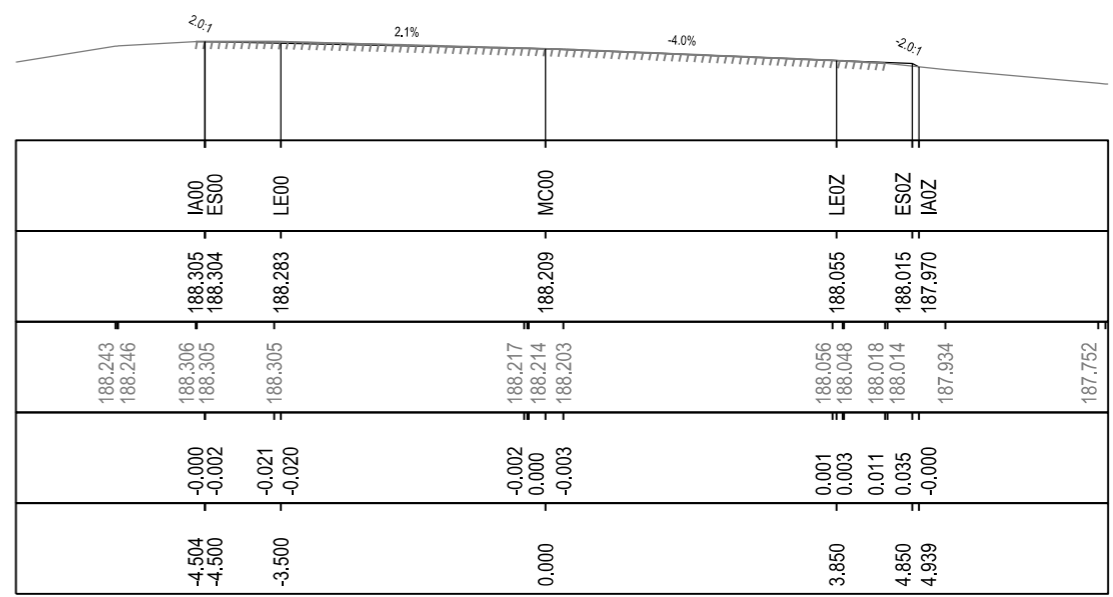
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50mm ON A3 SIZE ORIGINAL



39 650



39 625



39 666

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallingane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn			DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallinganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:23 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 39 300 TO 39 375	A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE	NAME
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						CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		DRG CHECK	D. JOHNSON
										DESIGN	D. TIGHT
										DESIGN CHECK	D. JOHNSON
										DESIGN MANAGER	D. JOHNSON
										PROJECT MANAGER	R. GERSERKOWSKI
								PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063 ISSUE STATUS DETAIL DESIGN	
								EDMS No. QA4331765		SHEET No. RC-0029	
								PART 1		ISSUE A	

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50mm ON A3 SIZE ORIGINAL

0 5 10 15 20 25 30 35 40 45

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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn			DESIGN LOT CODE N2019070		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt			PLOT DATE / TIME 11/07/2022 1:12:23 PM		PLOT BY tightd		CLIENT Transport for NSW		KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 39 400 TO 39 475		A3		
EXTERNAL REFERENCE FILES			REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063	PART 1		
								SCALE 1:100m		TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		DRAWN D. TIGHT DRG CHECK D. JOHNSON DESIGN D. TIGHT DESIGN CHECK D. JOHNSON DESIGN MANAGER D. JOHNSON PROJECT MANAGER R. GERSERKOWSKI	REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0030	ISSUE A
CO-ORDINATE SYSTEM MGA ZONE 56						HEIGHT DATUM AHD												

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL

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NOT FOR CONSTRUCTION


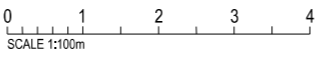
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CO-ORDINATE SYSTEM MGA ZONE 56						HEIGHT DATUM AHD						© Transport for NSW				

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50mm ON A3 SIZE ORIGINAL

200mm 

NOT FOR CONSTRUCTION

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock st S5390_S5400\DRAWINGS\Final\DS2020-00063-04-RC.dgn			DESIGN LOT CODE N2019070		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt			PLOT DATE / TIME 11/07/2022 1:12:24 PM		PLOT BY tightd		CLIENT  Transport for NSW		KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO CROSS SECTIONS HW16 - BRUXNER HIGHWAY - MC00 - 39 575 TO 39 650		A3		
EXTERNAL REFERENCE FILES			REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063	PART 1		
								 SCALE 1:100m		TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN		DRAWN D. TIGHT	REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RC-0032	ISSUE A
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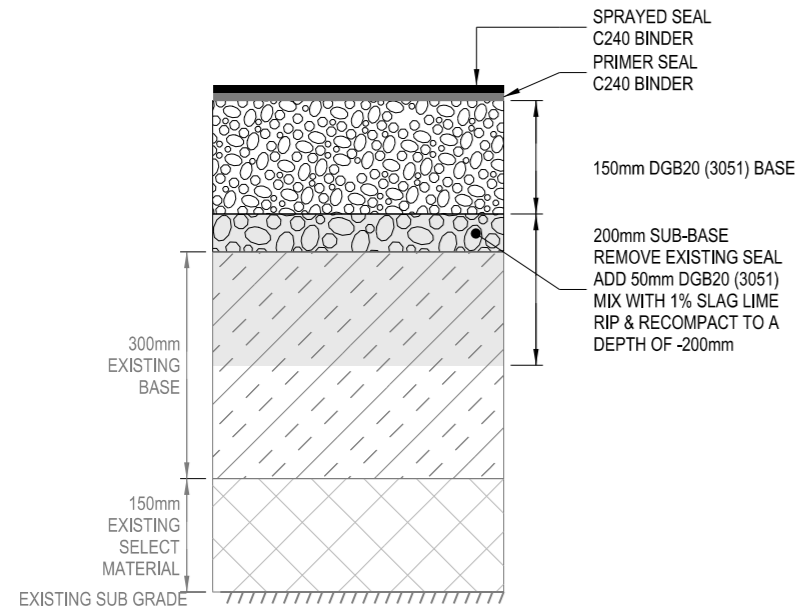
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50mm ON A3 SIZE ORIGINAL

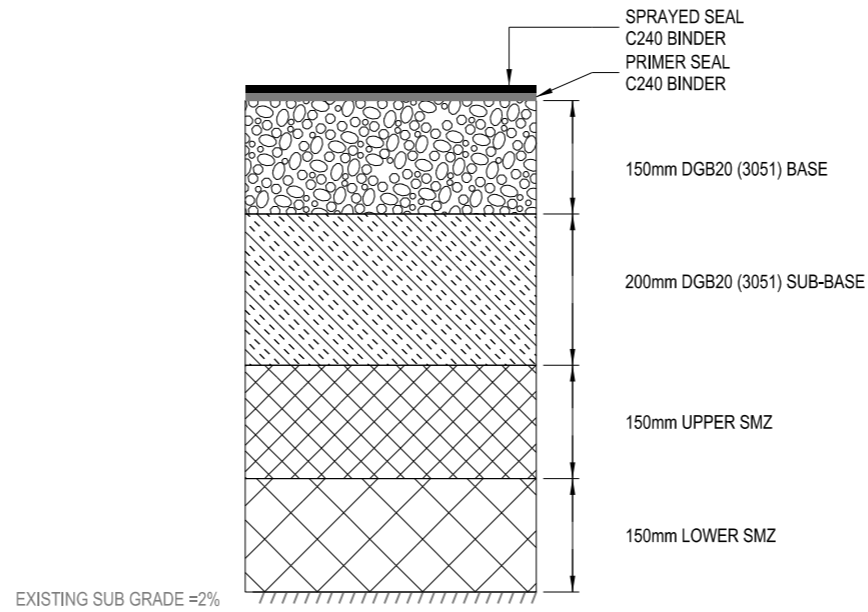
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NOT FOR CONSTRUCTION

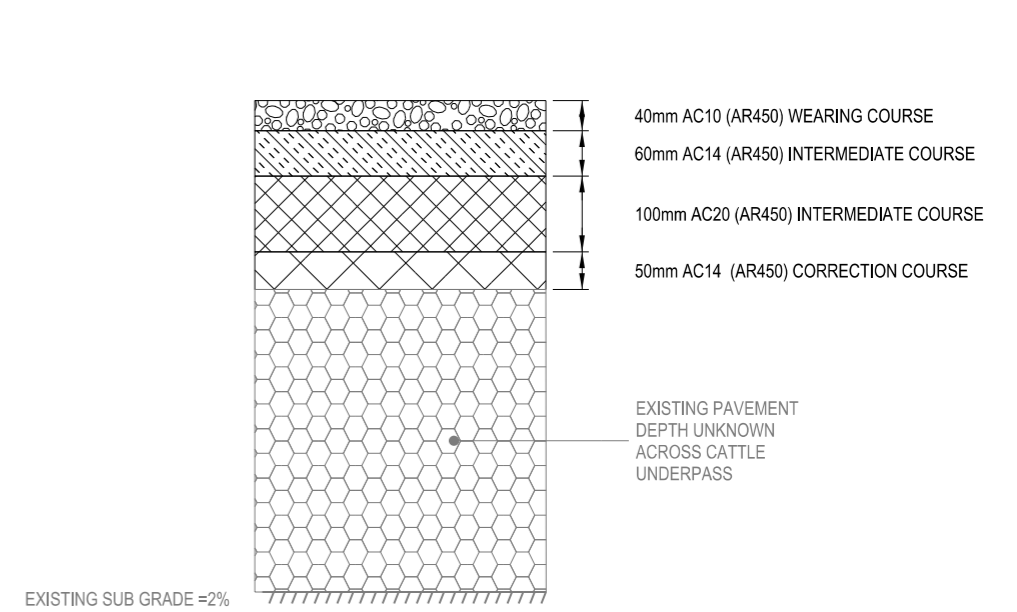
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EXTERNAL REFERENCE FILES			REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE	PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/000063	PART 1			
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							CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		DRG CHECK D. JOHNSON	DESIGN CHECK D. JOHNSON			DESIGN D. TIGHT	DESIGN CHECK D. JOHNSON	DESIGN MANAGER D. JOHNSON	PROJECT MANAGER R. GERSERKOWSKI	PROJECT MANAGER R. GERSERKOWSKI



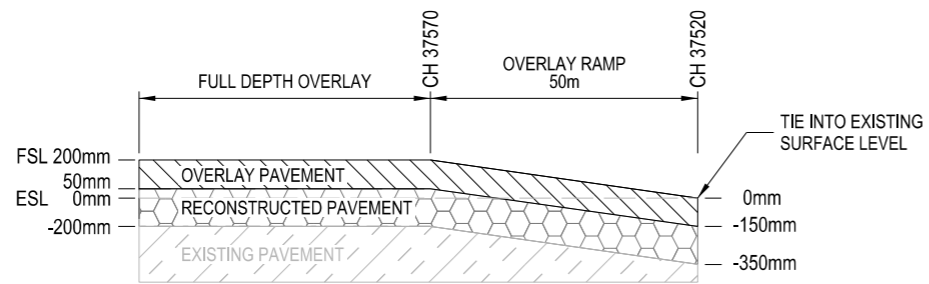
PAVEMENT TREATMENT TYPE 1
GRANULAR OVERLAY W/ SHOULDER WIDENING



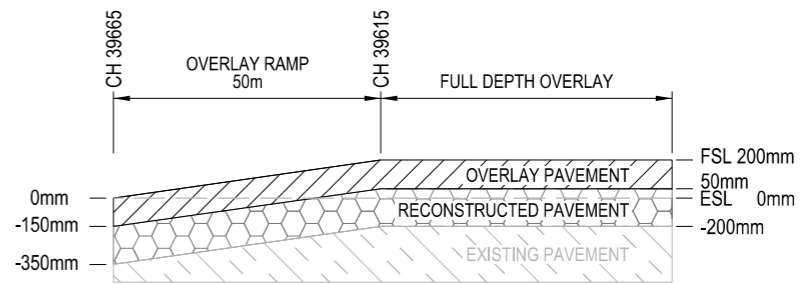
PAVEMENT TREATMENT TYPE 2
PT2 - GRANULAR OVERLAY W/ FULL DEPTH PAVEMENT WIDENING



PAVEMENT TREATMENT TYPE 3
AC PLUG



LONGITUDINAL TIE IN
EASTERN LIMIT OF WORKS



LONGITUDINAL TIE IN
WESTERN LIMIT OF WORKS

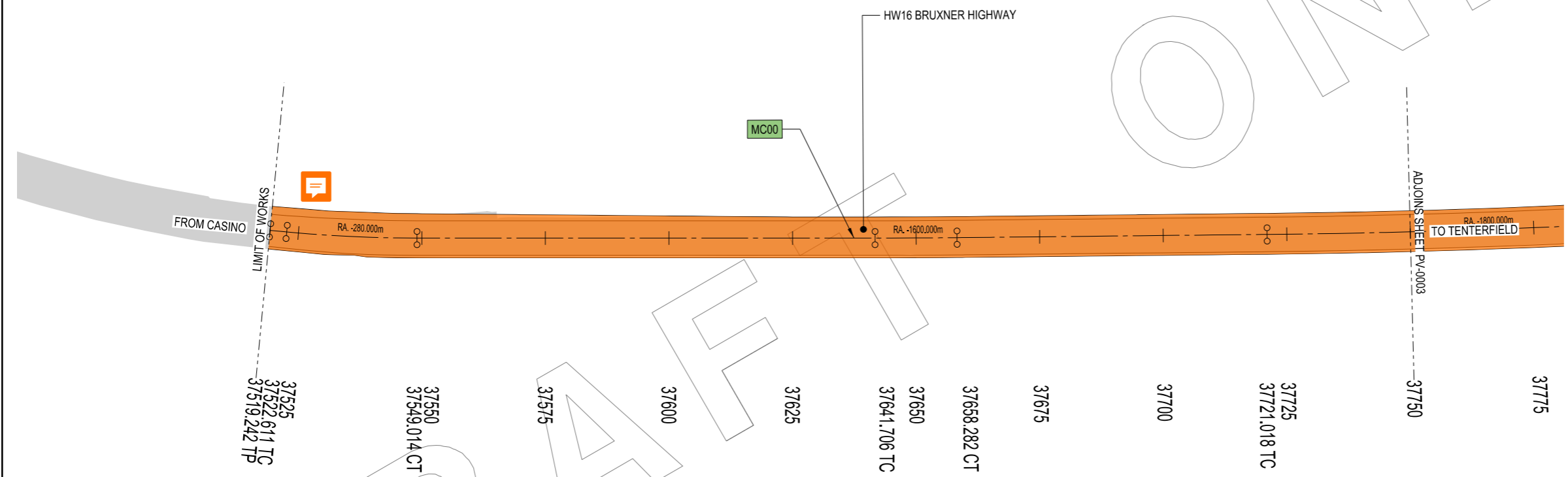
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE NAME
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								DRG CHECK D. JOHNSON
								DESIGN D. TIGHT
								DESIGN CHECK D. JOHNSON
								DESIGN MANAGER D. JOHNSON
								PROJECT MANAGER R. GERSERKOWSKI
								PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN
								TNSW REGISTRATION No. DS2020/00063
								ISSUE STATUS DETAIL DESIGN
								EDMS No. QA4331765
								SHEET No. PV-0001
								PART 1
								ISSUE A

LEGEND

- MC00 CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



NOTES:

1. FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTIONS ON SHEET RD-0011
2. UNLESS OTHERWISE SPECIFIED, ALL PROPERTY ACCESSES TO BE SEALED TO THE PROPERTY BOUNDARY, OR 10m BEYOND THE EDGE LINE, WHICH EVER IS LESS
3. ALL CUT FACES SHALL BE SMOOTH (MAXIMUM RELIEF OF 25mm) TO A HEIGHT OF 2m ABOVE THE BASE OF TABLE DRAIN OR CONCRETE GUTTER

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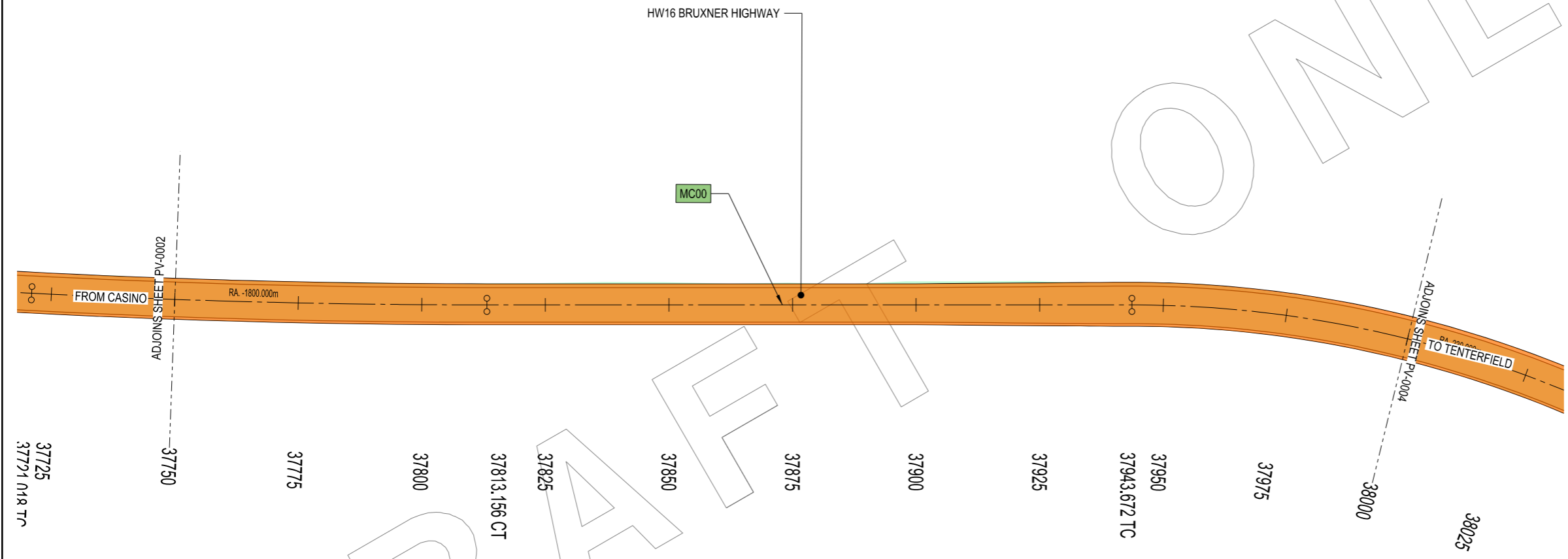
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME			
						SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI			
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. PV-0002	PART 1	ISSUE A

LEGEND

- MC00 — CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



NOTES:

1. FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTIONS ON SHEET RD-0011
2. UNLESS OTHERWISE SPECIFIED, ALL PROPERTY ACCESSES TO BE SEALED TO THE PROPERTY BOUNDARY, OR 10m BEYOND THE EDGE LINE, WHICH EVER IS LESS
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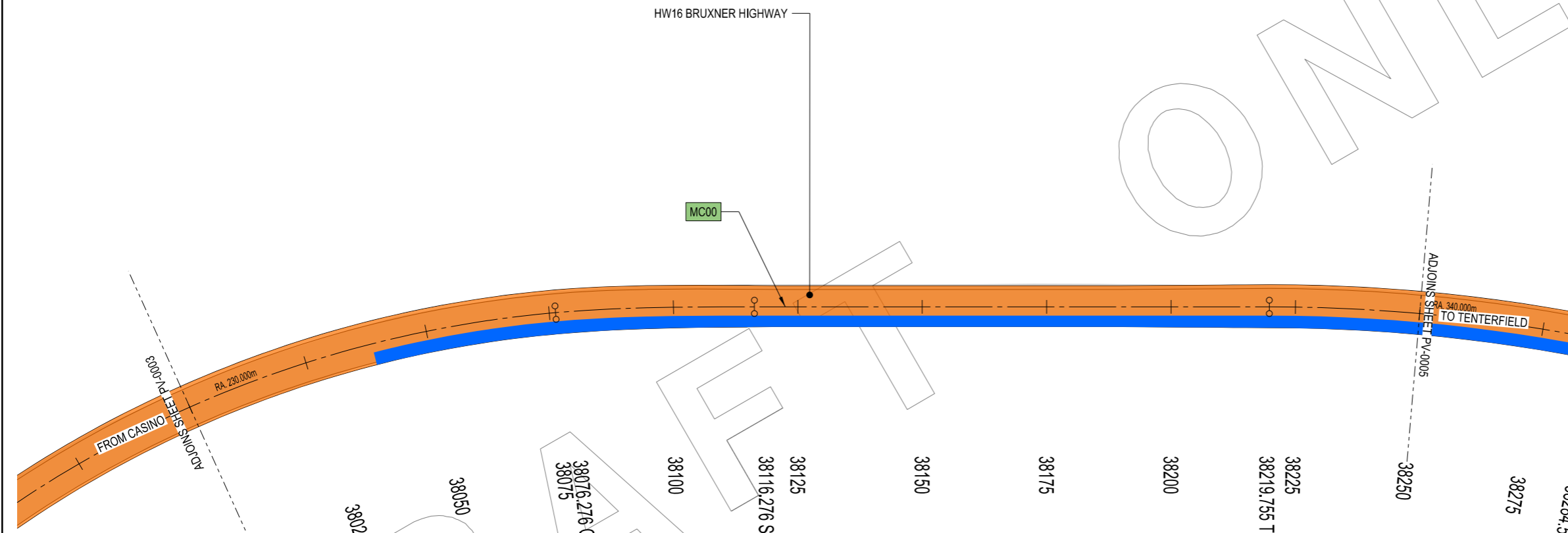
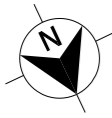
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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-07-PV.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:26 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO PAVEMENT PLAN HW16 BRUXNER HIGHWAY - MC00 - 37750 TO 38000	A3			
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME			
						SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI			
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. PV-0003	PART 1	ISSUE A

LEGEND

- CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



NOTES:

1. FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTIONS ON SHEET RD-0011
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ACCEPTED FOR CONSTRUCTION

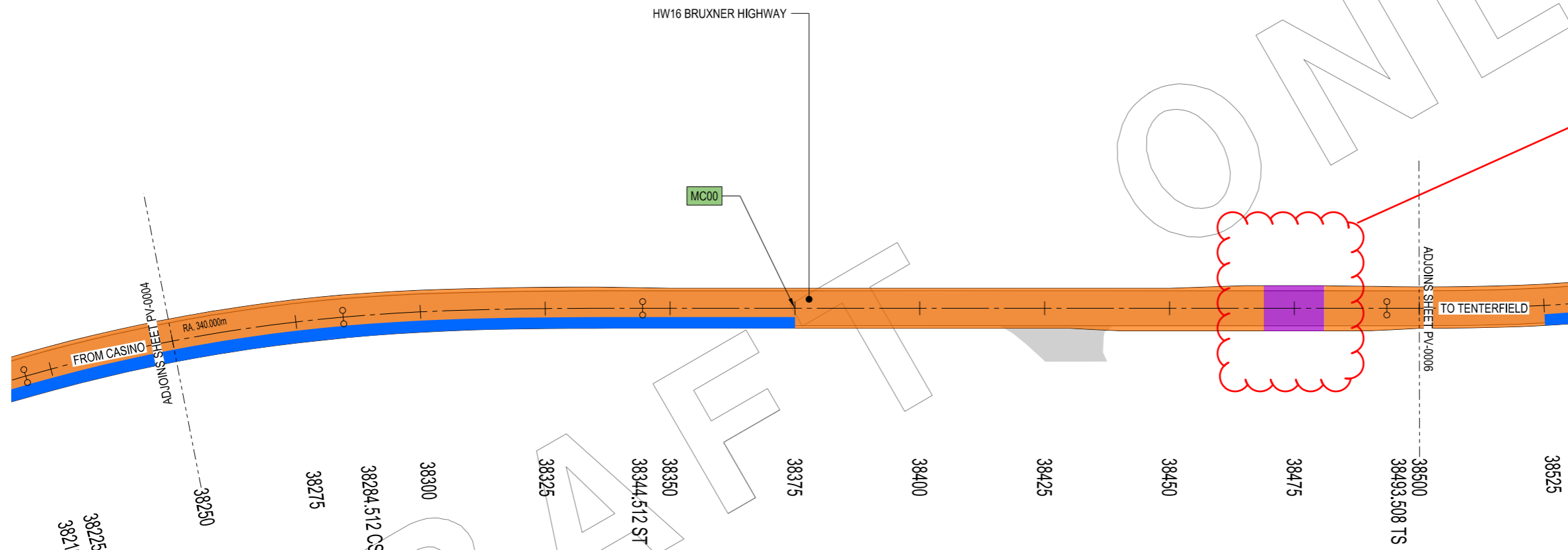
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	
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						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	
								DESIGN CHECK	D. JOHNSON	
								DESIGN MANAGER	D. JOHNSON	
								PROJECT MANAGER	R. GERSERKOWSKI	
							PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. PV-0004	ISSUE A



LEGEND

- MC00 CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



Please indicate in legend.

DRAFT

ONLY

NOTES:

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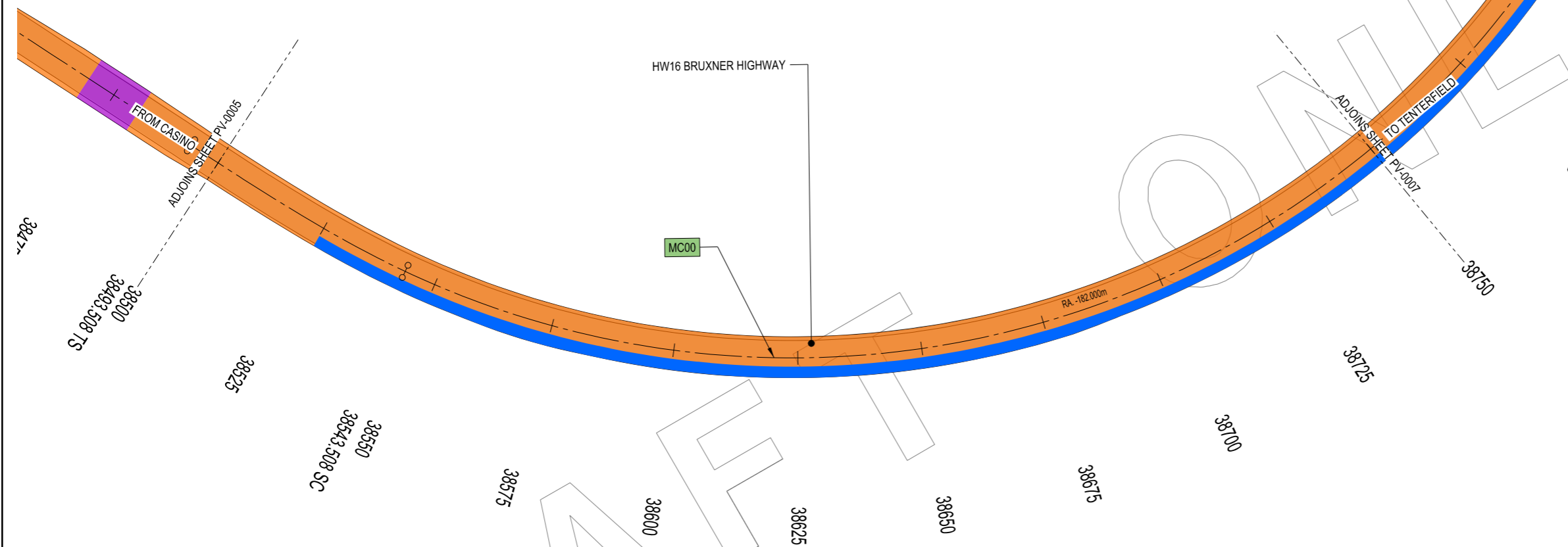
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME
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						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063
						EDMS No. QA4331765	SHEET No. PV-0005	ISSUE STATUS DETAIL DESIGN	PART 1 ISSUE A

LEGEND

- MC00 CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



NOTES:

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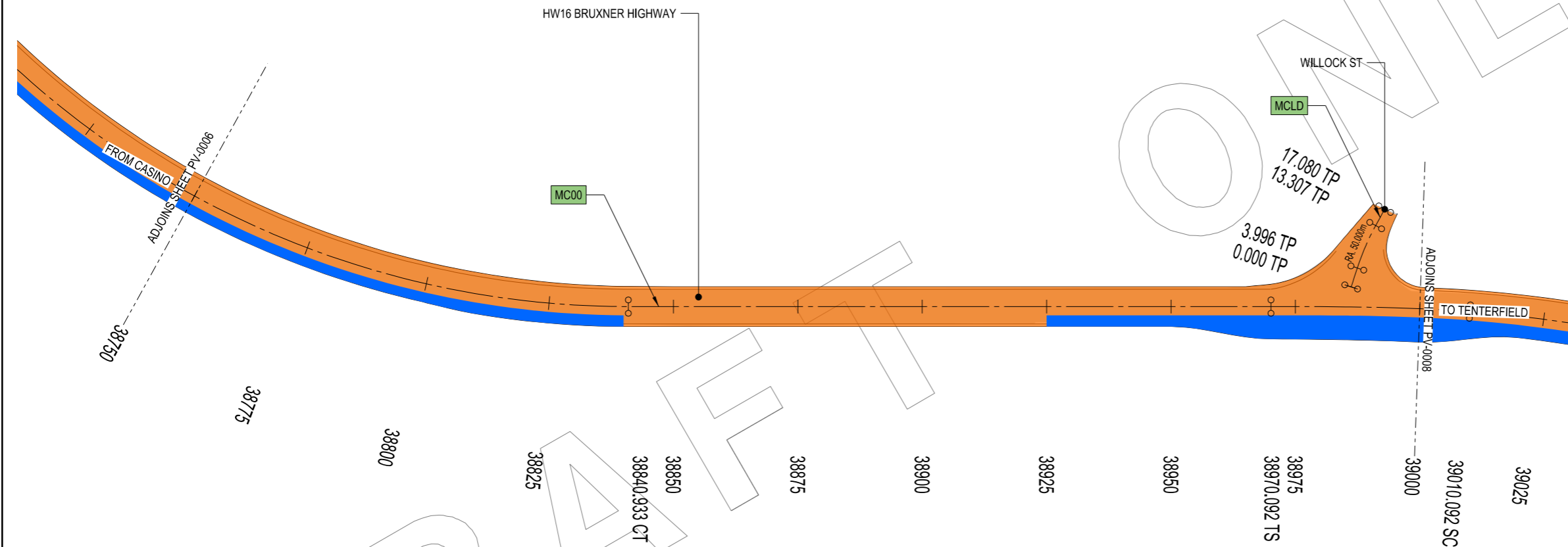
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME			
							TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI			
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. PV-0006	PART 1	ISSUE A

LEGEND

- MC00 CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



DRAFT

NOTES:

1. FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTIONS ON SHEET RD-0011
2. UNLESS OTHERWISE SPECIFIED, ALL PROPERTY ACCESSES TO BE SEALED TO THE PROPERTY BOUNDARY, OR 10m BEYOND THE EDGE LINE, WHICH EVER IS LESS
3. ALL CUT FACES SHALL BE SMOOTH (MAXIMUM RELIEF OF 25mm) TO A HEIGHT OF 2m ABOVE THE BASE OF TABLE DRAIN OR CONCRETE GUTTER

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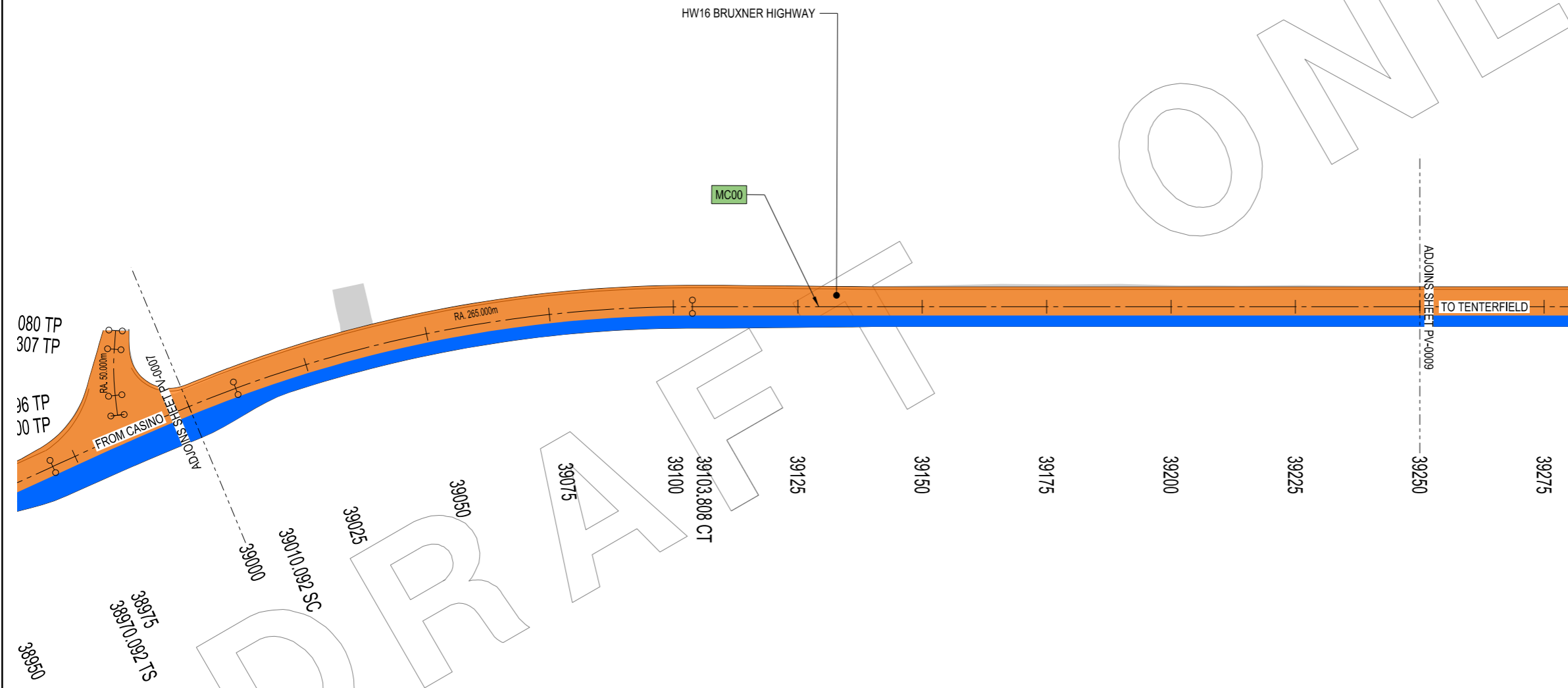
ACCEPTED FOR CONSTRUCTION

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-07-PV.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt	PLOT DATE / TIME 11/07/2022 1:12:28 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO PAVEMENT PLAN HW16 BRUXNER HIGHWAY - MC00 - 38750 TO 39000	A3						
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	PREPARED FOR	TRNSW REGISTRATION No.	PART		
							TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	REGIONAL MAINTENANCE DELIVERY NORTHERN	DS2020/00063	1		
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	PROJECT MANAGEMENT NORTHERN	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. PV-0007	ISSUE A
								DESIGN CHECK	D. JOHNSON					
								DESIGN MANAGER	D. JOHNSON					
								PROJECT MANAGER	R. GERSERKOWSKI					

LEGEND

- MC00 CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



NOTES:

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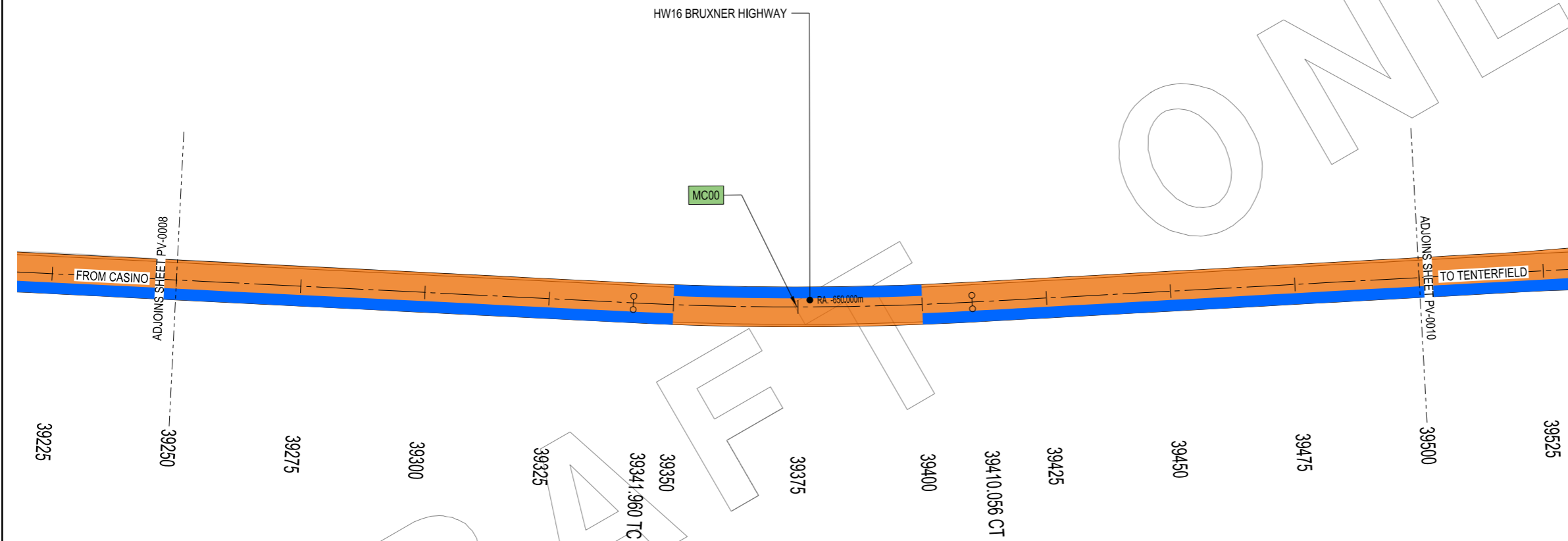
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DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-07-PV.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:28 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANEE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO PAVEMENT PLAN HW16 BRUXNER HIGHWAY - MC00 - 39000 TO 39250	A3			
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME			
						SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI			
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. PV-0008	PART 1	ISSUE A

LEGEND

- MC00 — CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



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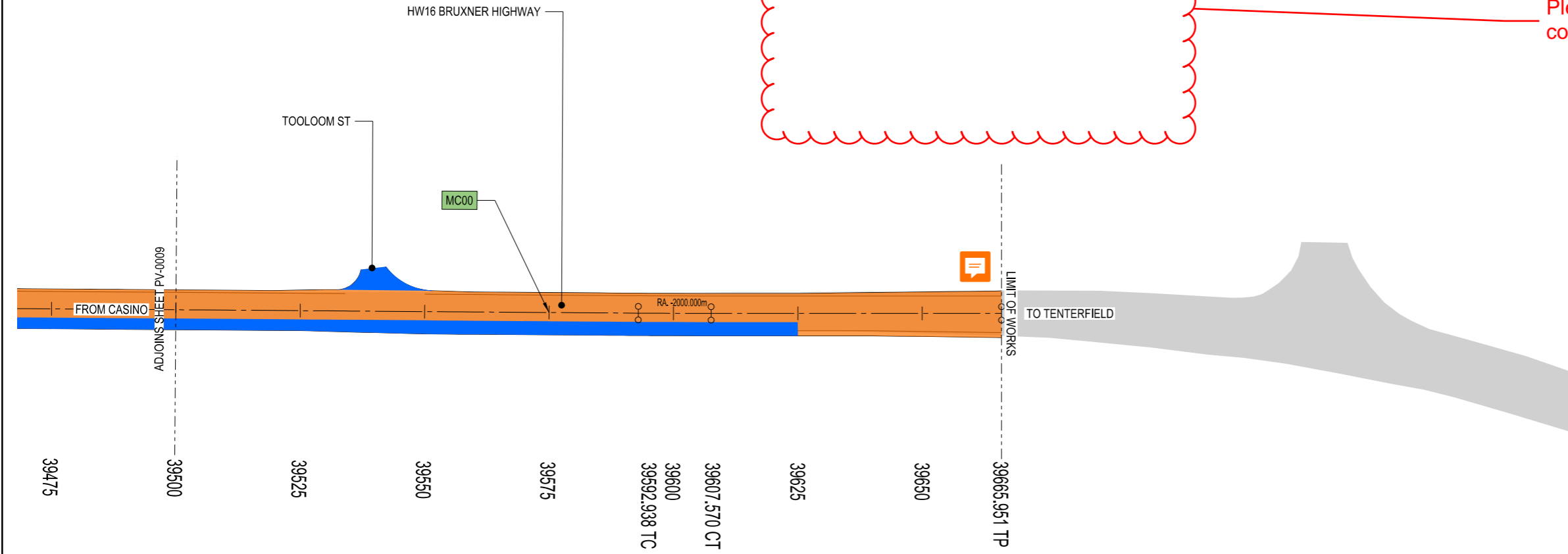
DRAWING FILE LOCATION / NAME K:\PROJECTS\16_BRUXNER HIGHWAY\N2019070 Mallangane Range and Willock at S5390_S5400\DRAWINGS\Final\DS2020-00063-07-PV.dgn		DESIGN LOT CODE N2019070	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING HW16_MallanganeRangeWillock_Design_IFC_V1.txt		PLOT DATE / TIME 11/07/2022 1:12:29 PM	PLOT BY tightd	CLIENT Transport for NSW	KYOGLE COUNCIL HW16 - BRUXNER HIGHWAY MALLANGANE RANGE - WILLOCK STREET S5390-5400 37.52km TO 39.66km FROM CASINO PAVEMENT PLAN HW16 BRUXNER HIGHWAY - MC00 - 39250 TO 39500	A3	
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	
							TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	DRAWN	D. TIGHT	
						CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD	DESIGN CHECK	D. JOHNSON	
								DESIGN CHECK	D. JOHNSON	
								DESIGN MANAGER	D. JOHNSON	
								PROJECT MANAGER	R. GERSERKOWSKI	
							PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1	
							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. PV-0009	ISSUE A

LEGEND

- CONTROL STRING LABEL
- EXISTING PAVEMENT
- PT1 - GRANULAR OVERLAY W/ MINOR SHOULDER WORK
- PT2 - FULL DEPTH GRANULAR PAVEMENT



Please add isopatch contour design.



NOTES:

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EXTERNAL REFERENCE FILES		REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY																							
							<p>SCALE 1:1000m</p>		TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN																							
							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>TITLE</th><th>NAME</th></tr> <tr><td>DRAWN</td><td>D. TIGHT</td></tr> <tr><td>DRG CHECK</td><td>D. JOHNSON</td></tr> <tr><td>DESIGN</td><td>D. TIGHT</td></tr> <tr><td>DESIGN CHECK</td><td>D. JOHNSON</td></tr> <tr><td>DESIGN MANAGER</td><td>D. JOHNSON</td></tr> <tr><td>PROJECT MANAGER</td><td>R. GERSERKOWSKI</td></tr> </table>		TITLE	NAME	DRAWN	D. TIGHT	DRG CHECK	D. JOHNSON	DESIGN	D. TIGHT	DESIGN CHECK	D. JOHNSON	DESIGN MANAGER	D. JOHNSON	PROJECT MANAGER	R. GERSERKOWSKI	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2">PREPARED FOR</td></tr> <tr><td colspan="2">REGIONAL MAINTENANCE DELIVERY NORTHERN</td></tr> <tr><td colspan="2">PROJECT MANAGEMENT NORTHERN</td></tr> </table>		PREPARED FOR		REGIONAL MAINTENANCE DELIVERY NORTHERN		PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063	PART 1
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REGIONAL MAINTENANCE DELIVERY NORTHERN																																
PROJECT MANAGEMENT NORTHERN																																
							CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD																							
							EDMS No. QA4331765		SHEET No. PV-0010																							
							ISSUE STATUS DETAIL DESIGN		ISSUE A																							

BARRIER SCHEDULE

IDENTIFICATION	TYPE	SHEET NO.	LENGTH (m)	START			FINISH		
				CONTROL	CHAINAGE	TERMINAL / TRANSITION	CONTROL	CHAINAGE	TERMINAL / TRANSITION
SB01	SENTRY TL3 W-BEAM LONG POST	RF-0002-0004	420	MC00	37930	SENTRY - MAX TENSION	MC00	38350	SENTRY - MAX TENSION
SB02	SENTRY TL3 W-BEAM LONG POST	RF-0004-0006	405	MC00	38445	SENTRY - MAX TENSION	MC00	38850	SENTRY - MAX TENSION
SB03	SENTRY TL3 W-BEAM LONG POST	RF-0004	60	MC00	38440	SENTRY - MAX TENSION	MC00	38500	SENTRY - MAX TENSION
SB04	SENTRY TL3 W-BEAM LONG POST	RF-0010	101	MC00	39565	SENTRY - MAX TENSION	MC00	39666	SENTRY - MAX TENSION

NEW SIGNPOSTING SCHEDULE


A.S. REF NUMBER	SIGN FACE	SIZE	CHAINAGE	DIRECTION	INSTALLATION
W1-3 (R)		A	38150	WEST BOUND LANE	SINGLE POST
W8-2 (85)		A	38150	WEST BOUND LANE	SINGLE POST
W1-3 (L)		A	38360	EAST BOUND LANE	SINGLE POST
W8-2 (85)		A	38360	EAST BOUND LANE	SINGLE POST
D4-1-1		A x2	38985	WEST BOUND LANE LONGITUDINAL	DOUBLE POST x2

LINEMARKING SCHEDULE












TYPE	LENGTH (m)	START		FINISH	
		CONTROL	CHAINAGE	CONTROL	CHAINAGE
E1 (L)	1451	MC00	37519	MC00	38970
E1 (R)	2147	MC00	37519	MC00	39666
C1	30	MC00	38970	MC00	39000
E1 (L)	533	MC00	39000	MC00	39533
C1	17	MC00	39533	MC00	39550
E1 (L)	116	MC00	39550	MC00	39666
BS1 (L)	123	MC00	37519	MC00	37642
S1	153	MC00	37642	MC00	37795
BS1 (R)	195	MC00	37795	MC00	37990
BB1	70	MC00	37990	MC00	38060
BS1 (L)	165	MC00	38060	MC00	38225
S1	235	MC00	38225	MC00	38460
BB1	518	MC00	38460	MC00	38978
BB1	43	MC00	38992	MC00	39035
BS1 (L)	80	MC00	39035	MC00	39115
S1	185	MC00	39115	MC00	39300
BS1 (R)	60	MC00	39300	MC00	39360
BB1	173	MC00	39360	MC00	39533
BB1	121	MC00	39545	MC00	39666

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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN	TITLE DRAWN DRG CHECK DESIGN DESIGN CHECK DESIGN MANAGER PROJECT MANAGER	NAME D. TIGHT D. JOHNSON D. TIGHT D. JOHNSON D. JOHNSON R. GERSERKOWSKI	
CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063	ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RF-0001	PART 1 ISSUE A

LEGEND

-  EXISTING SIGN
-  PROPOSED SIGN
-  GUIDE POST
-  PAVEMENT LINEMARKING TYPE
-  SAFETY BARRIER LABEL
-  SAFETY BARRIER - W-BEAM W/ LONG POSTS
-  SAFETY BARRIER - THRIE BEAM ON BASE PLATE
-  EXISTING SIGNAGE TO BE REMOVED
-  PROPOSED SIGNAGE
- R4-1 AUSTRALIAN STANDARD SIGN REFERENCE NUMBER
-  EXISTING SIGNAGE TO BE RETAINED
- R4-1
-  EXISTING SIGNAGE TO BE REMOVED
- R4-1

NOTES

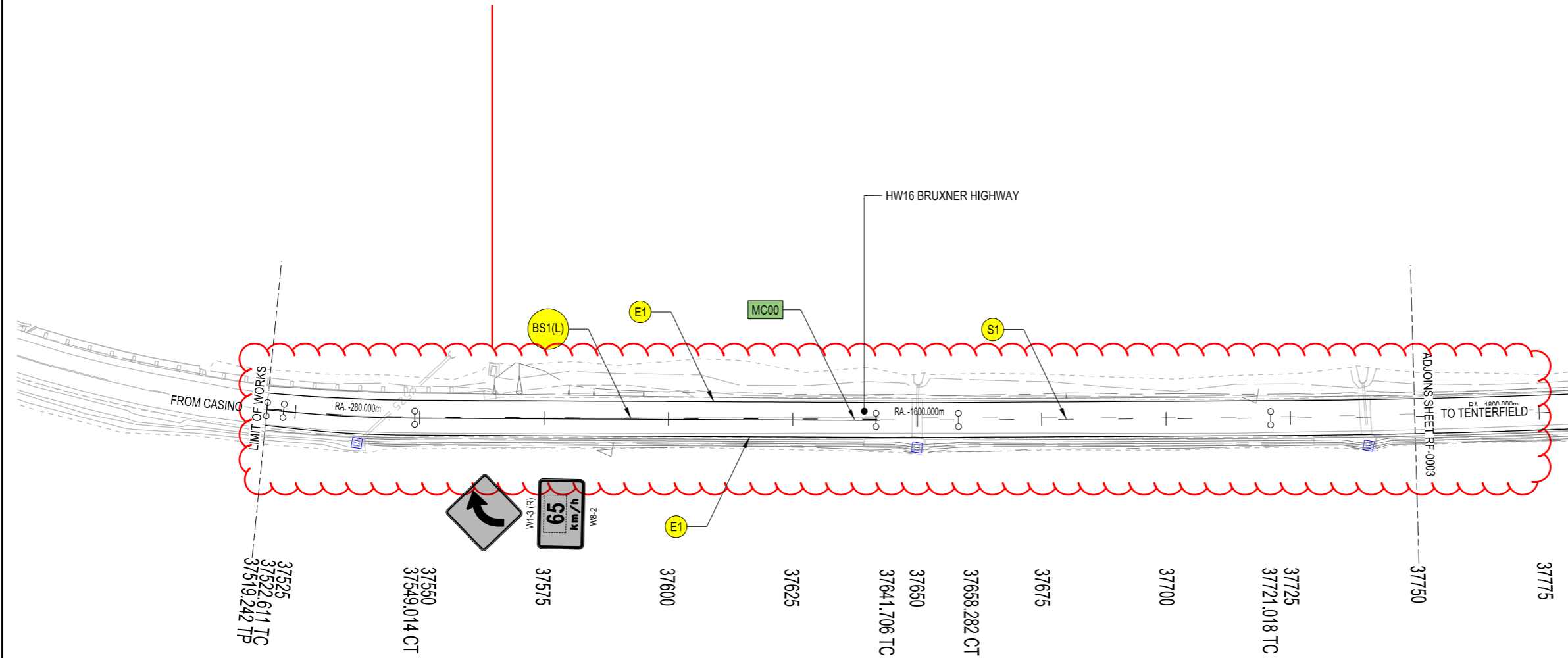
1. ALL DELINEATION TO BE IN ACCORDANCE WITH ROADS AND MARITIME SERVICES DELINEATION MANUAL
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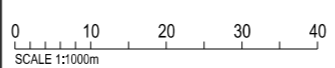
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Check centreline
BB/BS/S1 and
overtaking
lengths/suitability.



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LEGEND

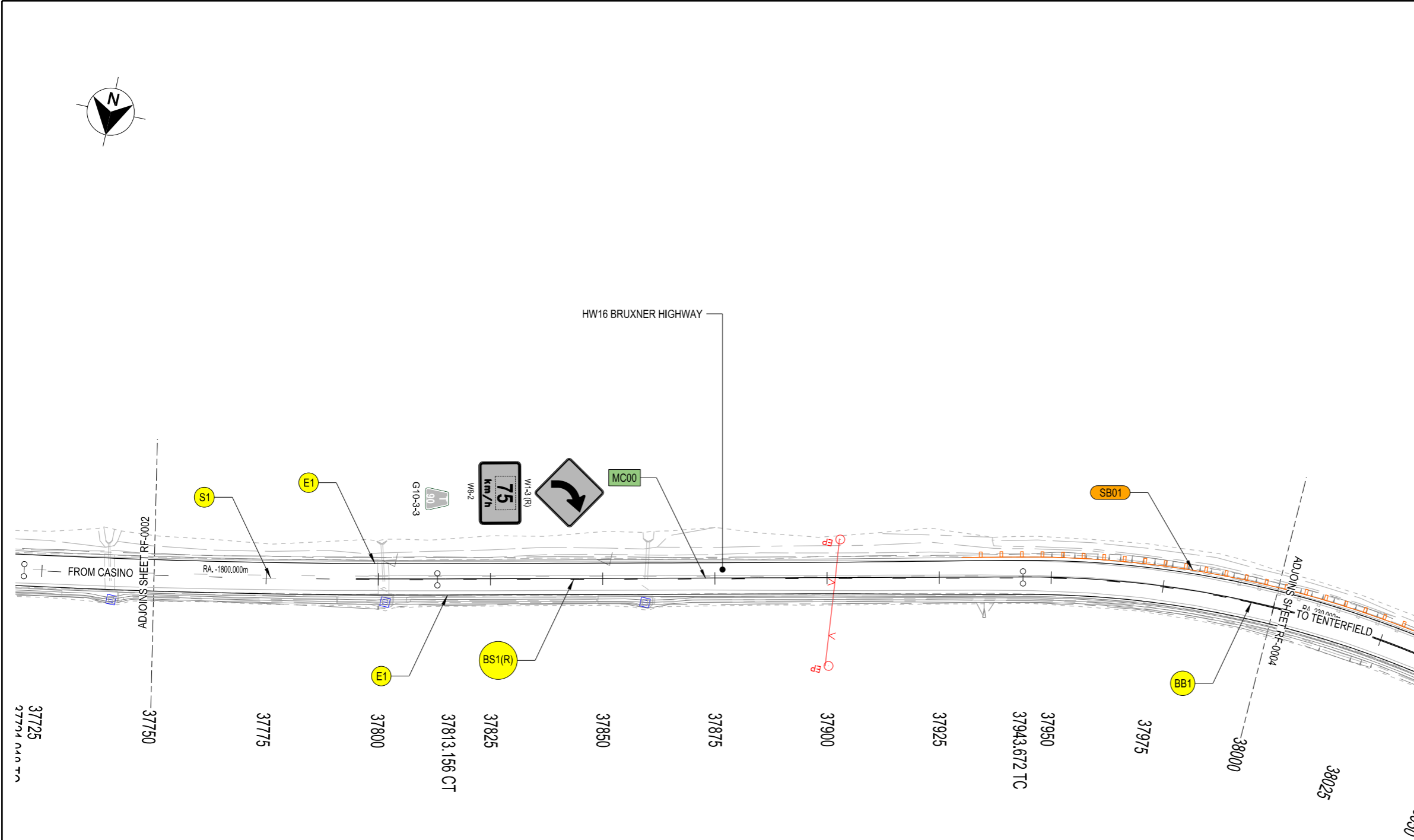
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-  PROPOSED SIGN
-  GUIDE POST
-  PAVEMENT LINEMARKING TYPE
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-  SAFETY BARRIER - W-BEAM W/ LONG POSTS
-  SAFETY BARRIER - THREE BEAM ON BASE PLATE
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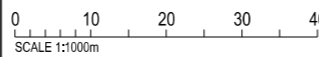
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LEGEND

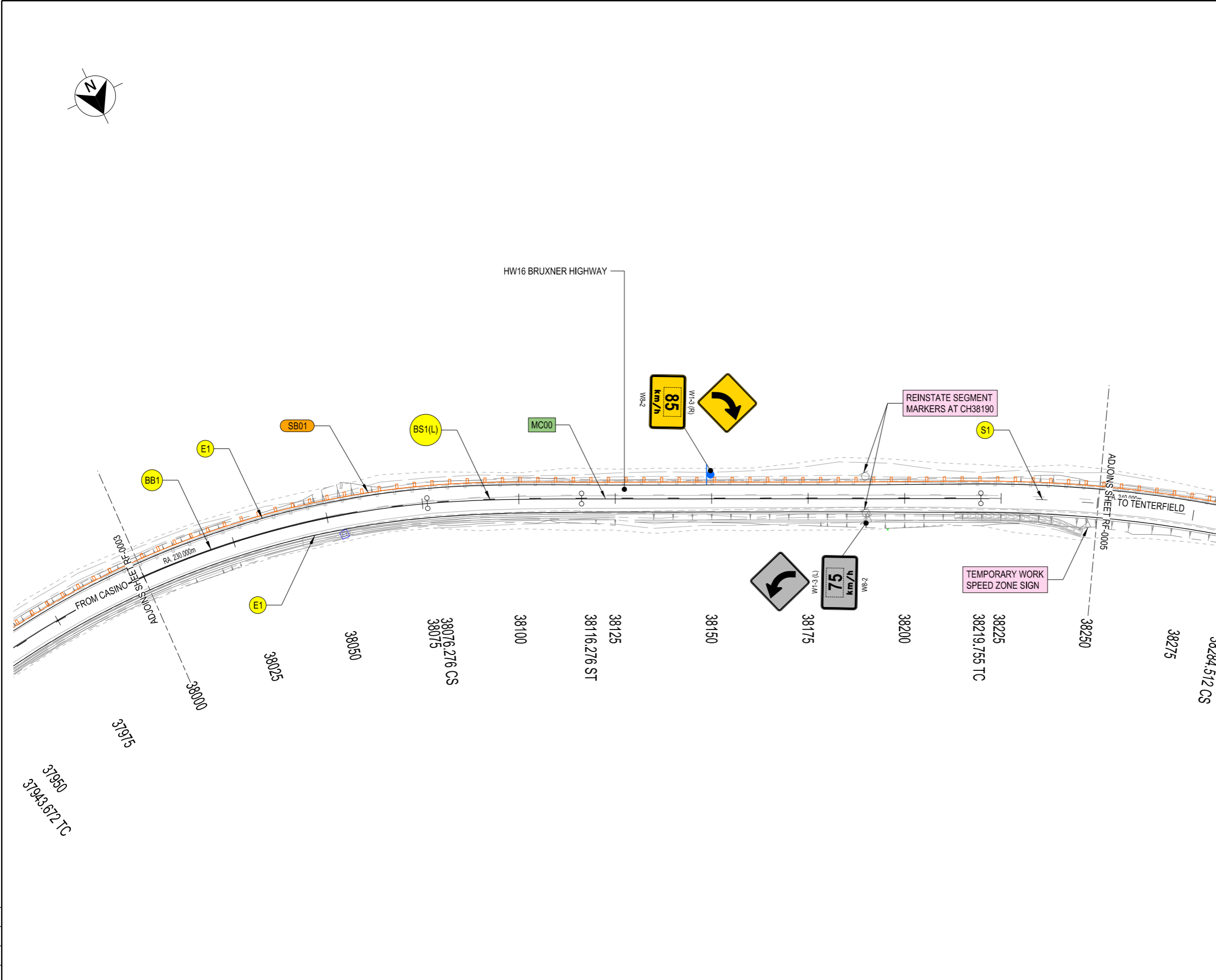
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-  PROPOSED SIGN
-  GUIDE POST
-  PAVEMENT LINEMARKING TYPE
-  SAFETY BARRIER LABEL
-  SAFETY BARRIER - W-BEAM W/ LONG POSTS
-  SAFETY BARRIER - THREE BEAM ON BASE PLATE
-  EXISTING SIGNAGE TO BE REMOVED
-  PROPOSED SIGNAGE
- R4-1 AUSTRALIAN STANDARD SIGN REFERENCE NUMBER
-  EXISTING SIGNAGE TO BE RETAINED
- R4-1
-  EXISTING SIGNAGE TO BE REMOVED
- R4-1

NOTES


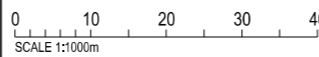
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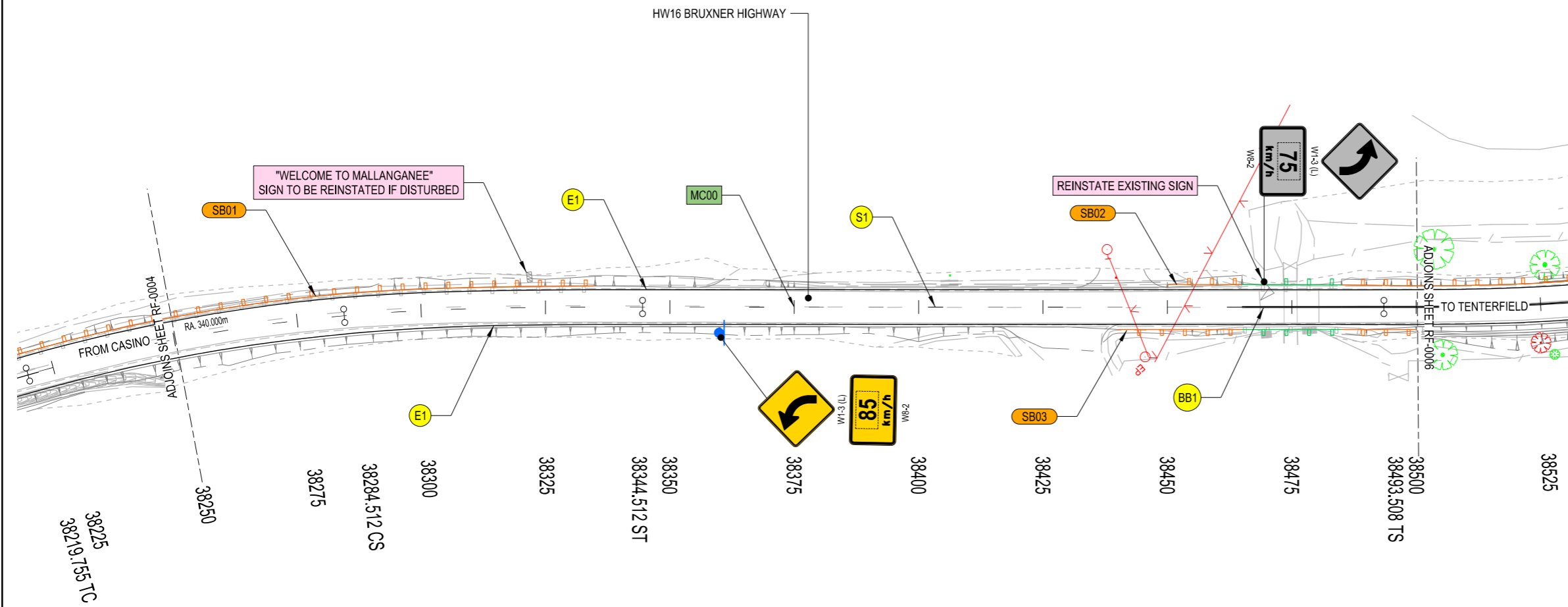
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY			
						 SCALE 1:1000m	TRANSPORT FOR NSW INFRASTRUCTURE & PLACE ENGINEERING SERVICES ROAD DESIGN NORTHERN			
				CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063	PART 1
						ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RF-0004	ISSUE A	



LEGEND

-  EXISTING SIGN
-  PROPOSED SIGN
-  GUIDE POST
-  PAVEMENT LINEMARKING TYPE
-  SAFETY BARRIER LABEL
-  SAFETY BARRIER - W-BEAM W/ LONG POSTS
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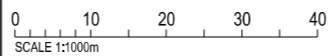
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


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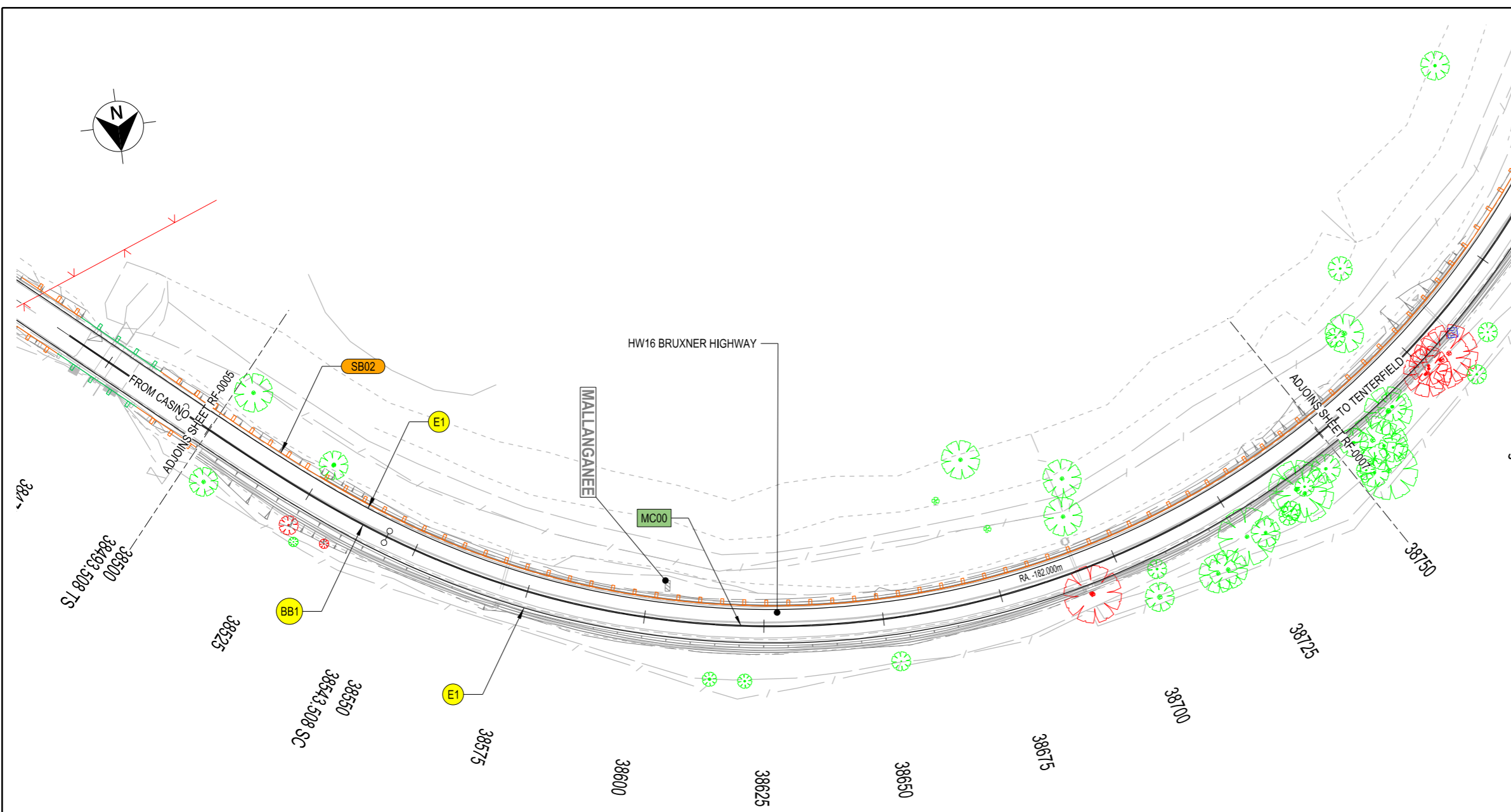
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							ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RF-0005 ISSUE A														

LEGEND

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-  PROPOSED SIGN
-  GUIDE POST
-  PAVEMENT LINEMARKING TYPE
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-  SAFETY BARRIER - W-BEAM W/ LONG POSTS
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

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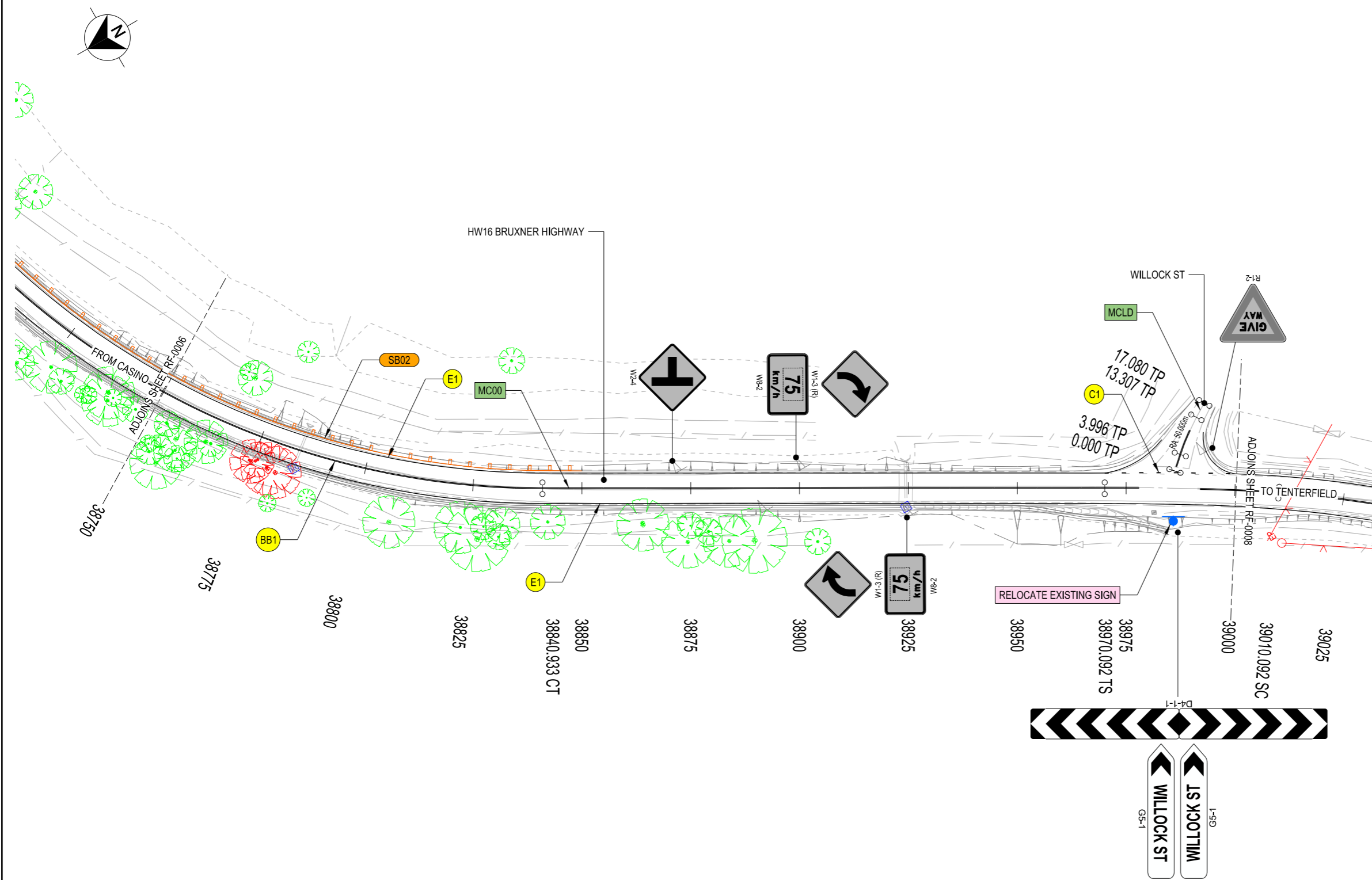
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SCALE 1:1000m		SCALE ON A3 SIZE DRAWING		CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN
EDMS No. QA4331765		SHEET No. RF-0006		ISSUE No. 1		ISSUE A		© Transport for NSW		

LEGEND

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-  PROPOSED SIGN
-  GUIDE POST
-  PAVEMENT LINEMARKING TYPE
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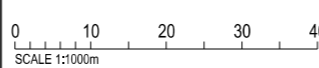
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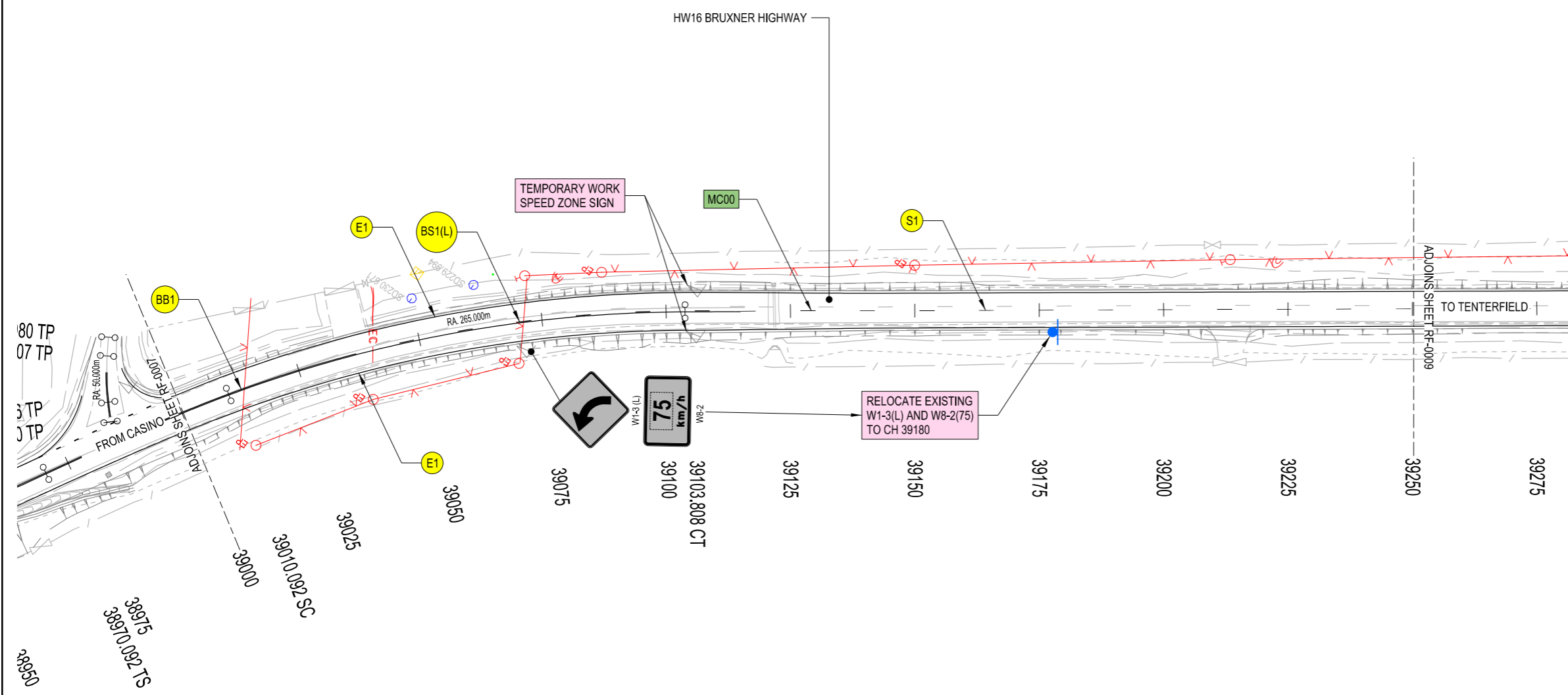
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CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD		PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN		TNSW REGISTRATION No. DS2020/00063		ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765	SHEET No. RF-0007	PART 1 ISSUE A



LEGEND

-  EXISTING SIGN
-  PROPOSED SIGN
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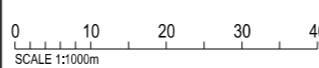
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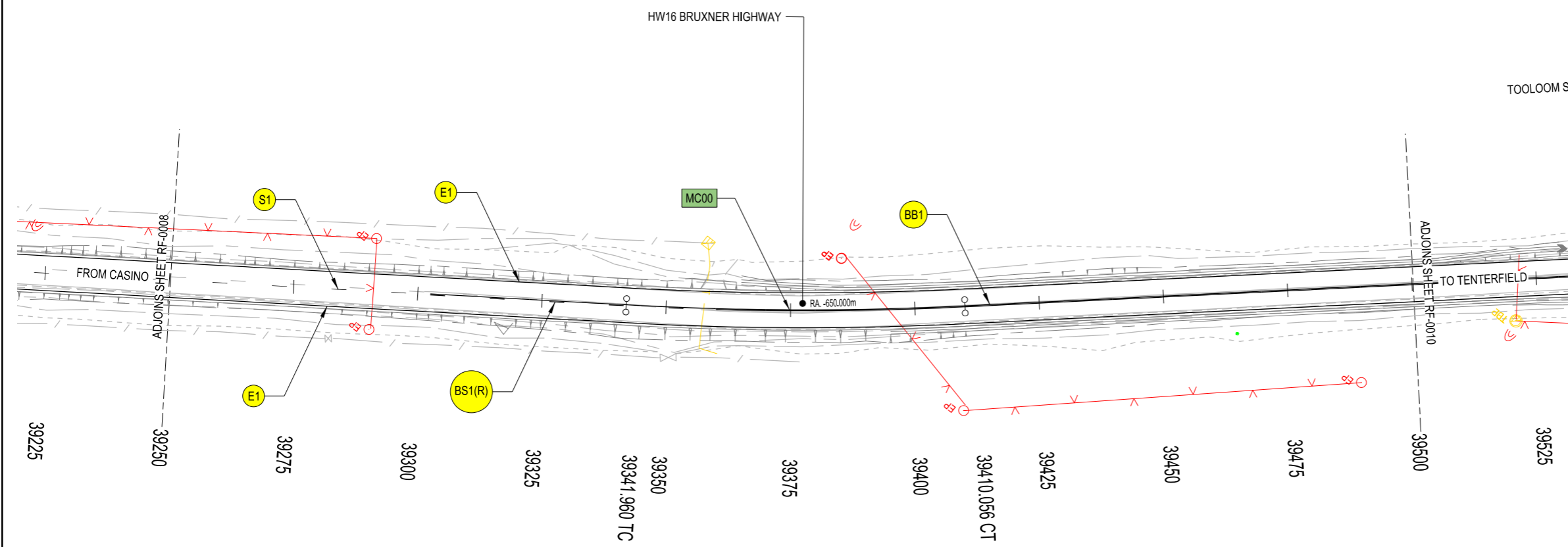
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				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD			REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063 ISSUE STATUS DETAIL DESIGN EDMS No. QA4331765 SHEET No. RF-0008 PART 1 ISSUE A



LEGEND

-  EXISTING SIGN
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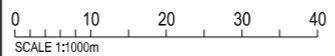
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
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
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


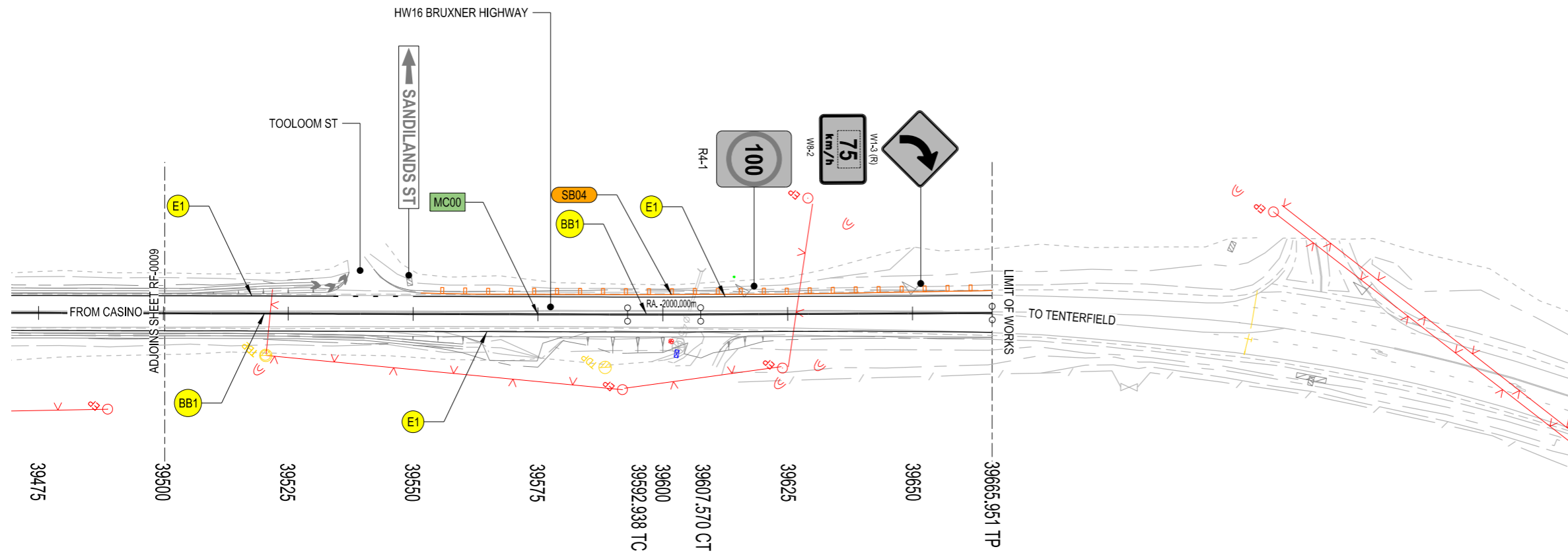
LEGEND

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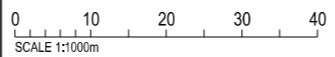
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								PREPARED FOR REGIONAL MAINTENANCE DELIVERY NORTHERN PROJECT MANAGEMENT NORTHERN	TNSW REGISTRATION No. DS2020/00063
								ISSUE STATUS DETAIL DESIGN	EDMS No. QA4331765
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