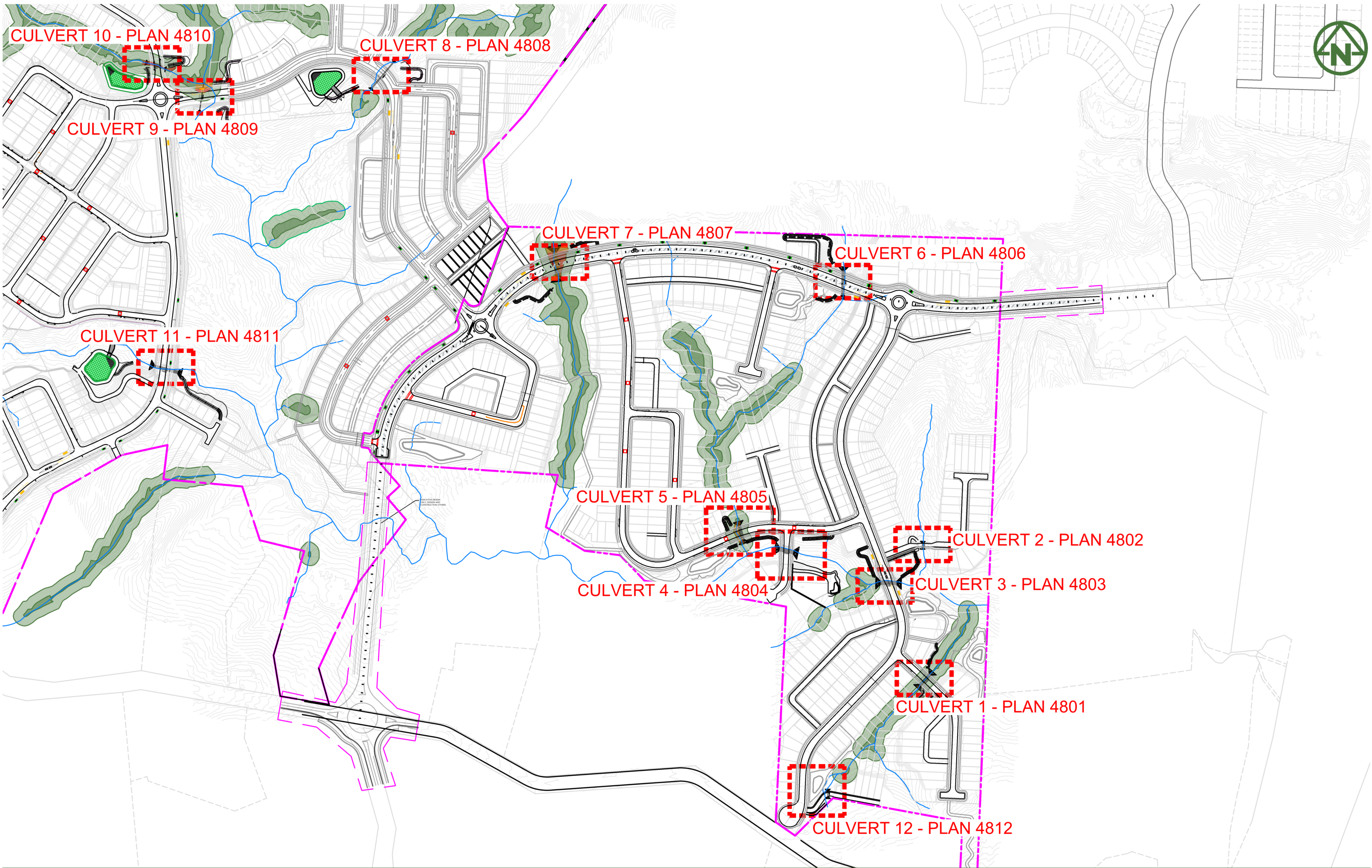
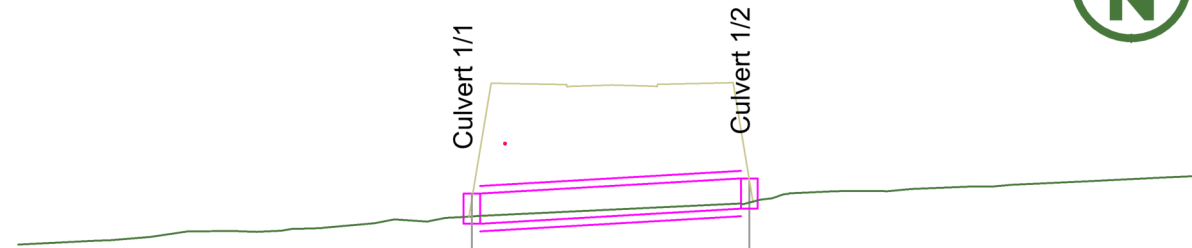
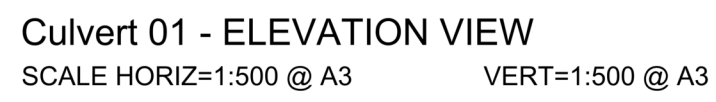


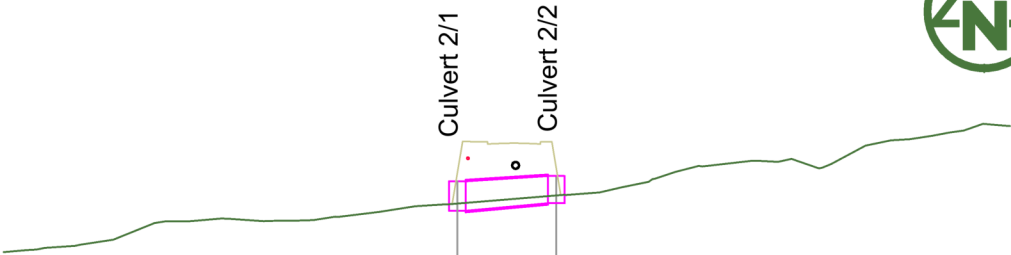
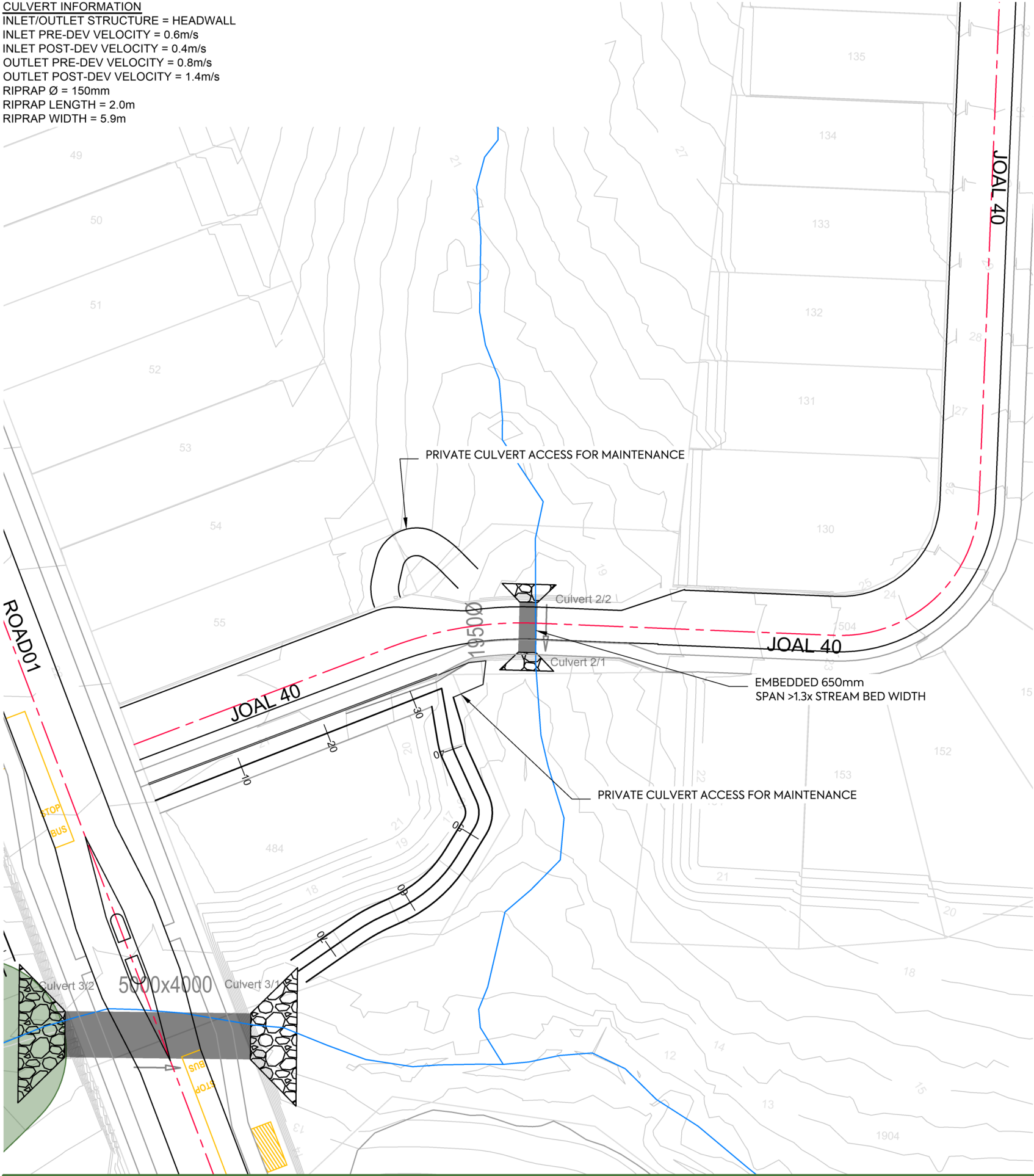




Culvert 01 - LONGSECTION



CULVERT INFORMATION
INLET/OUTLET STRUCTURE = HEADWALL
INLET PRE-DEV VELOCITY = 0.6m/s
INLET POST-DEV VELOCITY = 0.4m/s
OUTLET PRE-DEV VELOCITY = 0.8m/s
OUTLET POST-DEV VELOCITY = 1.4m/s
RIPRAP Ø = 150mm
RIPRAP LENGTH = 2.0m
RIPRAP WIDTH = 5.9m



DATUM = 2.0			
DESIGN SURFACE	18.16		18.46
DEPTH TO INVERT	2.46	2.46	2.26
INVERT LEVEL	15.70	15.70	16.20
EXISTING SURFACE	16.23		16.82
PIPE DETAILS	7.63% 1950mmø RCRRJ Class 4		
LENGTH	6.56m		

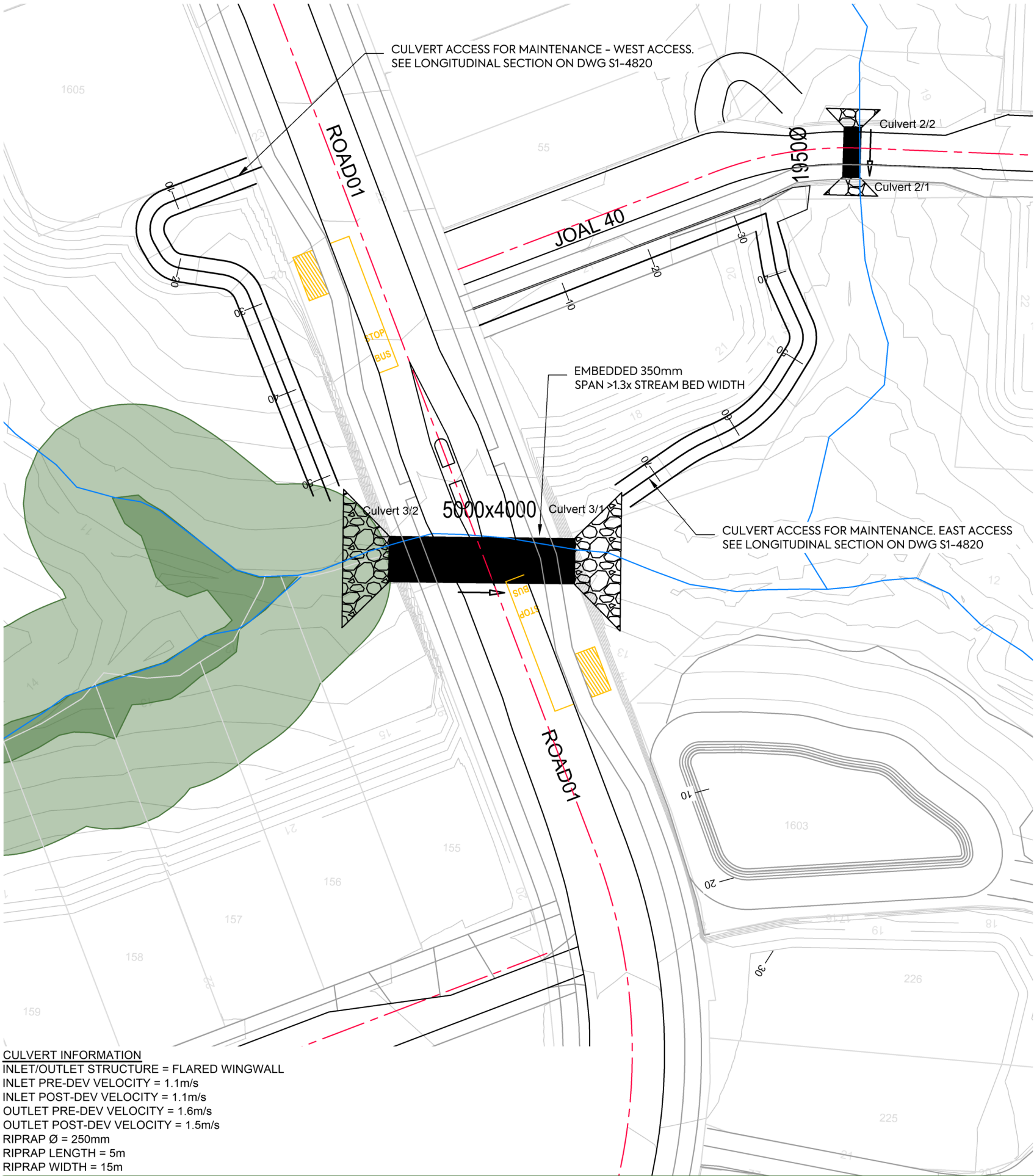
Culvert 02 - LONGSECTION



DATUM = 14.00			
DESIGN SURFACE		19.86	20.15
CUT/FILL DEPTHS		3.33	1.68
EXISTING SURFACE		16.53	18.47
CHAINAGES		10.0	20.0

Culvert 02 - ELEVATION VIEW

SCALE HORIZ=1:500 @ A3 VERT=1:500 @ A3



CULVERT INFORMATION
INLET/OUTLET STRUCTURE = FLARED WINGWALL
INLET PRE-DEV VELOCITY = 1.1m/s
INLET POST-DEV VELOCITY = 1.1m/s
OUTLET PRE-DEV VELOCITY = 1.6m/s
OUTLET POST-DEV VELOCITY = 1.5m/s
RIPRAP Ø = 250mm
RIPRAP LENGTH = 5m
RIPRAP WIDTH = 15m

I	FOR CONSENT	PO	LV	JK	26/05/26
H	RFI UPDATES	SH	LV		13/04/26
G	UPDATED FOR NEW MODEL	LV	JK		03/12/25
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

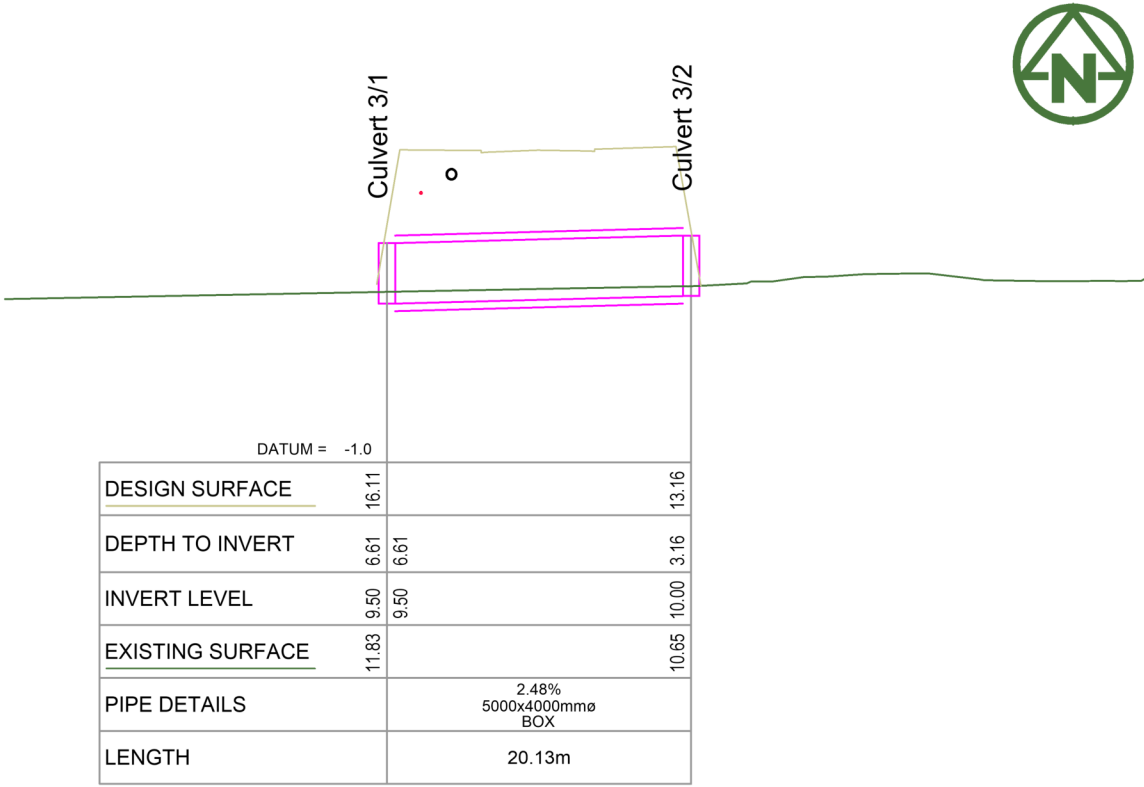
STORMWATER
CULVERTS

PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:500m @ A3
DO NOT SCALE

DRAWING NO:
3725-1-4803

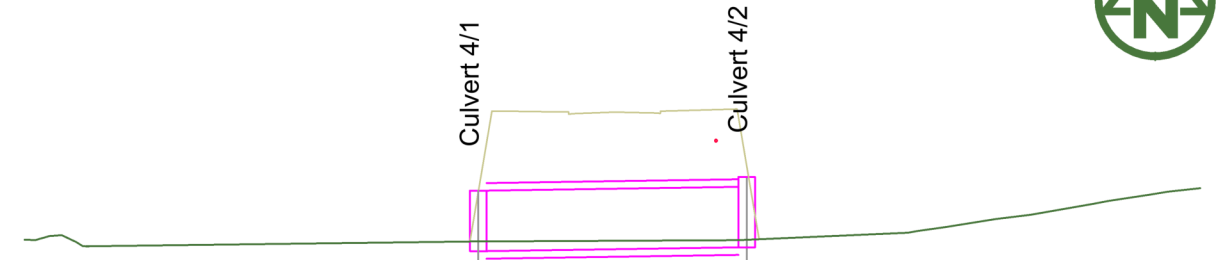
REV:
I



Culvert 03 - LONGSECTION



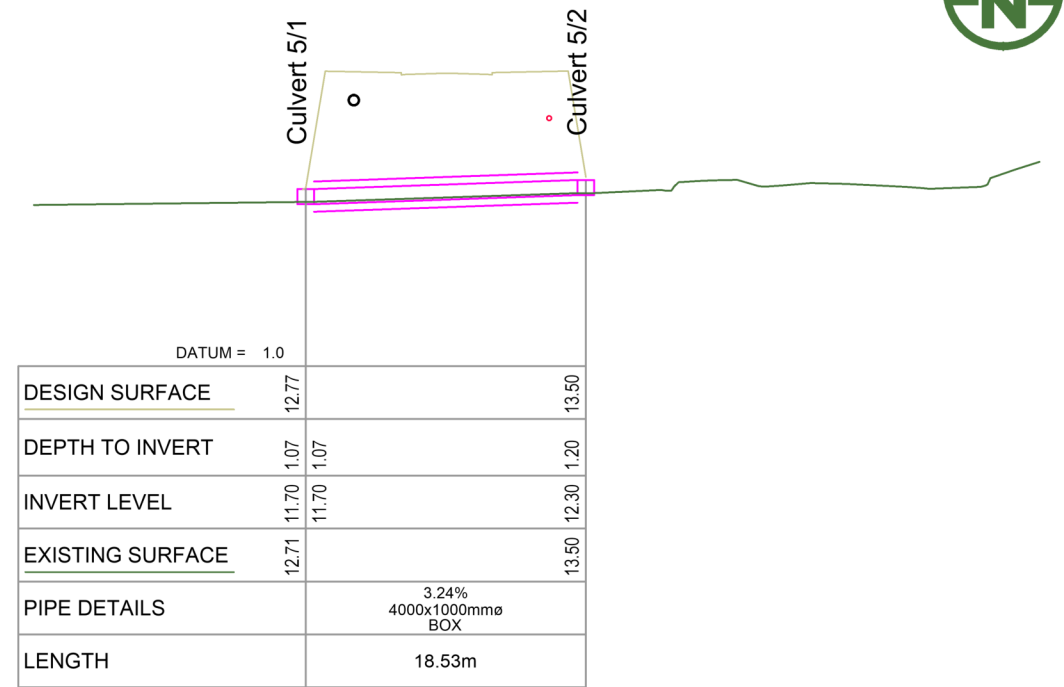
Culvert 03 - ELEVATION VIEW
SCALE HORIZ=1:500 @ A3 VERT=1:500 @ A3



Culvert 04 - LONGSECTION



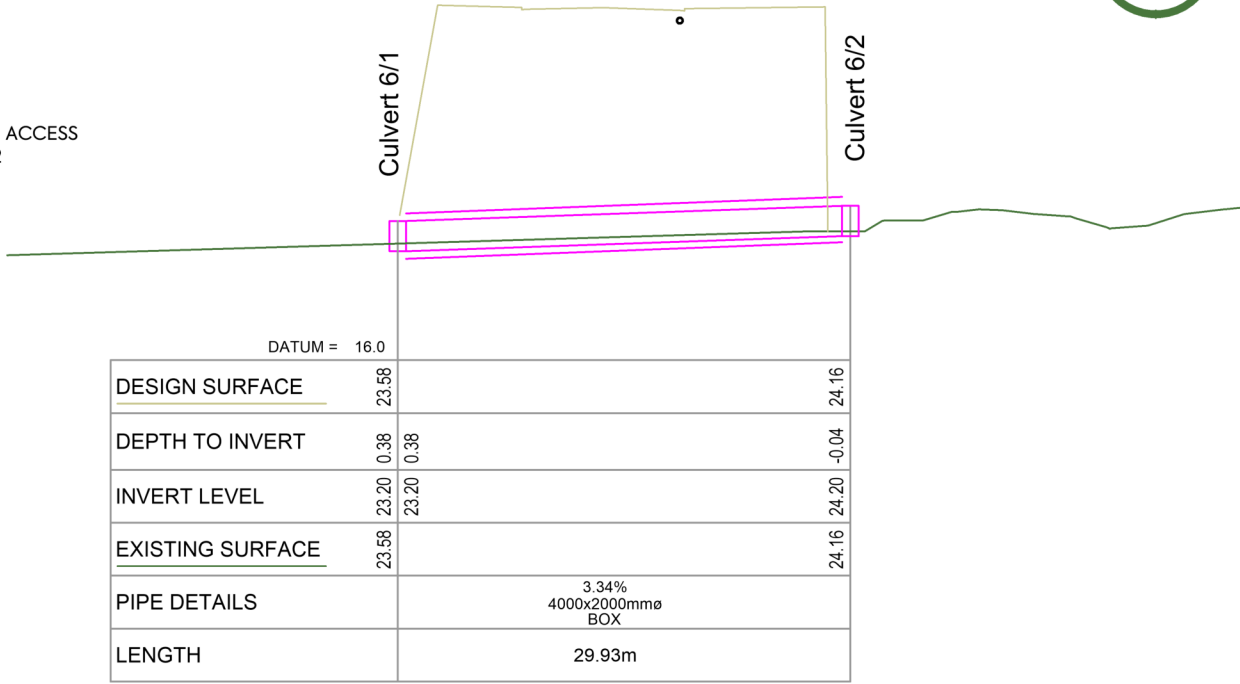
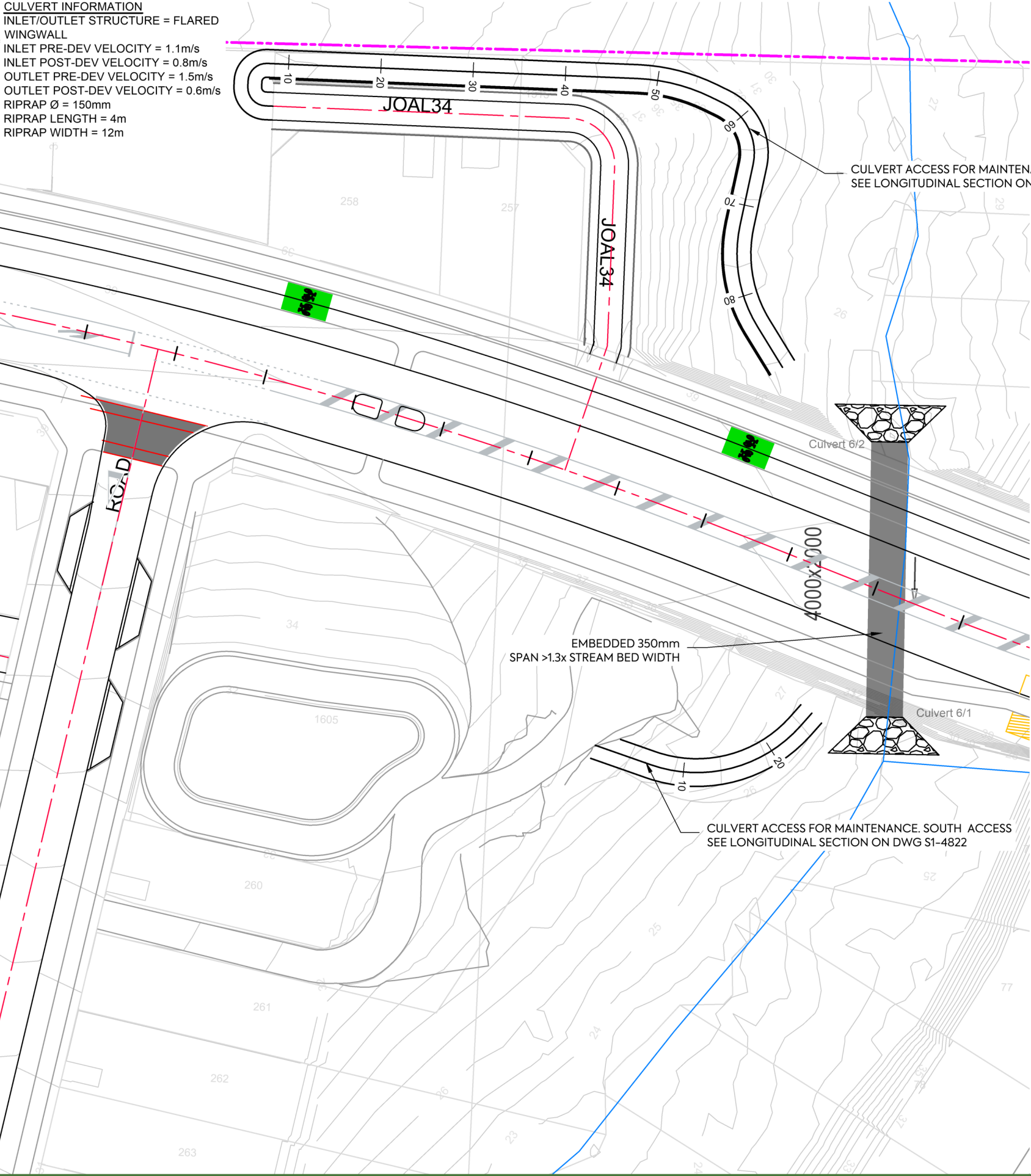
VERT=1:500 @ A3



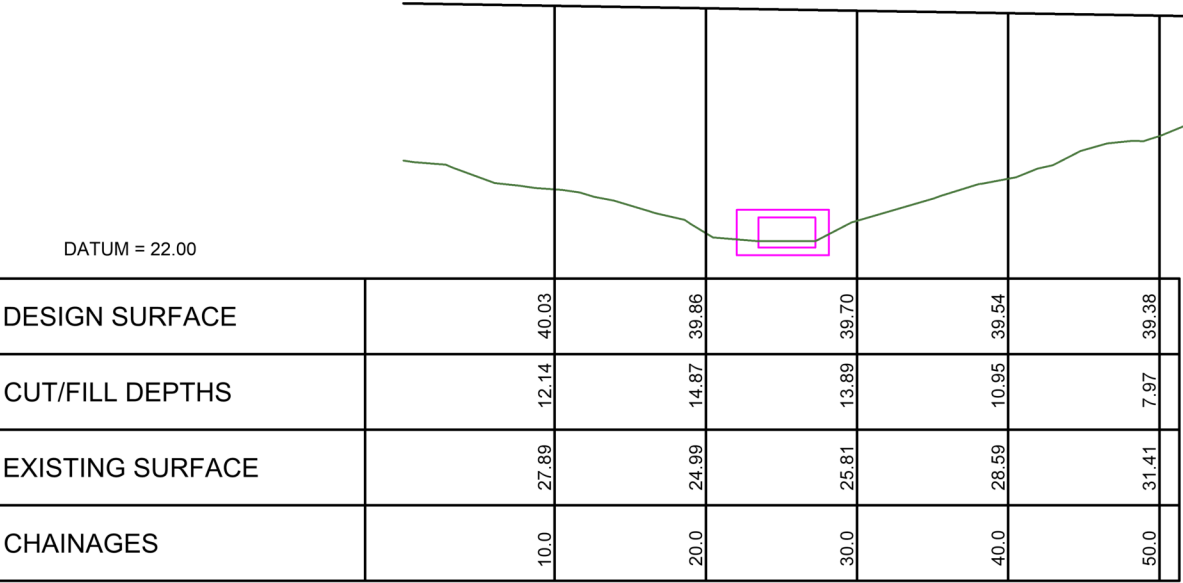
DESIGN SURFACE	19.94
CUT/FILL DEPTHS	2.39
EXISTING SURFACE	17.54
CHAINAGES	10.0

SCALE HORIZ=1:500 @ A3 VERT=1:500 @ A3

CULVERT INFORMATION
INLET/OUTLET STRUCTURE = FLARED
WINGWALL
INLET PRE-DEV VELOCITY = 1.1m/s
INLET POST-DEV VELOCITY = 0.8m/s
OUTLET PRE-DEV VELOCITY = 1.5m/s
OUTLET POST-DEV VELOCITY = 0.6m/s
RIPRAP Ø = 150mm
RIPRAP LENGTH = 4m
RIPRAP WIDTH = 12m

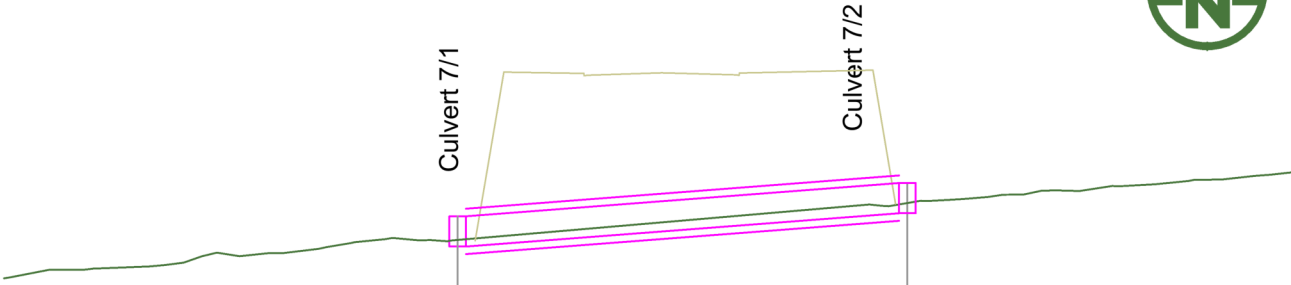
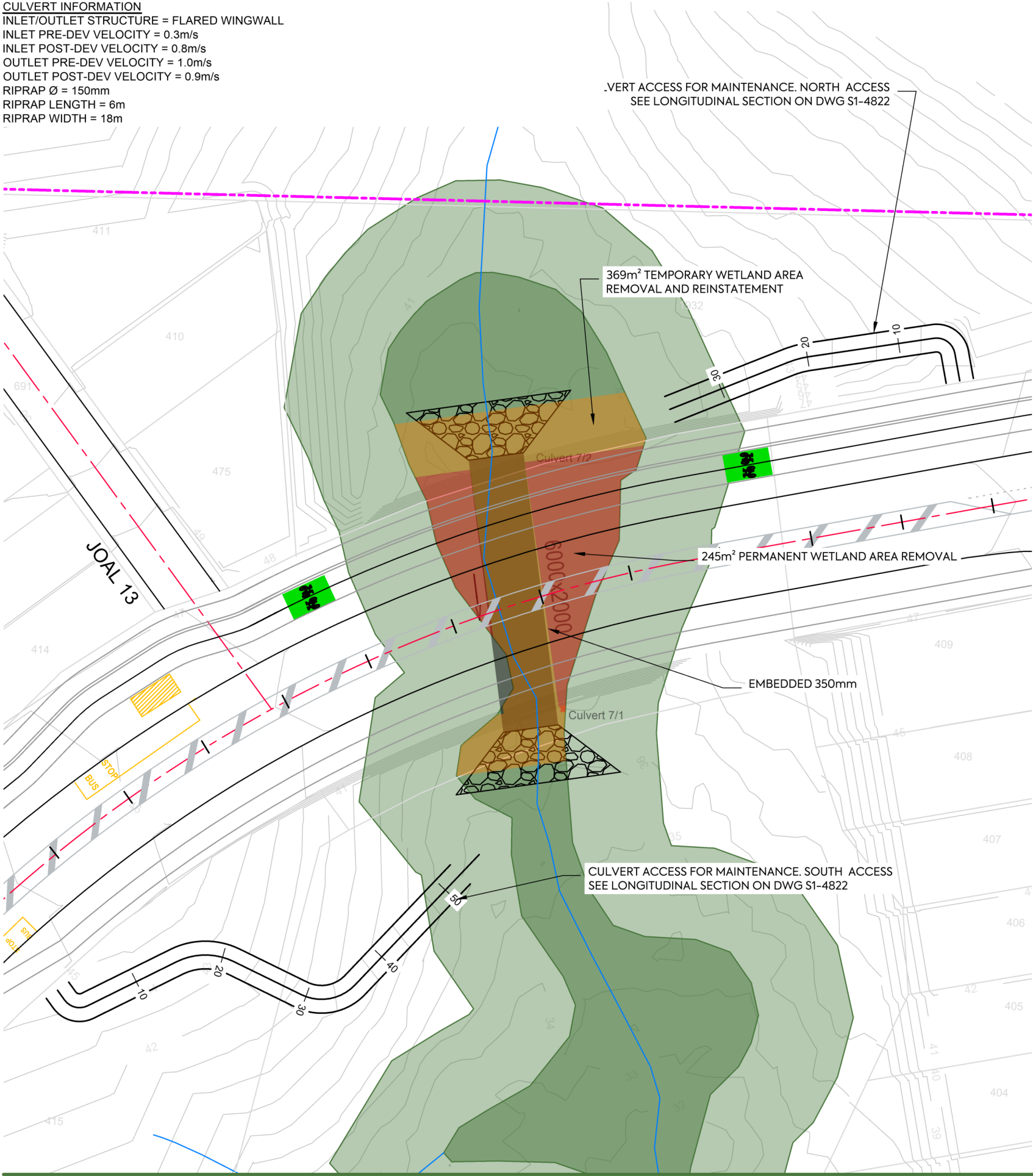


Culvert 06 - LONGSECTION



Culvert 06 - ELEVATION VIEW
SCALE HORIZ=1:500 @ A3
VERT=1:500 @ A3

CULVERT INFORMATION
INLET/OUTLET STRUCTURE = FLARED WINGWALL
INLET PRE-DEV VELOCITY = 0.3m/s
INLET POST-DEV VELOCITY = 0.8m/s
OUTLET PRE-DEV VELOCITY = 1.0m/s
OUTLET POST-DEV VELOCITY = 0.9m/s
RIPRAP Ø = 150mm
RIPRAP LENGTH = 6m
RIPRAP WIDTH = 18m



DATUM = 27.0			
DESIGN SURFACE	36.79		39.02
DEPTH TO INVERT	0.49	0.49	0.52
INVERT LEVEL	36.30	36.30	38.50
EXISTING SURFACE	36.79		39.02
PIPE DETAILS	7.4% 6000x2000mmø BOX		
LENGTH	29.75m		

Culvert 07 - LONGSECTION

DATUM = 36.00						
DESIGN SURFACE	47.83	47.85	47.87	47.89	47.91	
CUT/FILL DEPTHS	7.57	9.08	8.93	9.29	6.46	
EXISTING SURFACE	40.25	38.77	38.94	38.60	41.46	
CHAINAGES	10.0	20.0	30.0	40.0	50.0	

Culvert 07 - ELEVATION VIEW
SCALE HORIZ=1:500 @ A3
VERT=1:500 @ A3

CULVERT INFORMATION
 INLET/OUTLET STRUCTURE = FLARED WINGWALL
 INLET PRE-DEV VELOCITY = 1.6m/s
 INLET POST-DEV VELOCITY = 0.6m/s
 OUTLET PRE-DEV VELOCITY = 1.2m/s
 OUTLET POST-DEV VELOCITY = 0.6m/s
 RIPRAP Ø = 150mm
 RIPRAP LENGTH = 2m
 RIPRAP WIDTH = 6m

CULVERT ACCESS FOR MAINTENANCE - WEST ACCESS.
 SEE LONGITUDINAL SECTION ON DWG S1-4823

CULVERT ACCESS FOR MAINTENANCE - EAST ACCESS.
 SEE LONGITUDINAL SECTION ON DWG S1-4823

2000x1000

Culvert 8/1

Culvert 8/2

EMBEDDED 600mm
 SPAN >1.3x STREAM BED WIDTH

ROAD 13

ROAD 15

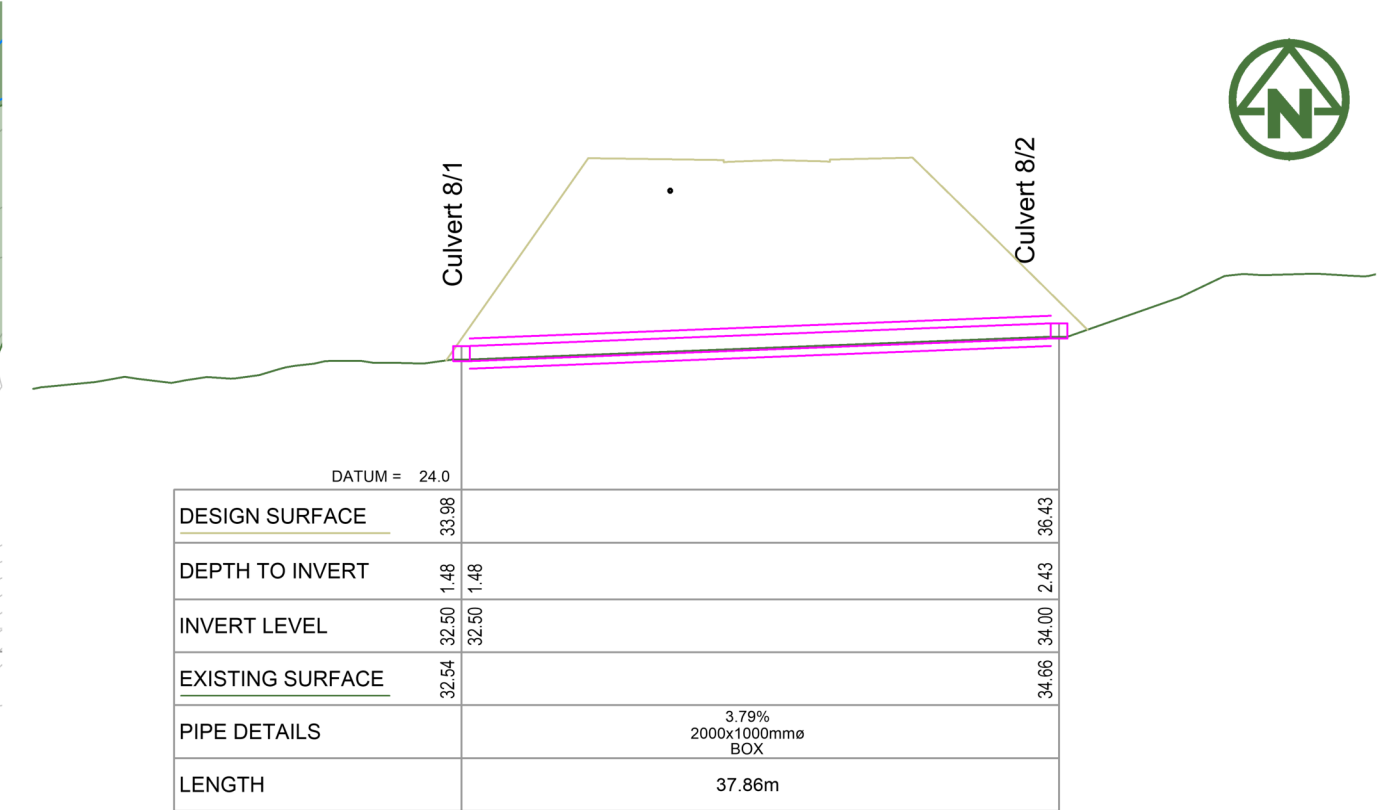
ROAD 05

JOAL 28

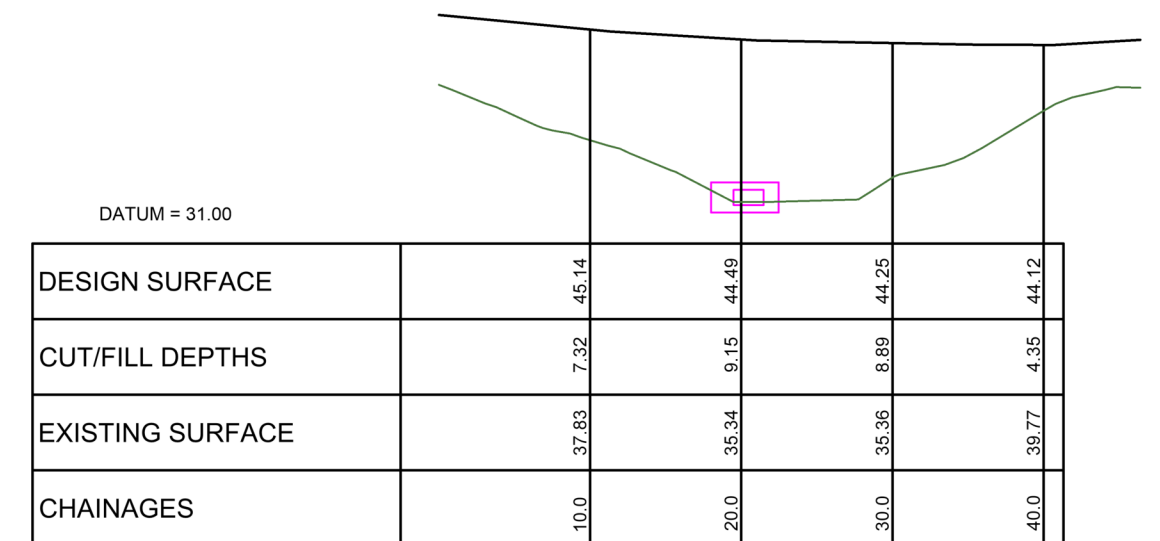
STOP BUS

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Culvert 08 - LONGSECTION



Culvert 08 - ELEVATION VIEW

SCALE HORIZ=1:500 @ A3

VERT=1:500 @ A3



Culvert 09 - LONGSECTION



VERT=1:500 @ A3

PURPOSE OF ISSUE:

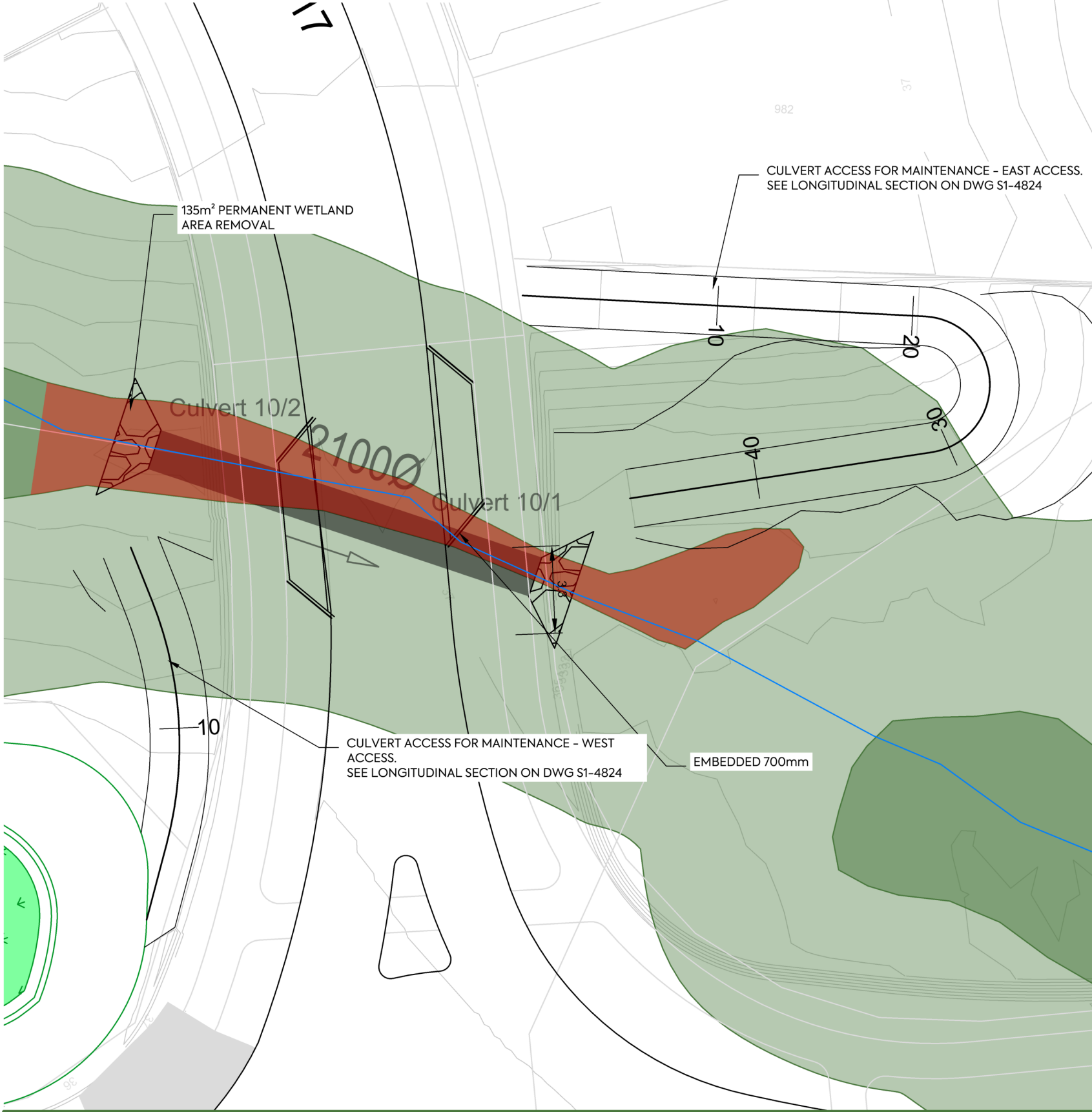
EV:



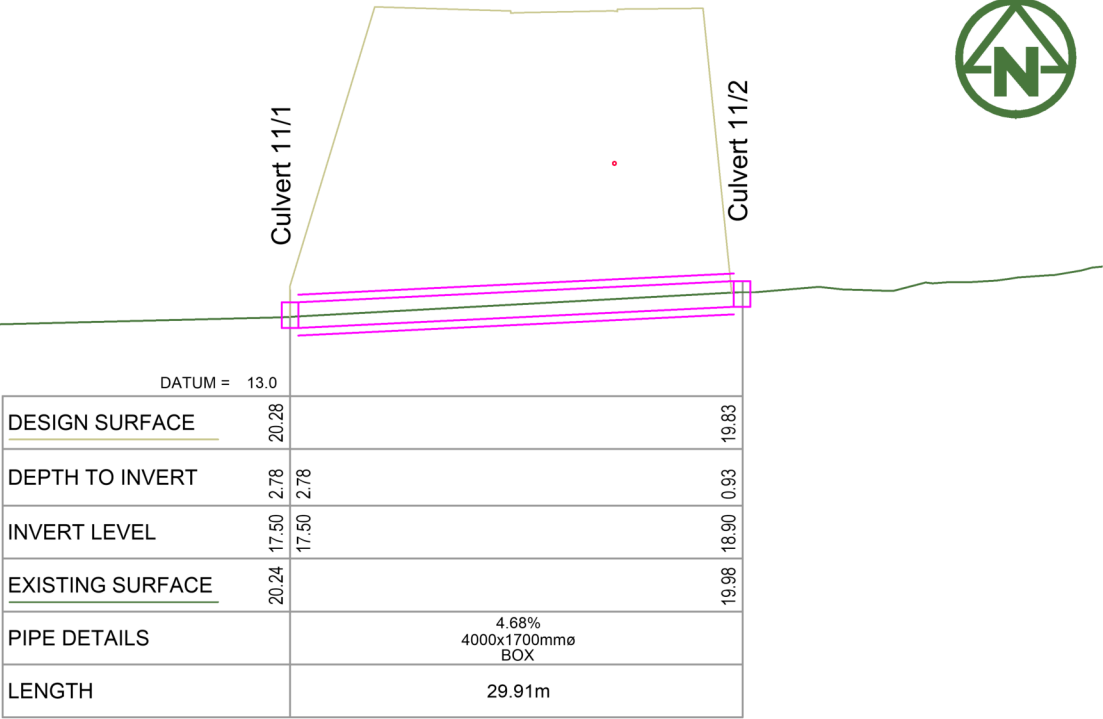
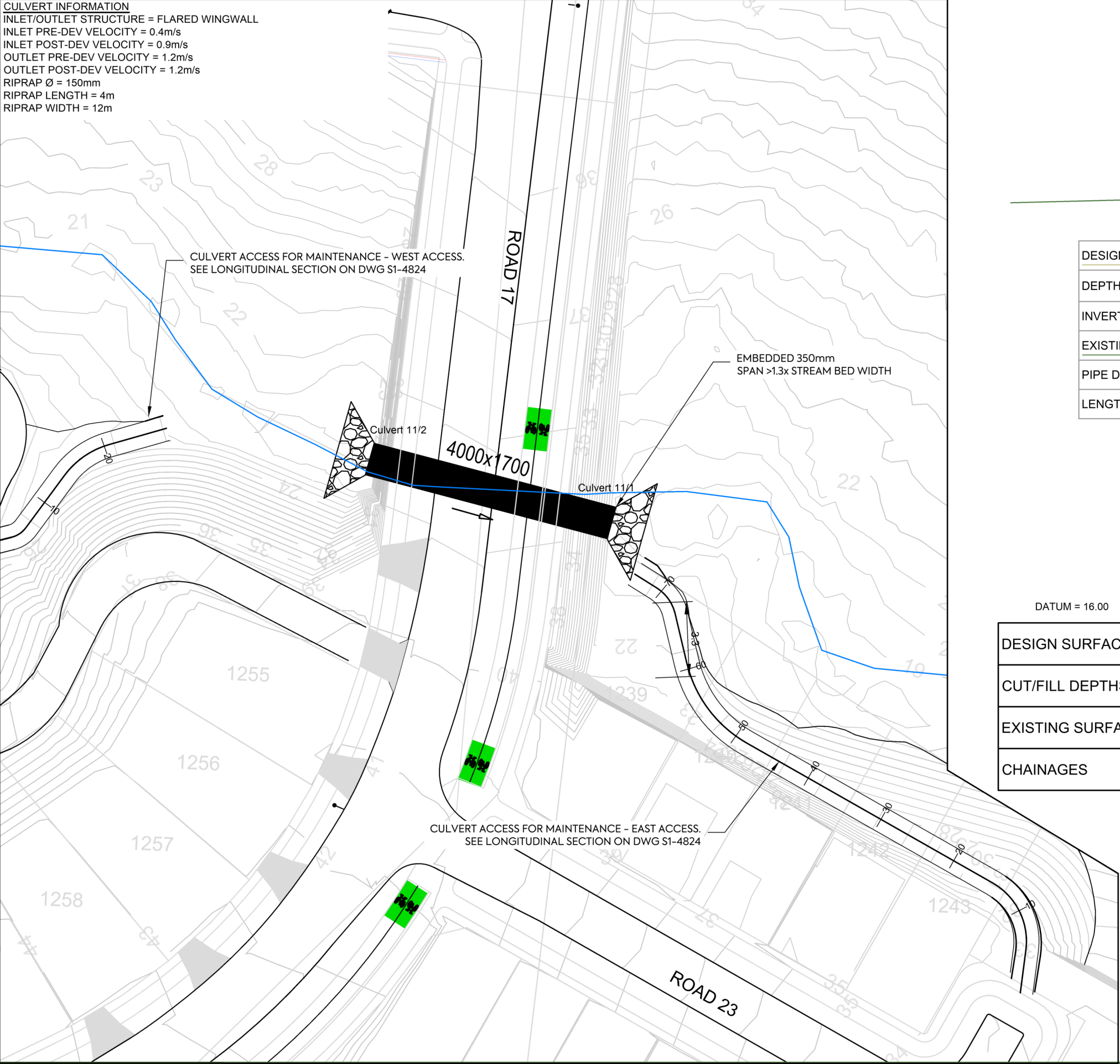
VINEWAY LIMITED

STORMWATER CULVERTS

CULVERT INFORMATION
INLET/OUTLET STRUCTURE = HEADWALL
INLET PRE-DEV VELOCITY = 1.2m/s
INLET POST-DEV VELOCITY = 0.7m/s
OUTLET PRE-DEV VELOCITY = 0.8m/s
OUTLET POST-DEV VELOCITY = 0.4m/s
RIPRAP Ø = 150mm
RIPRAP LENGTH = 2.1m
RIPRAP WIDTH = 6.3m



CULVERT INFORMATION
INLET/OUTLET STRUCTURE = FLARED WINGWALL
INLET PRE-DEV VELOCITY = 0.4m/s
INLET POST-DEV VELOCITY = 0.9m/s
OUTLET PRE-DEV VELOCITY = 1.2m/s
OUTLET POST-DEV VELOCITY = 1.2m/s
RIPRAP Ø = 150mm
RIPRAP LENGTH = 4m
RIPRAP WIDTH = 12m



Culvert 11 - LONGSECTION



Culvert 11 - ELEVATION VIEW

SCALE HORIZ=1:500 @ A3 VERT=1:500 @ A3

I	FOR CONSENT	PO	LV	JK	26/05/26
H	RFI UPDATES	SH	LV		13/04/26
G	UPDATED FOR NEW MODEL	LV	JK		03/12/25
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



VINEWAY LIMITED

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

STORMWATER
CULVERTS

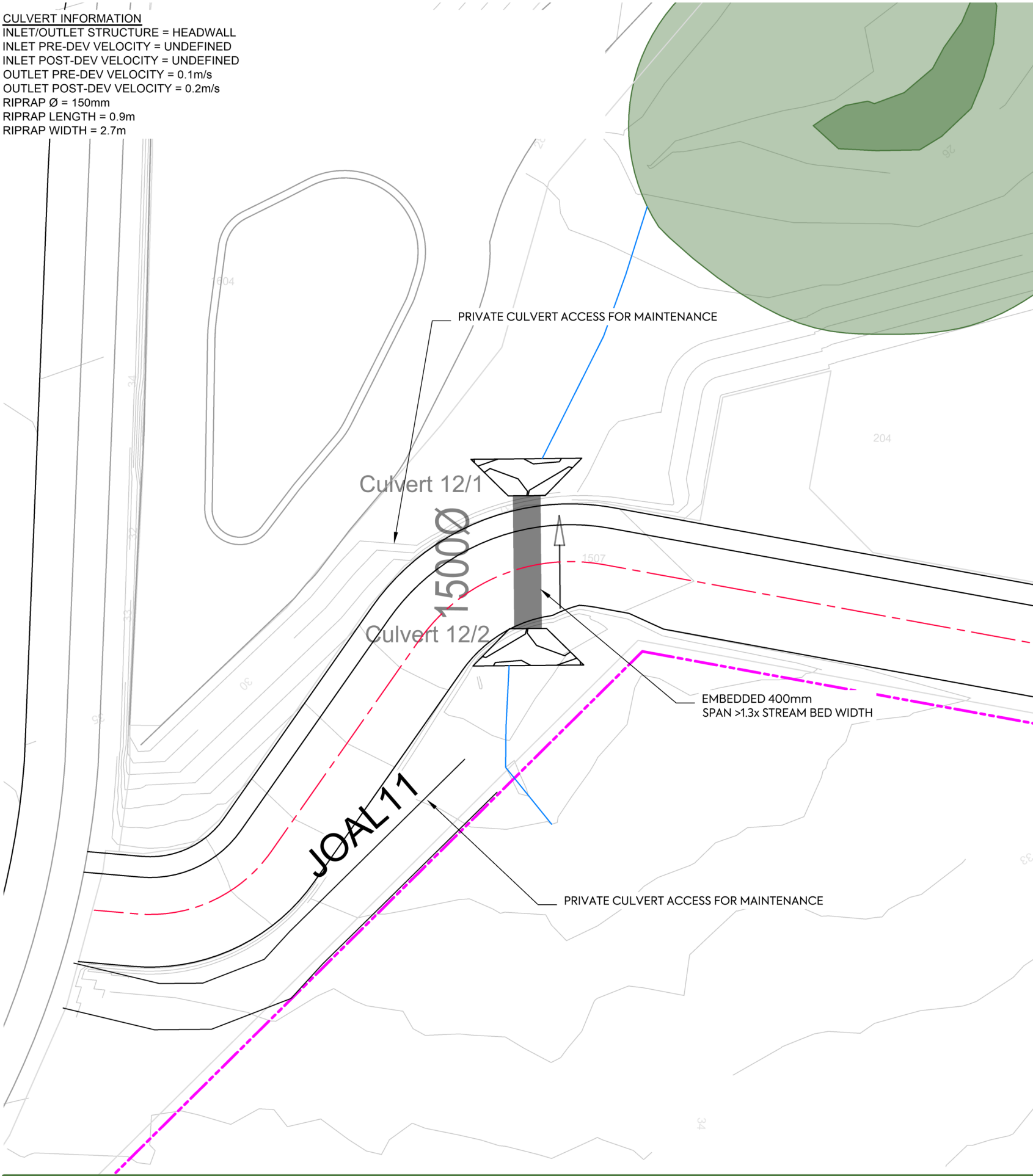
PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:500m @ A3
DO NOT SCALE

DRAWING NO:
3725-1-4811

REV:
I

CULVERT INFORMATION
INLET/OUTLET STRUCTURE = HEADWALL
INLET PRE-DEV VELOCITY = UNDEFINED
INLET POST-DEV VELOCITY = UNDEFINED
OUTLET PRE-DEV VELOCITY = 0.1m/s
OUTLET POST-DEV VELOCITY = 0.2m/s
RIPRAP Ø = 150mm
RIPRAP LENGTH = 0.9m
RIPRAP WIDTH = 2.7m



DATUM = 15.0			
DESIGN SURFACE	29.56	28.49	
DEPTH TO INVERT	0.16	0.09	0.09
INVERT LEVEL	29.40	28.40	28.40
EXISTING SURFACE	29.60	28.49	
PIPE DETAILS	12.06% 1500mmø RCRRJ		
LENGTH	8.29m		

Culvert 12 - LONGSECTION

DATUM = 27.00			
DESIGN SURFACE	31.38	32.34	
CUT/FILL DEPTHS	1.94	2.53	
EXISTING SURFACE	29.44	29.81	
CHAINAGES	10.0	20.0	

Culvert 12 - ELEVATION VIEW
SCALE HORIZ=1:500 @ A3
VERT=1:500 @ A3

LEGEND:

PRE-DEVELOPMENT WATER LEVEL
POST-DEVELOPMENT WATER LEVEL

EXISTING MOTORWAY APPROX. LEVEL
RL=27.00

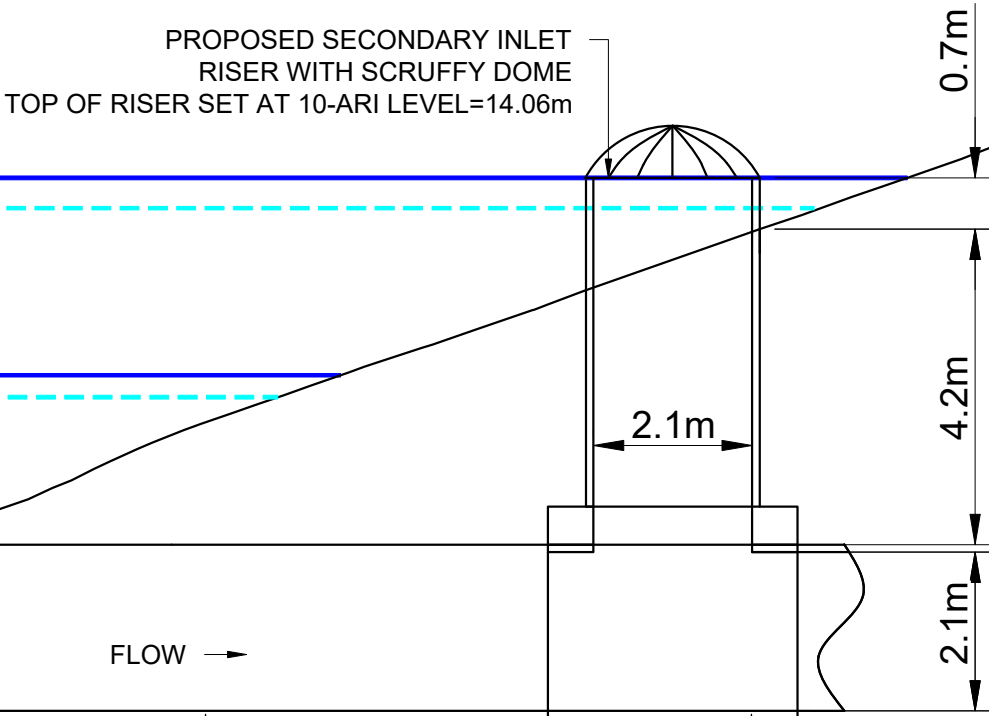
100-ARI WATER LEVEL 3.8CC
(100% BLOCKED CULVERT)
RL=21.80m (POST-DEVELOPMENT)
RL=20.98m (PRE-DEVELOPMENT)

100-ARI WATER LEVEL 3.8CC
RL=16.73m (POST-DEVELOPMENT)
RL=17.02m (PRE-DEVELOPMENT)

10-ARI WATER LEVEL 2.1CC
RL=14.06m (POST-DEVELOPMENT)
RL=13.86m (PRE-DEVELOPMENT)

2-ARI WATER LEVEL 2.1CC
RL=11.50m (POST-DEVELOPMENT)
RL=11.4m (PRE-DEVELOPMENT)

PROPOSED SECONDARY INLET
RISER WITH SCRUFFY DOME
TOP OF RISER SET AT 10-ARI LEVEL=14.06m



EXISTING WING WALL

EXISTING 2100mmØ CULVERT
INVERT LEVEL=7.25m (GEOMAPS)

REINFORCED CONCRETE
RISER CONNECTION
TO CULVERT

EXISTING FINISHED
GROUND PROFILE

SITE EXTENT

CULVERT
LOCATION

LOCATION PLAN

G	FOR CONSENT	JK	LV	JK	16/04/26
F	UPDATED LABEL	JDK			19/12/25
E	UPDATED FLOOD LEVELS	JDK			19/12/25
D	REMOVED RISER	JDK			05/12/25
C	FOR DISCUSSION	ZW	JDK	JDK	02/12/25
B	FOR DISCUSSION	ZW	JDK	JDK	01/12/25
H	FOR CONSENT	JK	LV	JK	06/05/26
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



MCKENZIE & CO.

CLIENT:

VINEWAY LTD

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA
STAGE 1

TITLE:

STORMWATER
EXISTING NZTA CULVERT
UPGRADE PLAN

PURPOSE OF ISSUE:

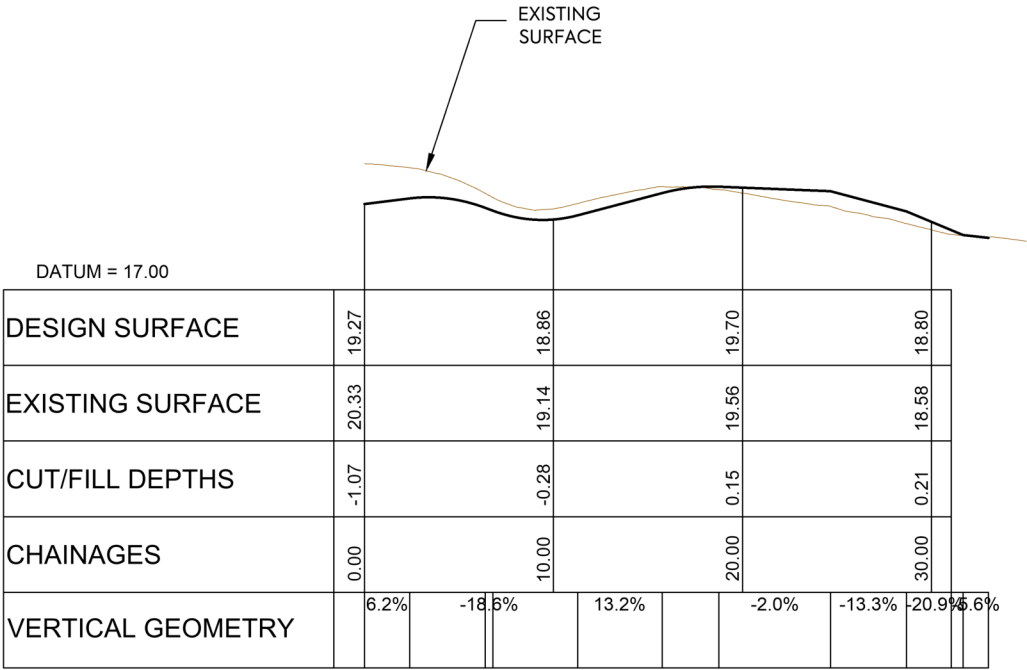
RESOURCE CONSENT

SCALE:
1:100m@A3
DO NOT SCALE

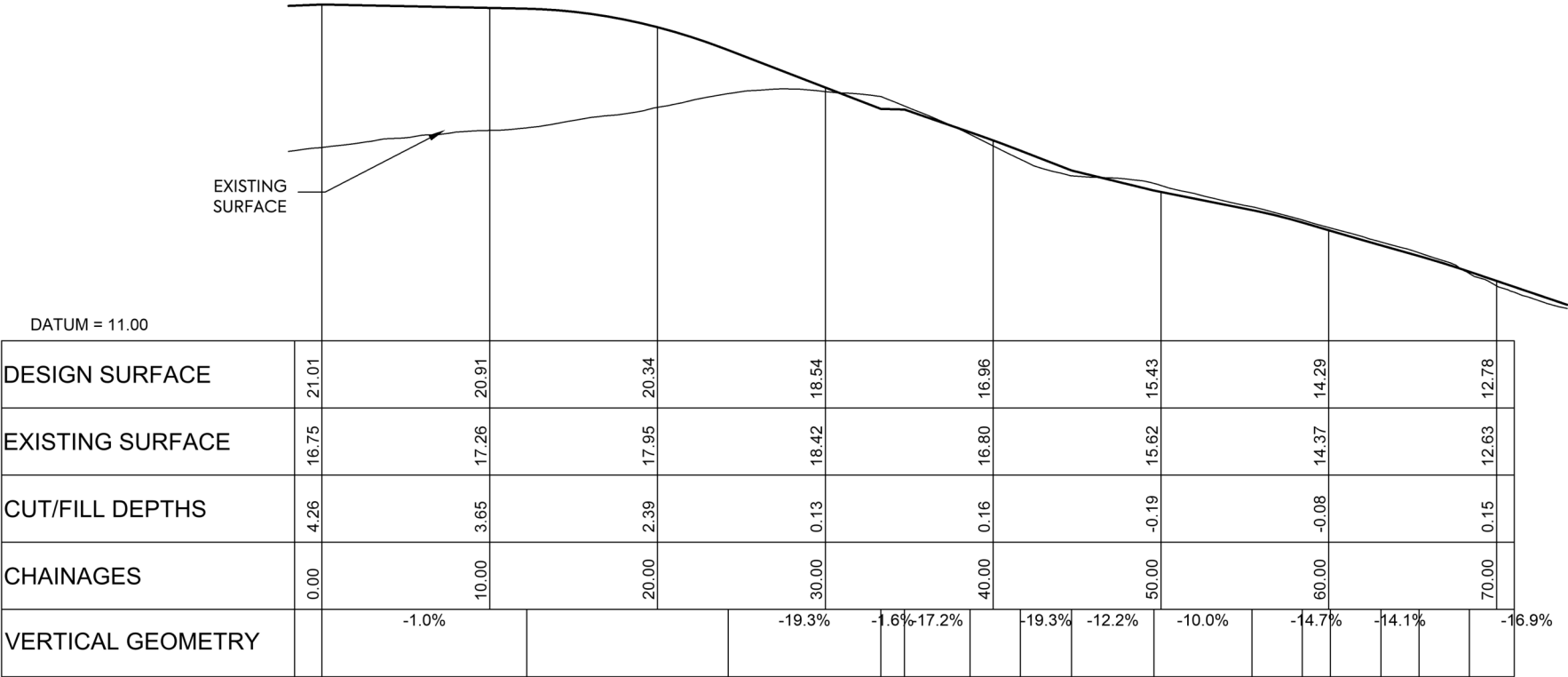
DRAWING NO:
3725-1-4815

REV:
H

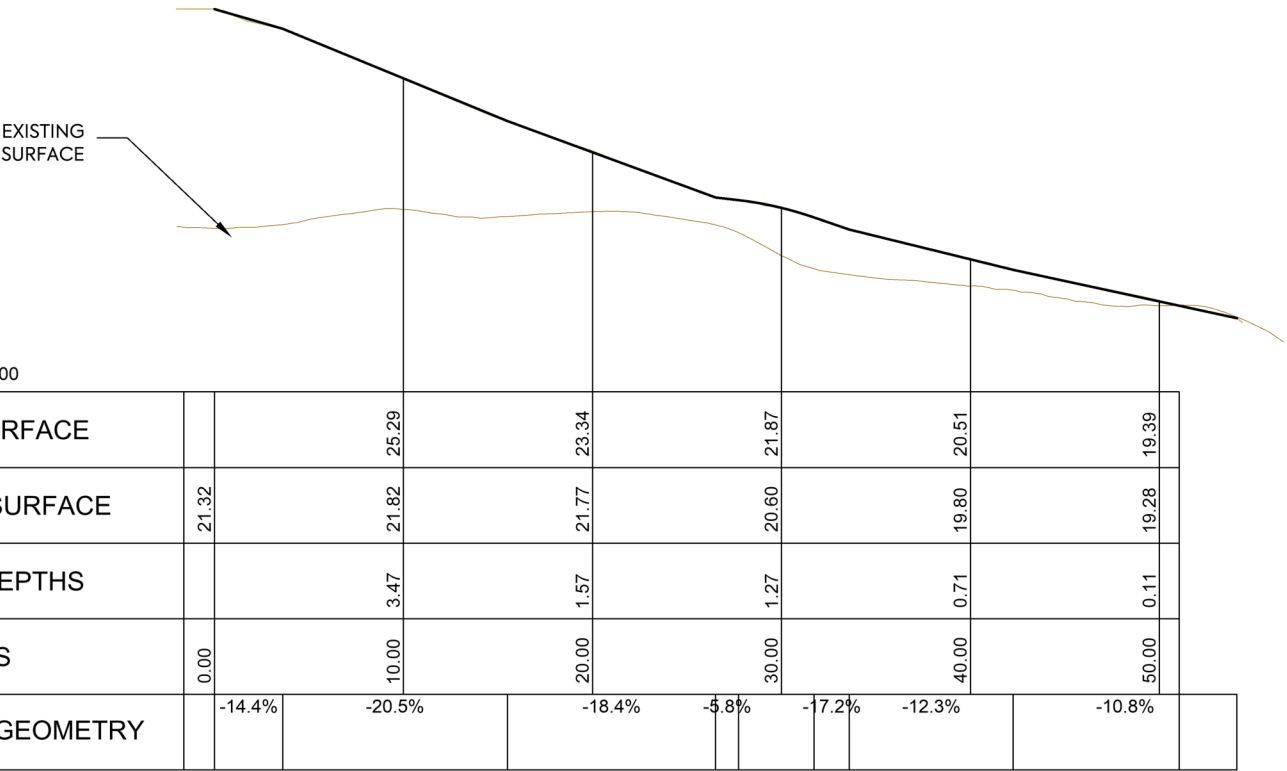
NOTE: CULVERT MAINTENANCE TRACK 3.0m WIDE



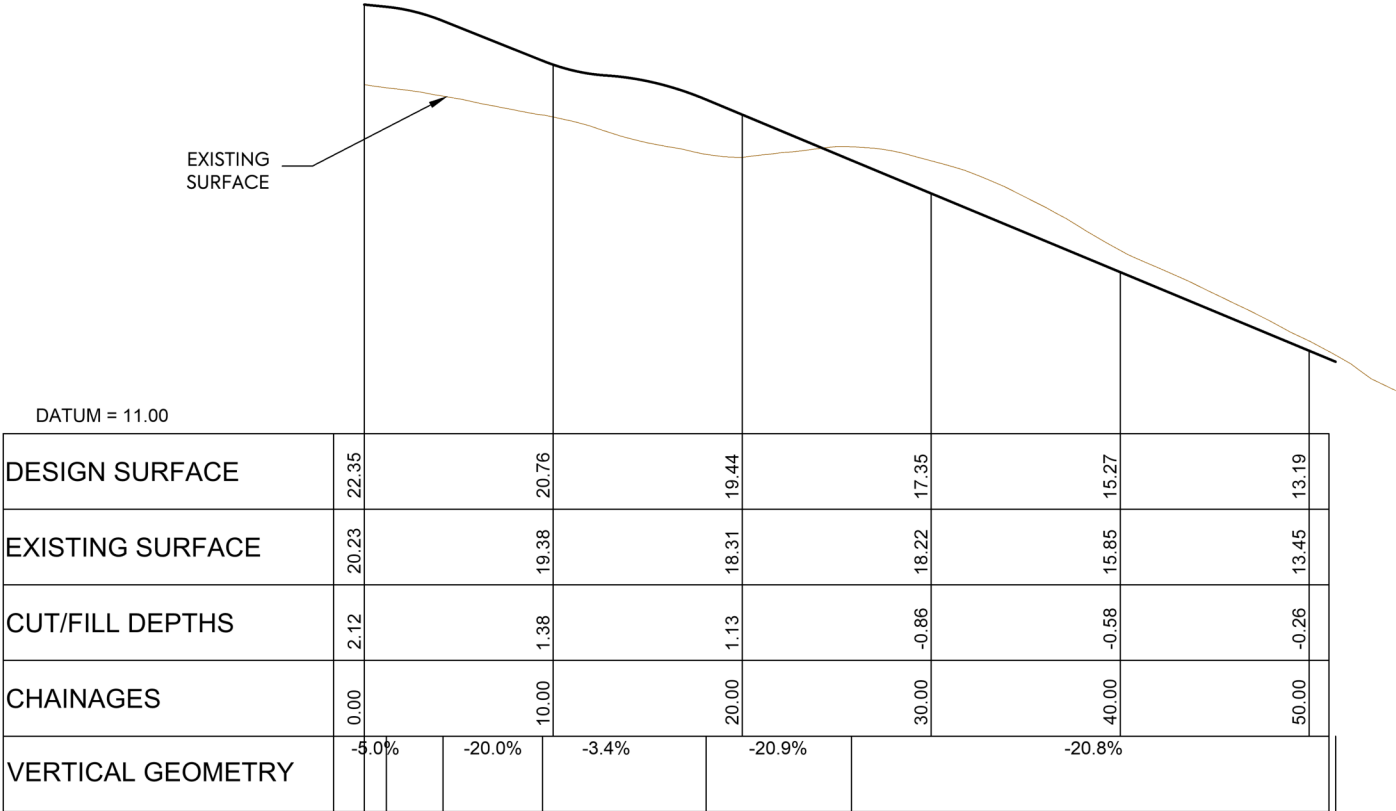
CULVERT 01 - LS MAINTENANCE TRACK - NORTH ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 03 - LS MAINTENANCE TRACK - EAST ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 01 - LS MAINTENANCE TRACK - SOUTH ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 03 - LS MAINTENANCE TRACK - WEST ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



VINEWAY LIMITED

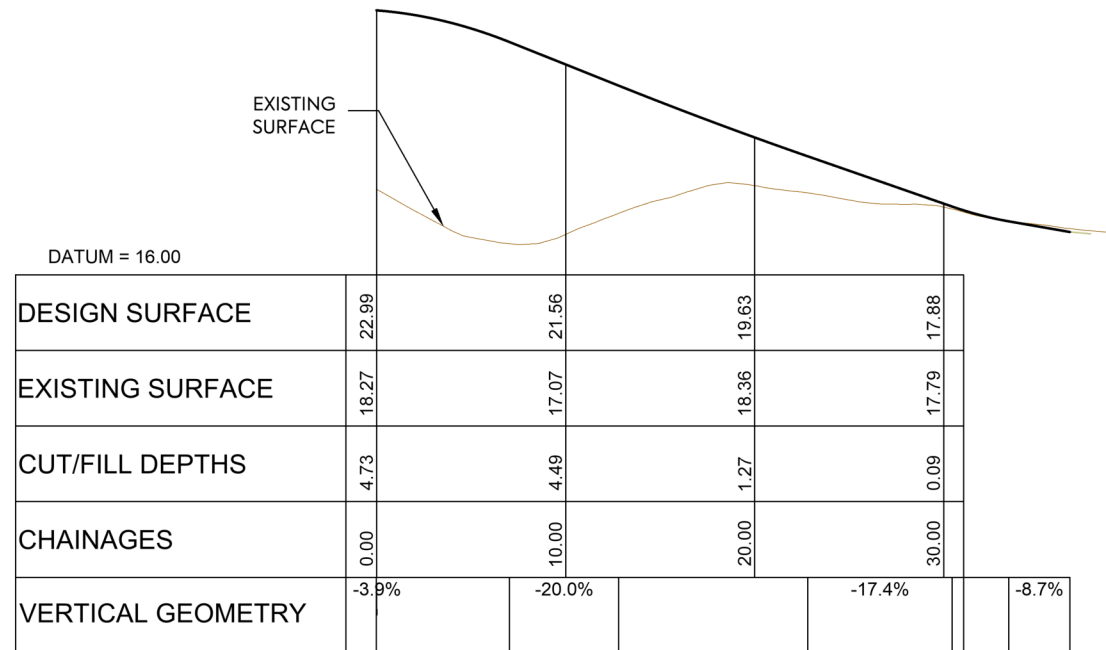
DELMORE
STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

STORMWATER CULVERTS
MAINTENANCE ACCESS
LONGITUDINAL SECTIONS

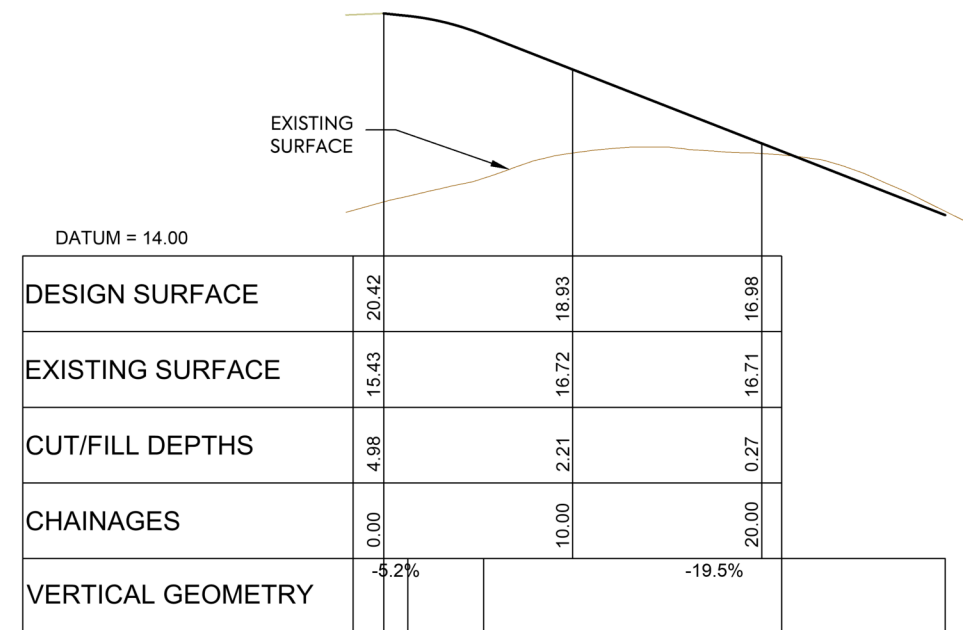
PURPOSE OF ISSUE:	RESOURCE CONSENT
SCALE:	1:200m @ A3
DO NOT SCALE	
DRAWING NO:	3725-1-4820
REV:	A

A	FOR CONSENT	PO	LV	JK	26/05/26
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

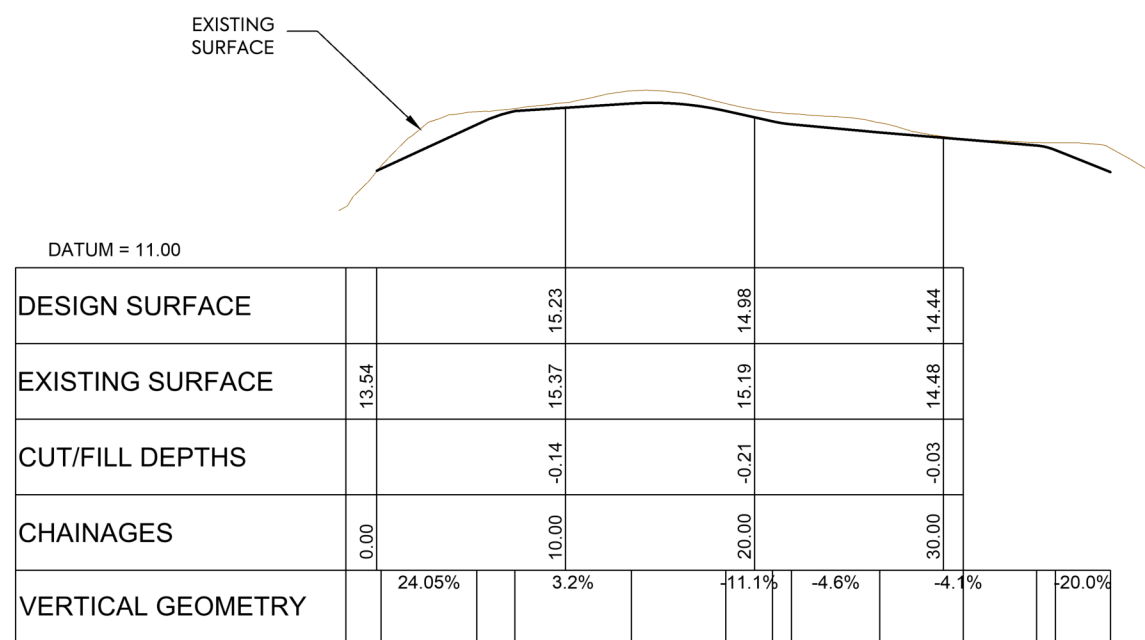
NOTE: CULVERT MAINTENANCE TRACK 3.0m WIDE



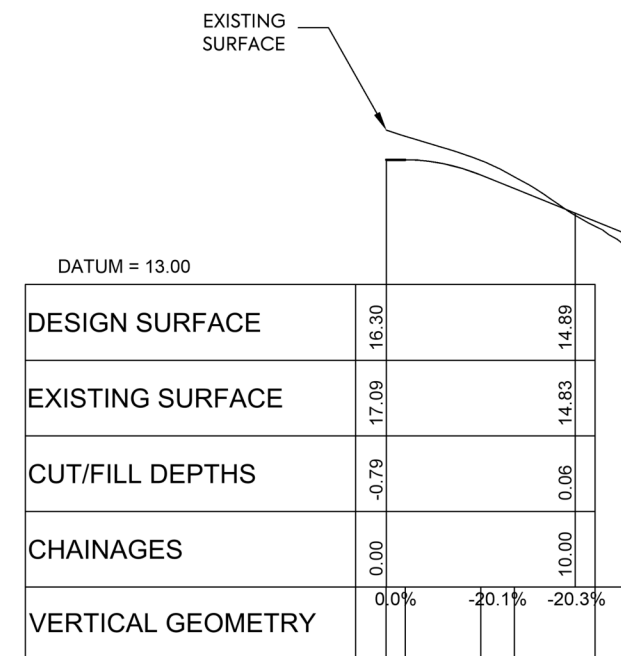
CULVERT 04 - LS MAINTENANCE TRACK - EAST ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 05 - LS MAINTENANCE TRACK - NORTH ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 04 - LS MAINTENANCE TRACK - WEST ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 05 - LS MAINTENANCE TRACK - SOUTH ACCESS
SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1

CLIENT:

PROJECT:

TITLE:

PURPOSE OF ISSUE:

RESOURCE CONSENT

SCALE:
1:200m @ A3

DO NOT SCALE

DRAWING NO: REV:

3725-1-4821

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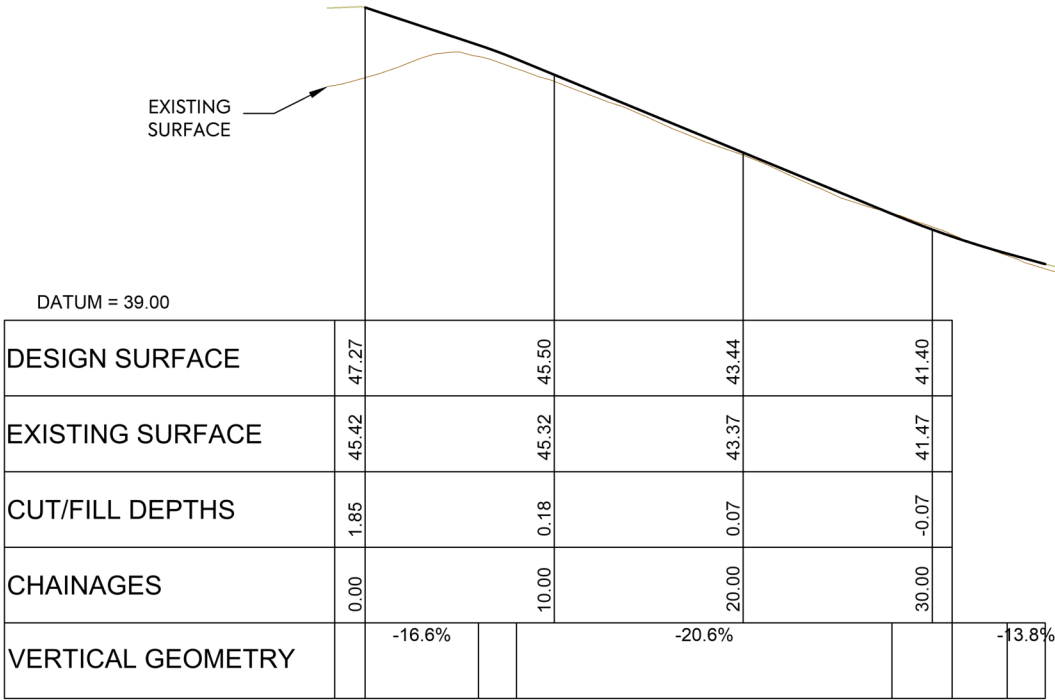
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A	FOR CONSENT	PO	LV	JK	26/05/26
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

PLOT DATE 2026-05-27 12:19:02 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSES

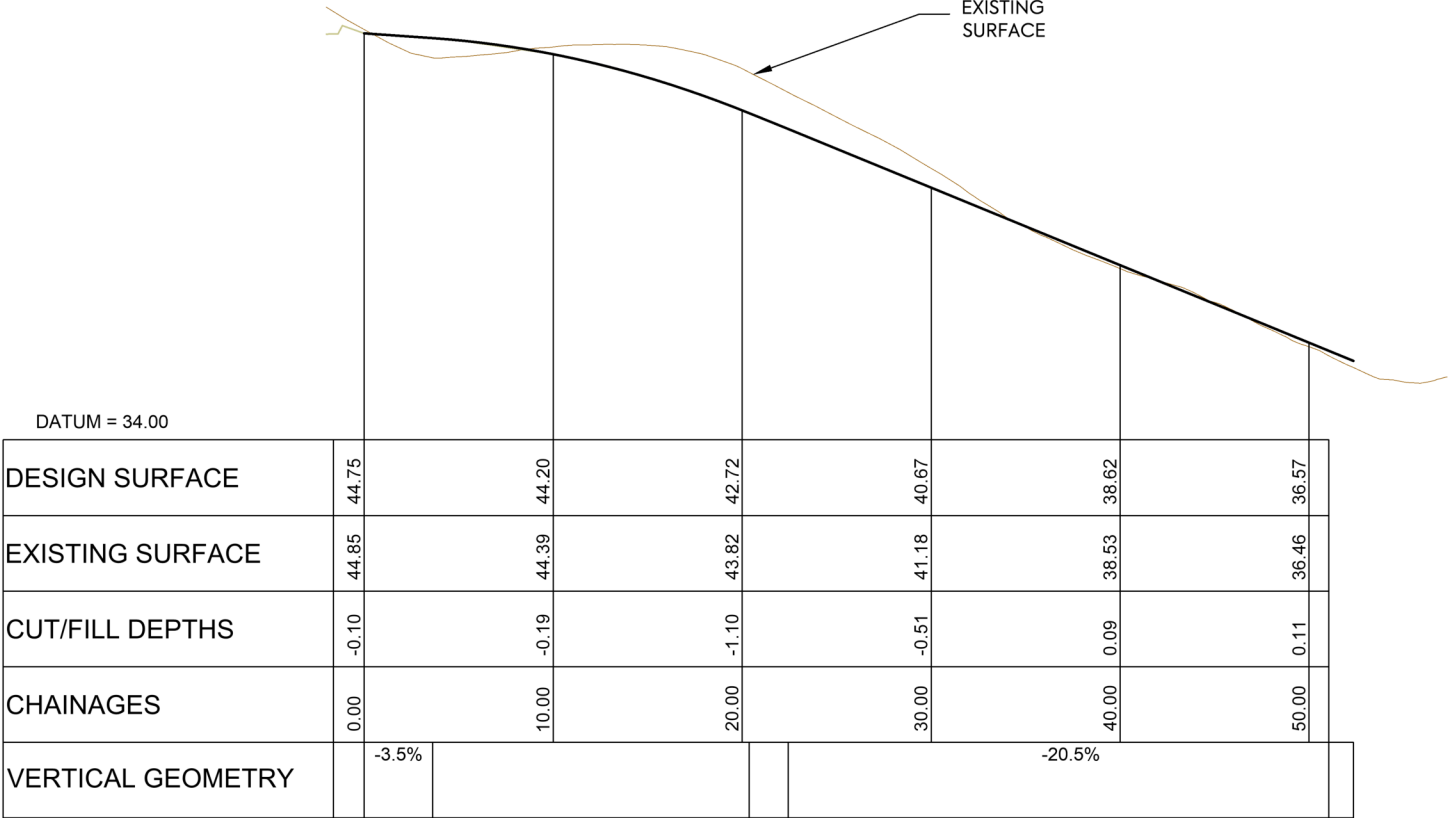
C:\12DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000, ENGINEERING DESIGN\6500, DRAWINGS\4800 CULVERTS.DWG

NOTE: CULVERT MAINTENANCE TRACK 3.0m WIDE



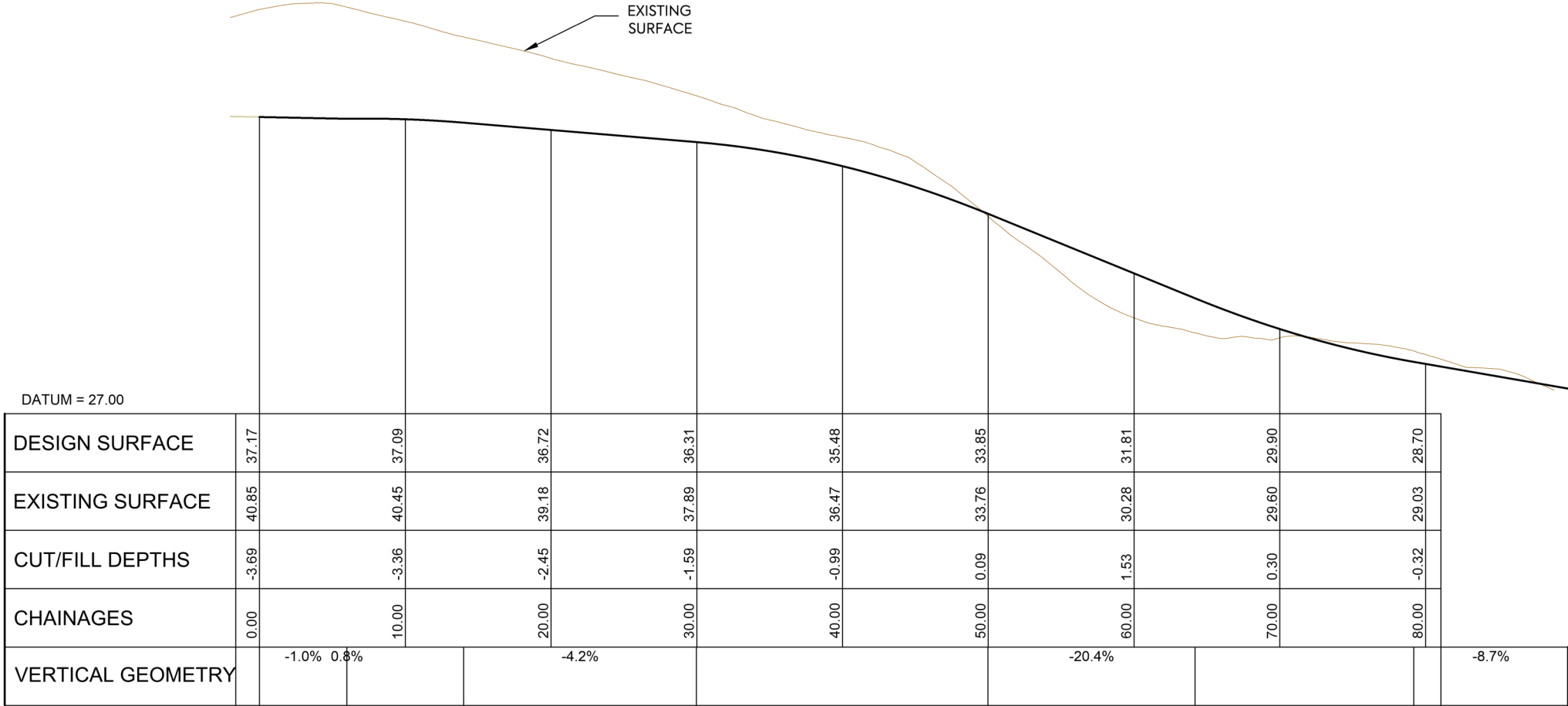
CULVERT 07 - LS MAINTENANCE TRACK - NORTH ACCESS

SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



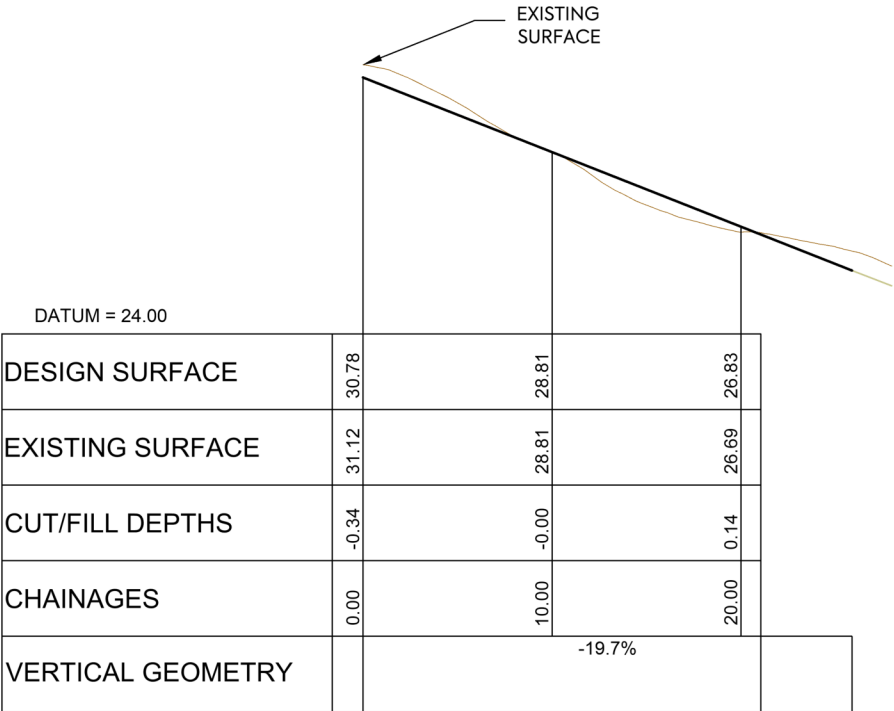
CULVERT 07 - LS MAINTENANCE TRACK - SOUTH ACCESS

SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 06 - LS MAINTENANCE TRACK - NORTH ACCESS

SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



CULVERT 06 - LS MAINTENANCE TRACK - SOUTH ACCESS

SCALE HORIZ=1:200 @ A1 VERT=1:100 @ A1



VINEWAY LIMITED

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STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

STORMWATER CULVERTS
MAINTENANCE ACCESS
LONGITUDINAL SECTIONS

PURPOSE OF ISSUE:
RESOURCE CONSENT

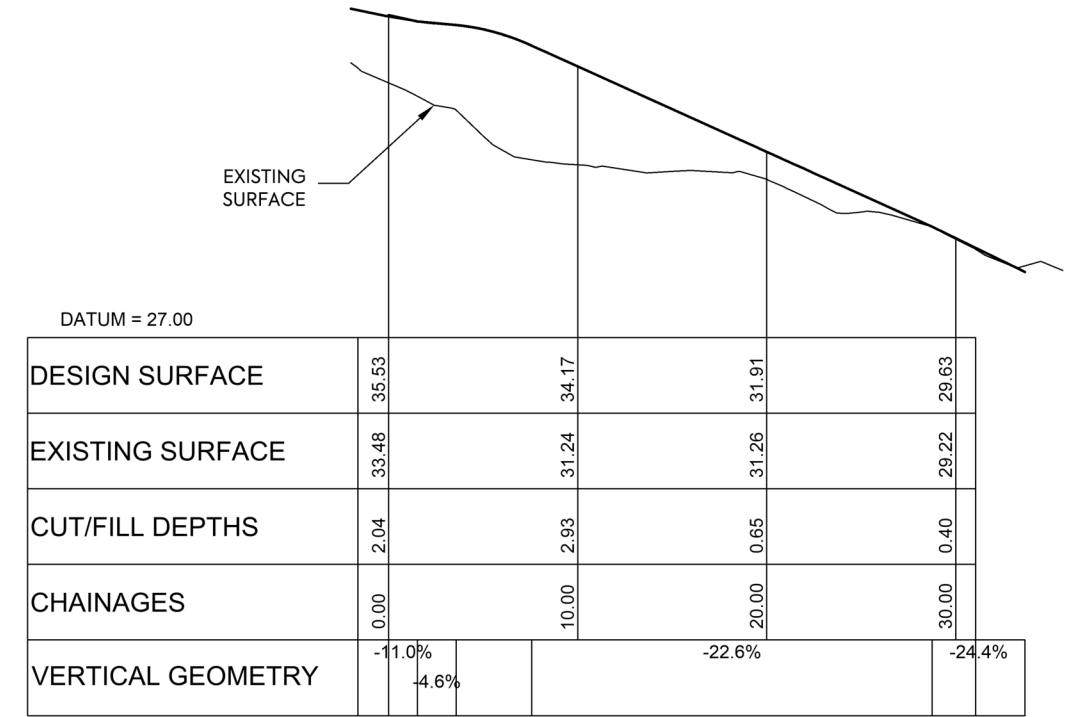
SCALE:
1:200m @ A3
DO NOT SCALE

DRAWING NO:
3725-1-4822

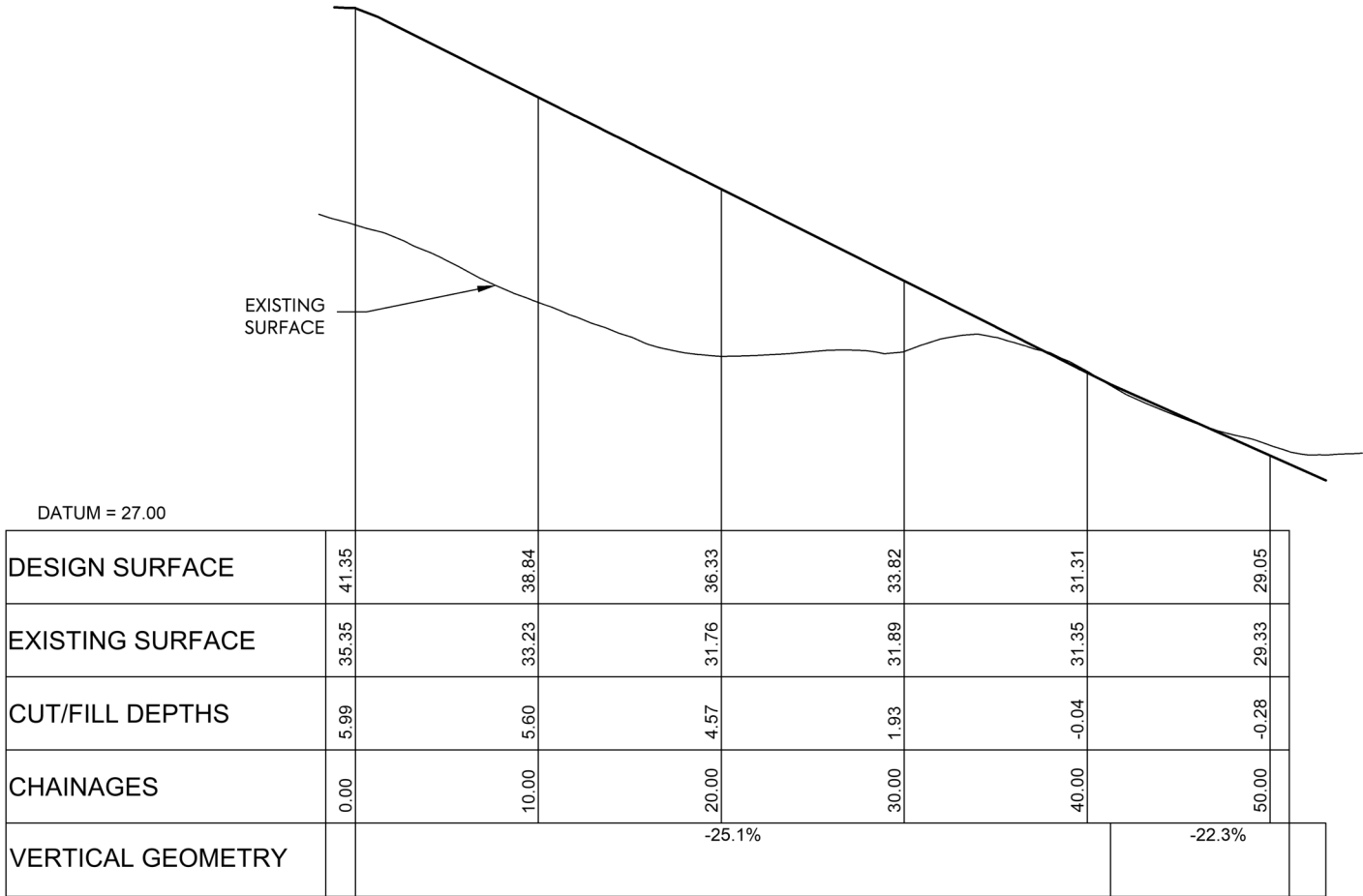
REV:
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A	FOR CONSENT	PO	LV	JK	26/05/26
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

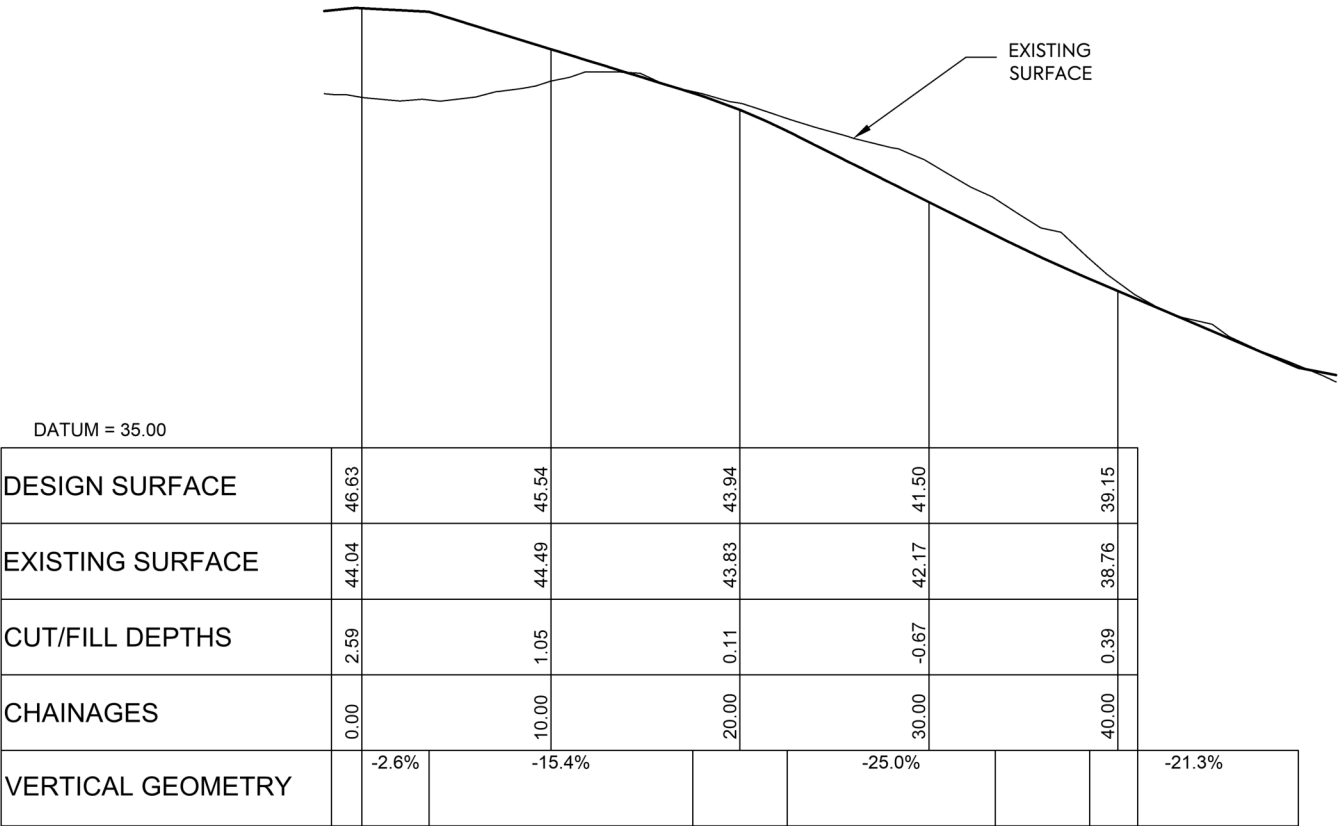
NOTE: CULVERT MAINTENANCE TRACK 3.0m WIDE



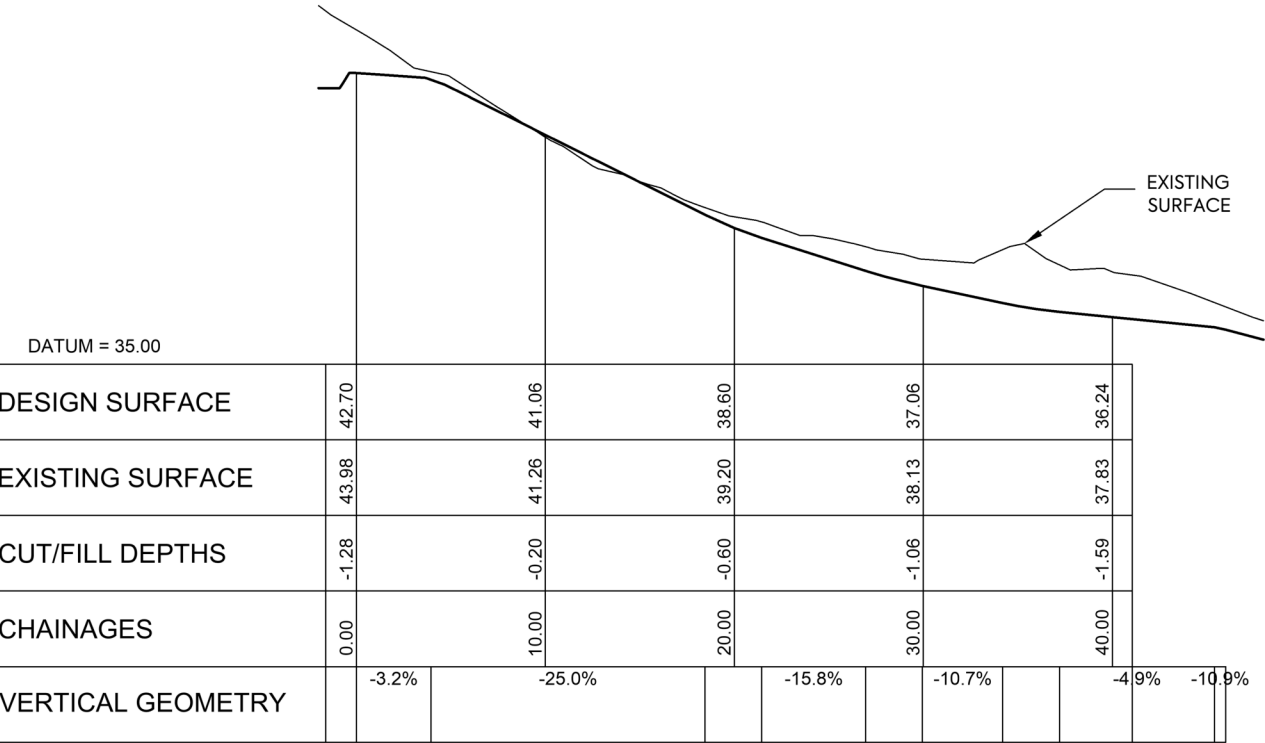
CULVERT 08 - LS MAINTENANCE TRACK - SOUTH ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



CULVERT 09 - LS MAINTENANCE TRACK - NORTH ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



CULVERT 08 - LS MAINTENANCE TRACK - NORTH ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



CULVERT 08 - LS MAINTENANCE TRACK - SOUTH ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



VINEWAY LIMITED

DELMORE
STAGE 2
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OREWA

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LONGITUDINAL SECTIONS

PURPOSE OF ISSUE:
RESOURCE CONSENT

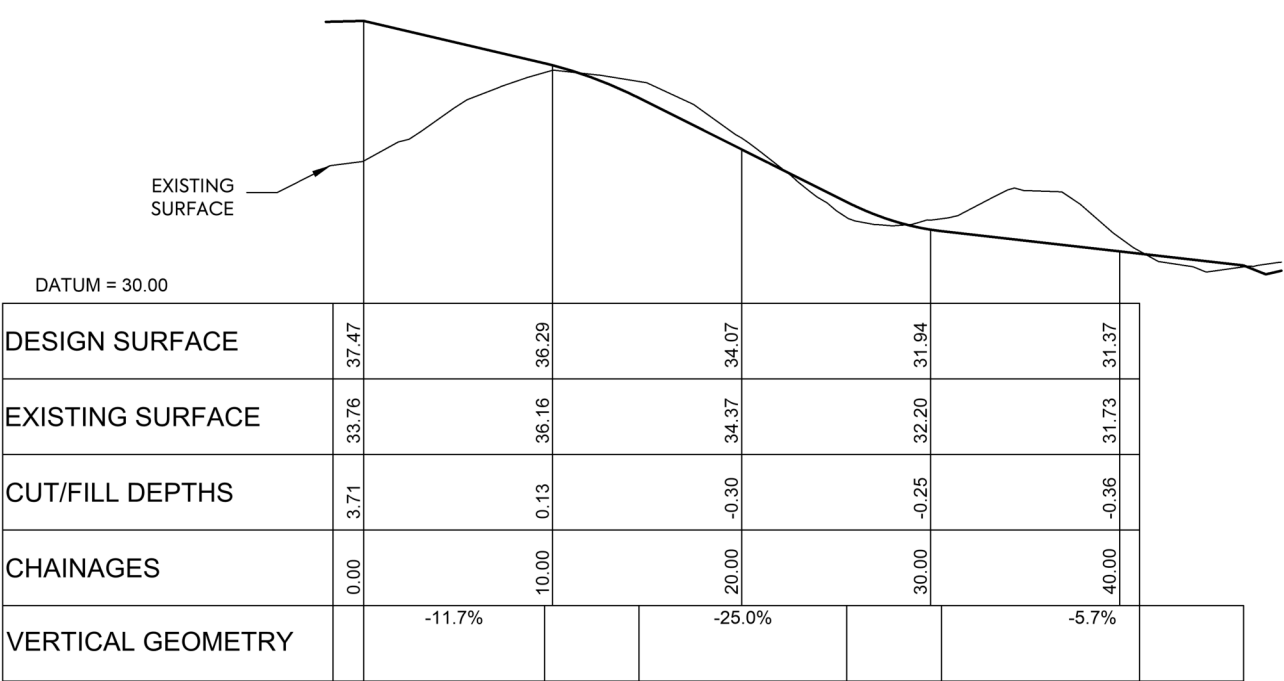
SCALE:
1:200m @ A3
DO NOT SCALE

DRAWING NO:
3725-1-4823

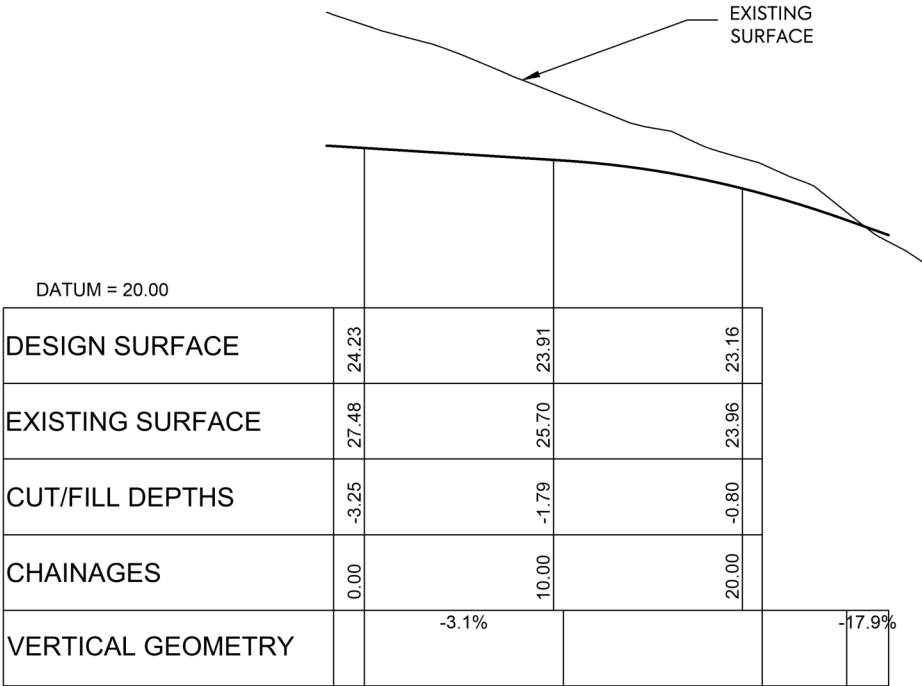
REV:
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A	FOR CONSENT	PO	LV	JK	26/05/26
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

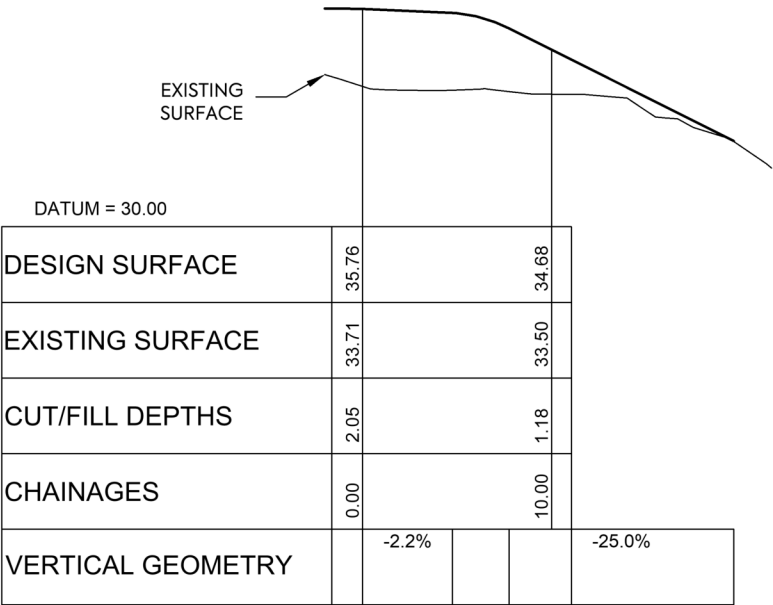
NOTE: CULVERT MAINTENANCE TRACK 3.0m WIDE



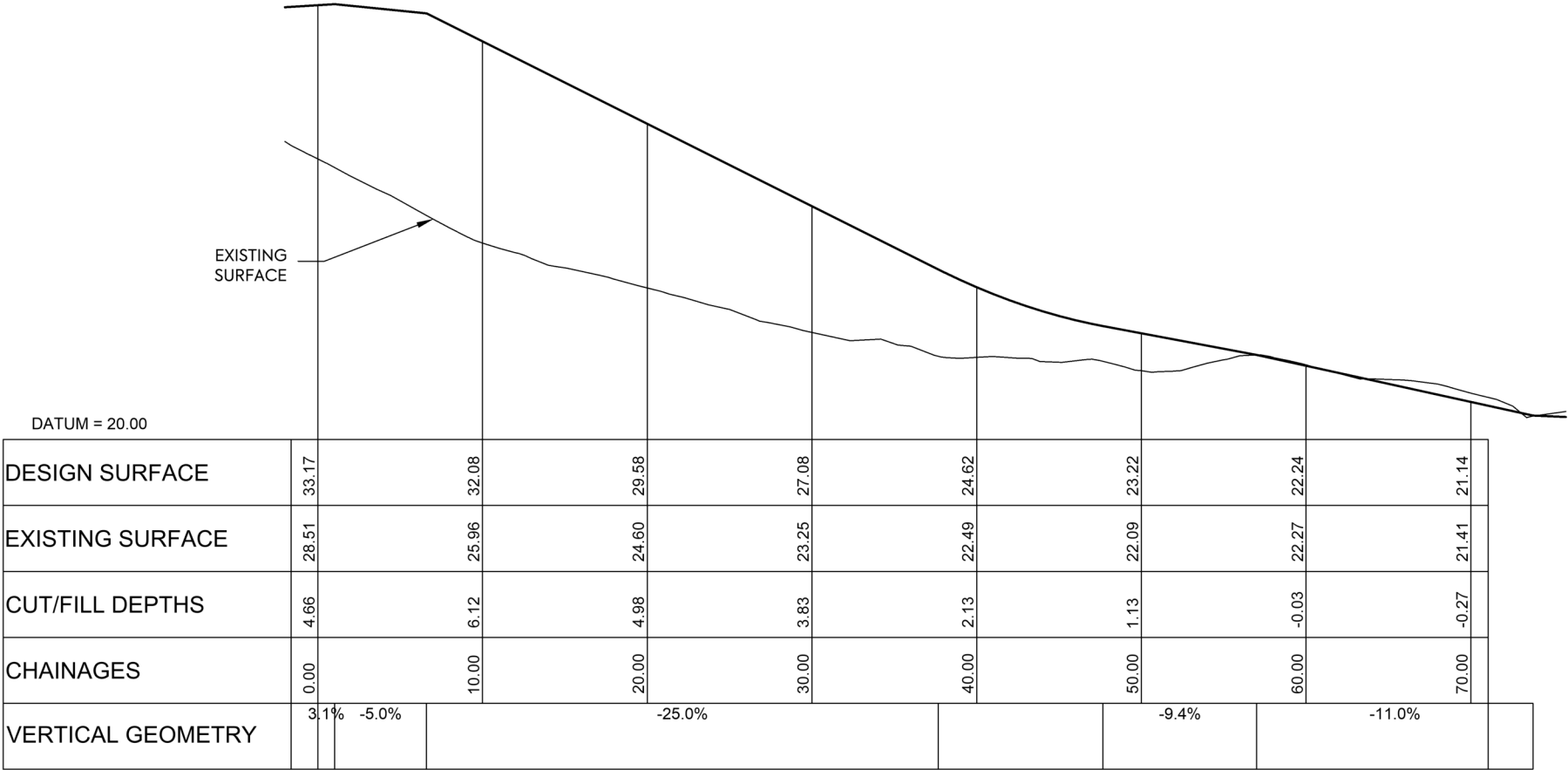
CULVERT 10 - LS MAINTENANCE TRACK - EAST ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



CULVERT 11 - LS MAINTENANCE TRACK - WEST ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



CULVERT 10 - LS MAINTENANCE TRACK - WEST ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



CULVERT 11 - LS MAINTENANCE TRACK - EAST ACCESS
SCALE HORIZ=1:200 @ A1VERT=1:100 @ A1



VINEWAY LIMITED

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LONGITUDINAL SECTIONS

PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:200m @ A3
DO NOT SCALE

DRAWING NO:
3725-1-4824

REV:
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A	FOR CONSENT	PO	LV	JK	26/05/26
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

