

Chainage 00.000
Datum: 40.000

PROPOSED LEVELS	43.986	43.902	44.372	43.902	44.286
EXISTING LEVELS	43.986	43.985	44.372	44.384	44.286
LEVEL DIFFERENCE	0.000	-0.082	0.000	-0.482	0.000
OFFSETS	-5.267	-5.100	0.000	5.100	5.868

Total Volume at Station 0+000.00	
Cut Vol	0.00
Fill Vol	0.00

Chainage 40.000
Datum: 40.000

PROPOSED LEVELS	43.676	43.930	44.400	43.923	43.917
EXISTING LEVELS	43.676	43.647	43.886	43.917	43.917
LEVEL DIFFERENCE	0.000	0.282	0.514	0.005	0.000
OFFSETS	-5.609	-5.101	0.000	5.098	5.112

Total Volume at Station 0+040.00	
Cut Vol	3.02
Fill Vol	60.67

Chainage 20.000
Datum: 40.000

PROPOSED LEVELS	43.954	43.938	44.387	43.914	44.027
EXISTING LEVELS	43.954	43.952	44.262	44.067	44.027
LEVEL DIFFERENCE	0.000	-0.014	0.125	-0.153	0.000
OFFSETS	-5.173	-5.020	0.000	5.090	5.326

Total Volume at Station 0+020.00	
Cut Vol	13.38
Fill Vol	17.03

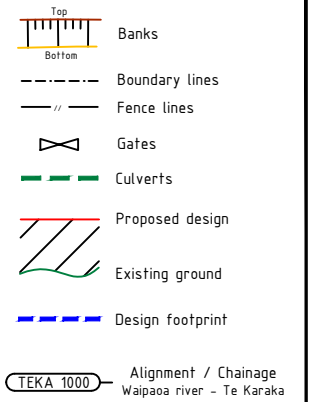
Chainage 60.000
Datum: 40.000

PROPOSED LEVELS	42.928	43.930	44.400	43.930	43.162
EXISTING LEVELS	42.928	43.066	43.406	43.502	43.162
LEVEL DIFFERENCE	0.000	0.864	0.993	0.428	0.000
OFFSETS	-7.104	-5.100	0.000	5.100	6.636

Total Volume at Station 0+060.00	
Cut Vol	0.00
Fill Vol	156.70

General Notes

Keys

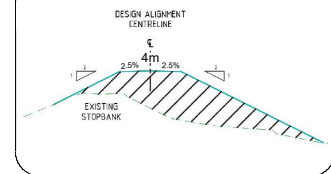


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

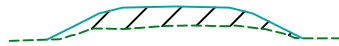
TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Project Name and Address
WAIPAOA RIVER
TE KARAKA - TOWNSHIP
KANAKANAIA ROAD DESIGN
CROSS SECTIONS

Project WAIPAOA RIVER	Sheet 1
Date 08.06.2026	
Scale 1:500 @ A3	

Chainage 80.000
Datum: 40.000



Total Volume at Station 0+80.00	
Cut Vol	0.00
Fill Vol	267.47

PROPOSED LEVELS	42.207	43.930	44.400	43.930	42.296
EXISTING LEVELS	42.207	42.944	43.128	42.994	42.296
LEVEL DIFFERENCE	0.000	0.986	1.272	0.936	0.000
OFFSETS	-8.545	-5.100	0.000	5.100	8.367

Chainage 120.000
Datum: 40.000



Total Volume at Station 0+120.00	
Cut Vol	0.00
Fill Vol	403.79

PROPOSED LEVELS	42.020	43.999	44.469	43.742	42.379
EXISTING LEVELS	42.020	42.461	42.657	42.492	42.379
LEVEL DIFFERENCE	0.000	1.538	1.812	1.250	0.000
OFFSETS	-9.057	-5.100	0.000	5.054	7.787

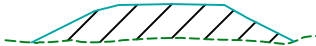
Chainage 100.000
Datum: 40.000



Total Volume at Station 0+100.00	
Cut Vol	0.00
Fill Vol	338.67

PROPOSED LEVELS	42.580	43.930	44.400	43.855	42.292
EXISTING LEVELS	42.580	42.833	42.915	42.741	42.292
LEVEL DIFFERENCE	0.000	1.096	1.485	1.114	0.000
OFFSETS	-7.800	-5.100	0.000	5.100	8.226

Chainage 140.000
Datum: 40.000

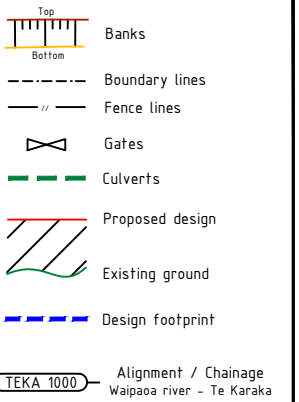


Total Volume at Station 0+140.00	
Cut Vol	0.00
Fill Vol	514.03

PROPOSED LEVELS	42.014	44.091	44.561	43.590	42.083
EXISTING LEVELS	42.014	42.028	42.315	42.139	42.083
LEVEL DIFFERENCE	0.000	2.063	2.246	1.451	0.000
OFFSETS	-9.254	-5.100	0.000	5.100	8.115

General Notes

Keys

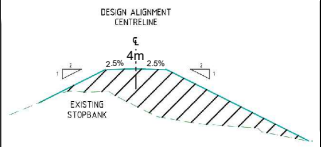


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

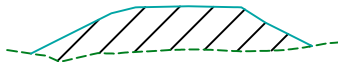
TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Project Name and Address
WAIPAOA RIVER
TE KARAKA - TOWNSHIP
KANAKANAIA ROAD DESIGN
CROSS SECTIONS

Project WAIPAOA RIVER	Sheet
Date 08.06.2026	2
Scale 1:500 @ A3	

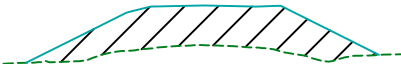
Chainage 160.000
Datum: 40.000



Total Volume at Station 0+160.00	
Cut Vol	0.00
Fill Vol	685.61

PROPOSED LEVELS	41.417	44.079	44.549	43.458	41.918
EXISTING LEVELS	41.417	41.423	41.689	41.594	41.918
LEVEL DIFFERENCE	0.000	2.656	2.860	1.864	0.000
OFFSETS	-10.424	-5.100	0.000	5.100	8.180

Chainage 200.000
Datum: 35.000



Total Volume at Station 0+200.00	
Cut Vol	0.00
Fill Vol	978.49

PROPOSED LEVELS	39.047	42.367	42.837	42.822	39.571
EXISTING LEVELS	39.047	39.841	40.215	39.807	39.571
LEVEL DIFFERENCE	0.000	2.526	2.622	3.015	0.000
OFFSETS	-11.739	-5.100	0.000	5.100	11.602

Chainage 180.000
Datum: 40.000



Total Volume at Station 0+180.00	
Cut Vol	0.00
Fill Vol	894.30

PROPOSED LEVELS	40.045	43.517	43.965	43.326	40.911
EXISTING LEVELS	39.384	40.600	40.870	40.761	40.911
LEVEL DIFFERENCE	0.661	2.917	3.095	2.565	0.000
OFFSETS	-12.000	-5.013	0.000	5.100	9.930

Chainage 220.000
Datum: 35.000



Total Volume at Station 0+220.00	
Cut Vol	0.00
Fill Vol	825.02

PROPOSED LEVELS	39.308	41.281	41.739	42.210	39.023
EXISTING LEVELS	39.308	39.534	39.769	39.532	39.023
LEVEL DIFFERENCE	0.000	1.748	1.970	2.677	0.000
OFFSETS	-9.022	-5.053	0.000	5.100	11.474

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW10/2025

Drawn by : P.FLAUGERE06/2026

Checked by : D.FOOTE06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

4m

2.5%

2.5%

EXISTING
STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Taiāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPAOPA RIVER
TE KARAKA - TOWNSHIP
KANAKANAIA ROAD DESIGN
CROSS SECTIONS

Project
WAIPAOPA RIVER

Date
08.06.2026

Scale
1:500 @ A3

Sheet
3

Chainage 240.000
Datum: 35.000



Total Volume at Station 0+240.00	
Cut Vol	0.00
Fill Vol	597.09

PROPOSED LEVELS	39.133	40.470	40.940	41.591	38.537
EXISTING LEVELS	39.133	39.305	39.539	39.203	38.537
LEVEL DIFFERENCE	0.000	1.165	1.401	2.388	0.000
OFFSETS	-7.773	-5.100	0.000	5.085	11.221

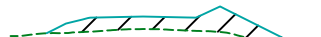
Chainage 280.000
Datum: 35.000



Total Volume at Station 0+280.00	
Cut Vol	0.00
Fill Vol	223.13

PROPOSED LEVELS	39.229	39.497	39.967	40.372	38.375
EXISTING LEVELS	39.229	39.257	39.514	39.308	38.375
LEVEL DIFFERENCE	0.000	0.239	0.453	1.064	0.000
OFFSETS	-5.636	-5.100	0.000	5.100	9.095

Chainage 260.000
Datum: 35.000



Total Volume at Station 0+260.00	
Cut Vol	0.00
Fill Vol	397.86

PROPOSED LEVELS	39.214	39.849	40.319	40.985	38.534
EXISTING LEVELS	39.214	39.227	39.490	39.298	38.534
LEVEL DIFFERENCE	0.000	0.622	0.829	1.686	0.000
OFFSETS	-6.369	-5.100	0.000	5.100	10.001

Chainage 300.000
Datum: 35.000

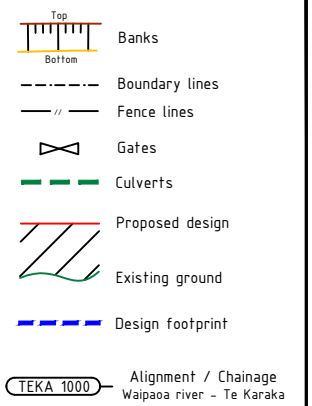


Total Volume at Station 0+300.00	
Cut Vol	0.00
Fill Vol	115.91

PROPOSED LEVELS	39.191	39.338	39.808	39.759	39.193
EXISTING LEVELS	39.191	39.203	39.487	39.322	39.193
LEVEL DIFFERENCE	0.000	0.135	0.321	0.437	0.000
OFFSETS	-5.394	-5.100	0.000	5.100	6.233

General Notes

Keys

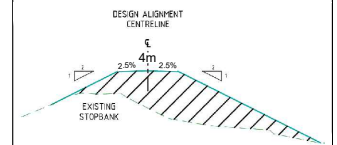


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Project Name and Address
**WAIPAOA RIVER
TE KARAKA - TOWNSHIP
KANAKANAIA ROAD DESIGN
CROSS SECTIONS**

Project WAIPAOA RIVER	Sheet
Date 08.06.2026	4
Scale 1:500 @ A3	

Chainage 320.000
Datum: 35.000

PROPOSED LEVELS		39.068	39.300	39.770	39.296	39.225
EXISTING LEVELS		39.068	39.124	39.471	39.234	39.225
LEVEL DIFFERENCE		0.000	0.176	0.299	0.062	0.000
OFFSETS		-5.565	-5.100	0.000	5.100	5.243

Total Volume at Station 0+320.00	
Cut Vol	0.00
Fill Vol	69.58

Chainage 360.000
Datum: 35.000

PROPOSED LEVELS		39.244	39.279	39.749	39.255	39.356
EXISTING LEVELS		39.244	39.246	39.640	39.371	39.356
LEVEL DIFFERENCE		0.000	0.033	0.110	-0.116	0.000
OFFSETS		-5.172	-5.100	0.000	5.100	5.302

Total Volume at Station 0+360.00	
Cut Vol	0.46
Fill Vol	34.82

Chainage 340.000
Datum: 35.000

PROPOSED LEVELS		39.223	39.294	39.764	39.276	39.259
EXISTING LEVELS		39.223	39.245	39.543	39.261	39.259
LEVEL DIFFERENCE		0.000	0.049	0.221	0.015	0.000
OFFSETS		-5.243	-5.100	0.000	5.100	5.134

Total Volume at Station 0+340.00	
Cut Vol	0.00
Fill Vol	53.01

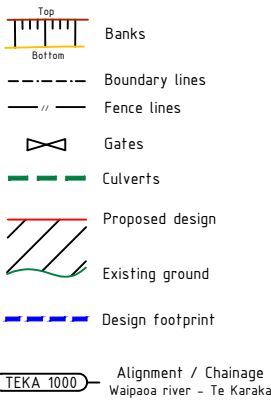
Chainage 380.000
Datum: 35.000

PROPOSED LEVELS		39.360	39.262	39.709	39.256	39.425
EXISTING LEVELS		39.360	39.394	39.694	39.459	39.425
LEVEL DIFFERENCE		0.000	-0.131	0.015	-0.203	0.000
OFFSETS		-5.341	-5.008	0.000	5.016	5.479

Total Volume at Station 0+380.00	
Cut Vol	2.85
Fill Vol	16.94

General Notes

Keys

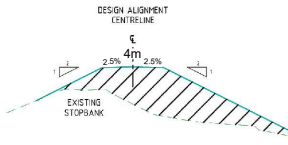


Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by :	CPS CREW	10/2025
Drawn by :	P.FLAUGERE	06/2026
Checked by :	D.FOOTE	06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)



Project Name and Address
WAIPAOA RIVER
TE KARAKA - TOWNSHIP
KANAKANAIA ROAD DESIGN
CROSS SECTIONS

Project WAIPAOA RIVER	Sheet 5
Date 08.06.2026	
Scale 1:500 @ A3	

Chainage 384.263
Datum: 35.000

PROPOSED LEVELS	39.315	39.231	39.701	39.231	39.397
EXISTING LEVELS	39.315	39.330	39.701	39.429	39.397
LEVEL DIFFERENCE	0.000	-0.099	0.000	-0.198	0.000
OFFSETS	-5.268	-5.100	0.000	5.100	5.433

Total Volume at Station 0+384.26	
Cut Vol	0.94
Fill Vol	1.61

Total Volume Table			
Station	Fill Area	Fill Volume	Cumulative Fill Vol
0+000.00	0.51	0.00	0.00
0+020.00	1.21	17.03	17.03
0+040.00	4.93	60.67	77.70
0+060.00	10.84	156.70	234.40
0+080.00	15.91	267.47	501.87
0+100.00	17.96	338.67	840.54
0+120.00	22.42	403.79	1244.33
0+140.00	28.98	514.03	1758.37
0+160.00	39.58	685.61	2443.98
0+180.00	49.85	894.30	3338.27
0+200.00	48.00	978.49	4316.76
0+220.00	34.50	825.02	5141.78
0+240.00	25.20	597.09	5738.86
0+260.00	14.58	397.86	6136.72
0+280.00	7.73	223.13	6359.85
0+300.00	3.86	115.91	6475.76
0+320.00	3.10	69.58	6545.34
0+340.00	2.20	53.01	6598.35
0+360.00	1.28	34.82	6633.16
0+380.00	0.42	16.94	6650.10
0+384.26	0.34	1.61	6651.71

General Notes

Keys

Top

Bottom

Banks

Boundary lines

Fence lines

Gates

Culverts

Proposed design

Existing ground

Design footprint

TEKA 1000

Alignment / Chainage
Waipaoa river - Te Karaka

Coordinate System in term of : NZTM 2000
Vertical Datum in term of : NZVD 2016

CIVIL PROJECT SOLUTIONS

Surveyed by : CPS CREW10/2025

Drawn by : P.FLAUGERE06/2026

Checked by : D.FOOTE06/2026

TYPICAL CROSS SECTION
4m WIDE STOPBANK (TOP)

DESIGN ALIGNMENT
CENTRELINE

EXISTING
STOPBANK

Firm Name and Address

GISBORNE
DISTRICT COUNCIL

Te Kaunihera o Te Tairāwhiti

CPS

Civil Project Solutions

Project Name and Address

WAIPA OA RIVER
TE KARAKA - TOWNSHIP
KANAKANAIA ROAD DESIGN
CROSS SECTIONS

Project
WAIPA OA RIVER

Date
08.06.2026

Scale
1:500 @ A3

Sheet
6

XS - CL - Te Karaka Kanakanaia Road.dwg