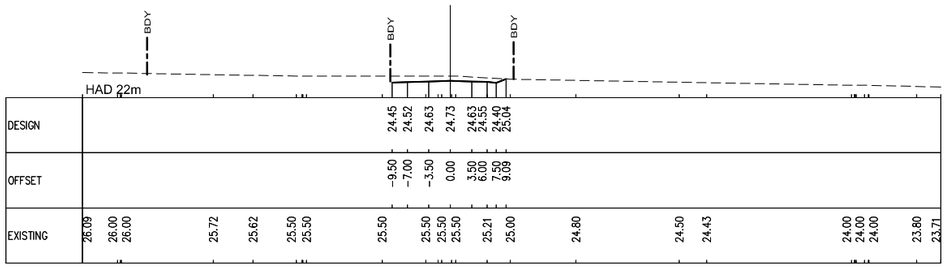
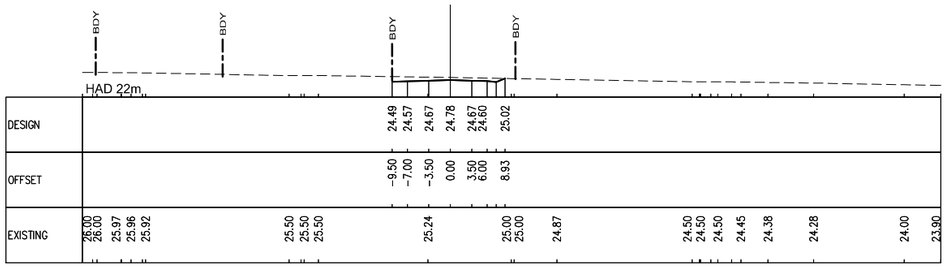
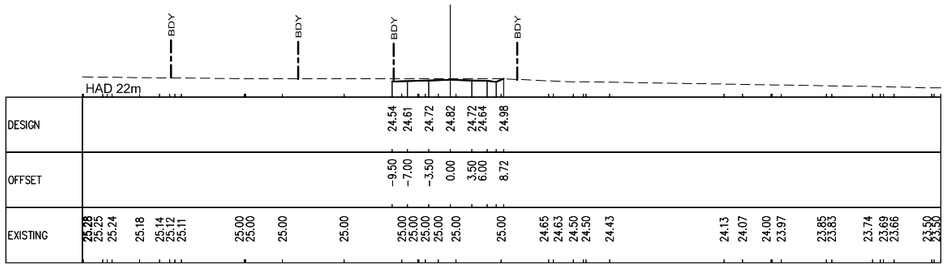


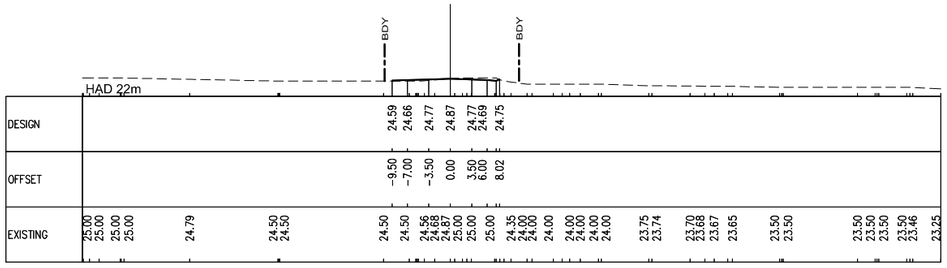
150m



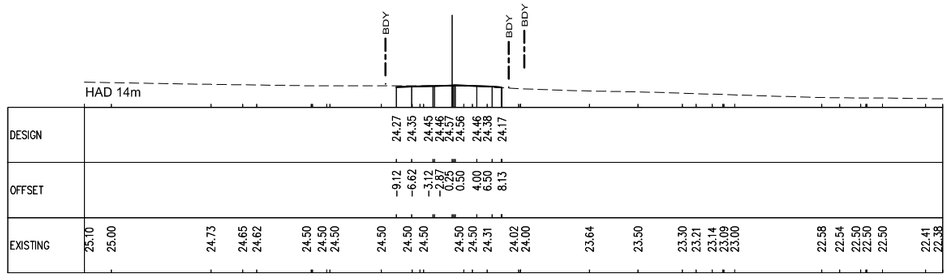
100m



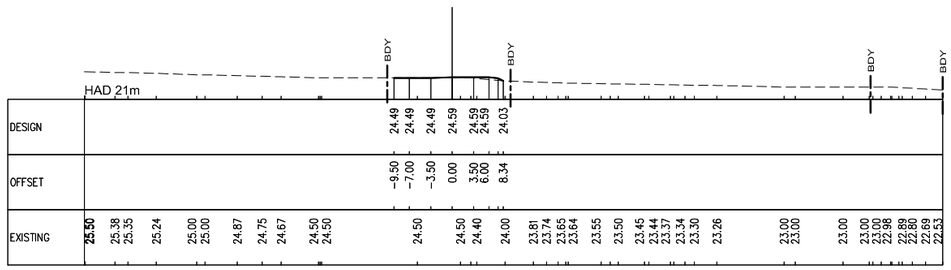
50m



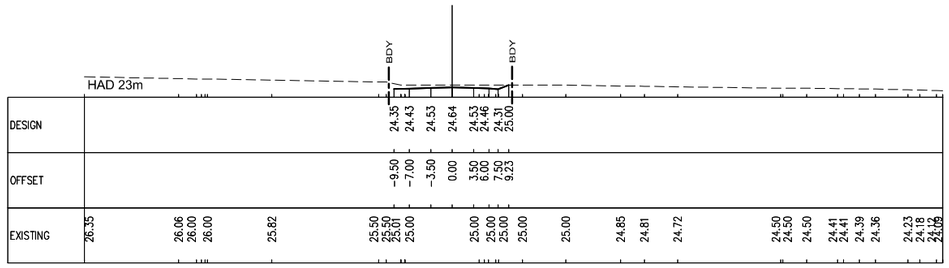
0m



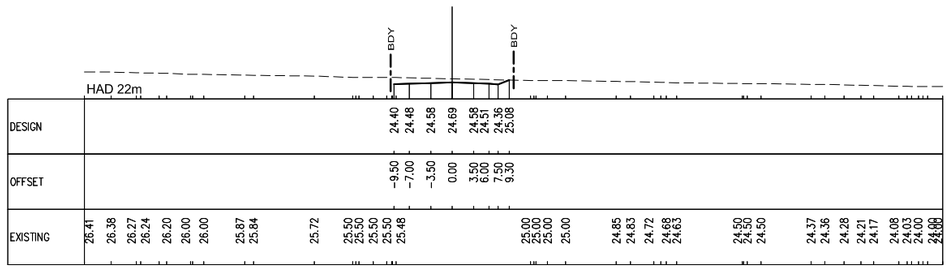
350m



300m



250m



200m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

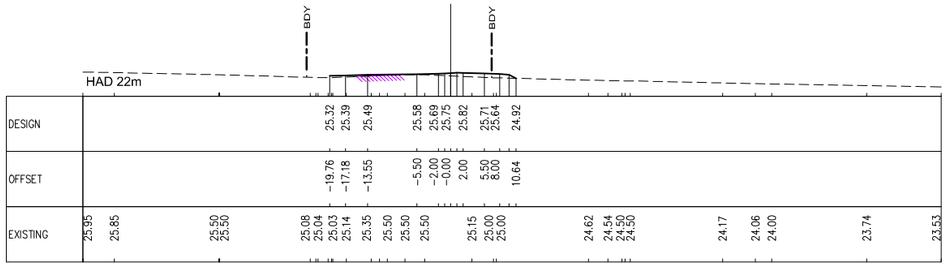
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

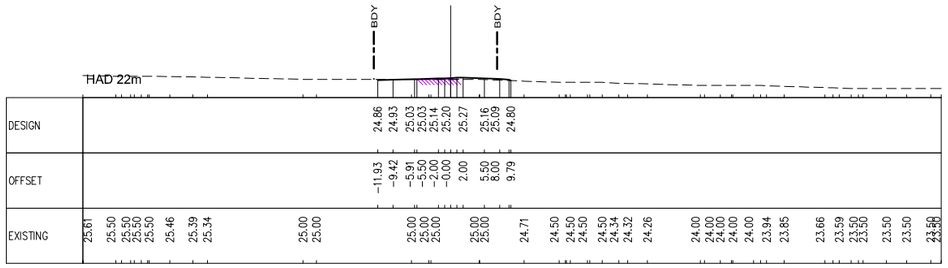
Sheet
Cross Sections
Chanage 0 to 350m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM30	R0

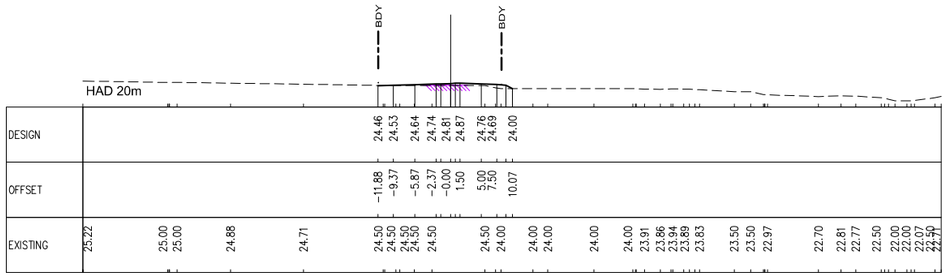
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



550m

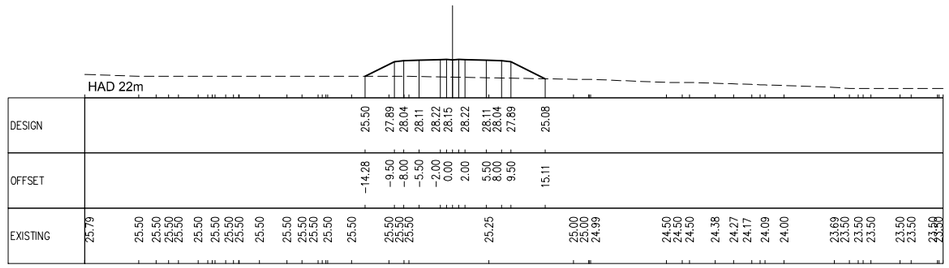


500m

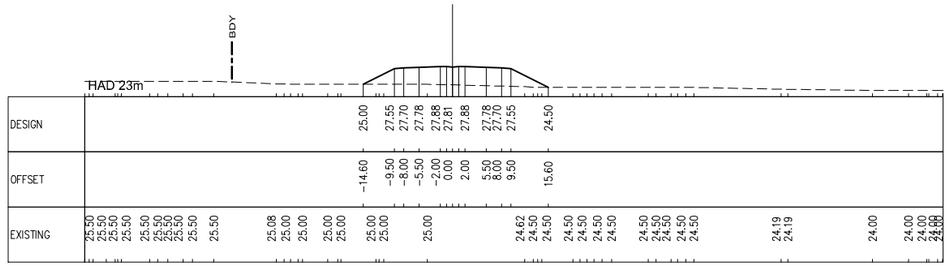


450m

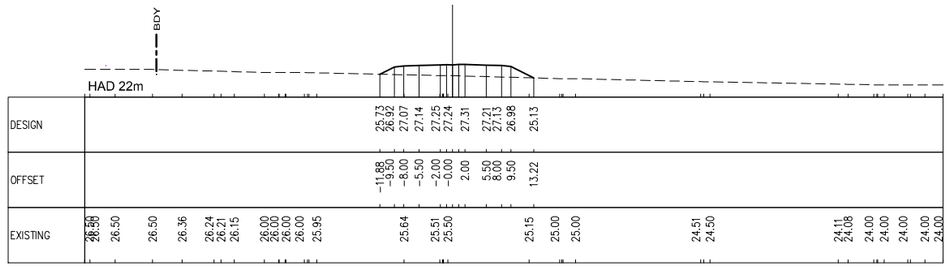
400m



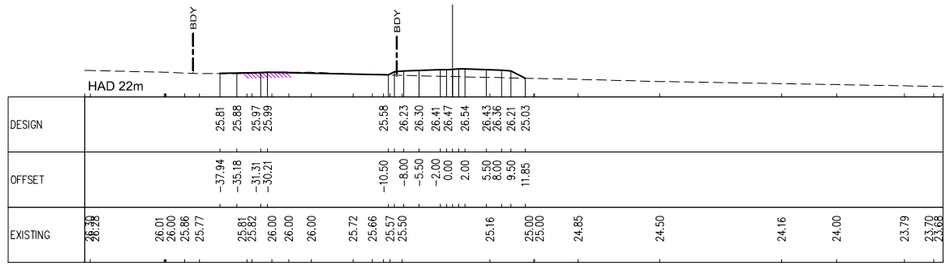
750m



700m



650m



600m

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

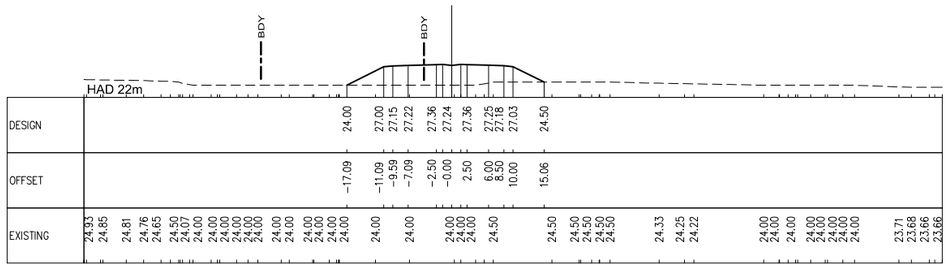
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

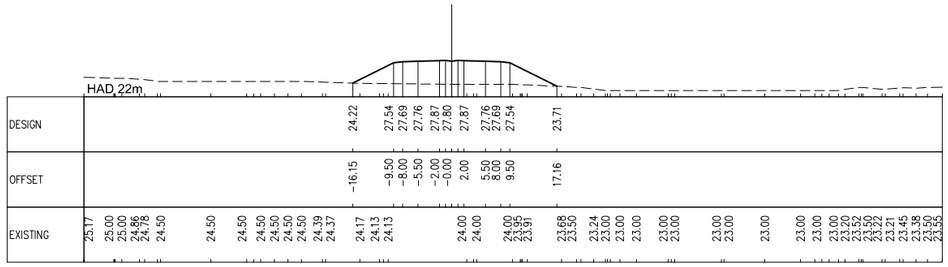
Sheet
Cross Sections
Chanage 400 to 750m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM31	R0

Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg

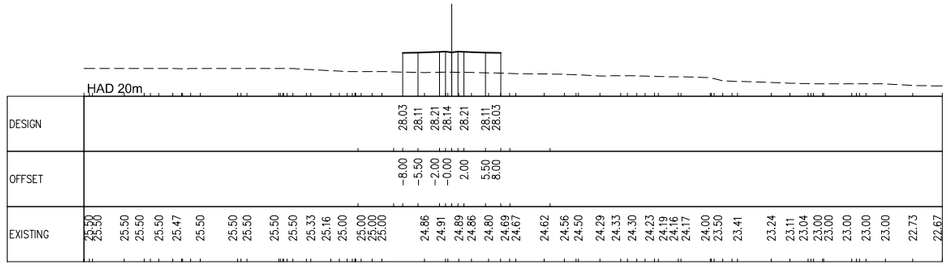


950m



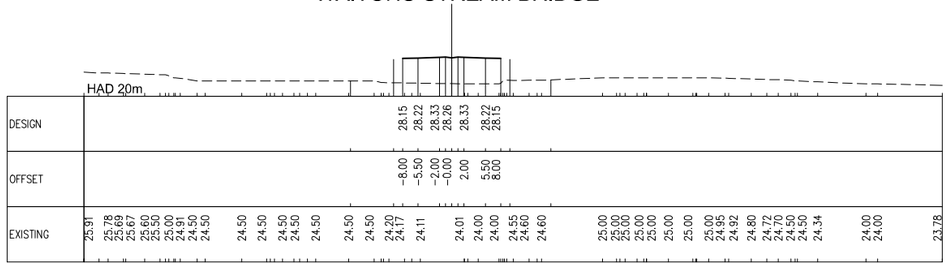
900m

WAITOHU STREAM BRIDGE

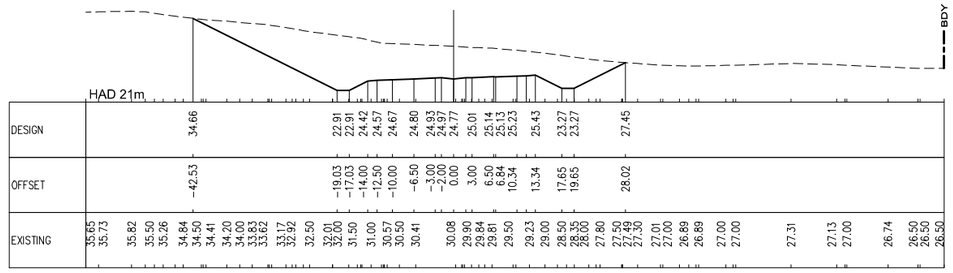


850m

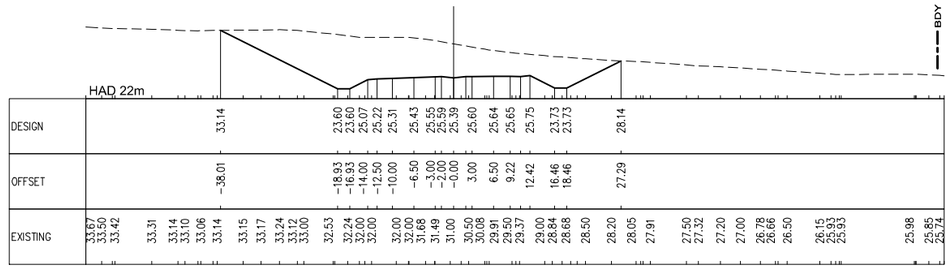
WAITOHU STREAM BRIDGE



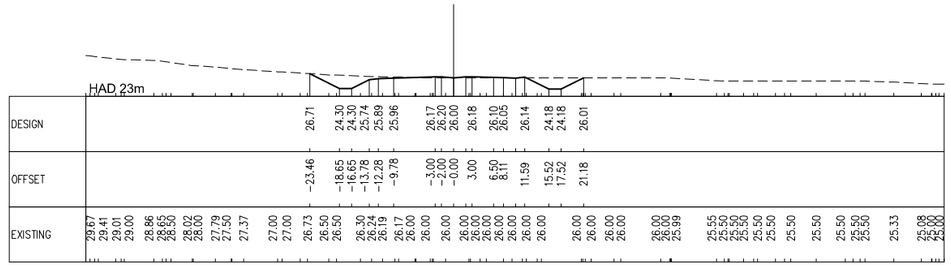
800m



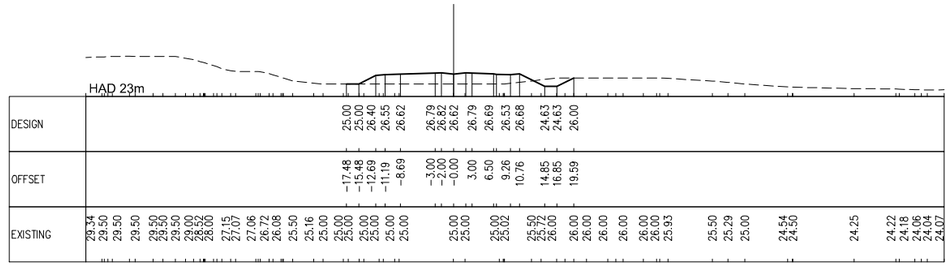
1150m



1100m



1050m



1000m

300 mm
200
100
50
10 mm
0

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

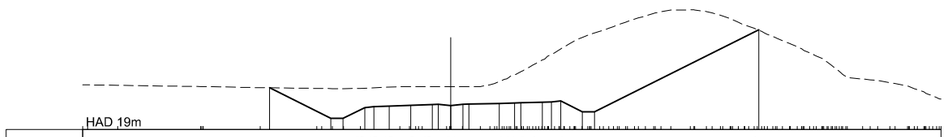
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

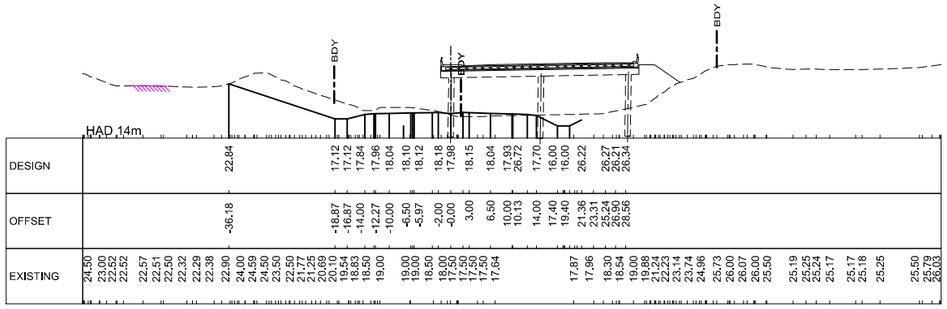
Sheet
Cross Sections
Chanage 800 to 1150m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM32	R0

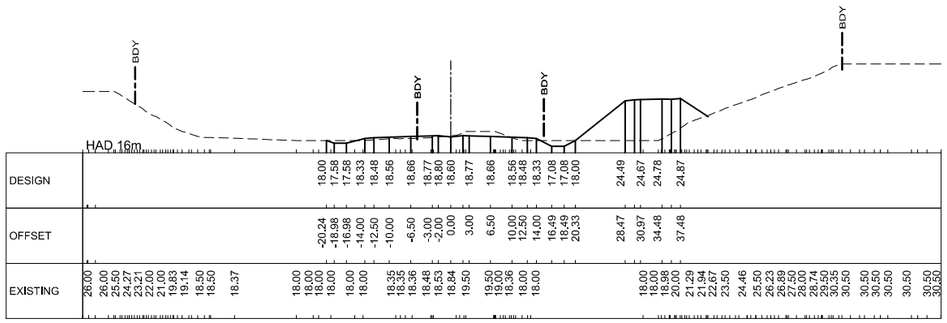
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg


HAD 19m

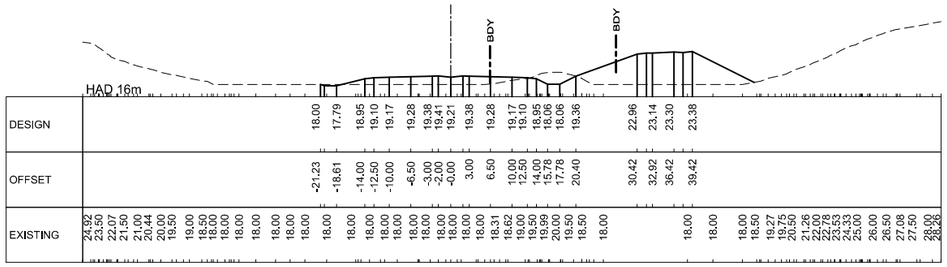
| | | |



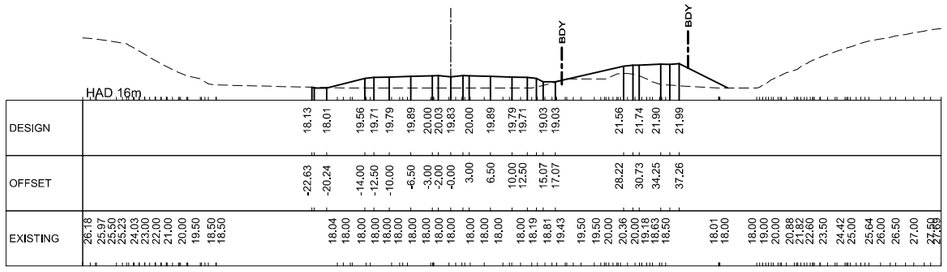
1700m



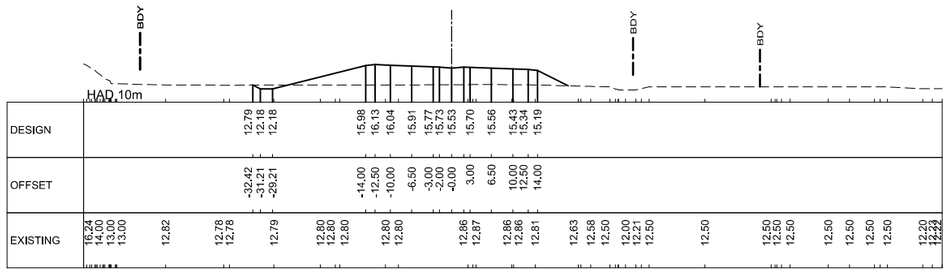
1650m



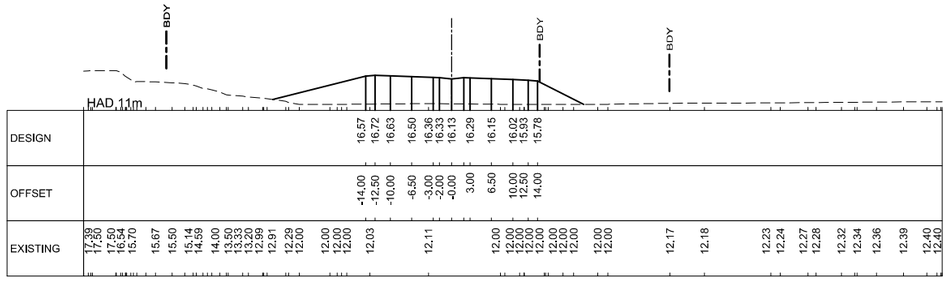
1600m



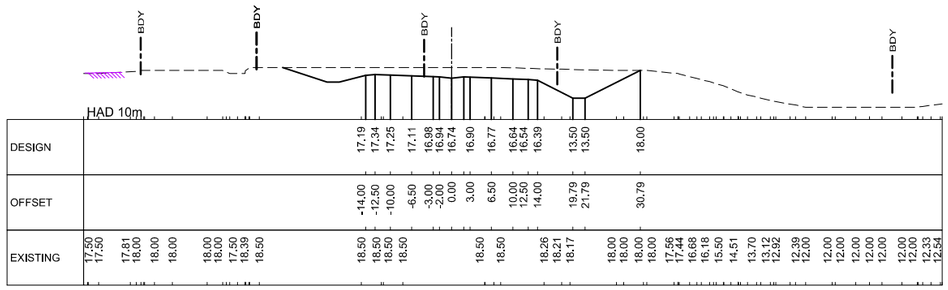
1550m



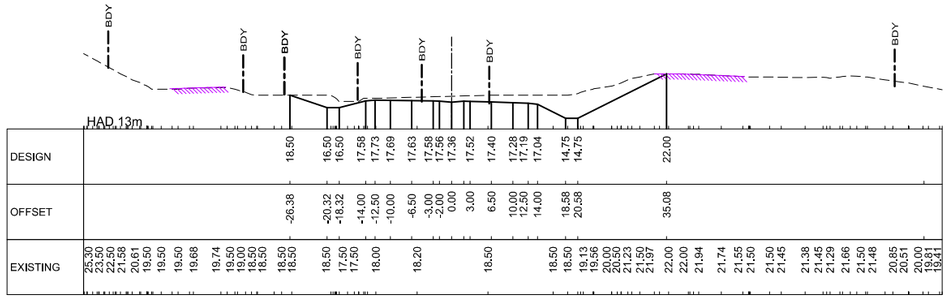
1900m



1850m



1800m



1750m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

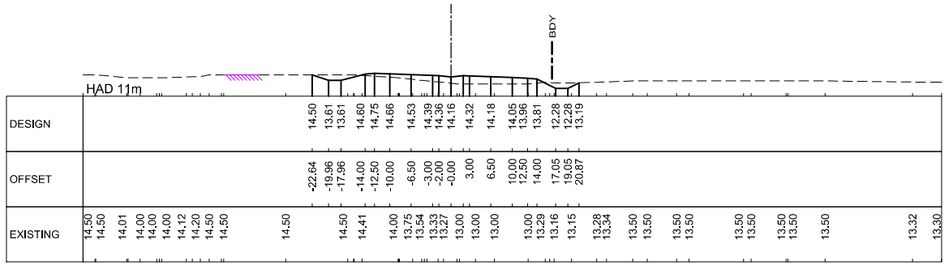
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

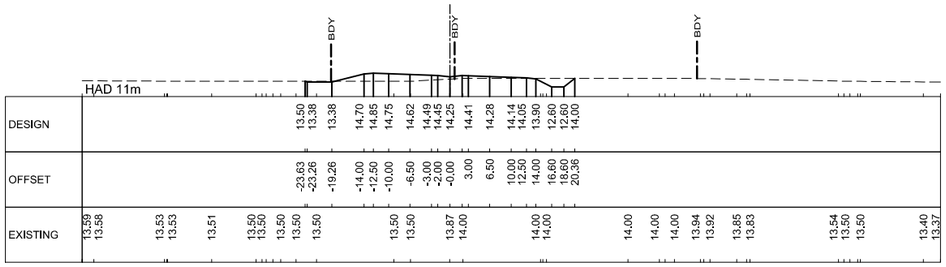
Sheet
Cross Sections
Chanage 1550 to 1900m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM34	R0

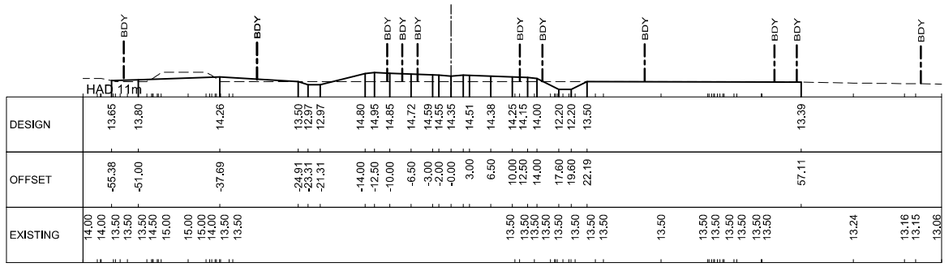
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



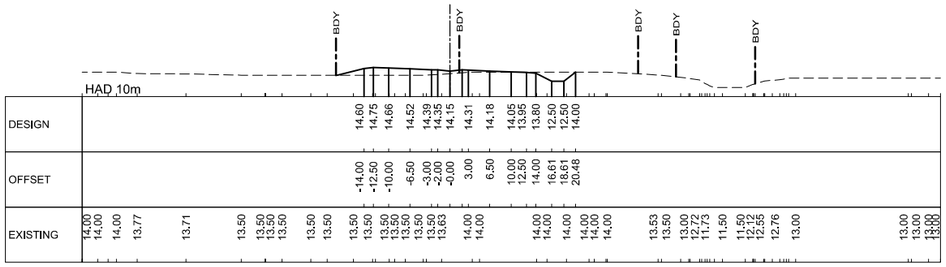
2100m



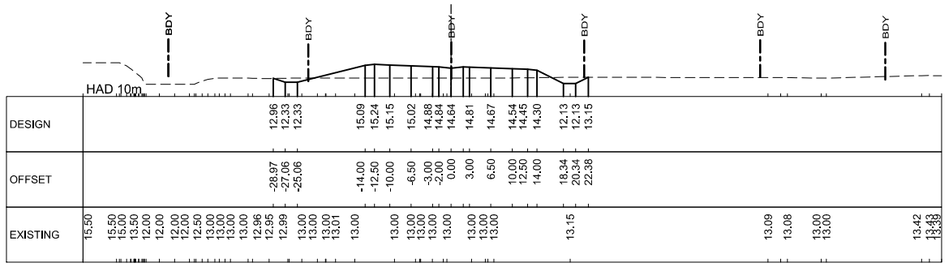
2300m



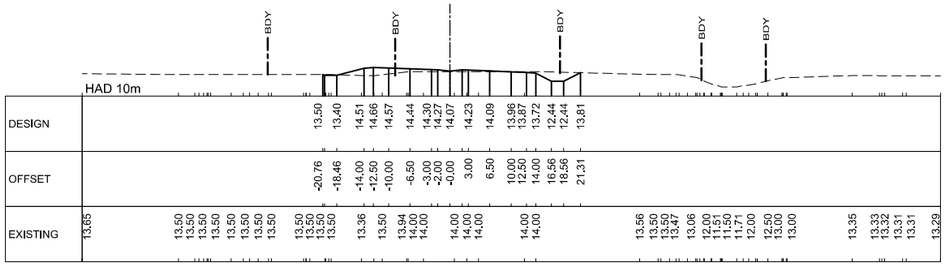
2050m



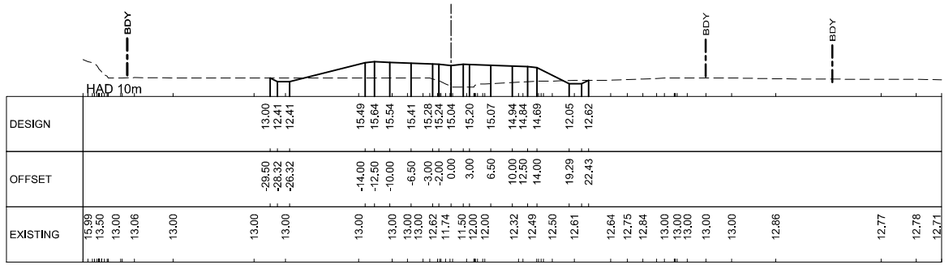
2250m



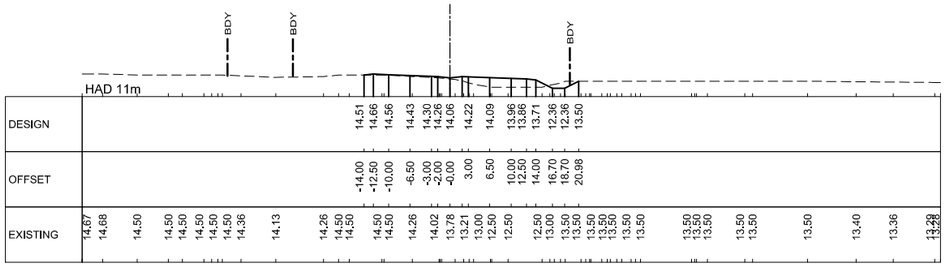
2000m



2200m



1950m



2150m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

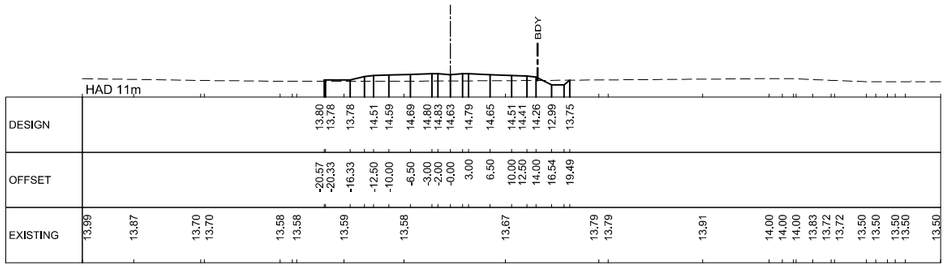
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

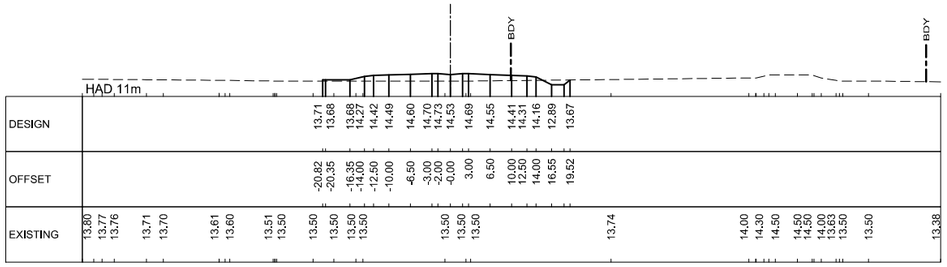
Sheet
Cross Sections
Chanage 1950 to 2300m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM35	R0

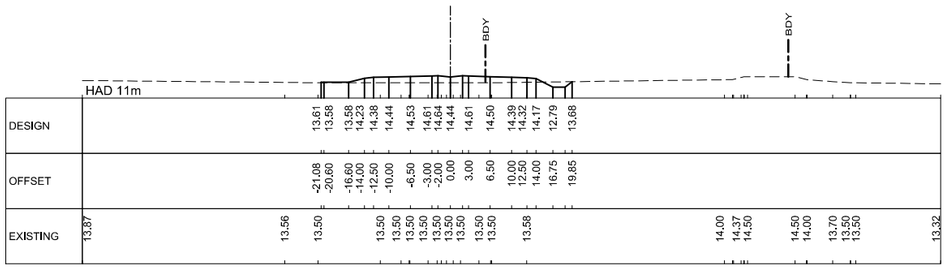
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



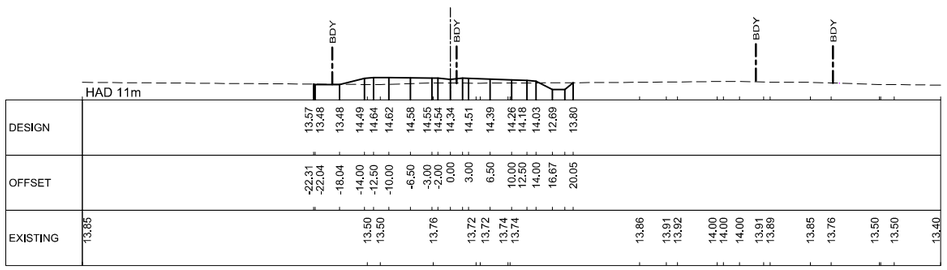
2500m



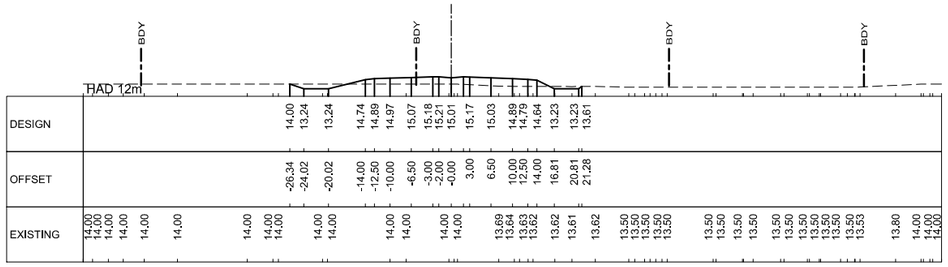
2450m



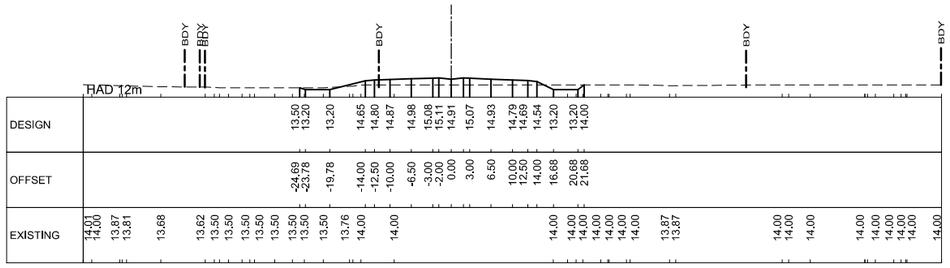
2400m



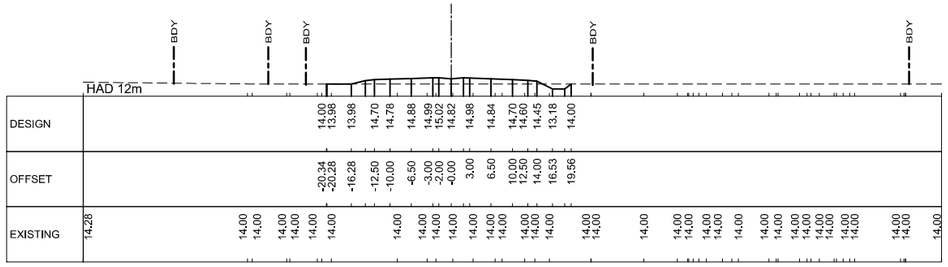
2350m



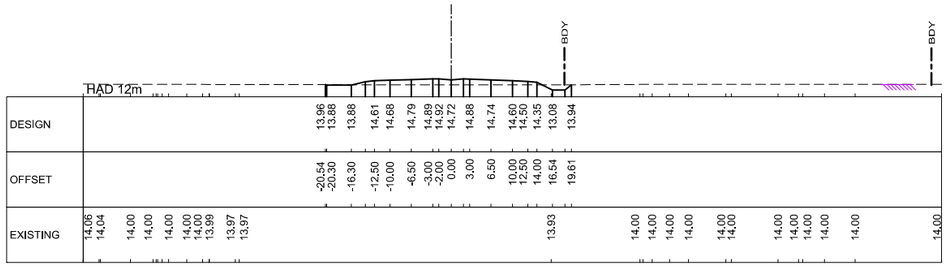
2700m



2650m



2600m



2550m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

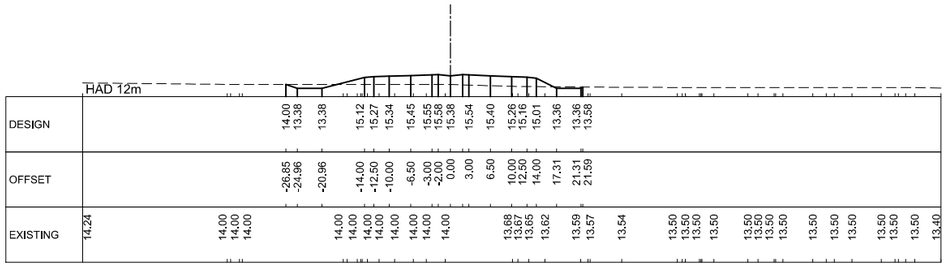
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

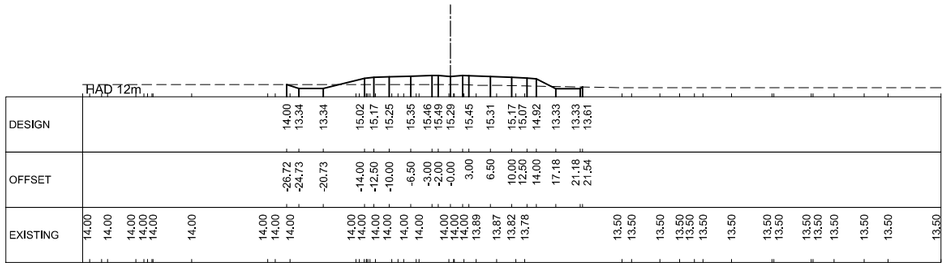
Sheet
Cross Sections
Chanage 2350 to 2700m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM36	R0

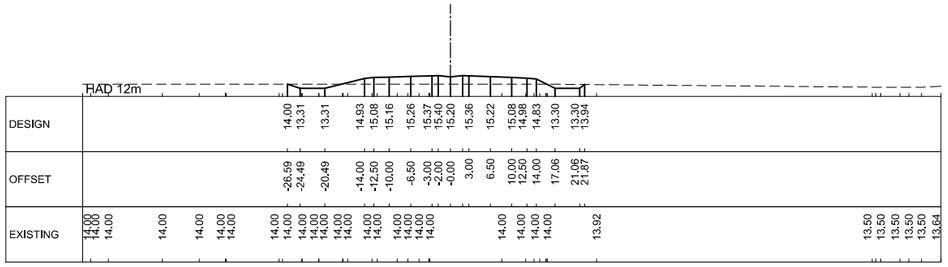
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



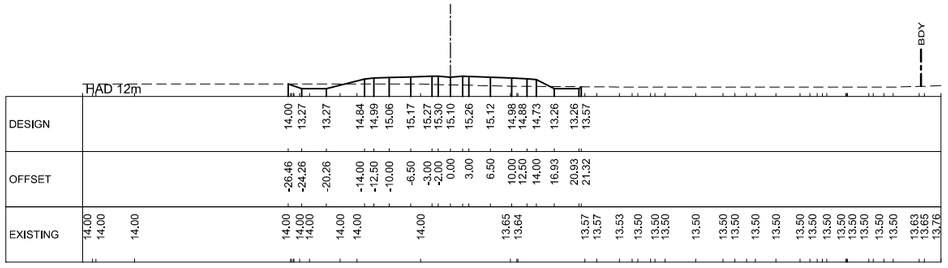
2900m



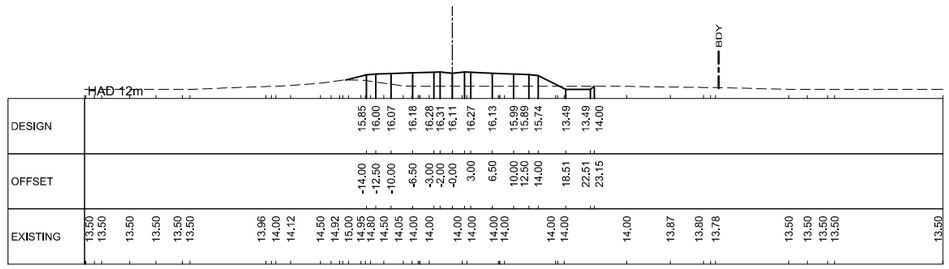
2850m



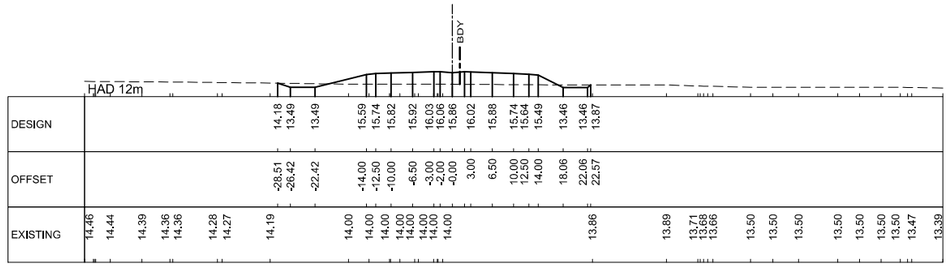
2800m



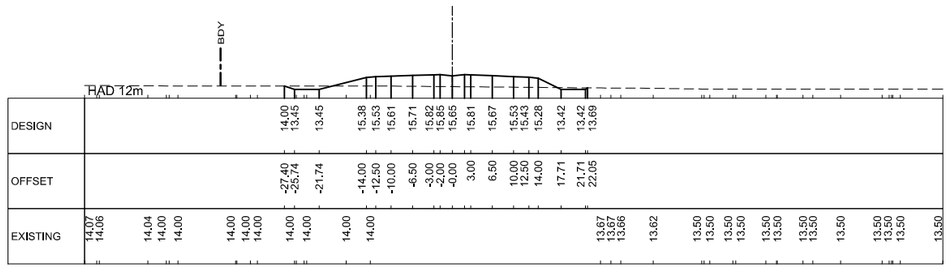
2750m



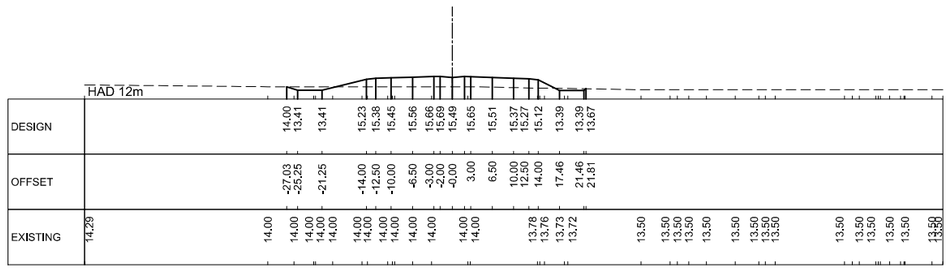
3100m



3050m



3000m



2950m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

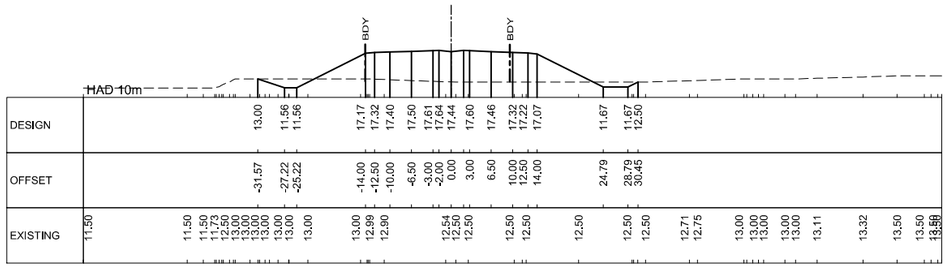
Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

Sheet
Cross Sections
Chanage 2750 to 3100m

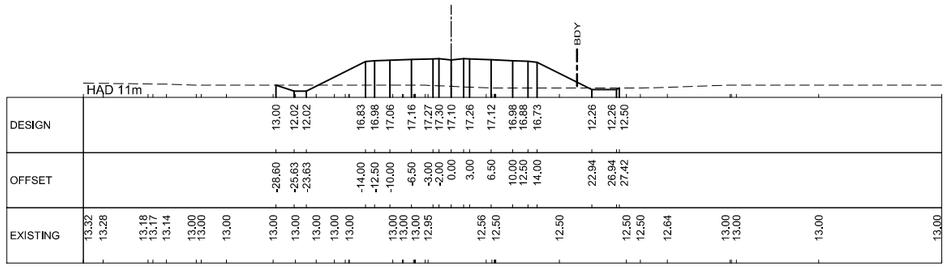
Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM37	R0

Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg

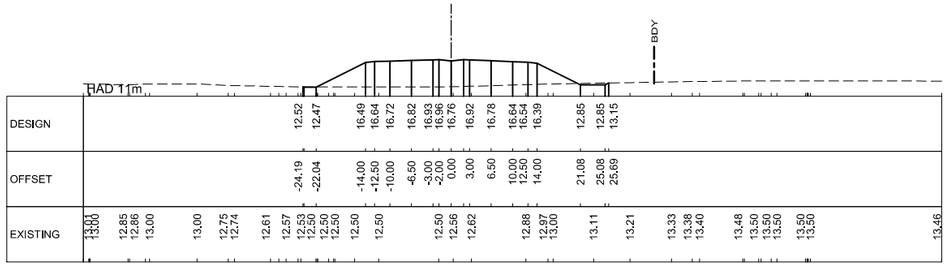
OTAKI RIVER BRIDGE



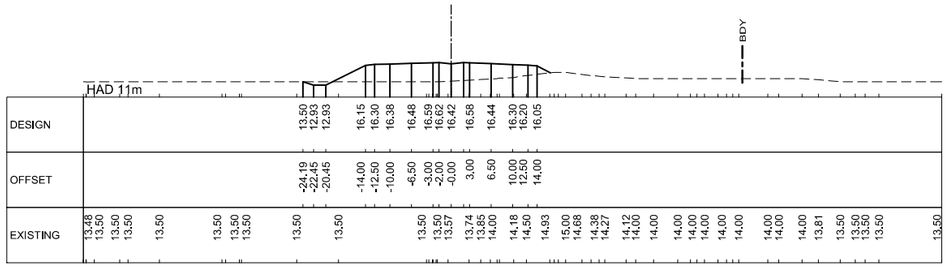
3300m



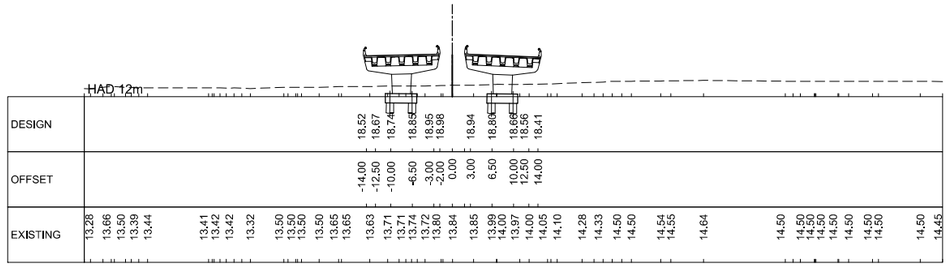
3250m



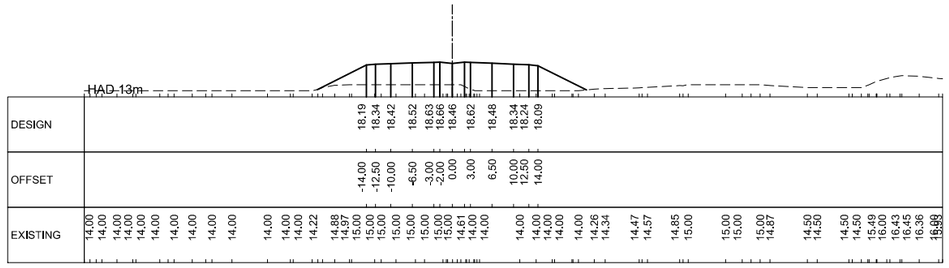
3200m



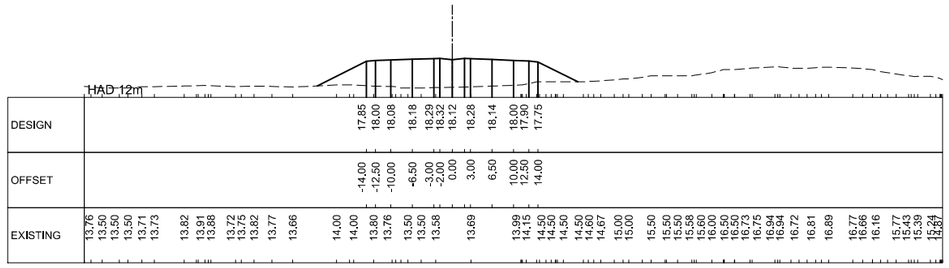
3150m



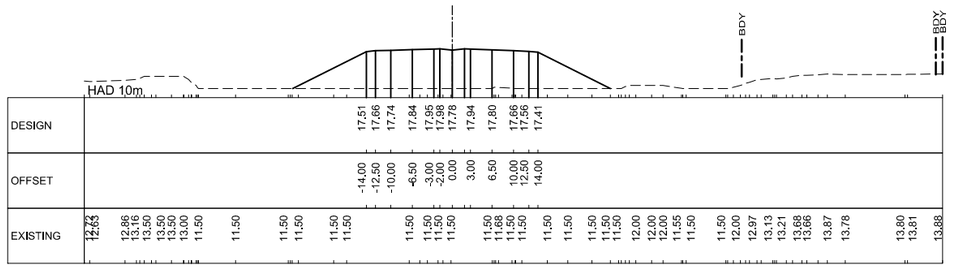
3500m



3450m



3400m



3350m

300 mm 200 100 50 10 mm 0

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS HolmesConsultingGroup

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

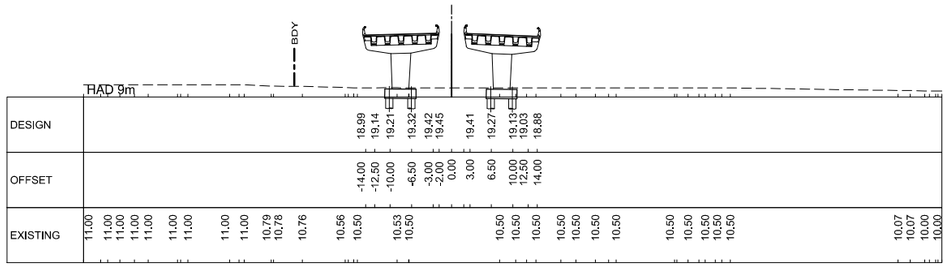
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

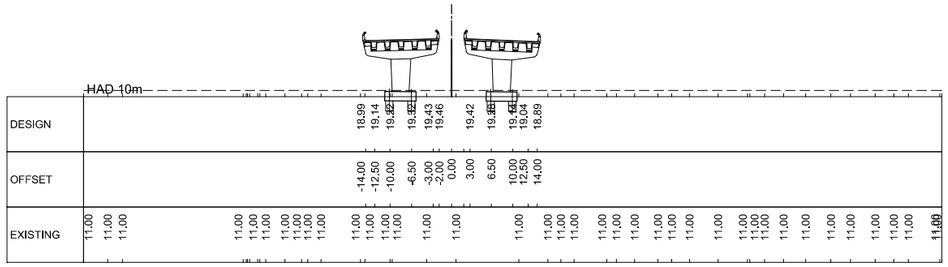
Sheet
Cross Sections
Chanage 3150 to 3500m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM38	R0

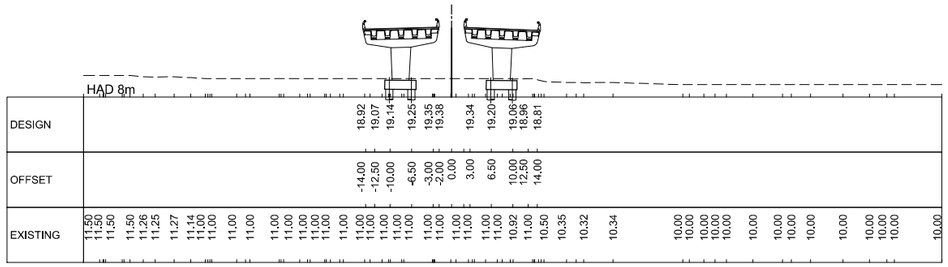
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



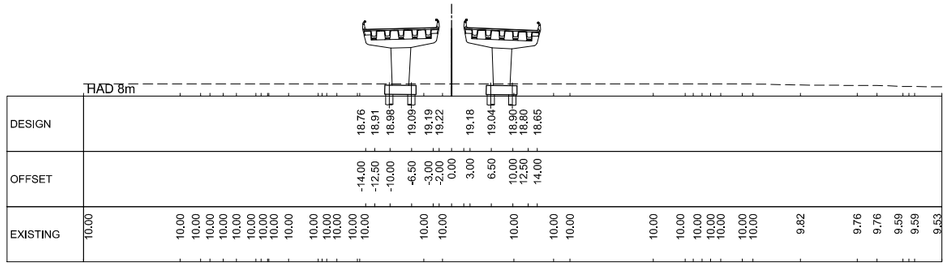
3700m



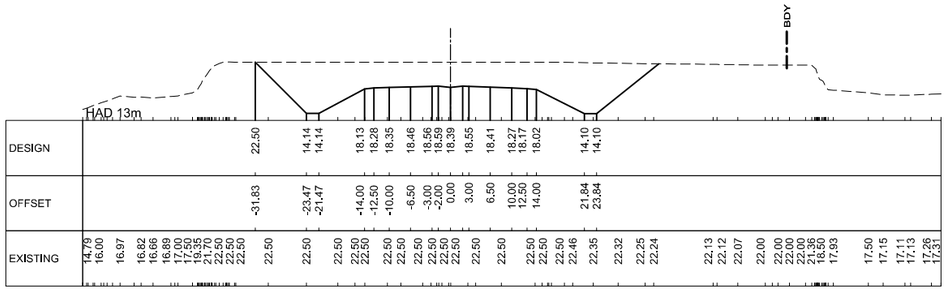
3650m



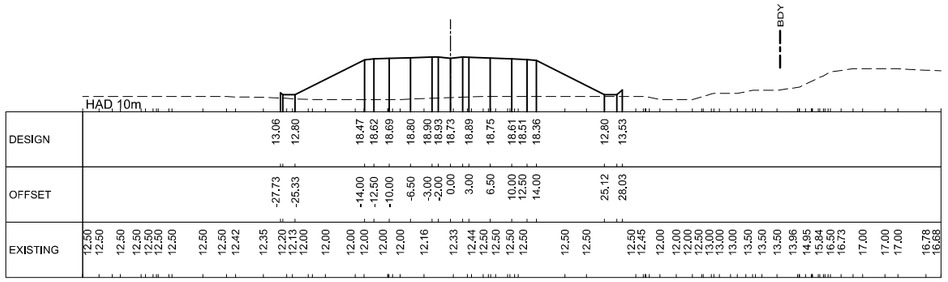
3600m



3550m

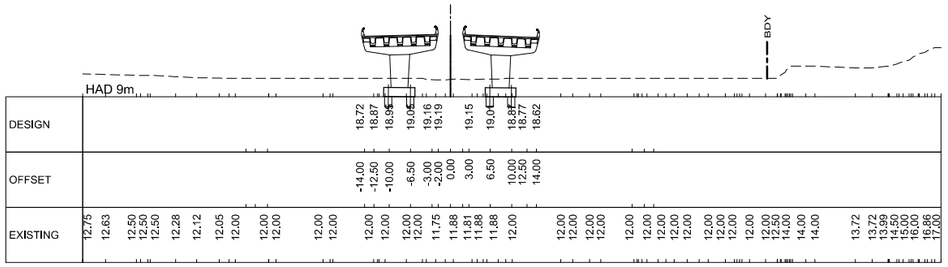


3900m

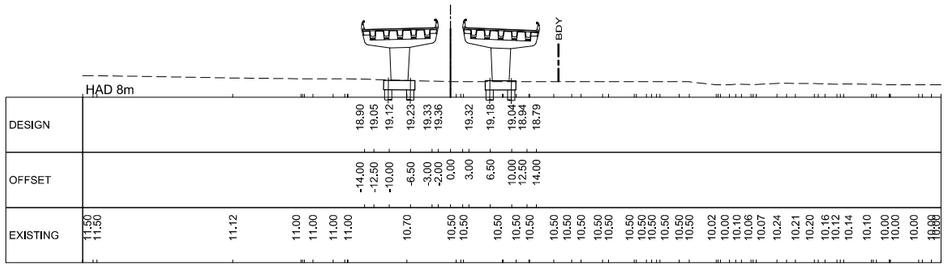


3850m

OTAKI RIVER BRIDGE



3800m



3750m

300 mm 200 100 50 10 mm 0

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

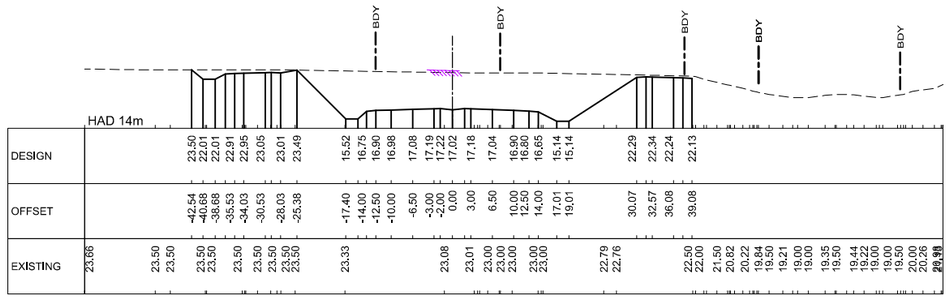
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

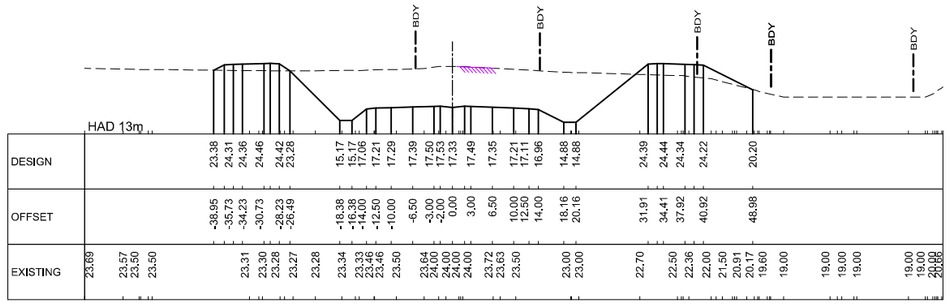
Sheet
Cross Sections
Chanage 3550 to 3900m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM39	R0

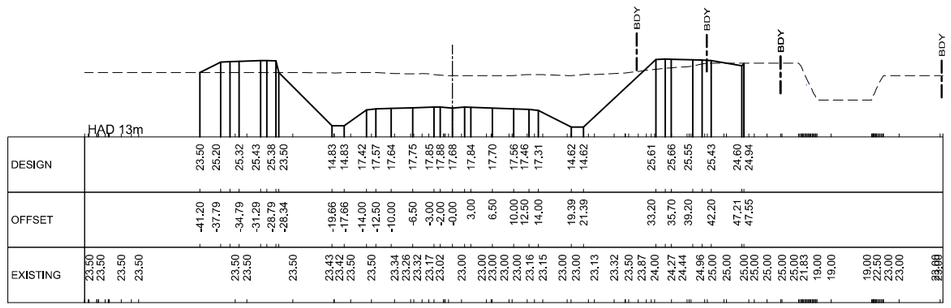
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



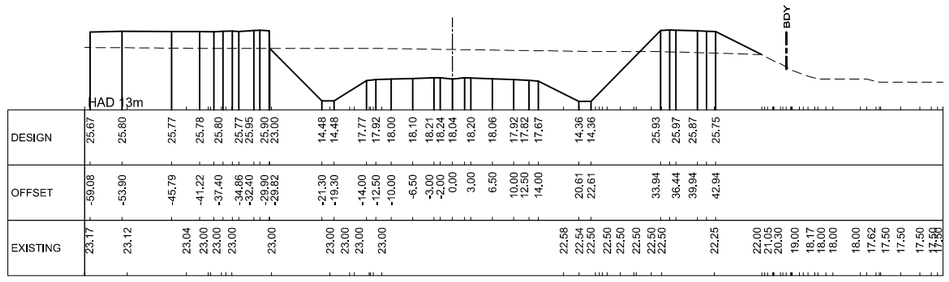
4100m



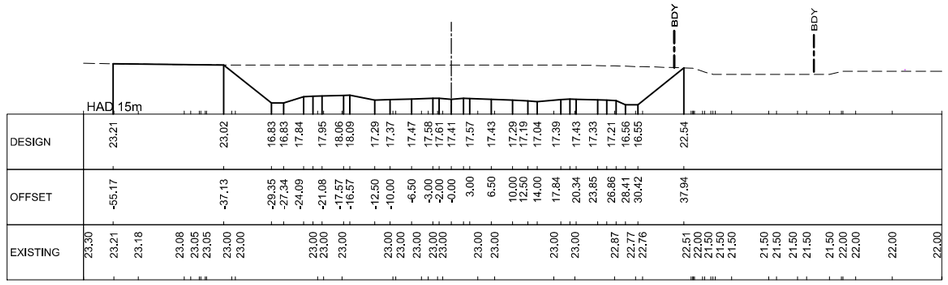
4050m



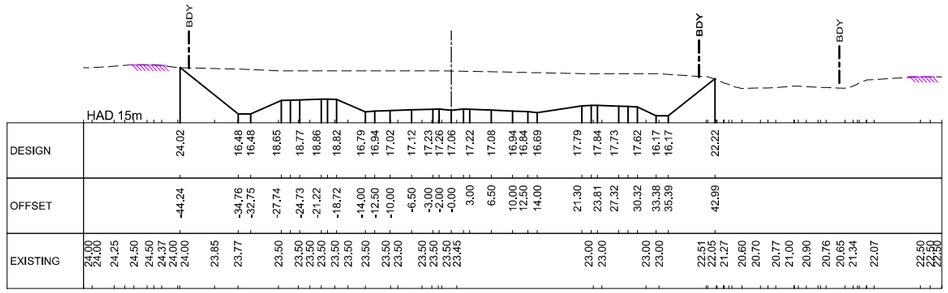
4000m



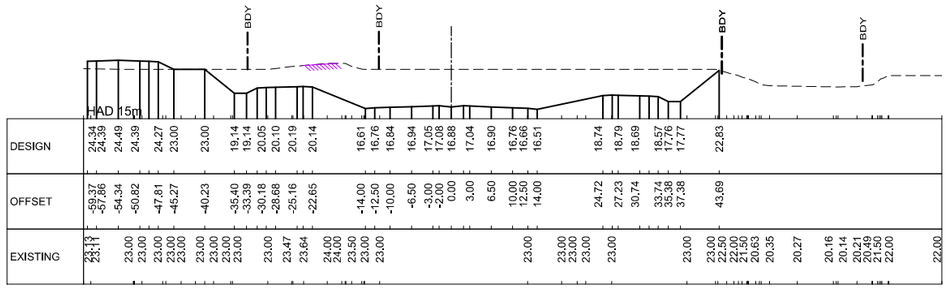
3950m



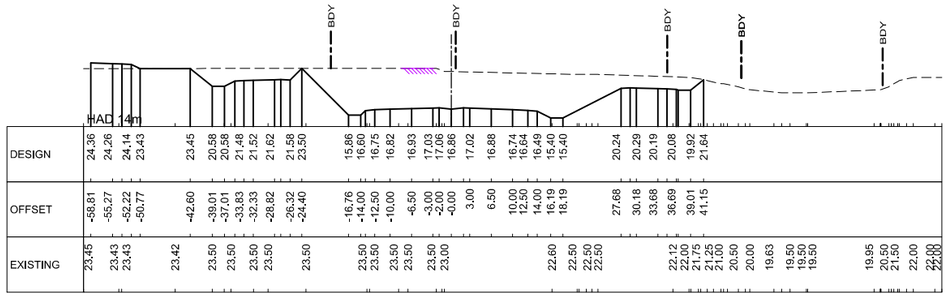
4300m



4250m



4200m



4150m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

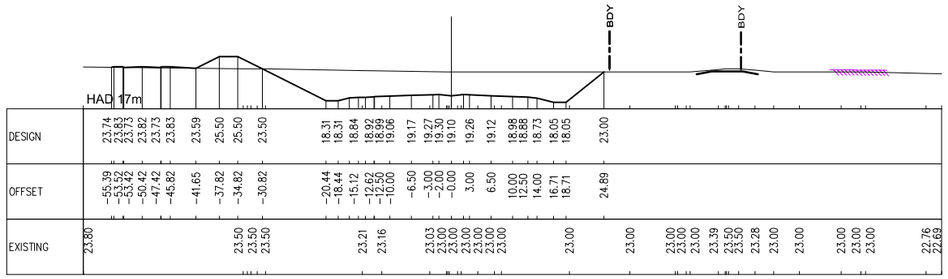
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

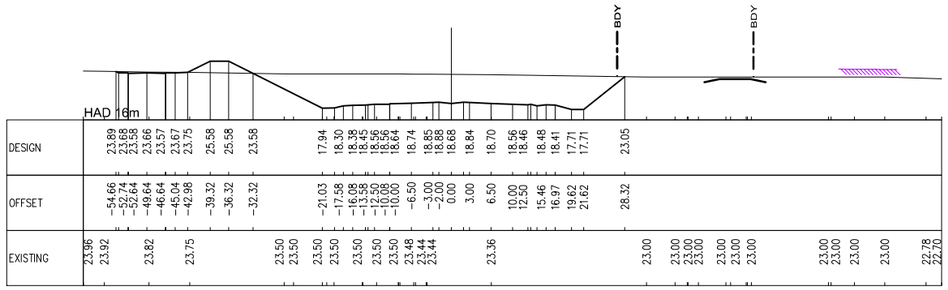
Sheet
Cross Sections
Chanage 3950 to 4300m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM40	R0

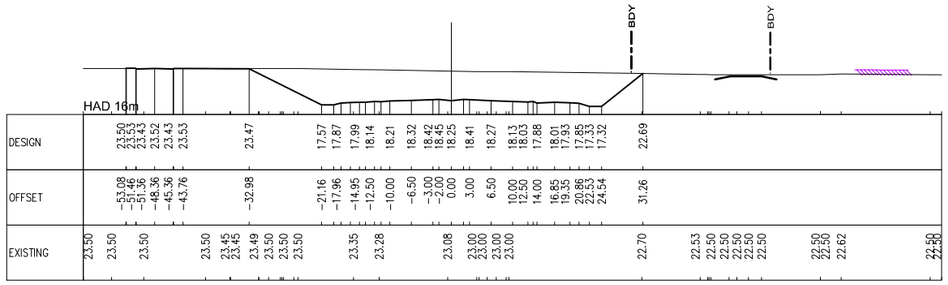
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



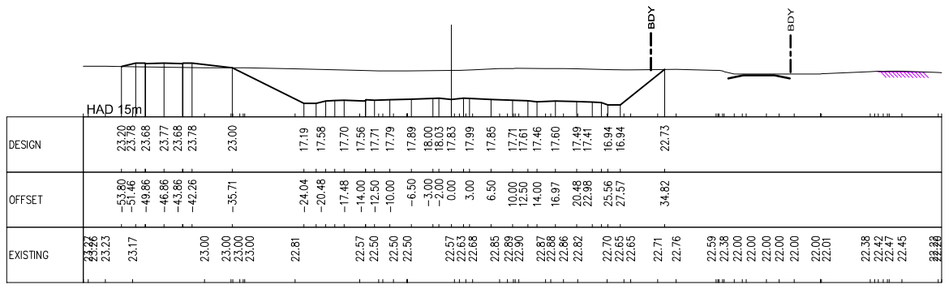
4500m



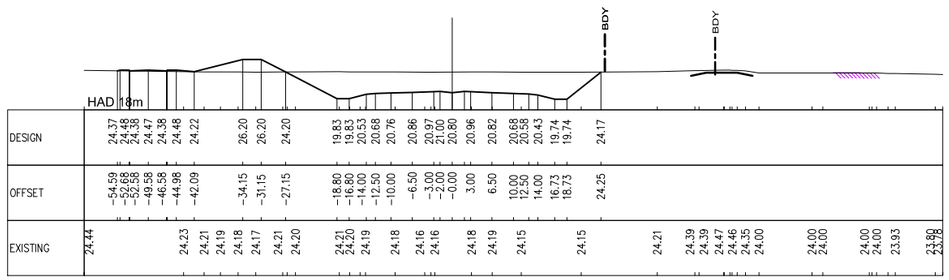
4450m



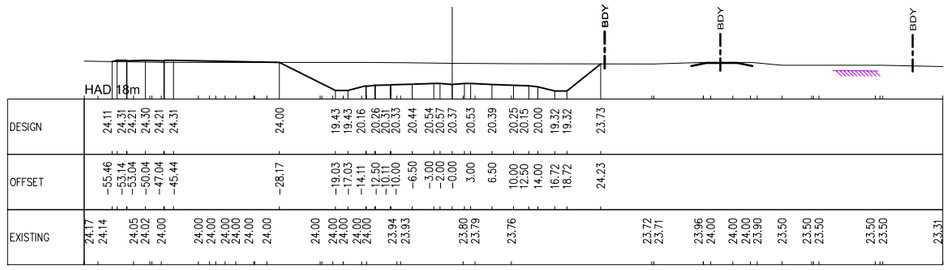
4400m



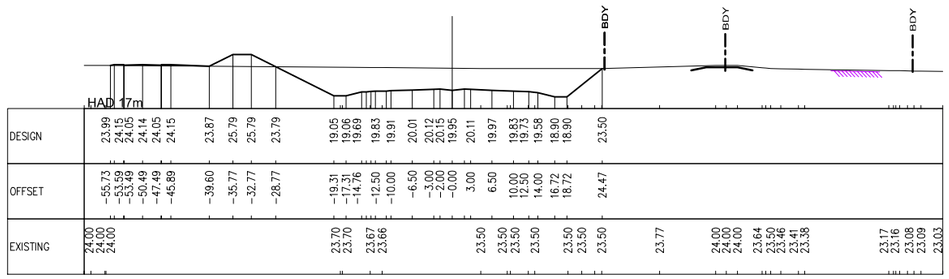
4350m



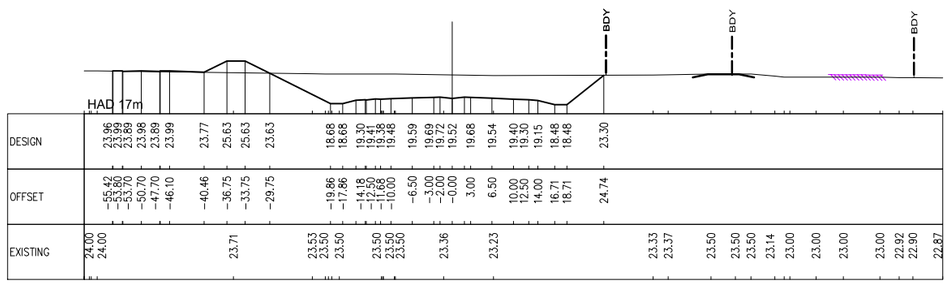
4700m



4650m



4600m



4550m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

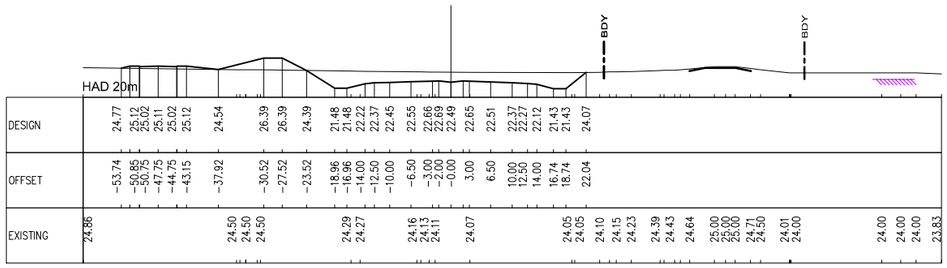
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

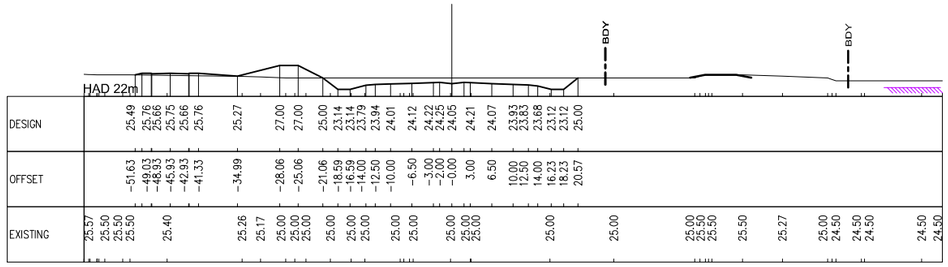
Sheet
Cross Sections
Chanage 4350 to 4700m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM41	R0

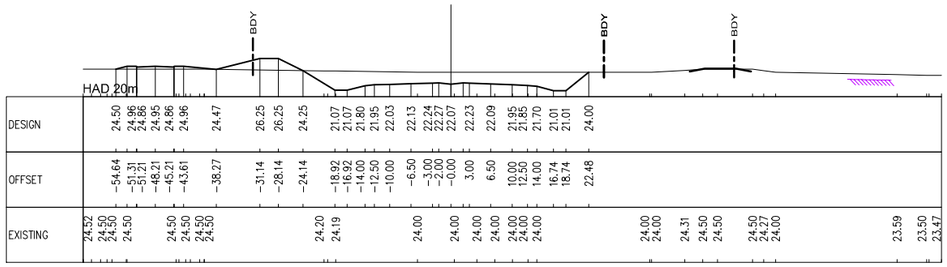
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



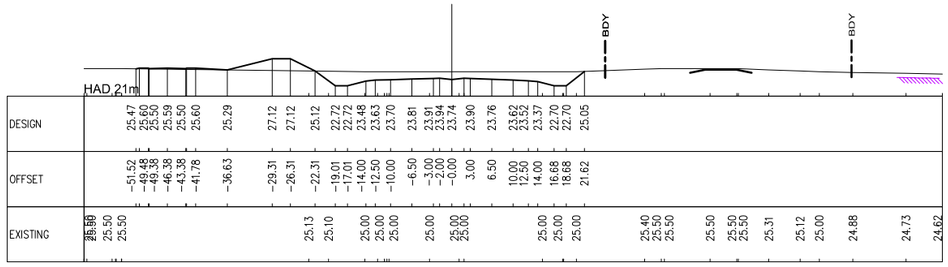
4900m



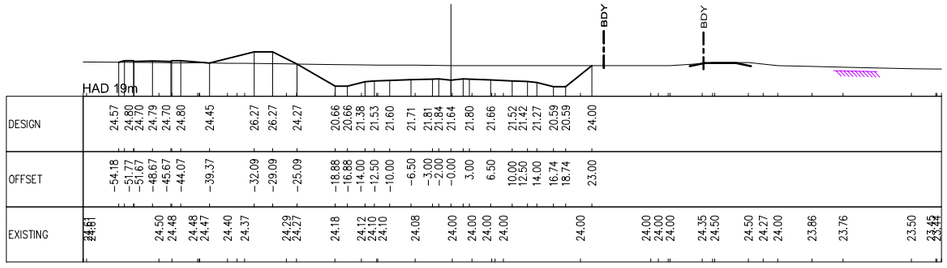
5100m



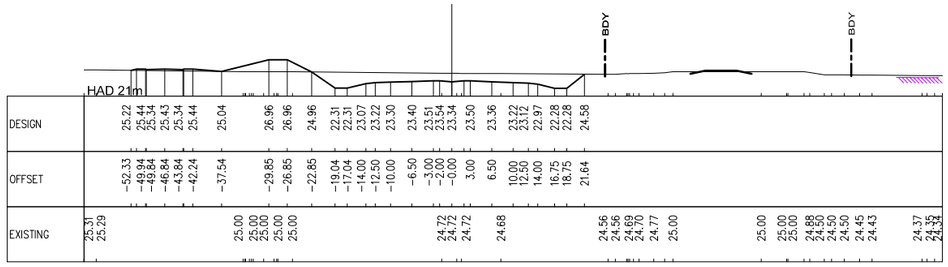
4850m



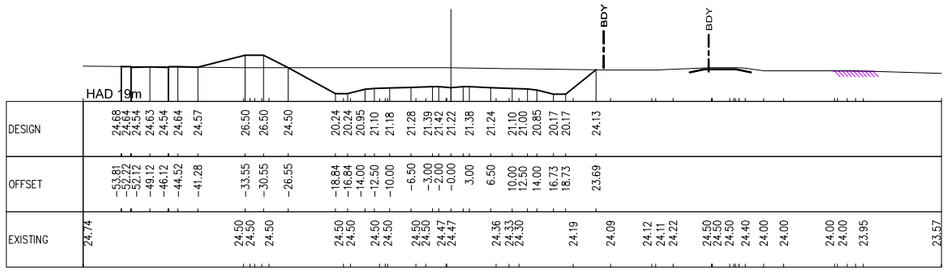
5050m



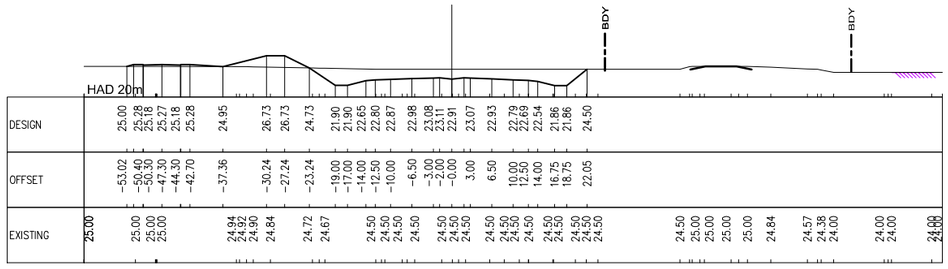
4800m



5000m



4750m



4950m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

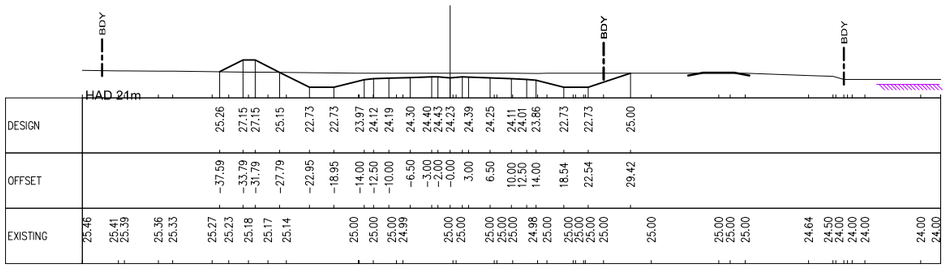
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

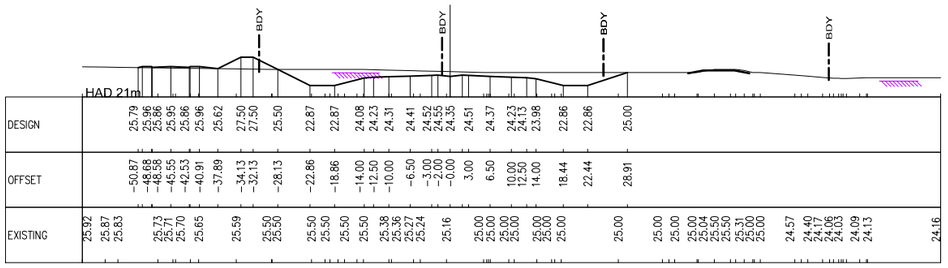
Sheet
Cross Sections
Chanage 4750 to 5100m

Drawing No.	Sheet No.	Revision
5/2664/1/6504	GM42	R0

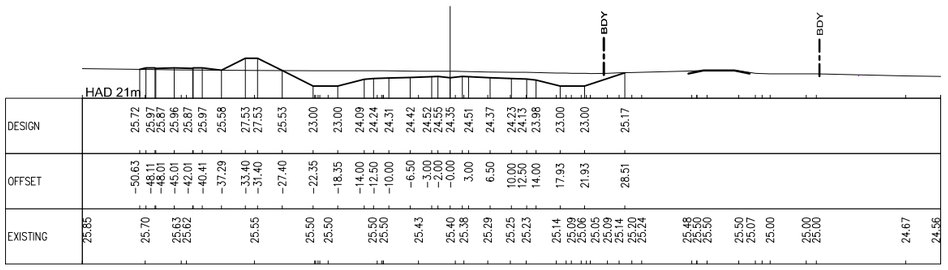
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



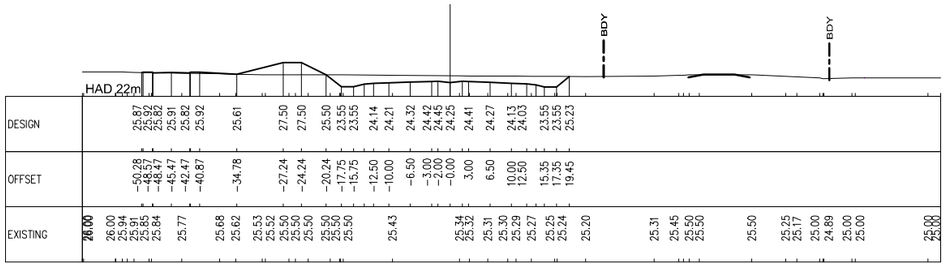
5300m



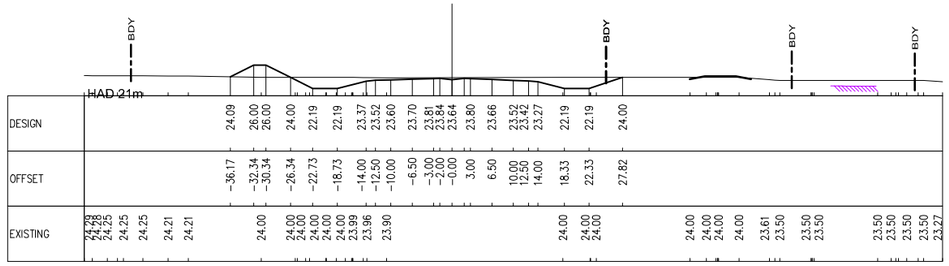
5250m



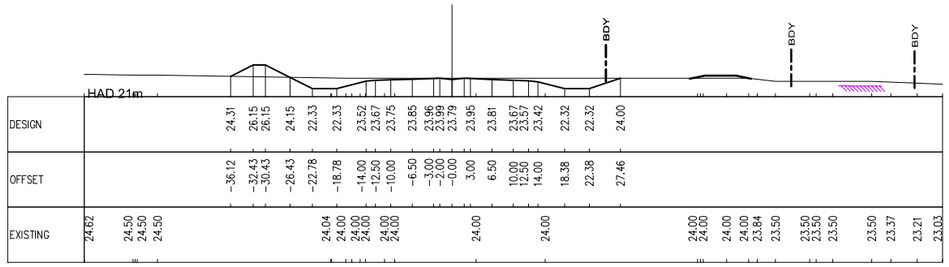
5200m



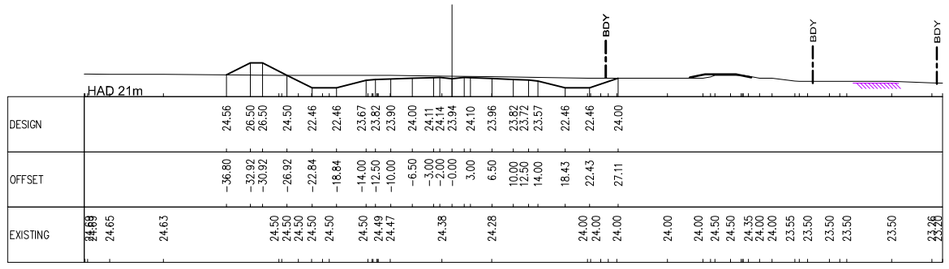
5150m



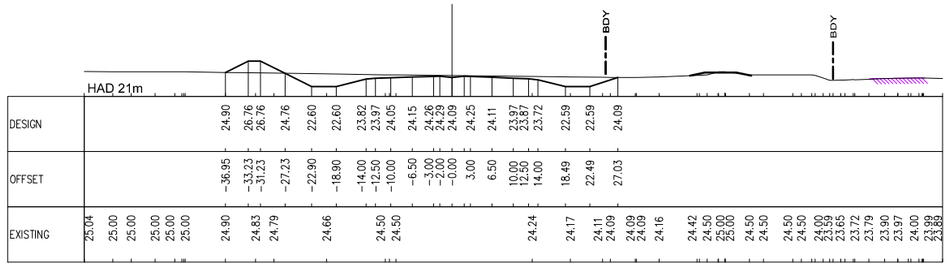
5500m



5450m



5400m



5350m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

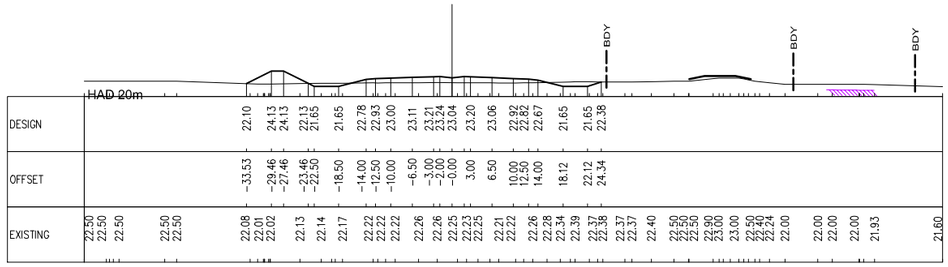
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

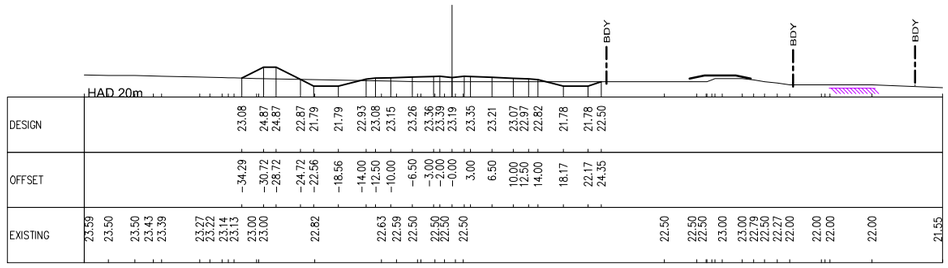
Sheet
Cross Sections
Chanage 5150 to 5500m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM43	R0

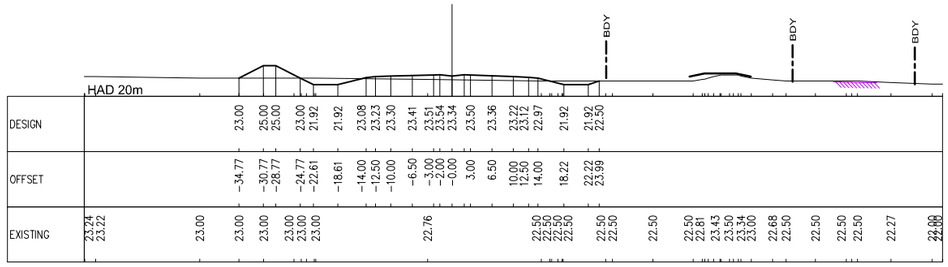
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



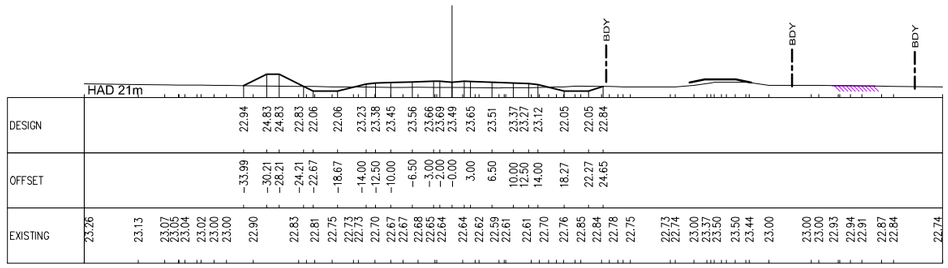
5700m



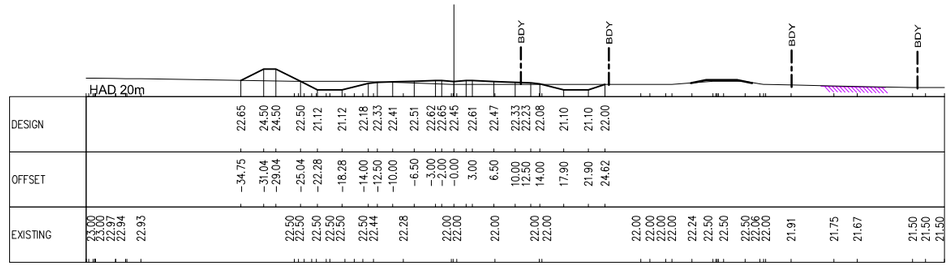
5650m



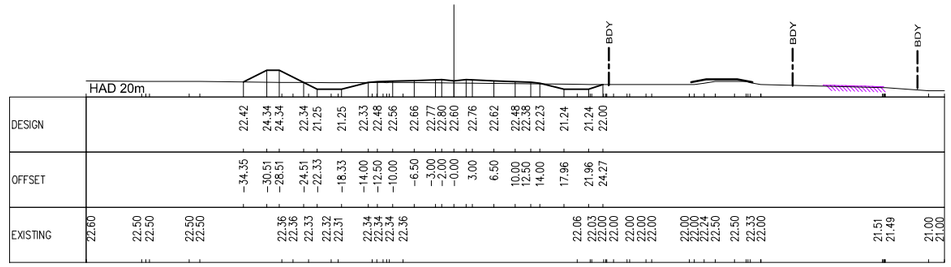
5600m



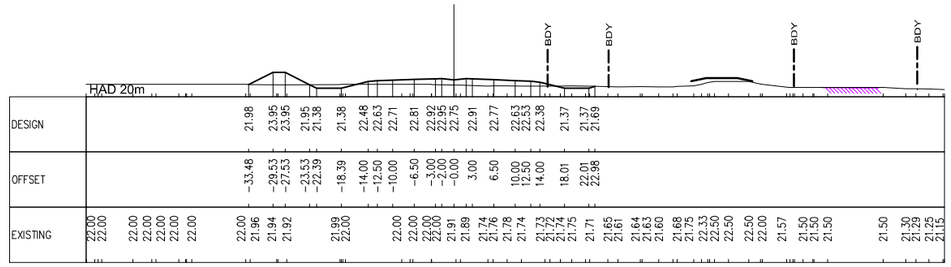
5550m



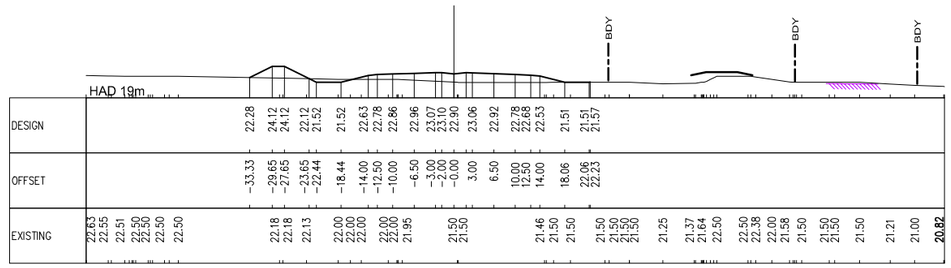
5900m



5850m



5800m



5750m

300 mm
200
100
50
0 10 mm

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

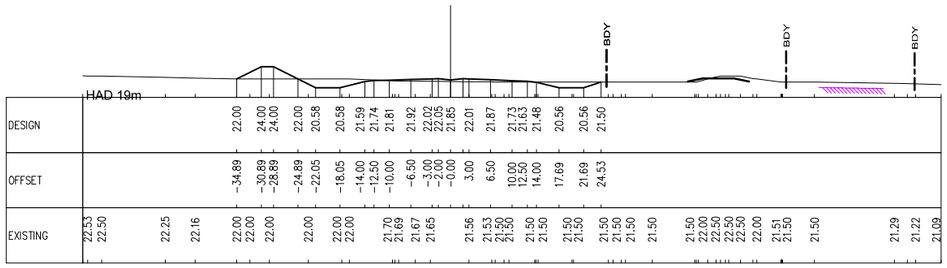
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

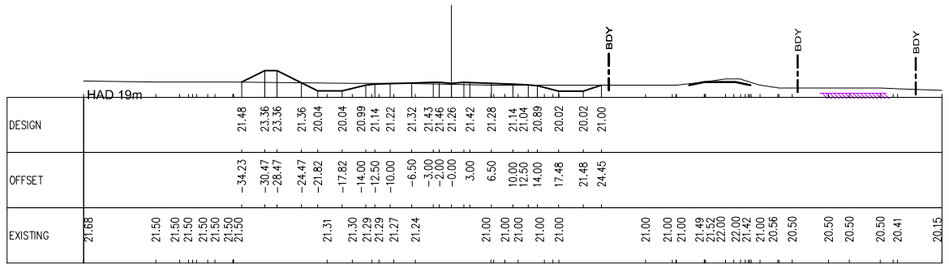
Sheet
Cross Sections
Chanage 5550 to 5900m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM44	R0

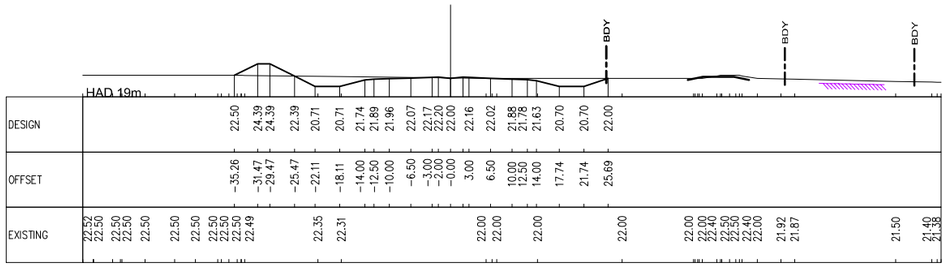
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



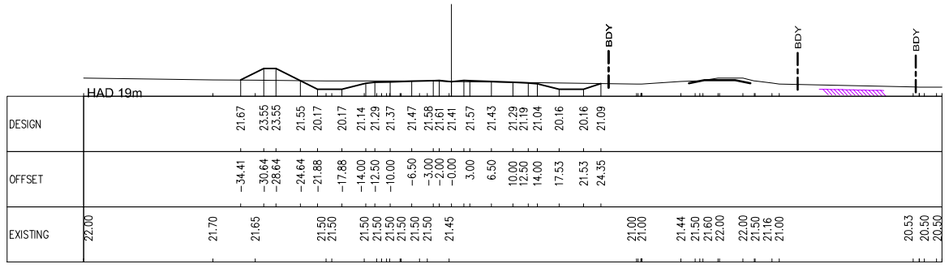
6100m



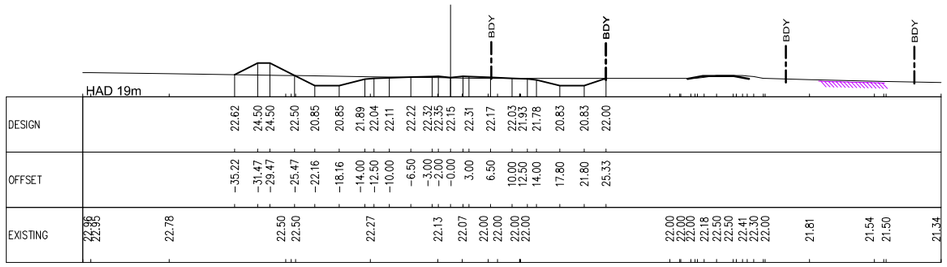
6300m



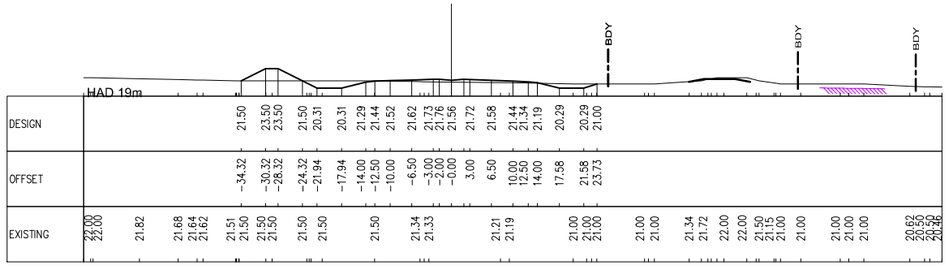
6050m



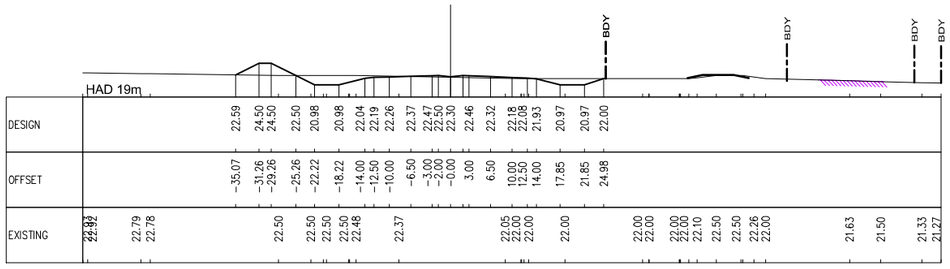
6250m



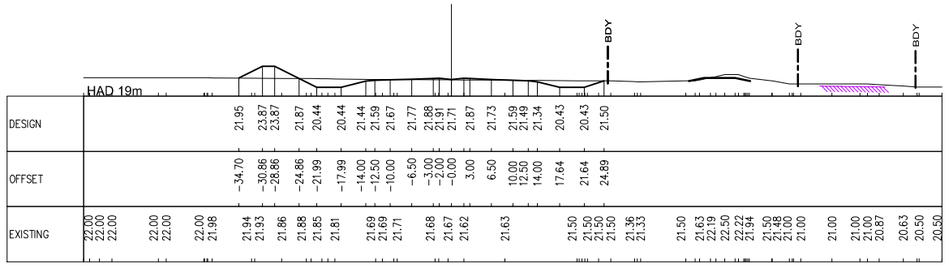
6000m



6200m



5950m



6150m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

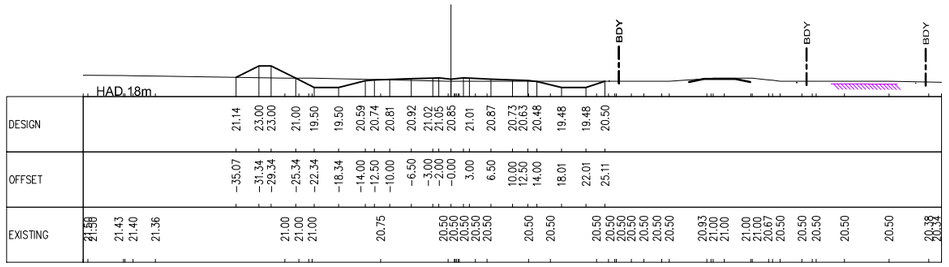
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

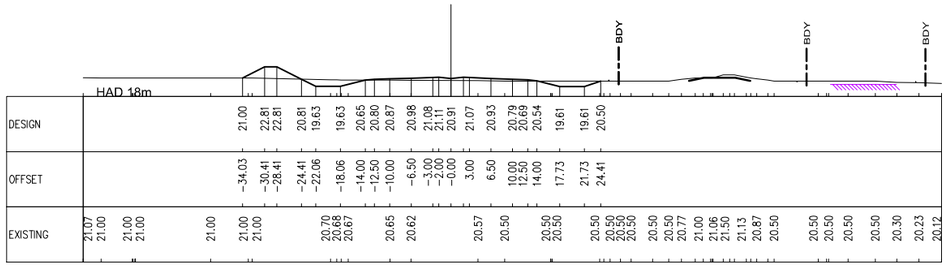
Sheet
Cross Sections
Chanage 5950 to 6300m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM45	R0

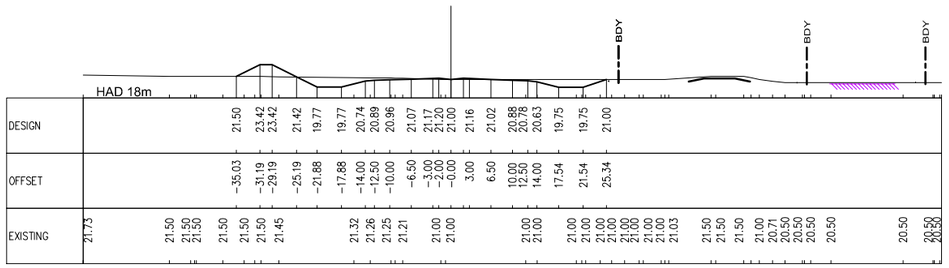
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



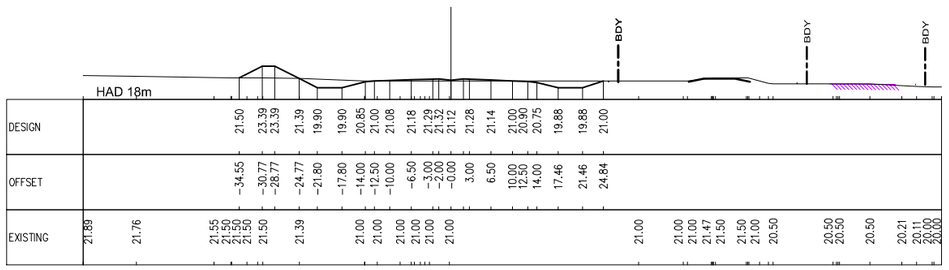
6500m



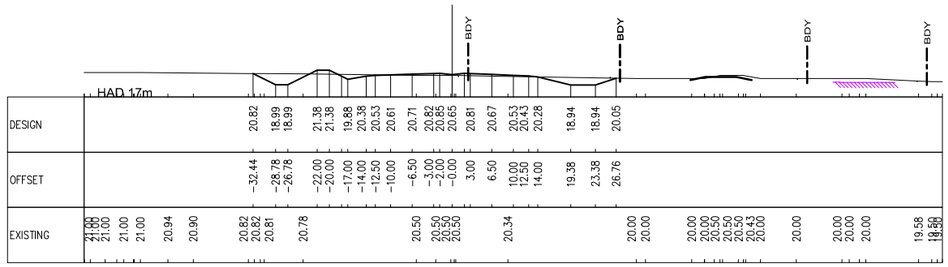
6450m



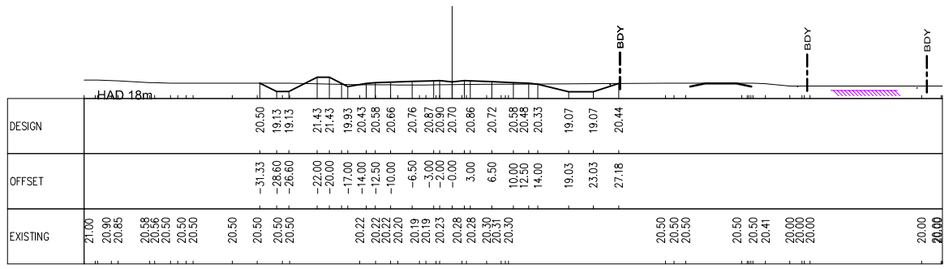
6400m



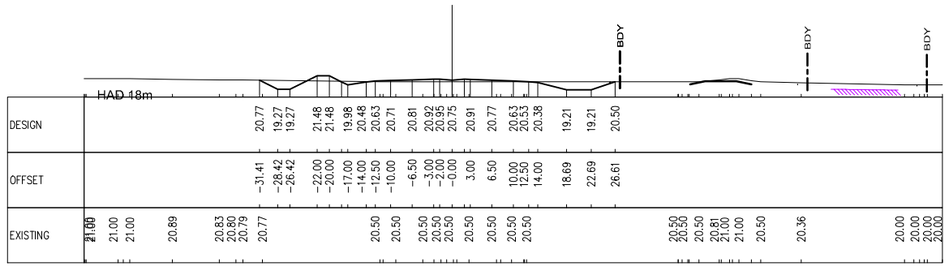
6350m



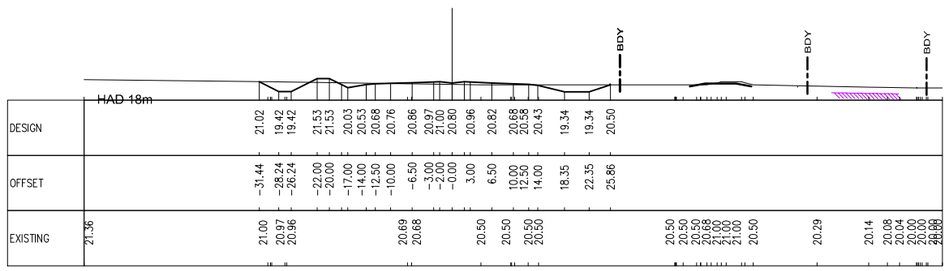
6700m



6650m



6600m



6550m

300 mm
200
100
50
0 10 mm

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Hulmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

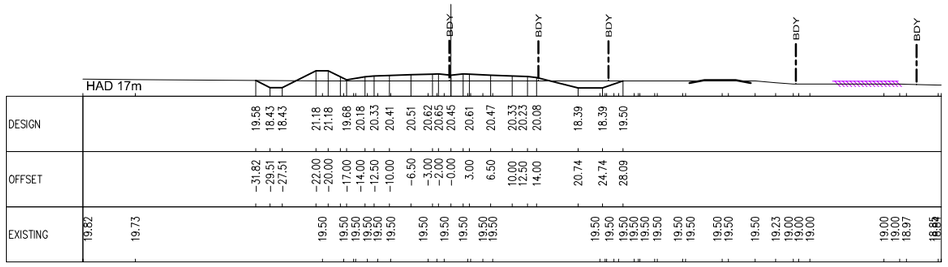
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

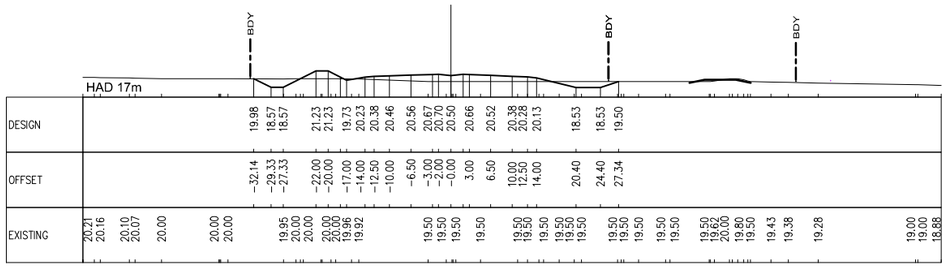
Sheet
Cross Sections
Chanage 6350 to 6700m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM46	R0

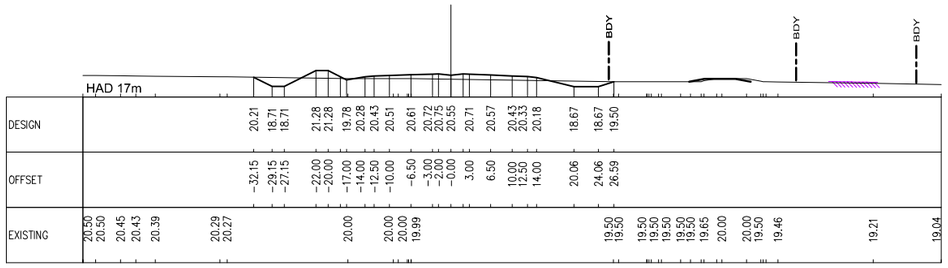
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



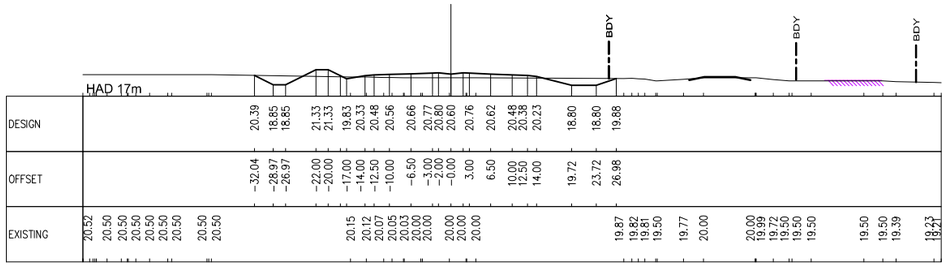
6900m



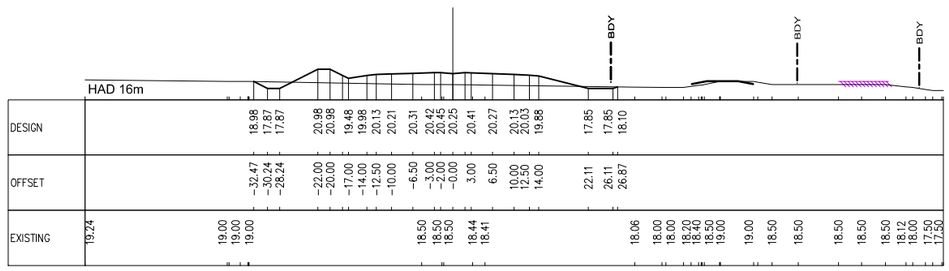
6850m



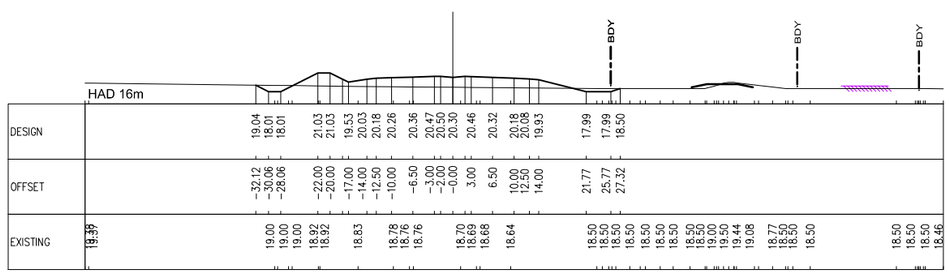
6800m



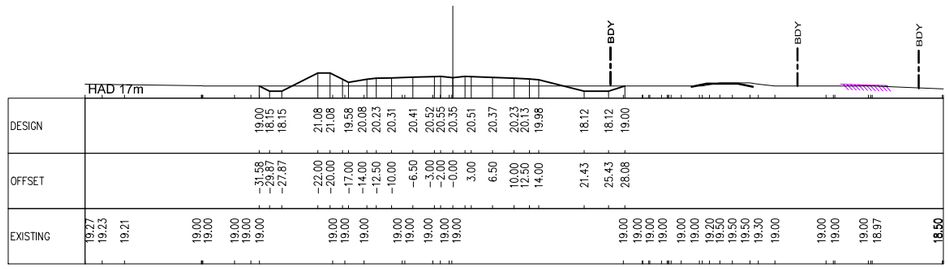
6750m



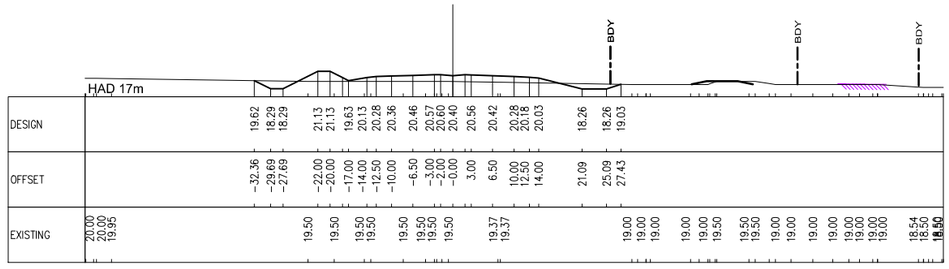
7100m



7050m



7000m



6950m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

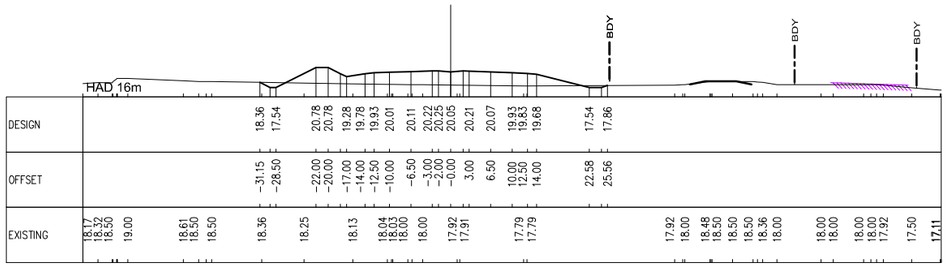
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

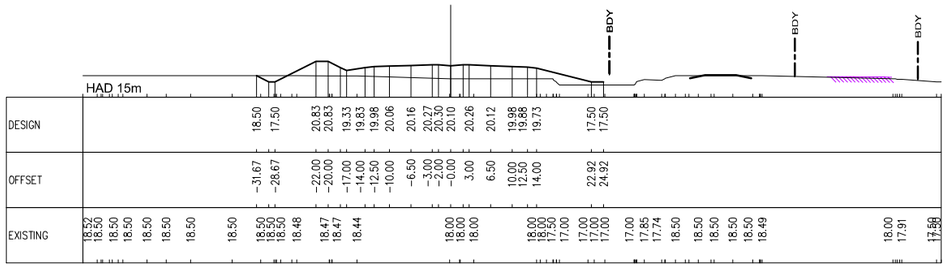
Sheet
Cross Sections
Chanage 6750 to 7100m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM47	R0

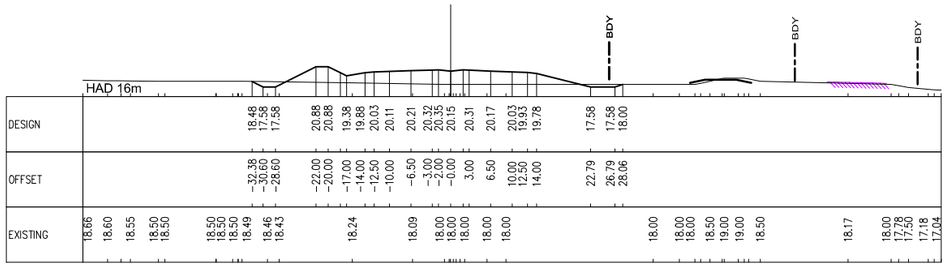
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



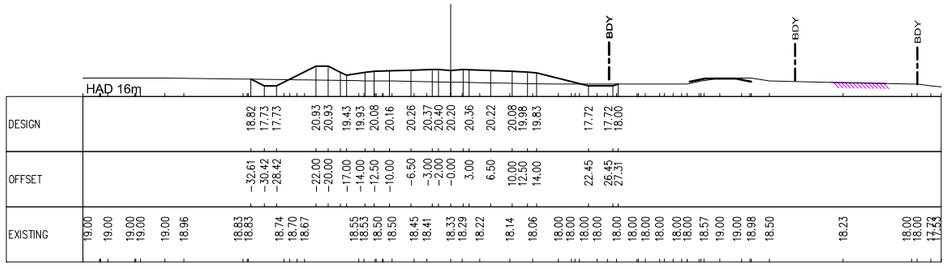
7300m



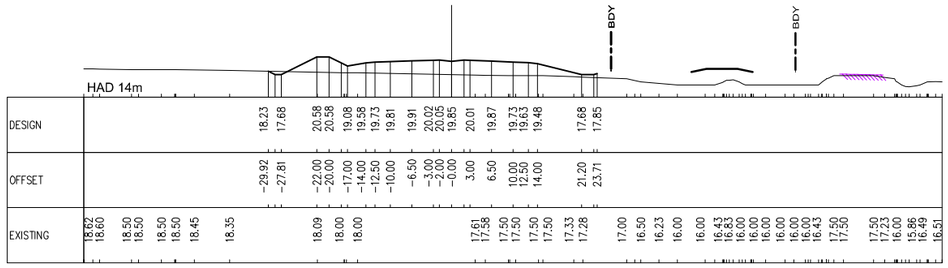
7250m



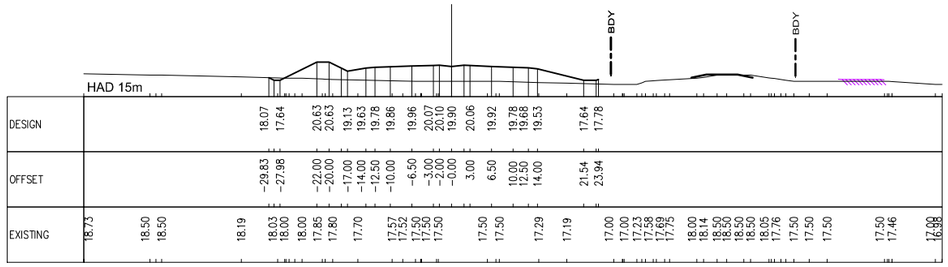
7200m



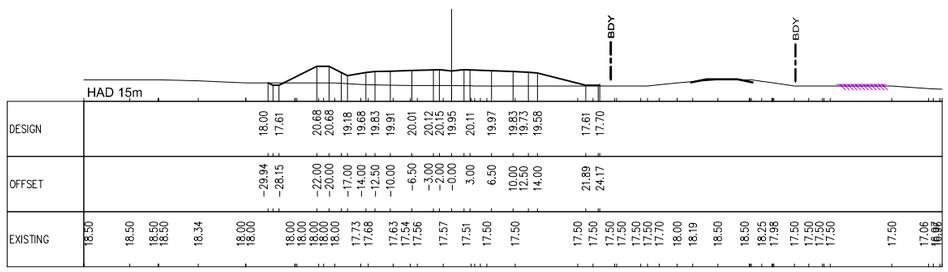
7150m



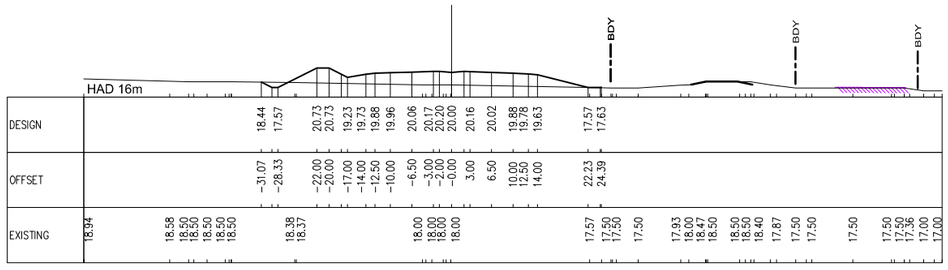
7500m



7450m



7400m



7350m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

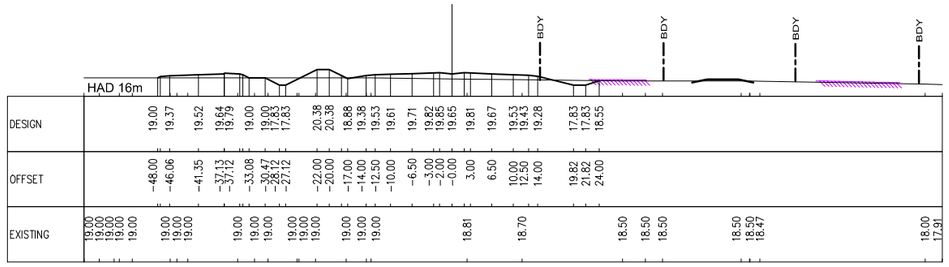
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

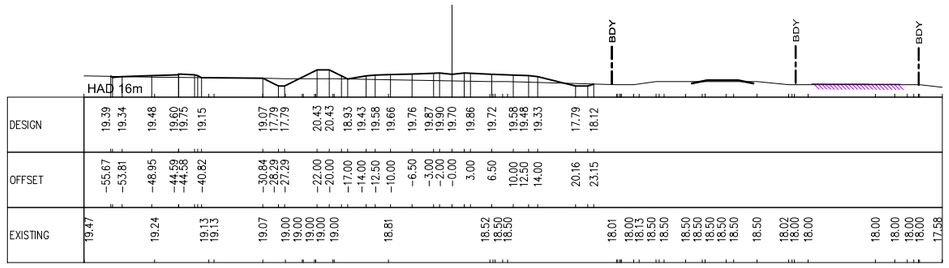
Sheet
Cross Sections
Chanage 7150 to 7500m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM48	R0

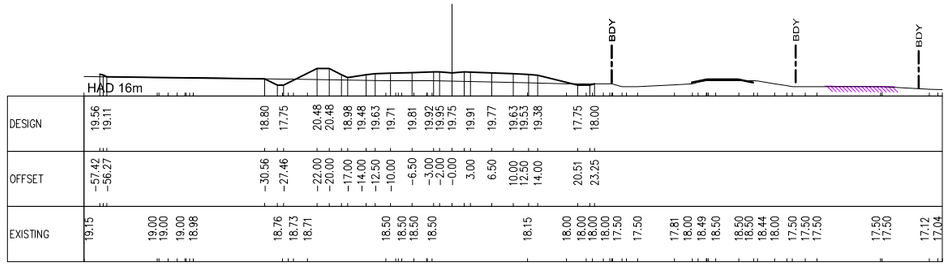
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



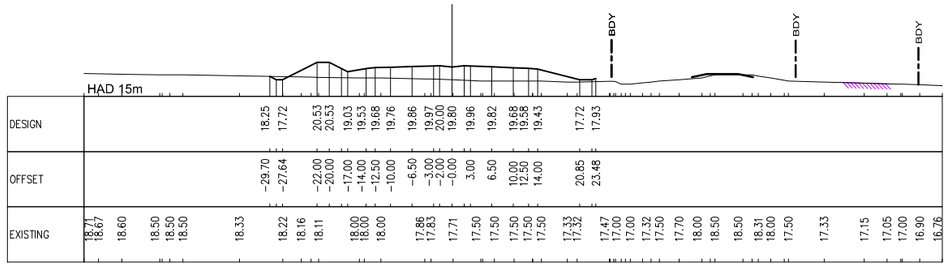
7700m



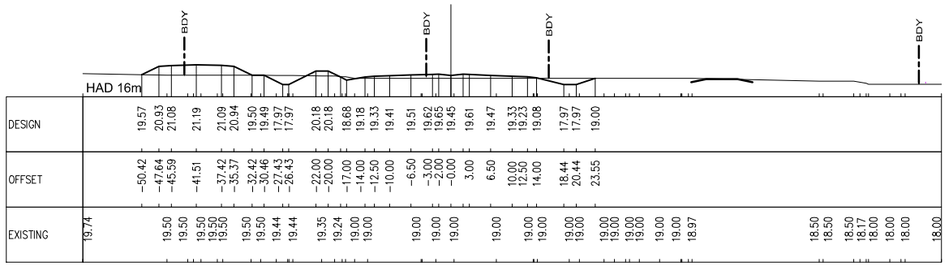
7650m



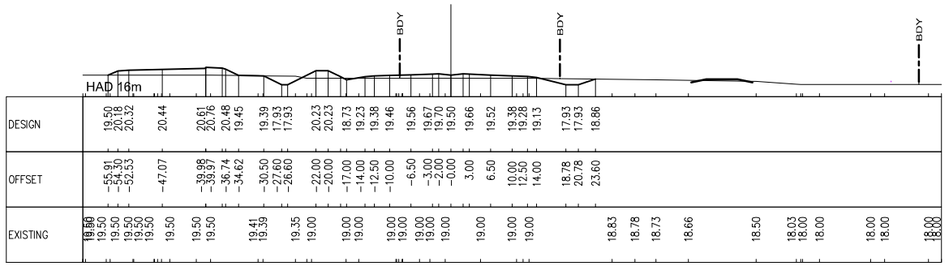
7600m



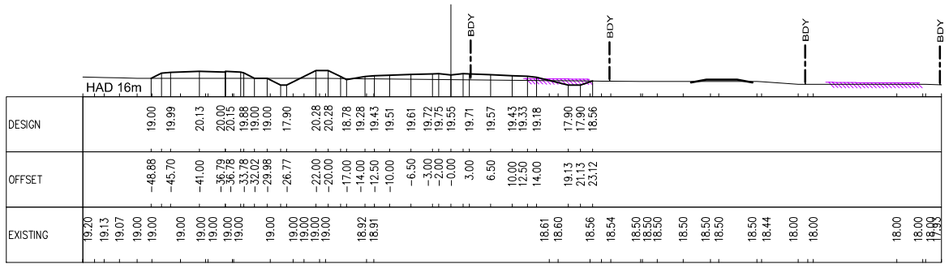
7550m



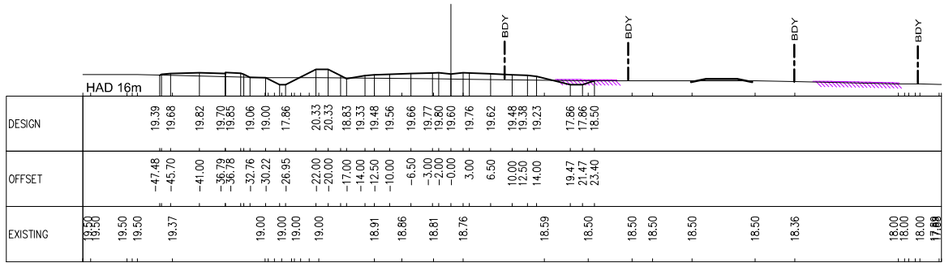
7900m



7850m



7800m



7750m

300 mm 200 100 50 10 mm 0

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

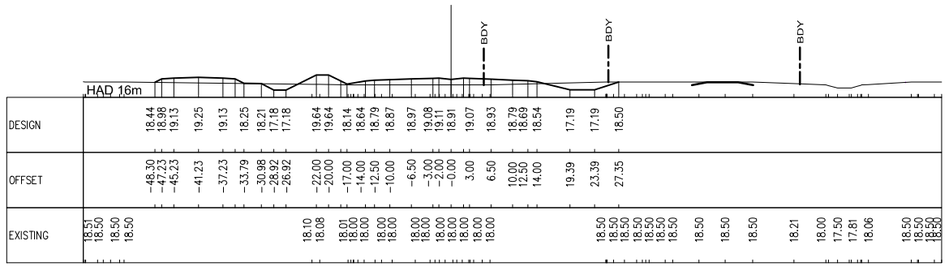
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

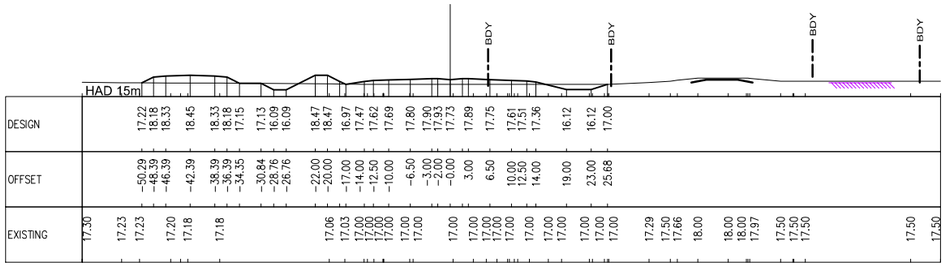
Sheet
Cross Sections
Chanage 7550 to 7900m

Drawing No.	Sheet No.	Revision
5/2664/1/6504	GM49	R0

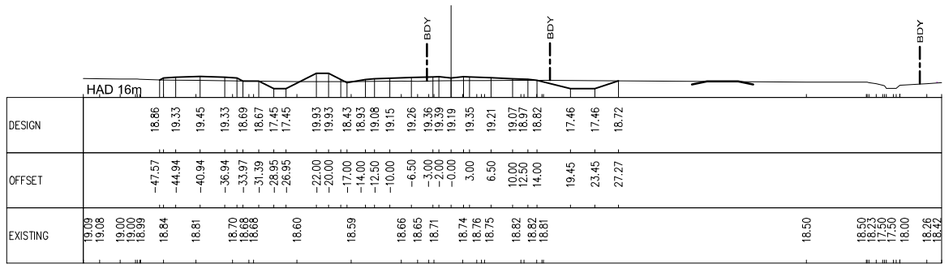
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



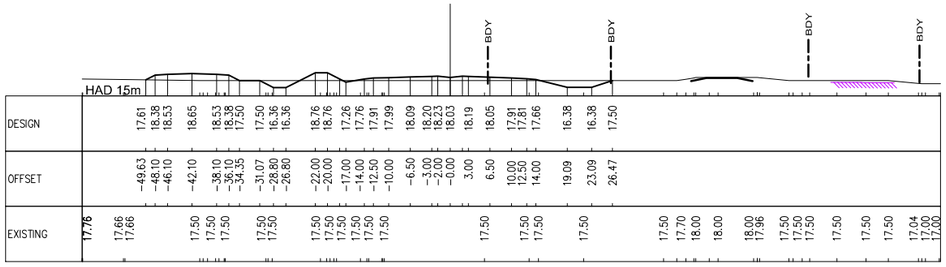
8100m



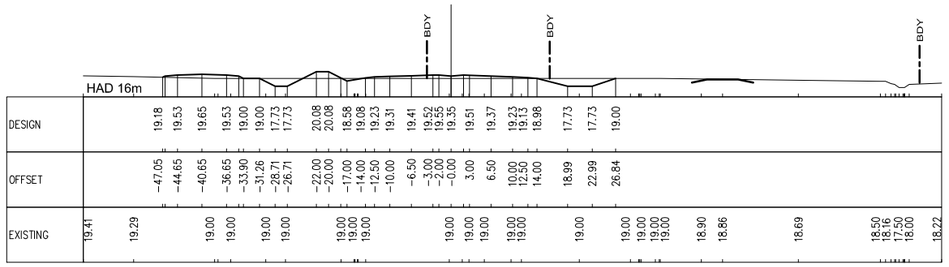
8300m



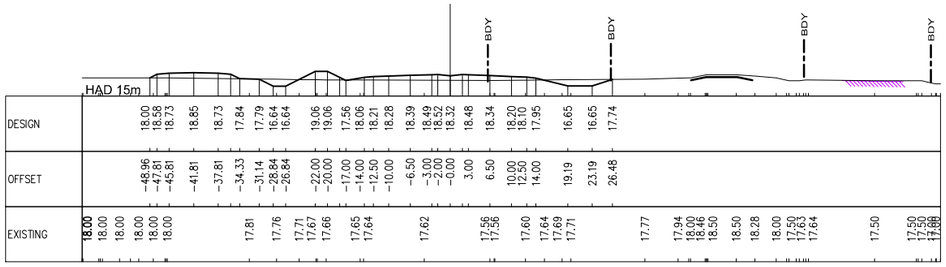
8050m



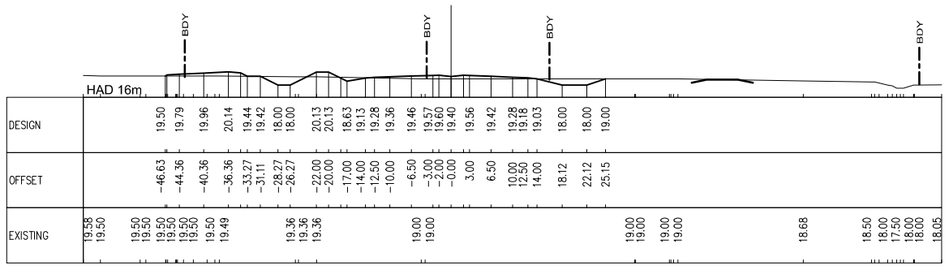
8250m



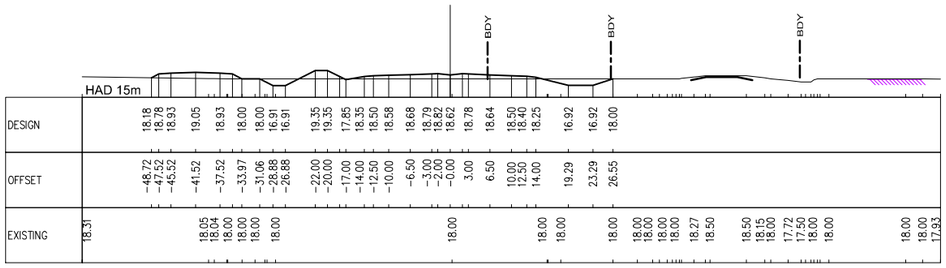
8000m



8200m



7950m



8150m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Hulmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

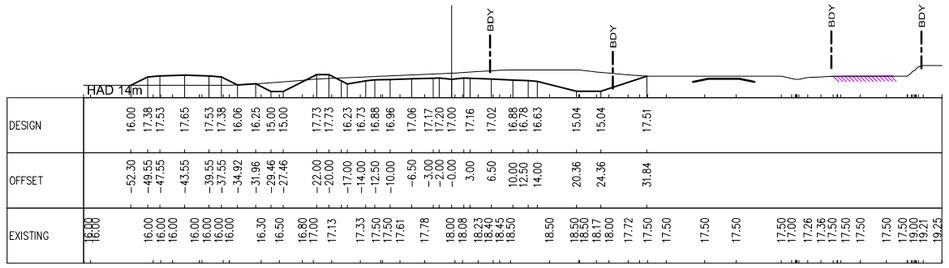
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

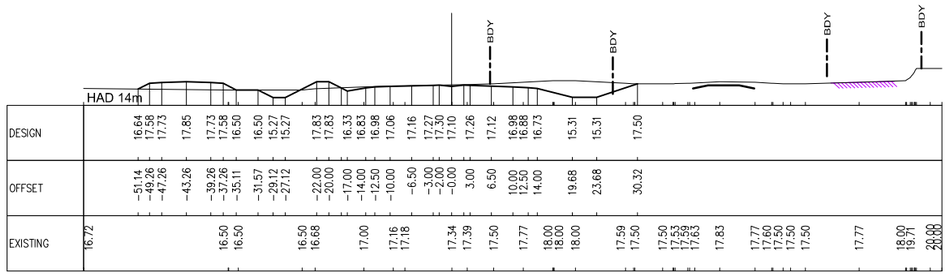
Sheet
Cross Sections
Chanage 7950 to 8300m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM50	R0

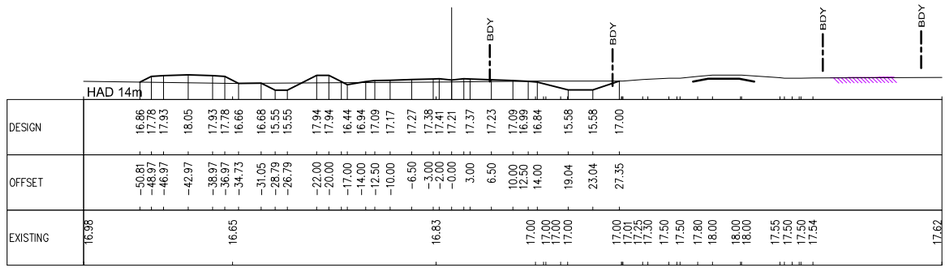
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



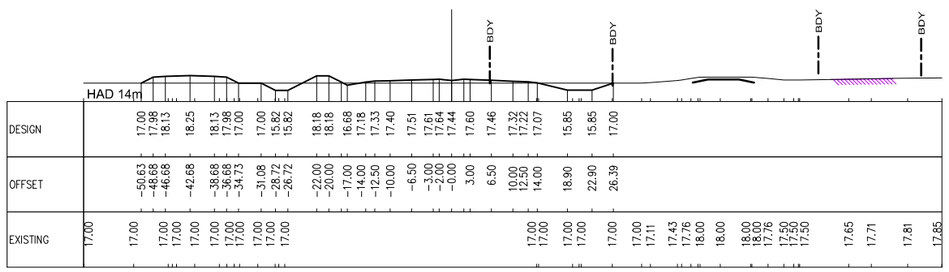
8500m



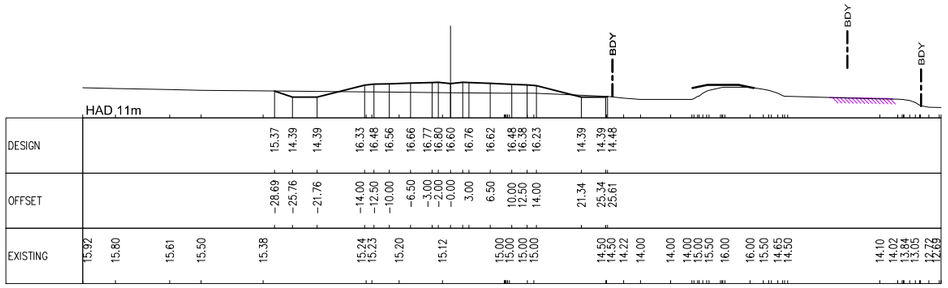
8450m



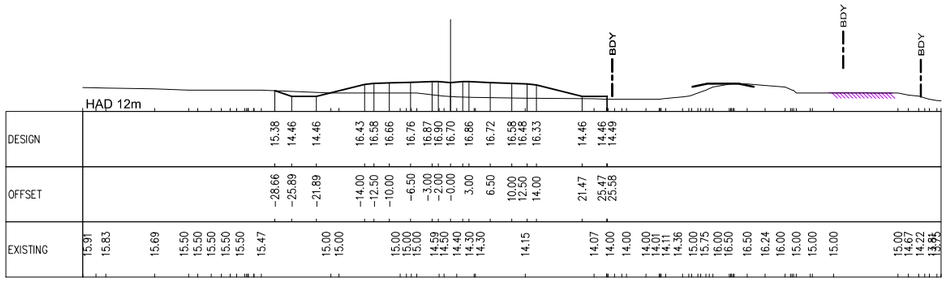
8400m



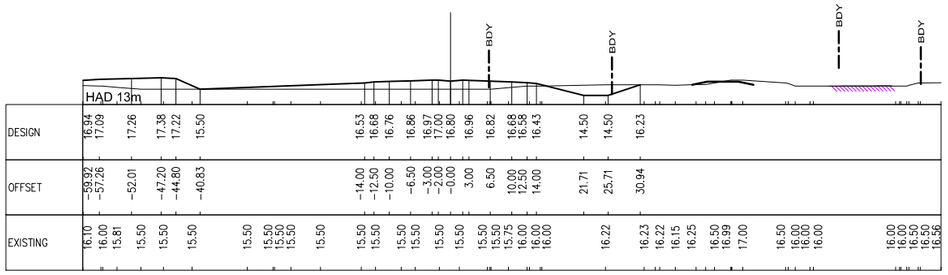
8350m



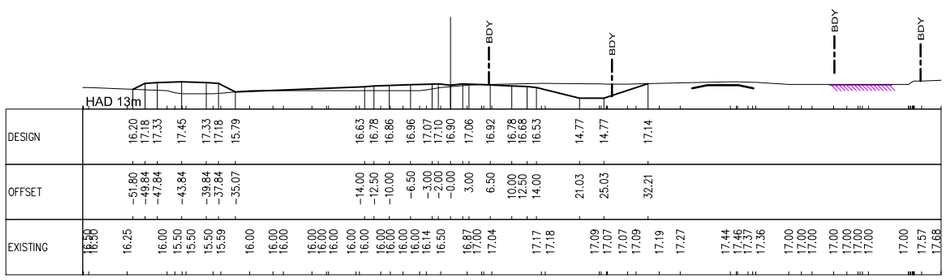
8700m



8650m



8600m



8550m

300 mm
200
100
50
0 10 mm

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

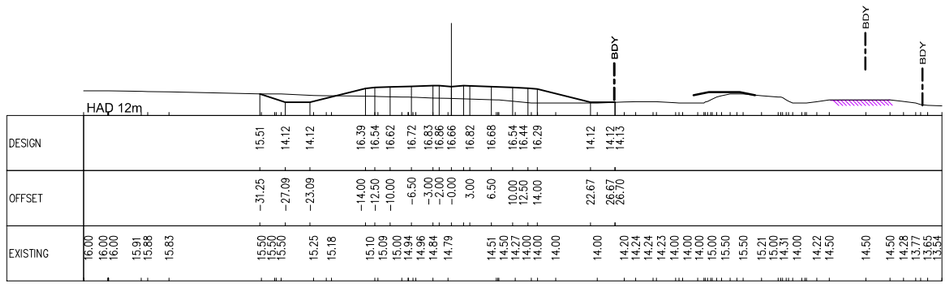
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

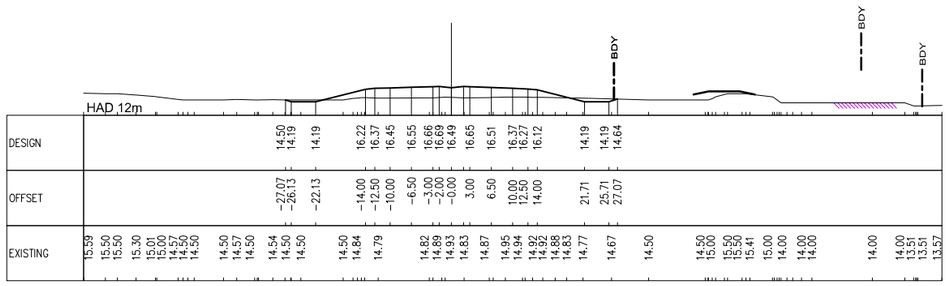
Sheet
Cross Sections
Chanage 8350 to 8700m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM51	R0

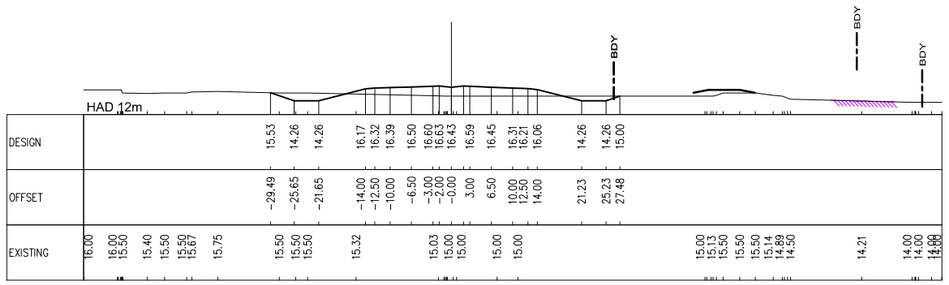
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



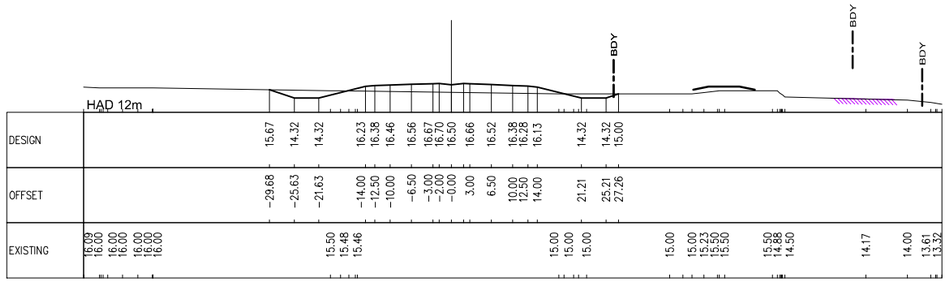
8900m



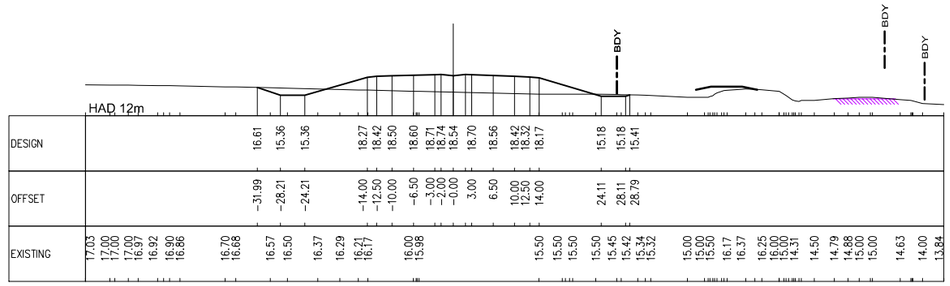
8850m



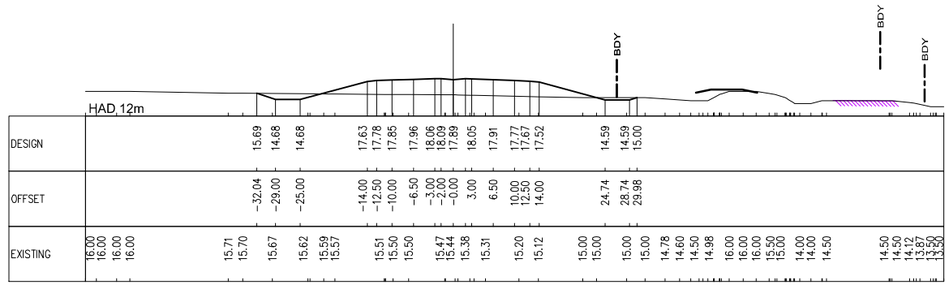
8800m



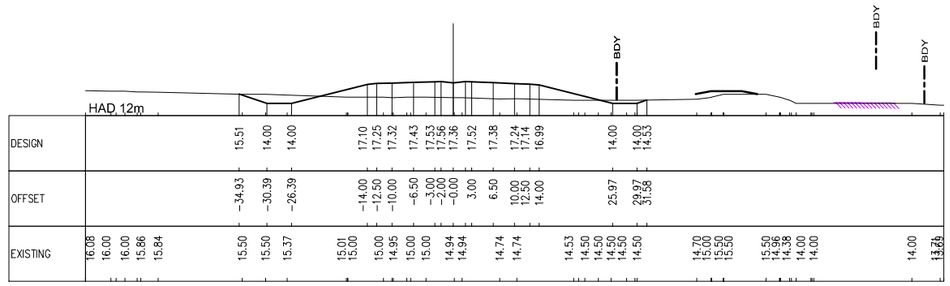
8750m



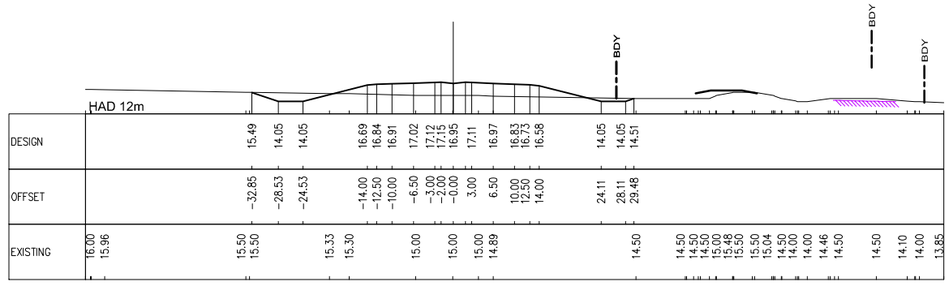
9100m



9050m



9000m



8950m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

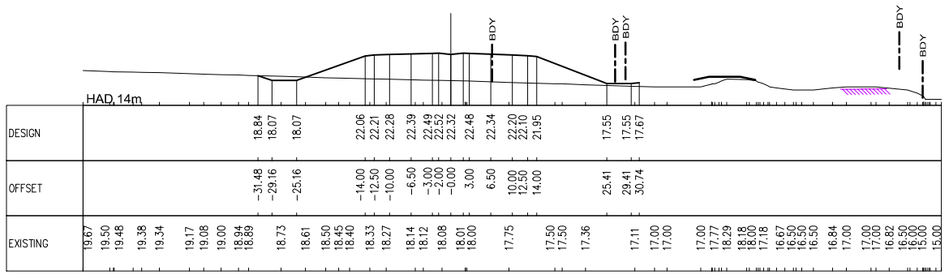
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

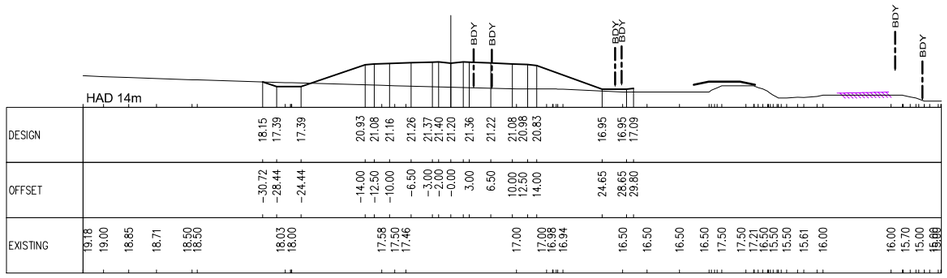
Sheet
Cross Sections
Chanage 8750 to 9100m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM52	R0

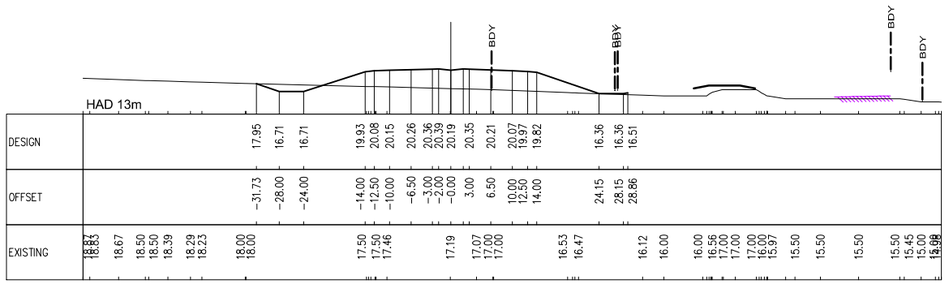
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



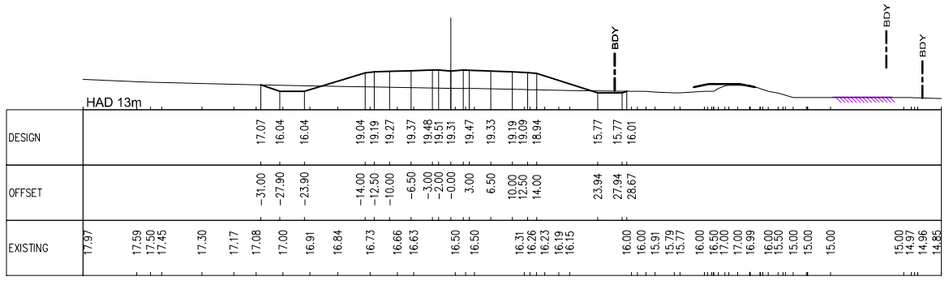
9300m



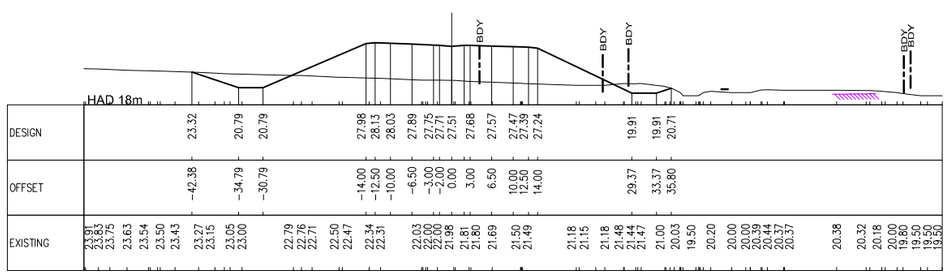
9250m



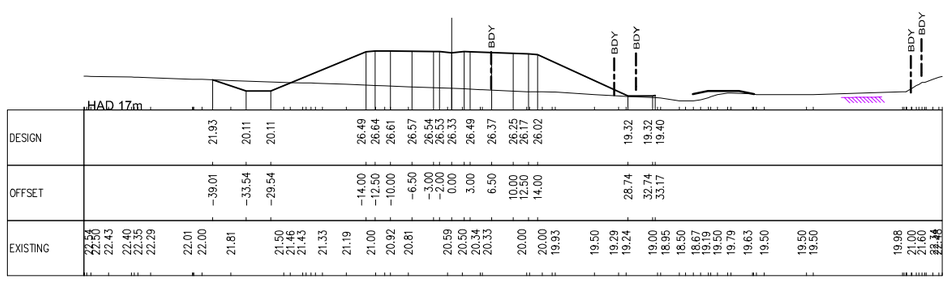
9200m



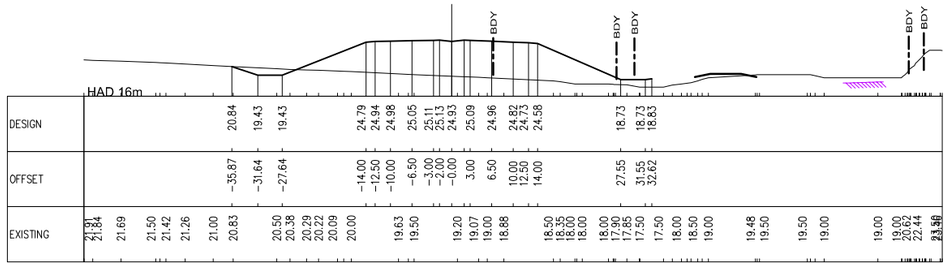
9150m



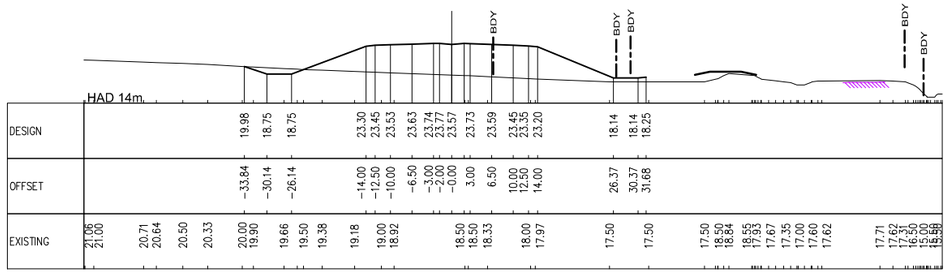
9500m



9450m



9400m



9350m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

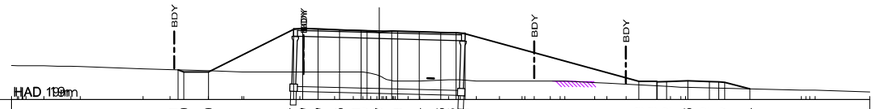
Sheet
Cross Sections
Chanage 9150 to 9500m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM53	R0

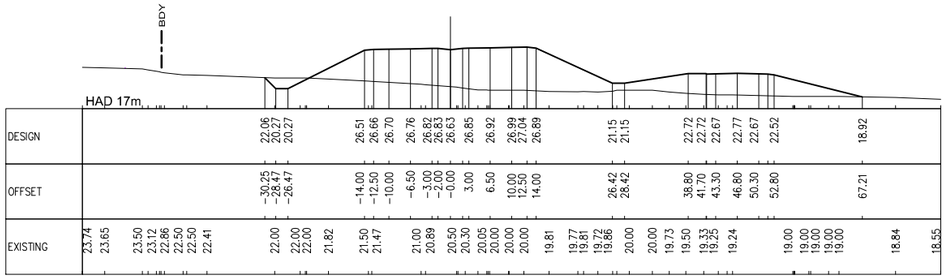
1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg

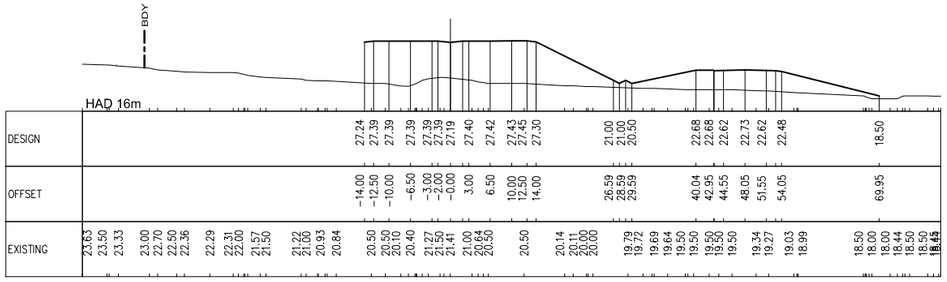
MARY CREST OVERPASS



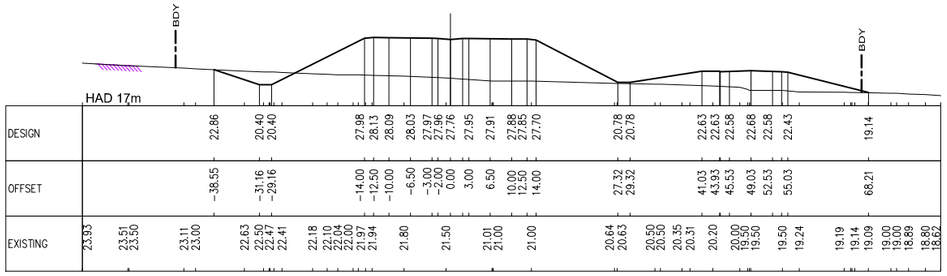
| | | |



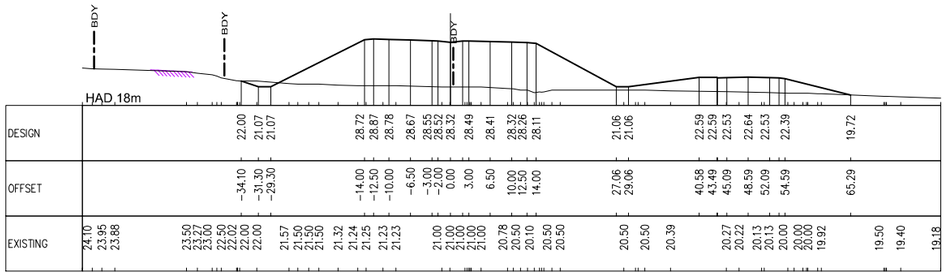
10100m



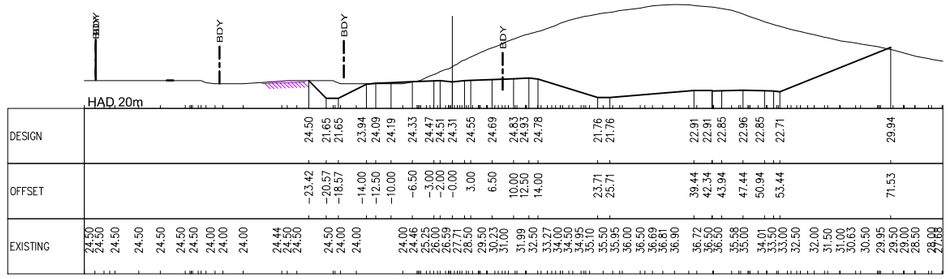
10050m



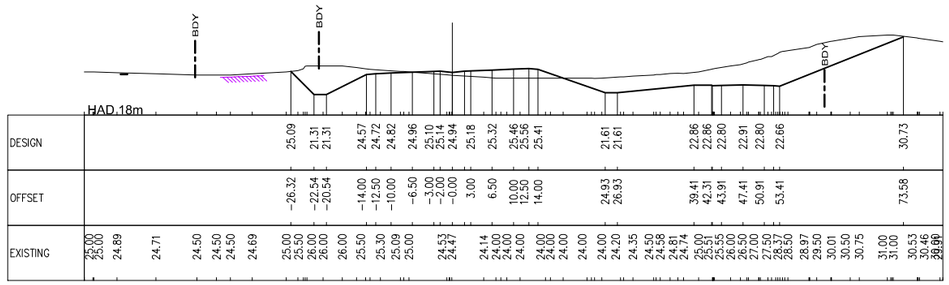
10000m



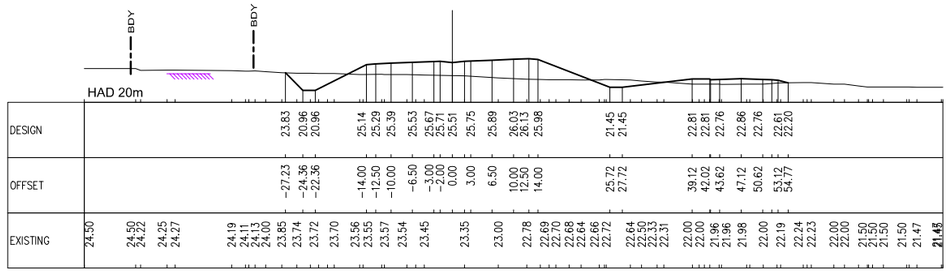
9950m



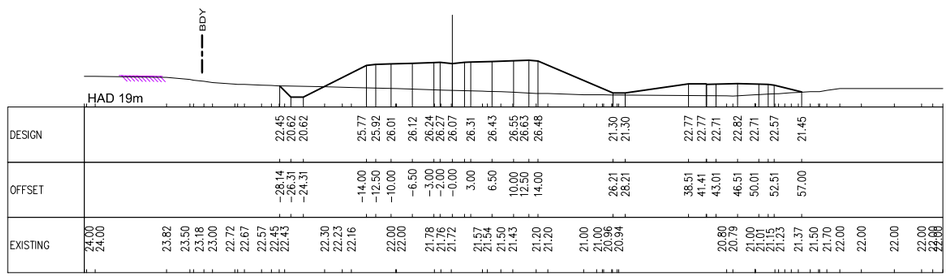
10300m



10250m



10200m



10150m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

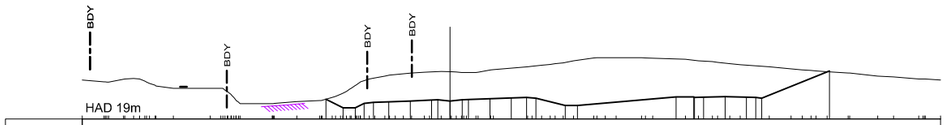
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

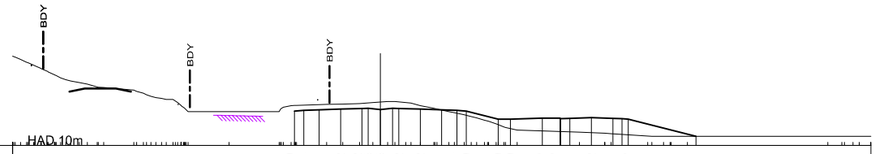
Sheet
Cross Sections
Chanage 9950 to 10300m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM55	R0

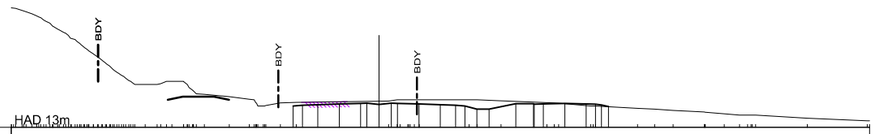
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg


BDY
BDY
BDY
BDY
HAD 19m

| | | |

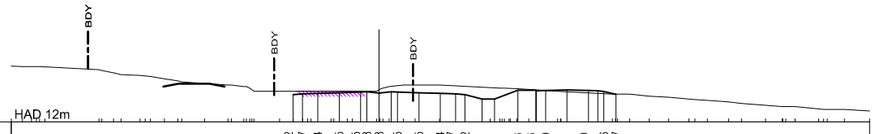

BDY
BDY
BDY
HAD 10m

| | | |



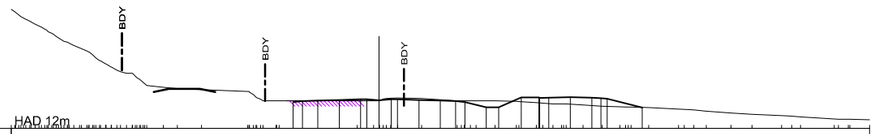
DESIGN	16.48 16.63 16.71 16.81 16.92 16.95 16.75 16.92 16.81 16.71 16.63 16.48 16.00 16.00 16.87 16.87 16.82 16.82 16.68 16.39
OFFSET	-14.00 -12.50 -10.00 -6.50 -3.00 -2.00 -0.00 3.00 6.50 10.00 12.50 14.00 15.93 17.93 22.29 25.19 26.79 30.29 33.79 36.29 37.43
EXISTING	32.50 31.50 30.50 28.00 28.00 26.67 25.00 23.50 22.00 20.65 20.00 20.00 20.13 20.50 20.00 18.38 18.00 17.60 16.50 17.00 17.07 17.31 17.50 17.50 17.50 17.50 17.50 17.32 17.05 16.95 16.50 16.50 16.12 16.00 15.78 15.50 15.49 15.24 15.04 15.00 15.00 14.50 14.50 14.08

11200m



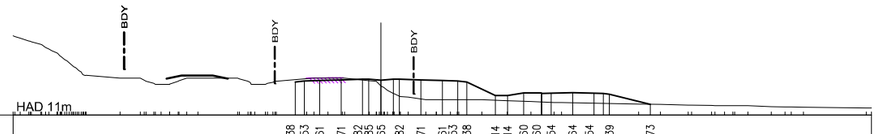
DESIGN	16.42 16.57 16.64 16.75 16.85 16.88 16.68 16.85 16.75 16.64 16.57 16.42 15.71 15.71 17.16 17.16 17.10 17.21 17.10 16.96 16.47
OFFSET	-14.00 -12.50 -10.00 -6.50 -3.00 -2.00 -0.00 3.00 6.50 10.00 12.50 14.00 16.81 18.81 22.66 25.56 27.16 30.66 34.16 36.66 38.63
EXISTING	21.09 21.00 20.96 20.50 20.00 19.70 19.55 19.40 19.00 18.50 18.26 18.00 17.74 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.75 18.00 18.00 18.00 17.58 17.45 17.40 17.28 17.00 16.96 16.50 16.50 16.50 16.18 16.00 15.73 15.64 15.50 15.26 15.00 14.69 14.50 14.50 14.10 14.00 14.00 13.76

11150m



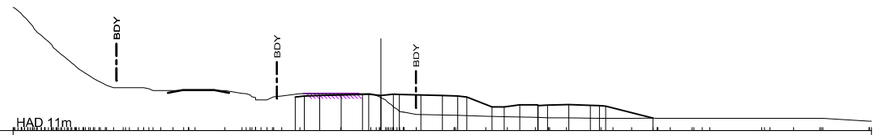
DESIGN	16.30 16.45 16.53 16.63 16.74 16.77 16.57 16.74 16.63 16.53 16.45 16.30 15.43 15.43 17.04 17.04 16.99 17.09 16.98 16.84 15.41
OFFSET	-14.00 -12.50 -10.00 -6.50 -3.00 -2.00 -0.00 3.00 6.50 10.00 12.50 14.00 17.49 19.49 23.19 26.09 27.69 31.19 34.69 37.19 42.90
EXISTING	31.39 29.95 28.50 27.50 26.18 25.50 24.64 23.07 22.00 21.00 20.28 19.00 18.70 18.50 18.31 18.00 16.74 16.50 16.50 16.50 16.50 16.50 16.79 16.94 16.86 16.50 16.50 16.50 16.50 16.50 16.40 16.36 16.13 16.00 16.00 15.81 15.62 15.54 15.50 15.41 15.15 15.00 14.82 14.50 14.31 14.08 13.87 13.54 13.50 13.50 13.41

11100m



DESIGN	16.38 16.53 16.61 16.71 16.82 16.85 16.65 16.82 16.71 16.61 16.53 16.38 14.14 14.14 14.60 14.60 14.54 14.54 14.54 14.39 12.73
OFFSET	-14.00 -12.50 -10.00 -6.50 -3.00 -2.00 -0.00 3.00 6.50 10.00 12.50 14.00 18.64 20.64 23.25 26.15 27.75 31.25 34.75 37.25 43.92
EXISTING	23.90 22.50 21.50 20.50 19.22 19.00 17.45 17.00 17.00 17.00 16.15 16.00 17.00 17.00 17.00 16.50 16.00 16.00 16.30 16.50 16.91 17.00 17.00 17.00 16.57 16.00 14.52 13.90 13.50 13.50 13.50 13.50 13.50 13.50 13.34 13.19 13.00 13.00 12.76 12.70 12.61 12.60 12.54 12.50 12.50 12.50 12.36 12.30 12.26 12.14

11350m



DESIGN	16.47 16.62 16.69 16.80 16.90 16.93 16.73 16.90 16.80 16.69 16.62 16.47 14.86 14.86 15.18 15.18 15.12 15.23 15.12 14.98 13.05
OFFSET	-14.00 -12.50 -10.00 -6.50 -3.00 -2.00 -0.00 3.00 6.50 10.00 12.50 14.00 18.09 20.09 22.64 25.55 27.15 30.65 34.15 36.65 44.36
EXISTING	31.04 27.95 26.04 24.15 22.66 21.00 19.86 18.91 18.00 18.00 18.00 17.80 17.50 17.50 17.50 17.50 17.50 17.05 16.50 16.00 16.64 17.00 17.00 17.00 16.00 14.50 13.98 13.64 13.51 13.50 13.33 13.24 13.15 13.08 13.07 13.00 13.00 13.00 13.01 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 12.50

11300m

DESIGN	16.50 16.65 16.72 16.83 16.93 16.96 16.76 16.93 16.83 16.72 16.65 16.50 15.57 15.57 16.19 16.19 16.13 16.24 16.13 15.99 14.86
OFFSET	-14.00 -12.50 -10.00 -6.50 -3.00 -2.00 -0.00 3.00 6.50 10.00 12.50 14.00 17.06 19.06 22.13 25.03 26.63 30.13 33.63 36.13 40.64
EXISTING	32.25 30.59 29.14 27.13 25.58 24.18 22.50 21.17 20.17 19.81 19.20 18.67 18.85 18.57 18.00 17.60 17.50 16.00 16.35 16.55 17.00 17.00 17.00 17.00 16.78 16.59 16.34 16.00 15.61 15.50 15.50 15.50 15.50 15.50 15.50 15.18 15.15 15.05 15.00 14.97 14.96 15.00 14.96 14.50 14.26 14.00 14.00 13.68 13.67 13.65 13.62 13.61

11250m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

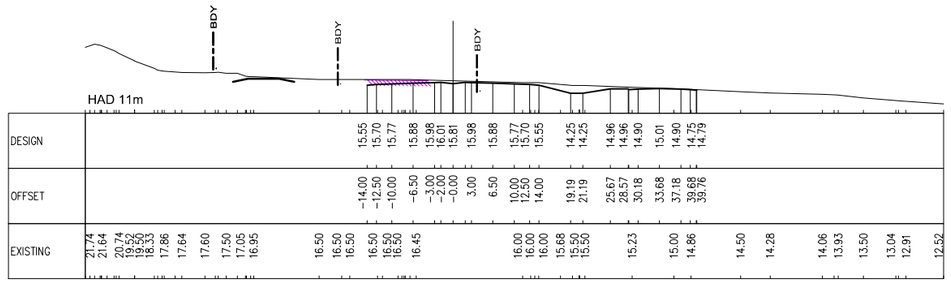
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

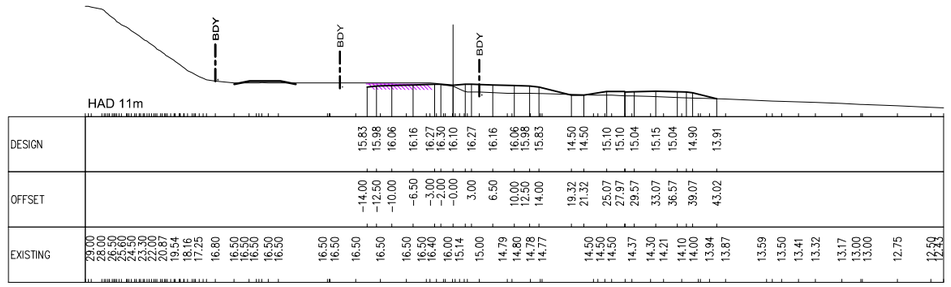
Sheet
Cross Sections
Chanage 10750 to 11050m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM58	R0

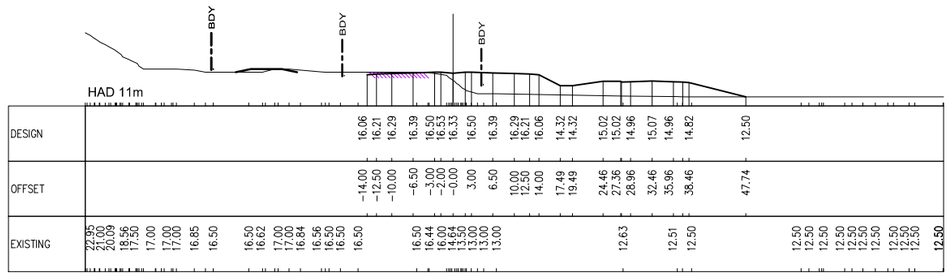
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



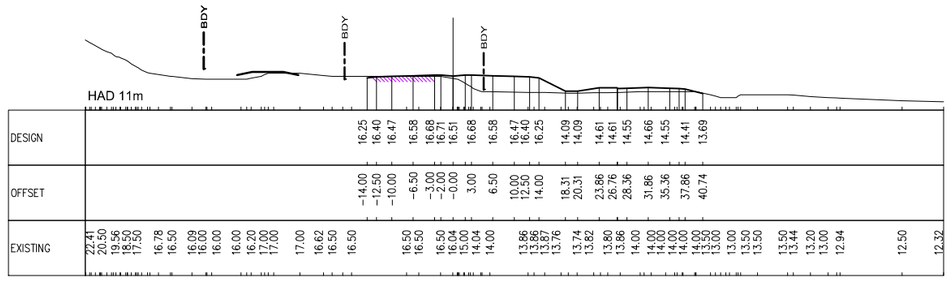
11550m



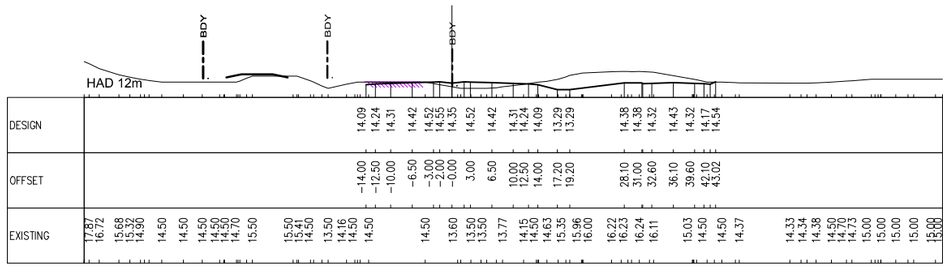
11500m



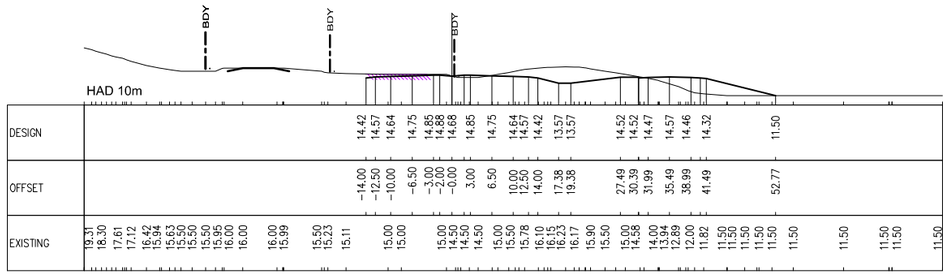
11450m



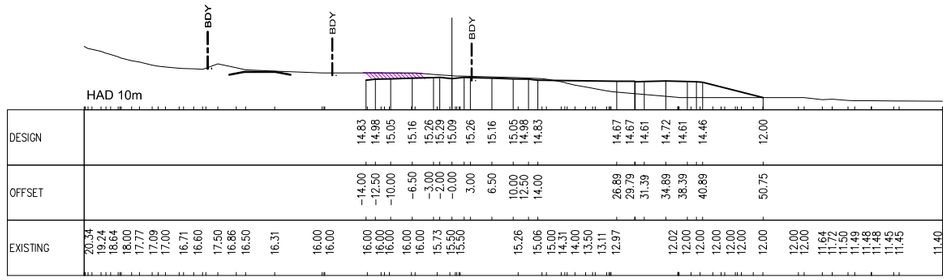
11400m



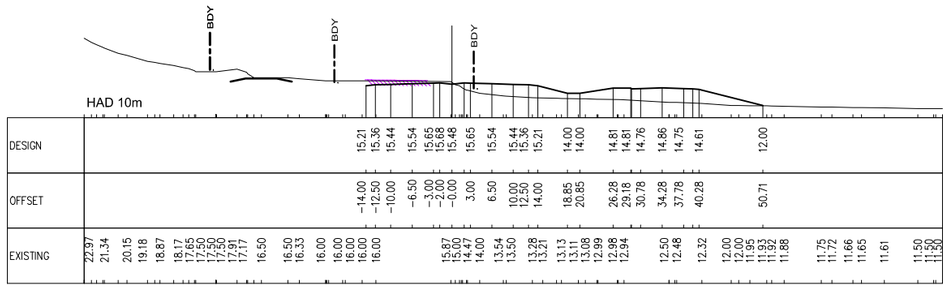
11750m



11700m



11650m



11600m

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

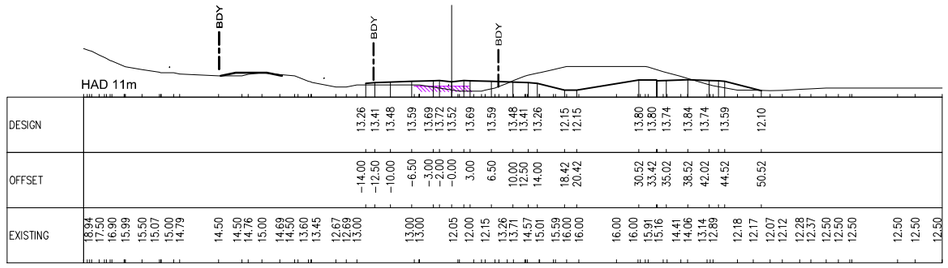
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

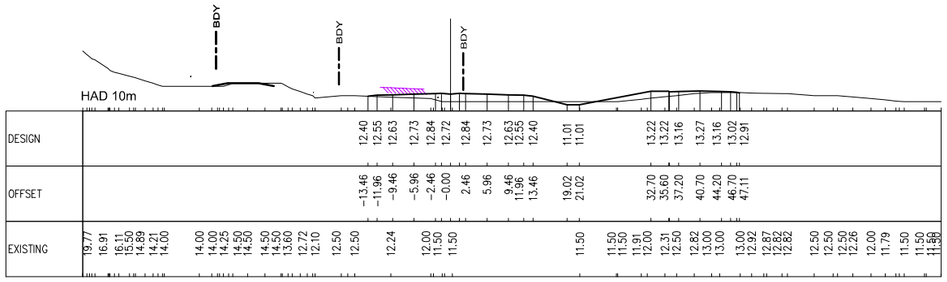
Sheet
Cross Sections
Chanage 11400 to 11750m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM59	R0

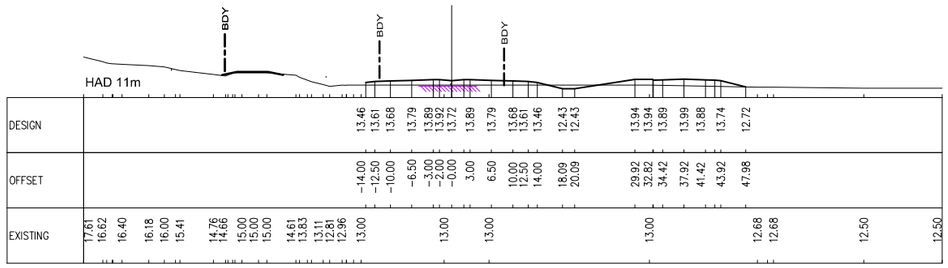
Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg



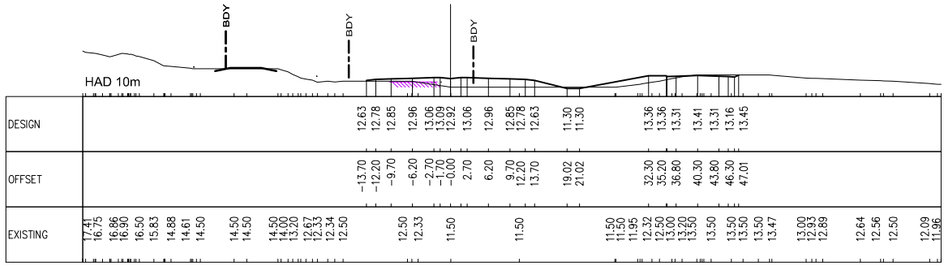
11950m



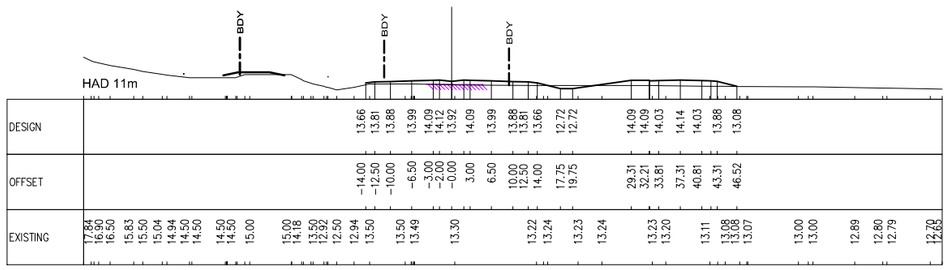
12150m



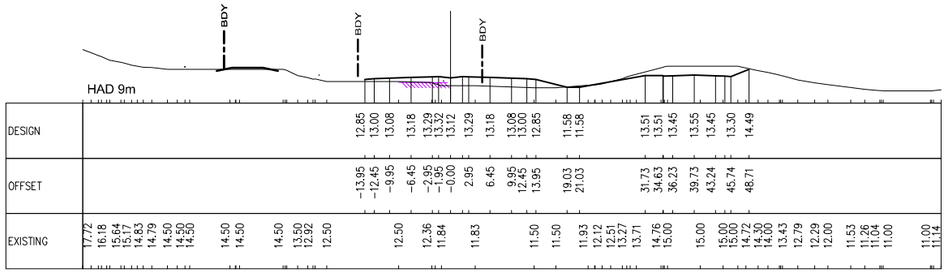
11900m



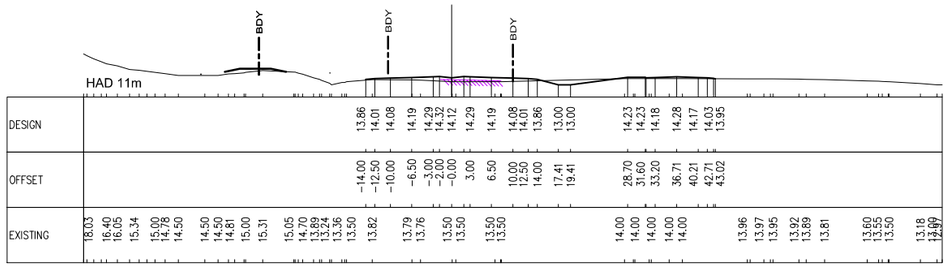
12100m



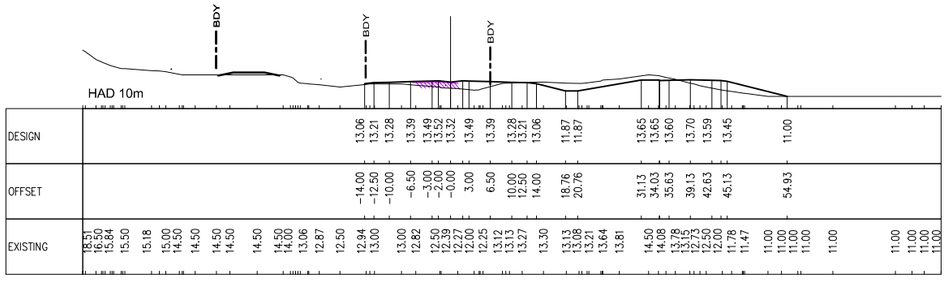
11850m



12050m



11800m



12000m

300 mm
200
100
50
10 mm
0

1:100 @ A1 — 0 1 2 3 4 5 6 7 8 9 10 m

Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

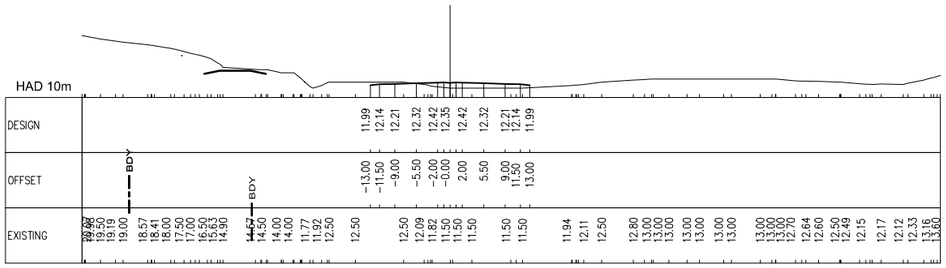
Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

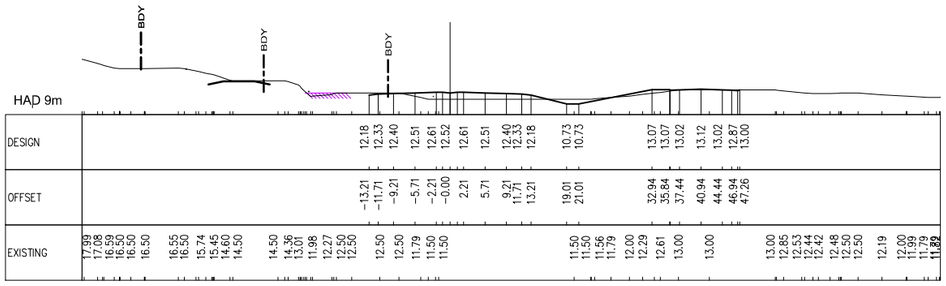
Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

Sheet
Cross Sections
Chanage 11800 to 12150m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM60	R0

Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg





Revision	Amendment	Approved	Revision Date

NZ TRANSPORT AGENCY
WAKA KOTAHI

OPUS URS Holmes Consulting Group

Drawn	Designed	Approved	Revision Date
MX	MAE	T.COULMAN	09/2011

Project No.	Scale
5C1814.00	1:100(A1), 1:200(A3)

Project
NEW ZEALAND TRANSPORT AGENCY
PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

Sheet
Cross Sections
Chanage 12200 to 12251m

Drawing No.	Sheet. No.	Revision
5/2664/1/6504	GM61	R0

1:100 @ A1 0 1 2 3 4 5 6 7 8 9 10 m

300 mm 200 100 50 10 mm 0

Original Sheet Size A1 [841x594] Plot Date 16/03/12 @ 11:14 p:\projects\5-c1814.00 peka peka to north otaki 440pn\900 drawings\910 cad\5504_scheme assessment\sheet gm30-62_cross sections.dwg