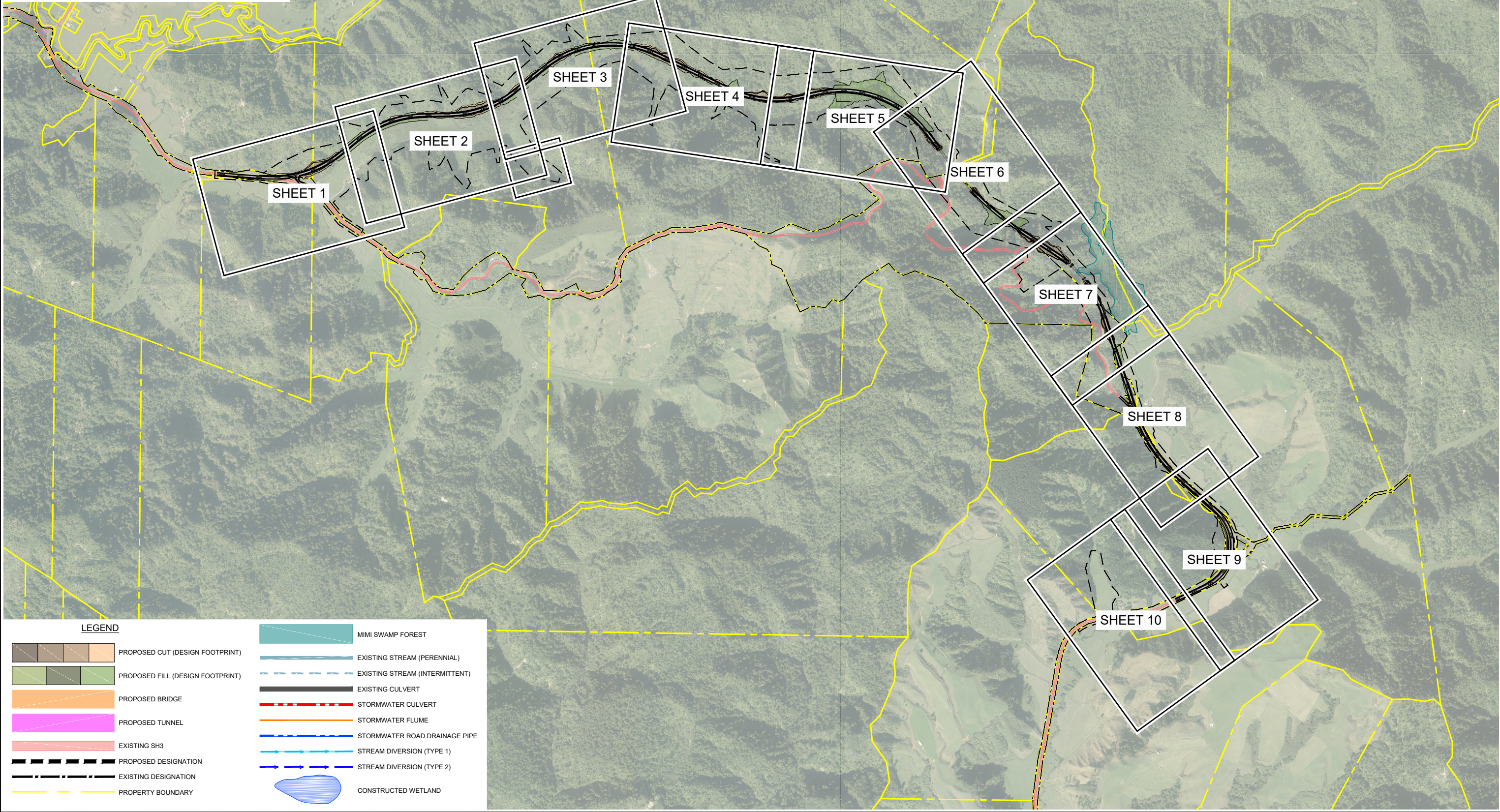


Appendix C: Construction Drawings

- MMA-DES-GEM-C0-DRG-1000-1010 - General Arrangement Drawings
- MMA-DES-CON-C0-DRG-1001 - Construction Zones
- MMA-DES-CON-C0-DRG-1051-1054 - Construction Staging
- MMA-DES-CON-C0-DRG-1010 - Site Access Points
- MMA-DES-ESC-C0-DRG-1000-1010 - Conceptual Erosion and Sediment Control Plans

- NOTES
1. COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000).
 2. HEIGHT DATUM: TARANAKI 1970 SEA LEVEL (TARAHT 1970).
 3. FOR LONG SECTIONS SEE DRAWINGS MMA-DES-GEM-C0-DRG-2001_2009.
 4. FOR CROSS SECTIONS SEE DRAWINGS MMA-DES-GEM-C0-DRG-3011_3014.
 5. FOR DRAINAGE DESIGN SEE DRAWINGS MMA-DES-DNG-C0-DRG-1000_1010.
 6. FOR TUNNEL DESIGN SEE DRAWINGS MMA-DES-TUN-C0-DRG-1001.
 7. FOR BRIDGE DESIGN SEE DRAWINGS MMA-DES-STR-C0-1101_1103.
 8. FOR LANDSCAPE CONCEPT SEE DRAWINGS MMA-DES-UDL-C0-1000_1010.
 9. FOR DESIGNATION PLANS SEE MMA-DES-PRP-C0-1000_1004.

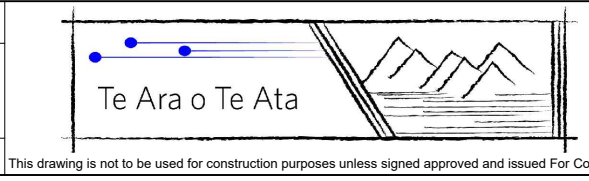


LEGEND

	PROPOSED CUT (DESIGN FOOTPRINT)		MIMI SWAMP FOREST
	PROPOSED FILL (DESIGN FOOTPRINT)		EXISTING STREAM (PERENNIAL)
	PROPOSED BRIDGE		EXISTING STREAM (INTERMITTENT)
	PROPOSED TUNNEL		EXISTING CULVERT
	EXISTING SH3		STORMWATER CULVERT
	PROPOSED DESIGNATION		STORMWATER FLUME
	EXISTING DESIGNATION		STORMWATER ROAD DRAINAGE PIPE
	PROPERTY BOUNDARY		STREAM DIVERSION (TYPE 1)
			STREAM DIVERSION (TYPE 2)
			CONSTRUCTED WETLAND

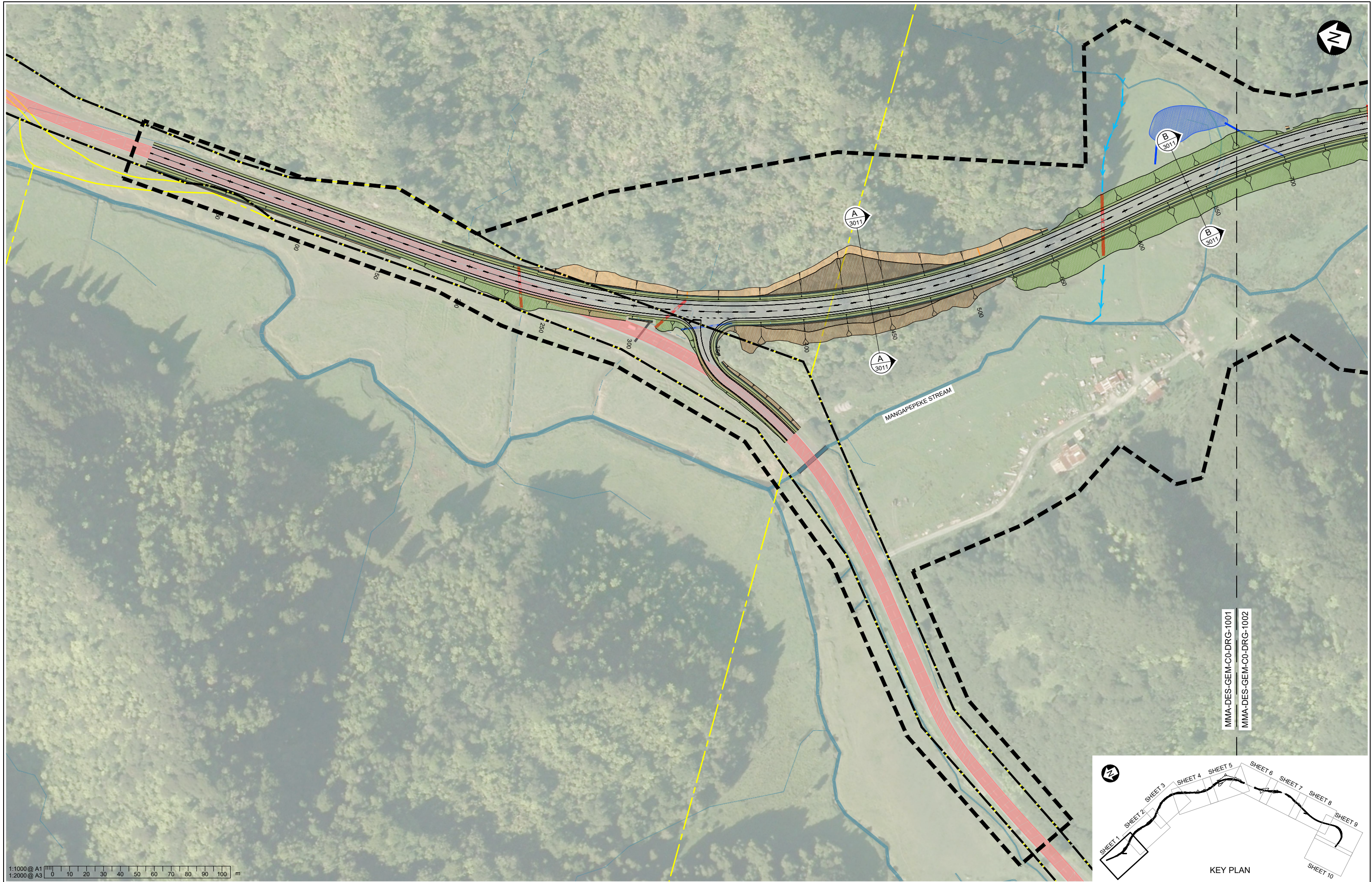
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Tab MMA-DES-GEM-C0-DRG-1000
Scales NOT TO SCALE
Original Size A1



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GEOMETRICS
GENERAL ARRANGEMENT
SHEET LAYOUT

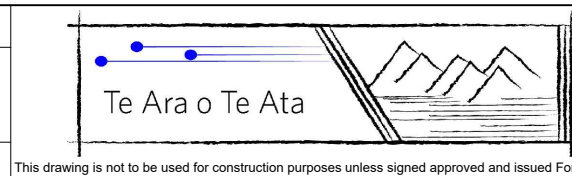
Approved D.KENDERDINE
Status FOR CONSENT
Drawing Number MMA-DES-GEM-C0-DRG-1000
Revision A



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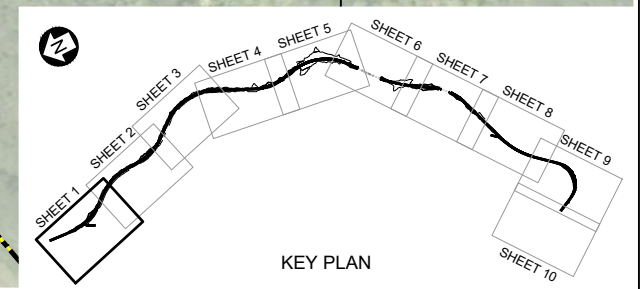
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Original Size A1

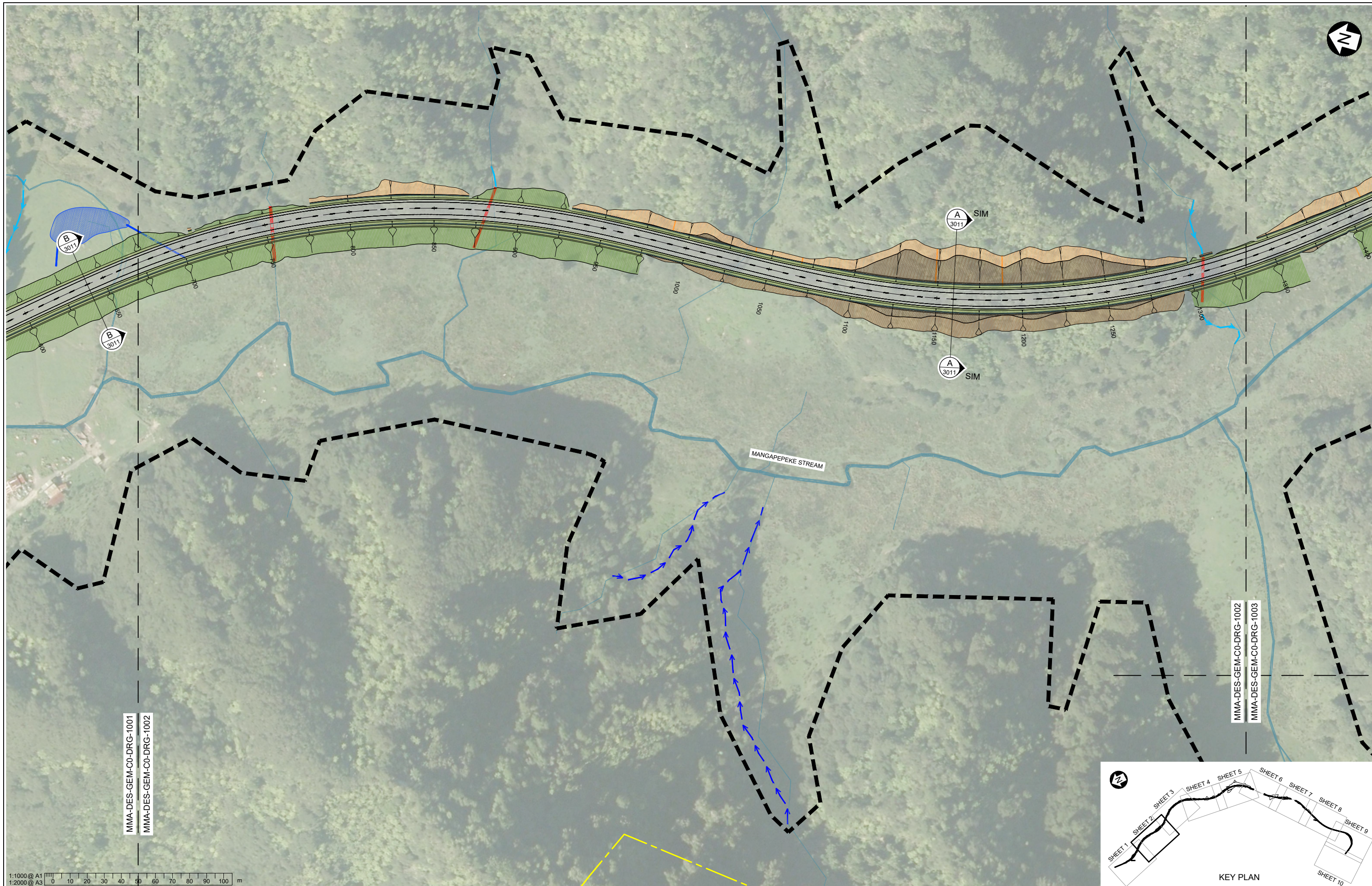


MT MESSENGER BYPASS
GEOMETRICS
GENERAL ARRANGEMENT
SHEET 1

Approved D.KENDERDINE
Status FOR CONSENT
Drawing Number MMA-DES-GEM-C0-DRG-1001
Revision A



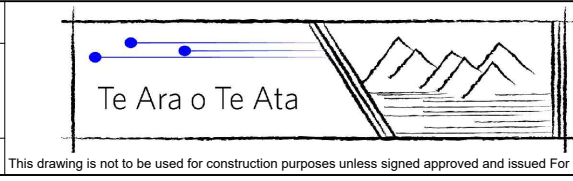
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MMA-DES-GEM-C0-DRG-1002



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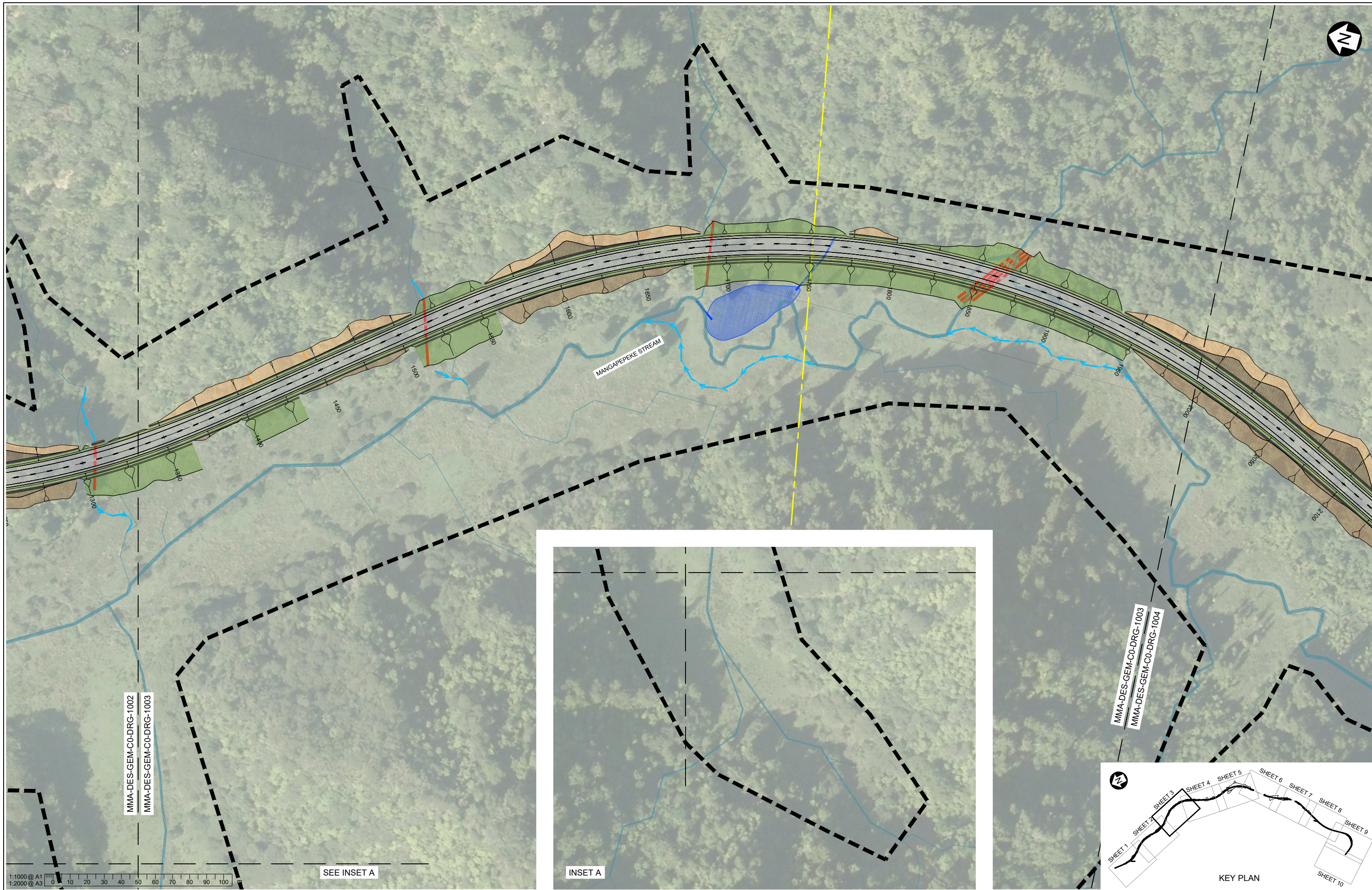
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Original Size A1



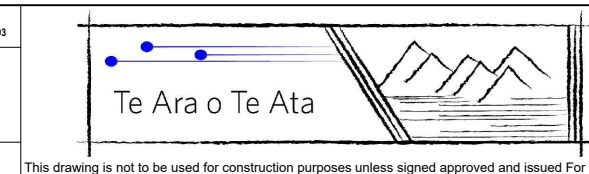
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GEOMETRICS
GENERAL ARRANGEMENT
SHEET 2

Approved D.KENDERDINE	Revision A
Status FOR CONSENT	
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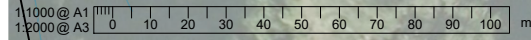
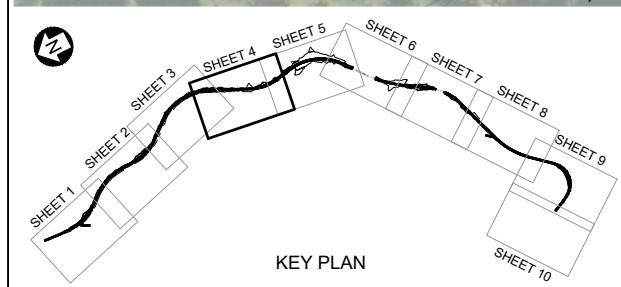
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Original Size A1



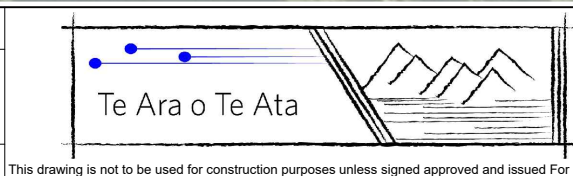
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GEOMETRICS
GENERAL ARRANGEMENT
SHEET 3

Approved D.KENDERDINE	Revision A
Status FOR CONSENT	
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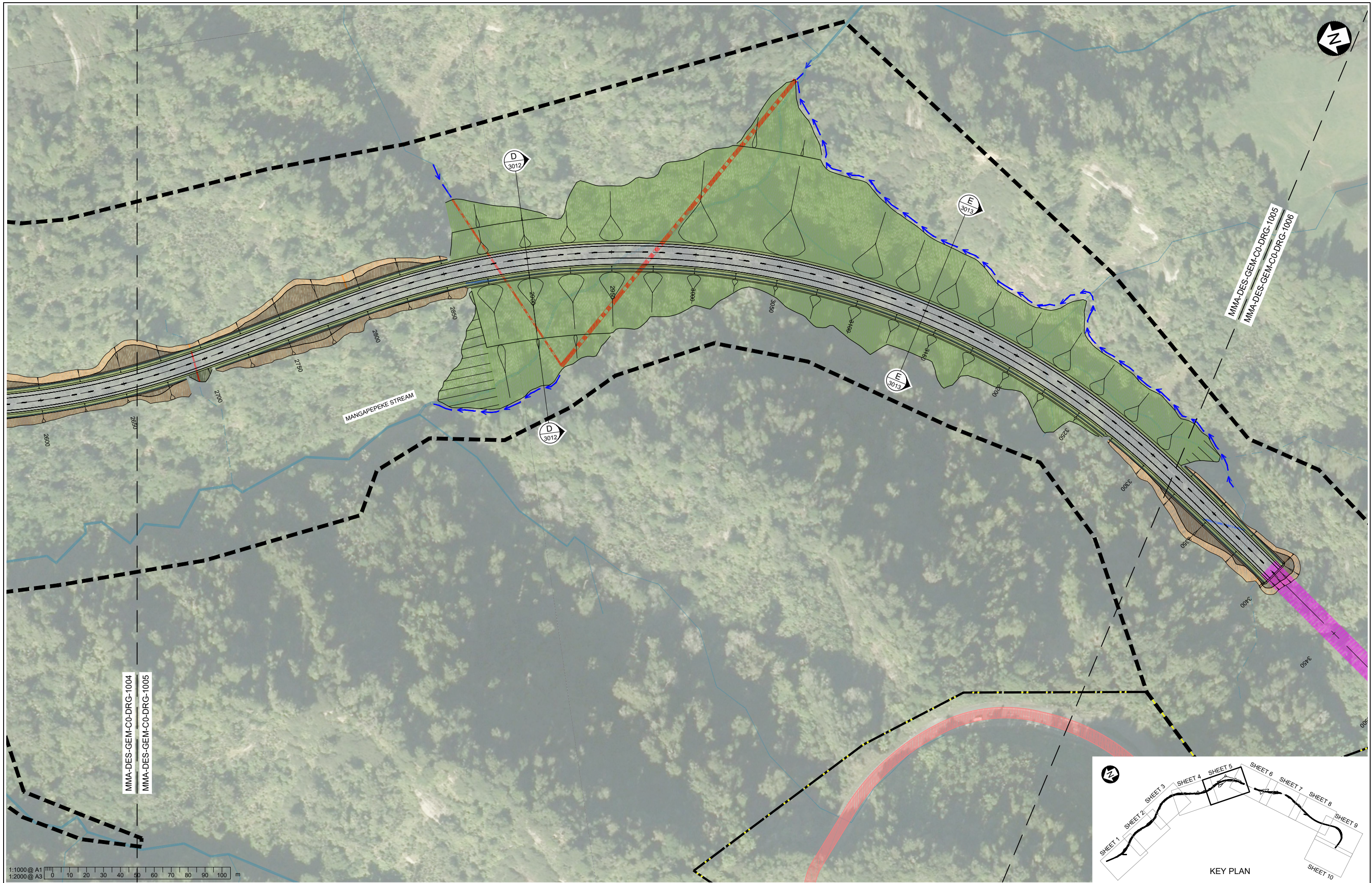
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Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1



MT MESSENGER BYPASS
GEOMETRICS
GENERAL ARRANGEMENT
SHEET 4

Approved	D.KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-GEM-CO-DRG-1004
Revision	A



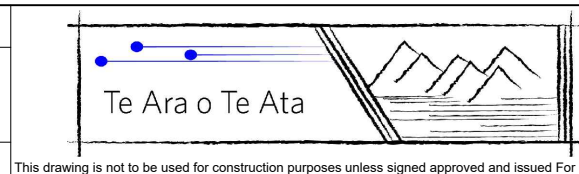
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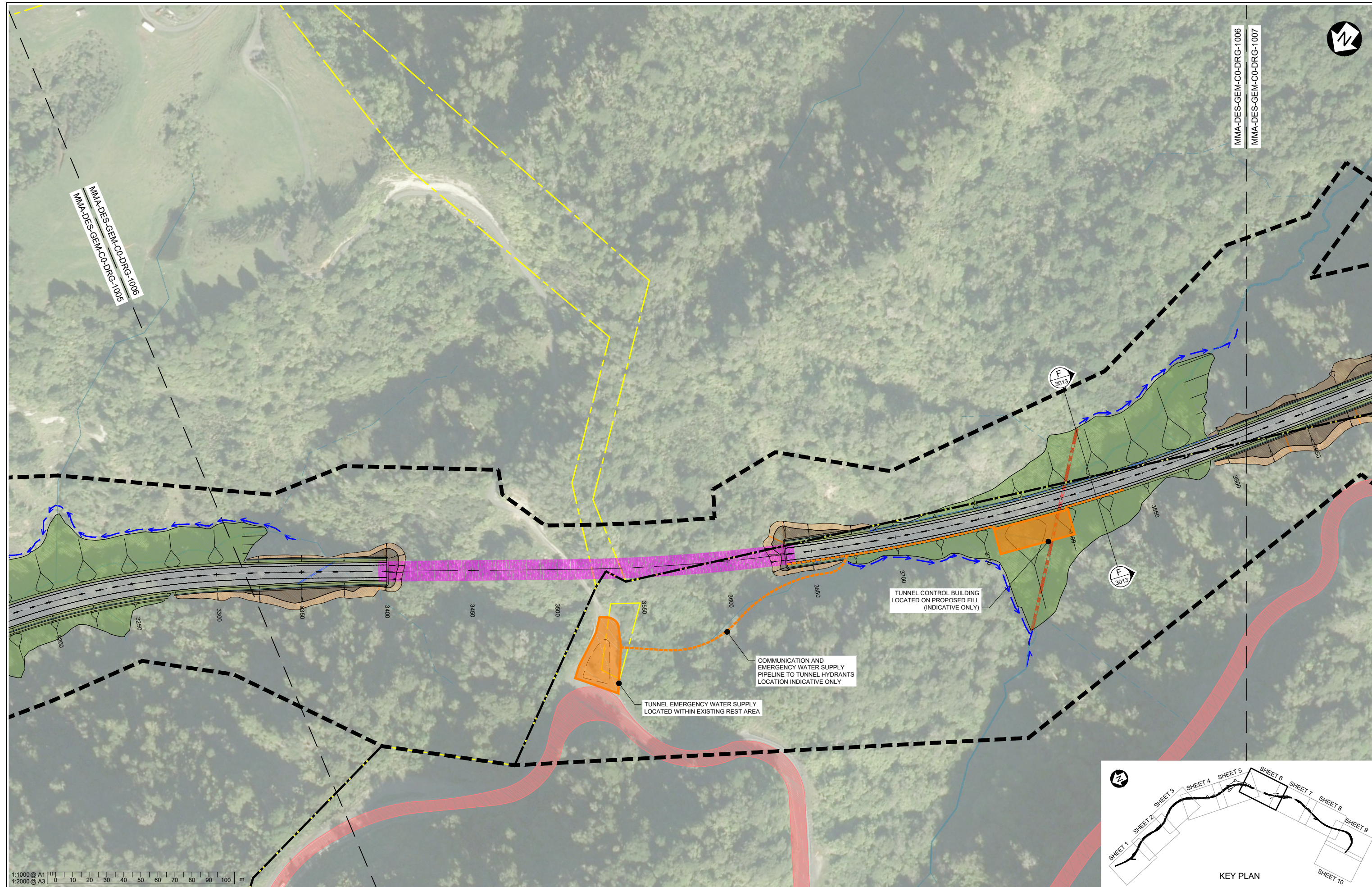
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Scales 1:2000 (A3) 1:1000 (A1)
Original Size A1



MT MESSENGER BYPASS
GEOMETRICS
GENERAL ARRANGEMENT
SHEET 5

Approved D.KENDERDINE	Revision A
Status FOR CONSENT	
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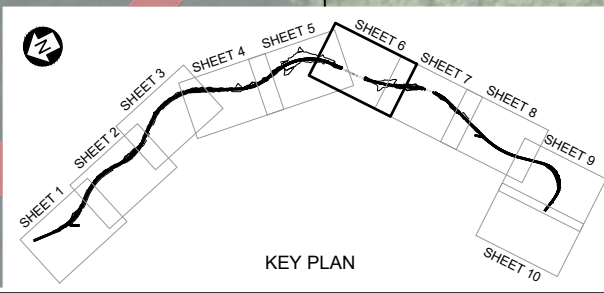
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MMA-DES-GEM-C0-DRG-1007

MMA-DES-GEM-C0-DRG-1006
MMA-DES-GEM-C0-DRG-1005

TUNNEL CONTROL BUILDING
LOCATED ON PROPOSED FILL
(INDICATIVE ONLY)

COMMUNICATION AND
EMERGENCY WATER SUPPLY
PIPELINE TO TUNNEL HYDRANTS
LOCATION INDICATIVE ONLY

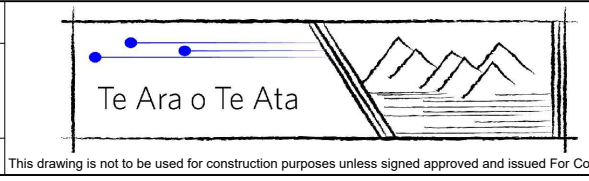
TUNNEL EMERGENCY WATER SUPPLY
LOCATED WITHIN EXISTING REST AREA



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1:2000 @ A3

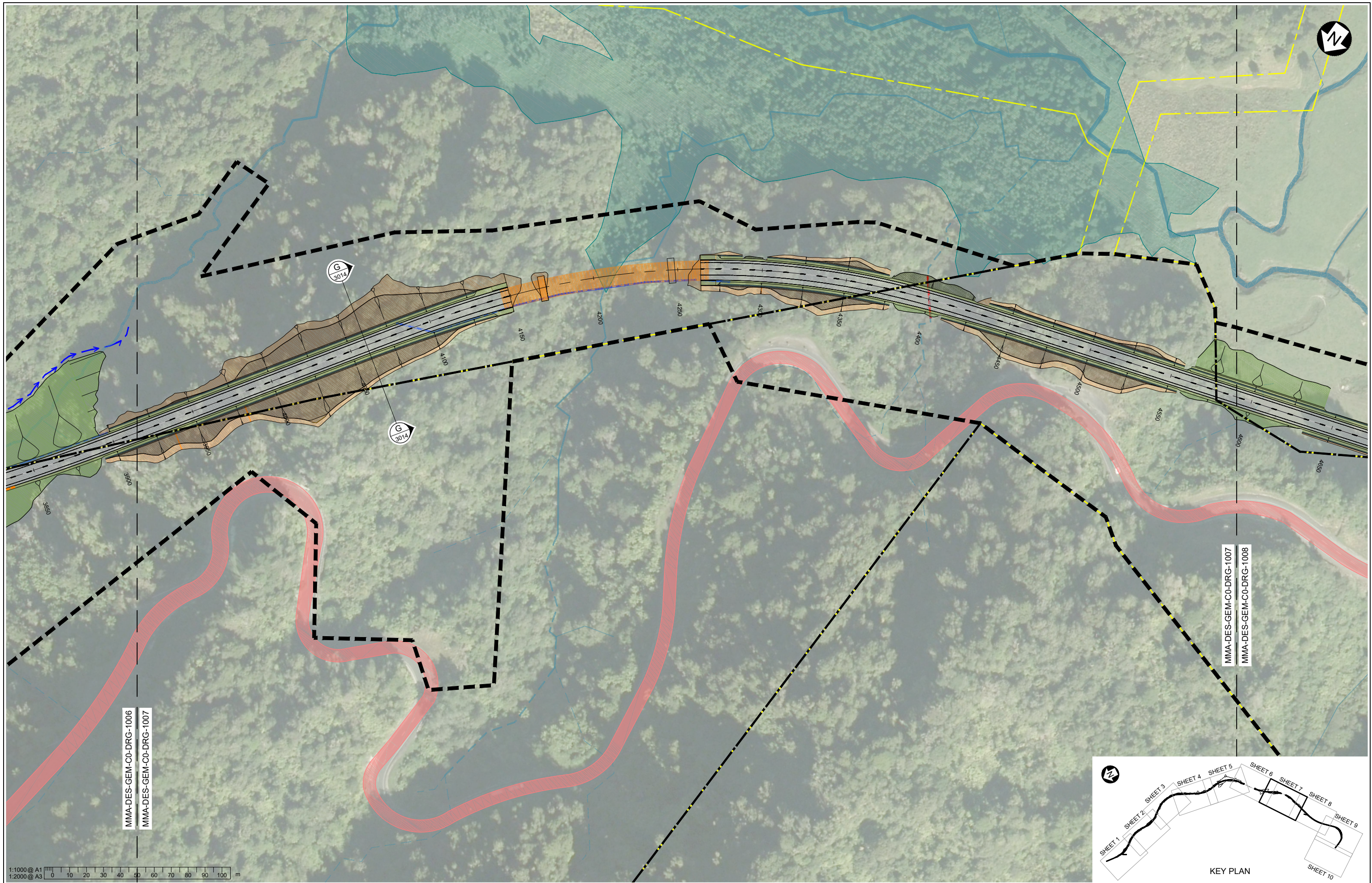
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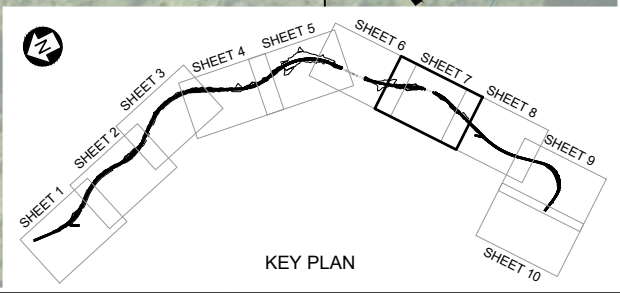
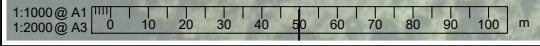
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GEOMETRICS
GENERAL ARRANGEMENT
SHEET 6

Approved
D.KENDERDINE
Status
FOR CONSENT
Drawing Number
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Revision
A



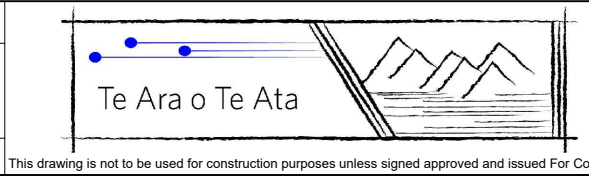
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MMA-DES-GEM-CO-DRG-1007

MMA-DES-GEM-CO-DRG-1007
MMA-DES-GEM-CO-DRG-1008



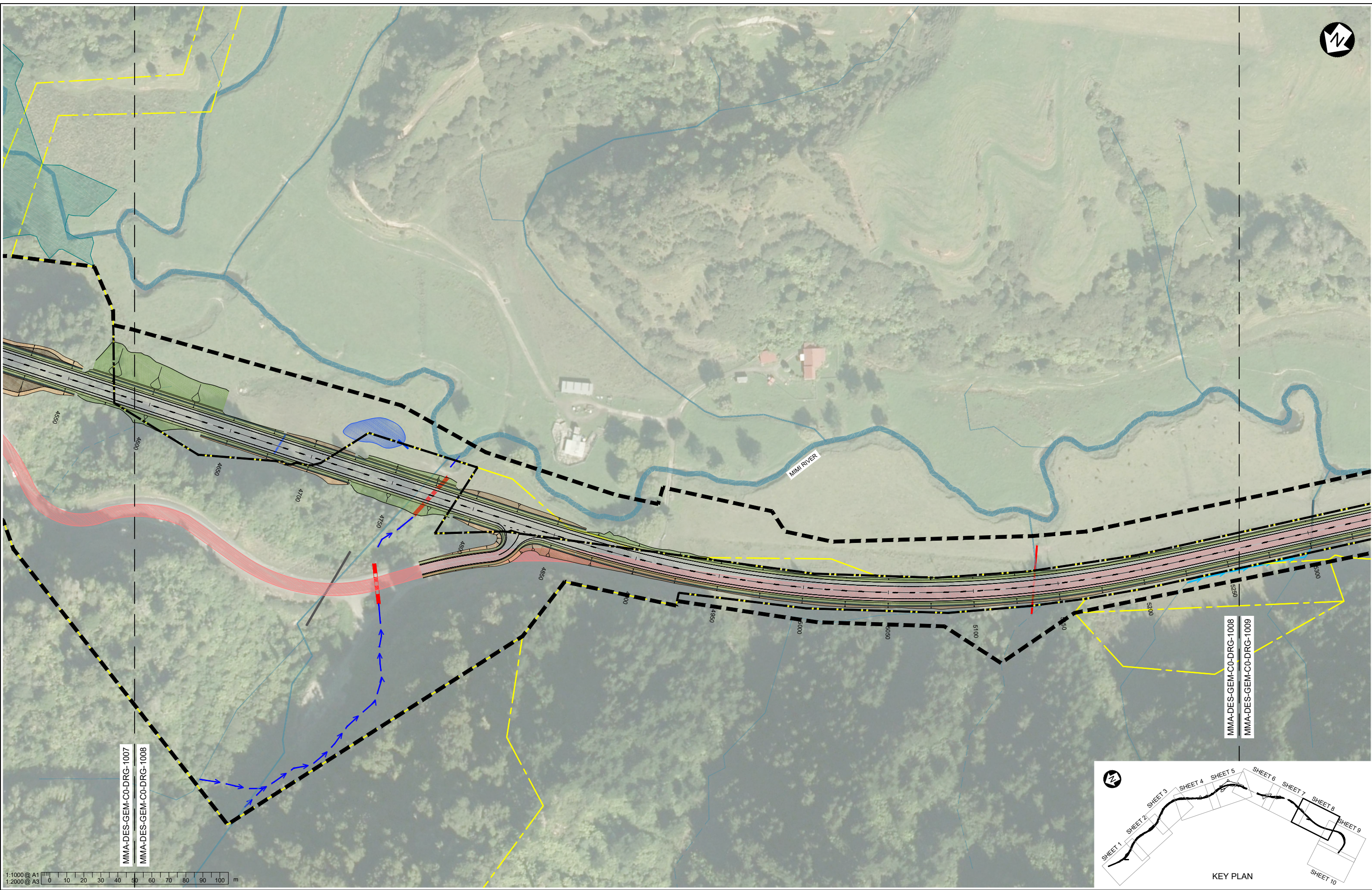
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A	FOR CONSENT	QDO'S	WHE	GC	LG	LG	14/11/2017

Tab	MMA-DES-GEM-CO-DRG-1007
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Original Size	A1



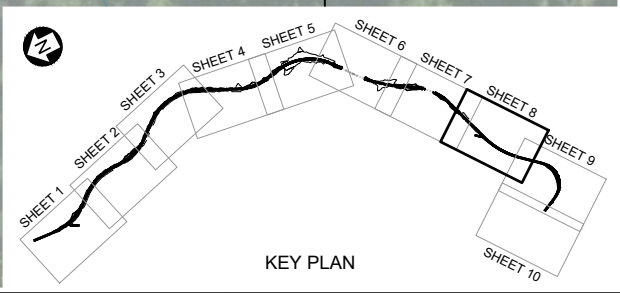
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GEOMETRICS
GENERAL ARRANGEMENT
SHEET 7

Approved	D.KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-GEM-CO-DRG-1007
Revision	A



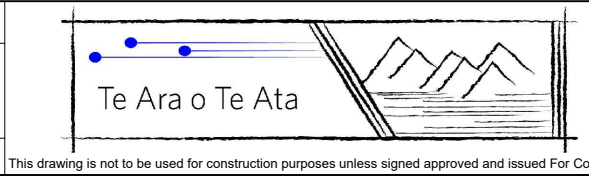
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MMA-DES-GEM-CO-DRG-1008
MMA-DES-GEM-CO-DRG-1009



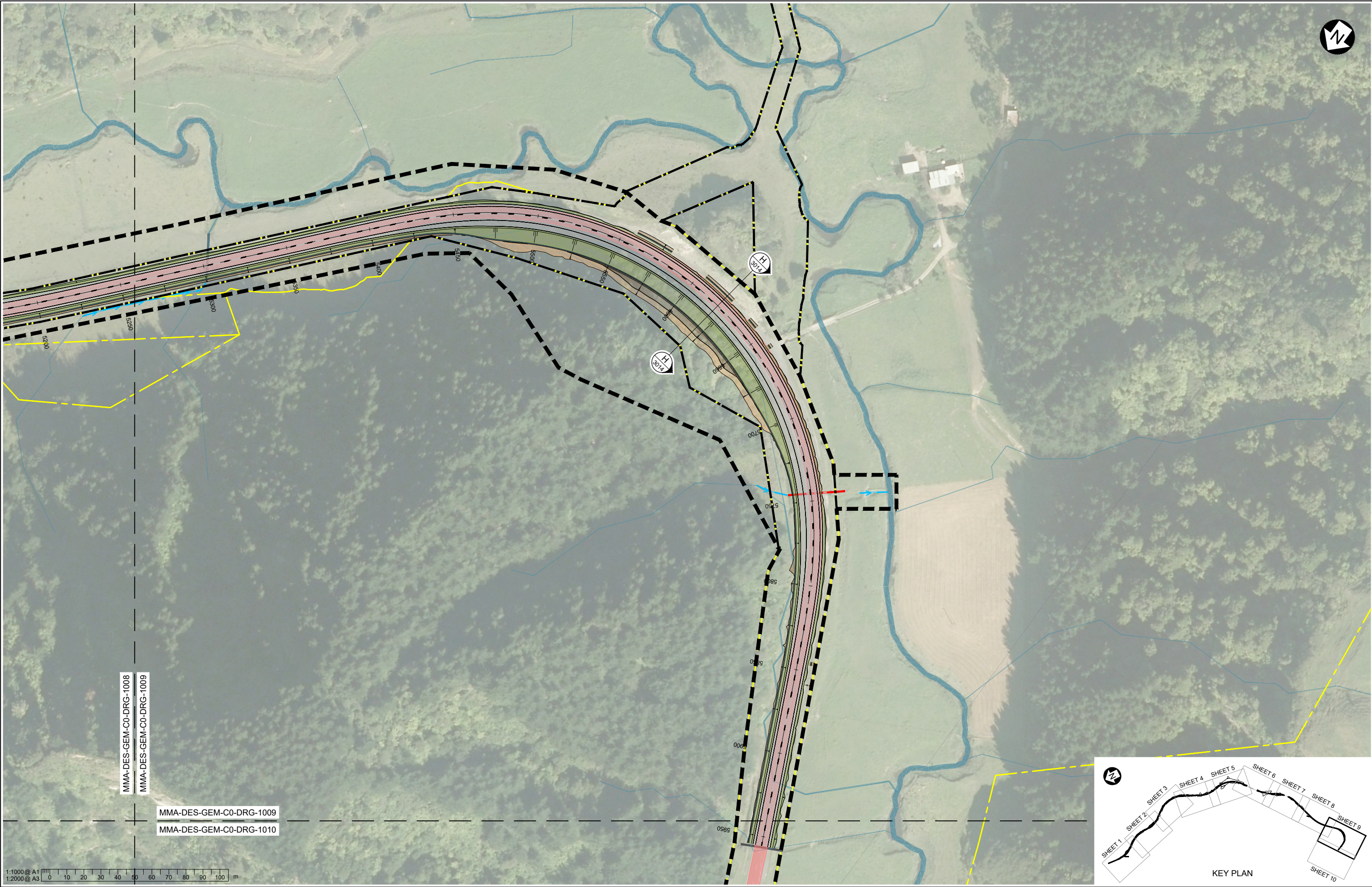
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Drawn		Drawn	Checked	Designed	Design Checked	Approved	Date

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Original Size	A1



MT MESSENGER BYPASS
GEOMETRICS
GENERAL ARRANGEMENT
SHEET 8

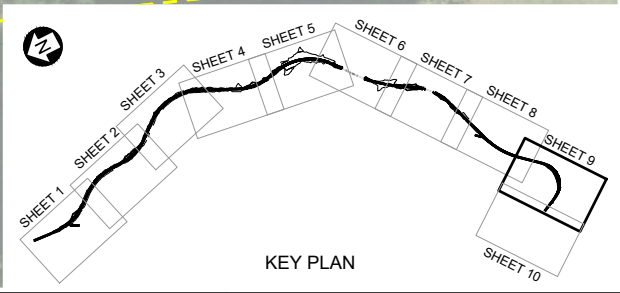
Approved
D.KENDERDINE
Status
FOR CONSENT
Drawing Number
MMA-DES-GEM-CO-DRG-1008
Revision
A



MMA-DES-GEM-C0-DRG-1008
MMA-DES-GEM-C0-DRG-1009

MMA-DES-GEM-C0-DRG-1009
MMA-DES-GEM-C0-DRG-1010

1:1000 @ A1
1:2000 @ A3
0 10 20 30 40 50 60 70 80 90 100 m



Rev	Revision Description	Drawn	Checked	Designed	Design Checked	Approved	Date
A	FOR CONSENT	QDO'S	WHE	GC	LG	LG	14/11/2017

Tab	MMA-DES-GEM-C0-DRG-1009
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Original Size	A1

Te Ara o Te Ata

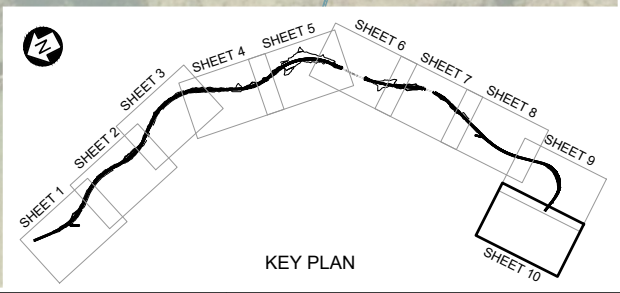
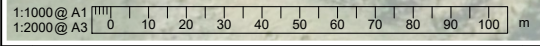
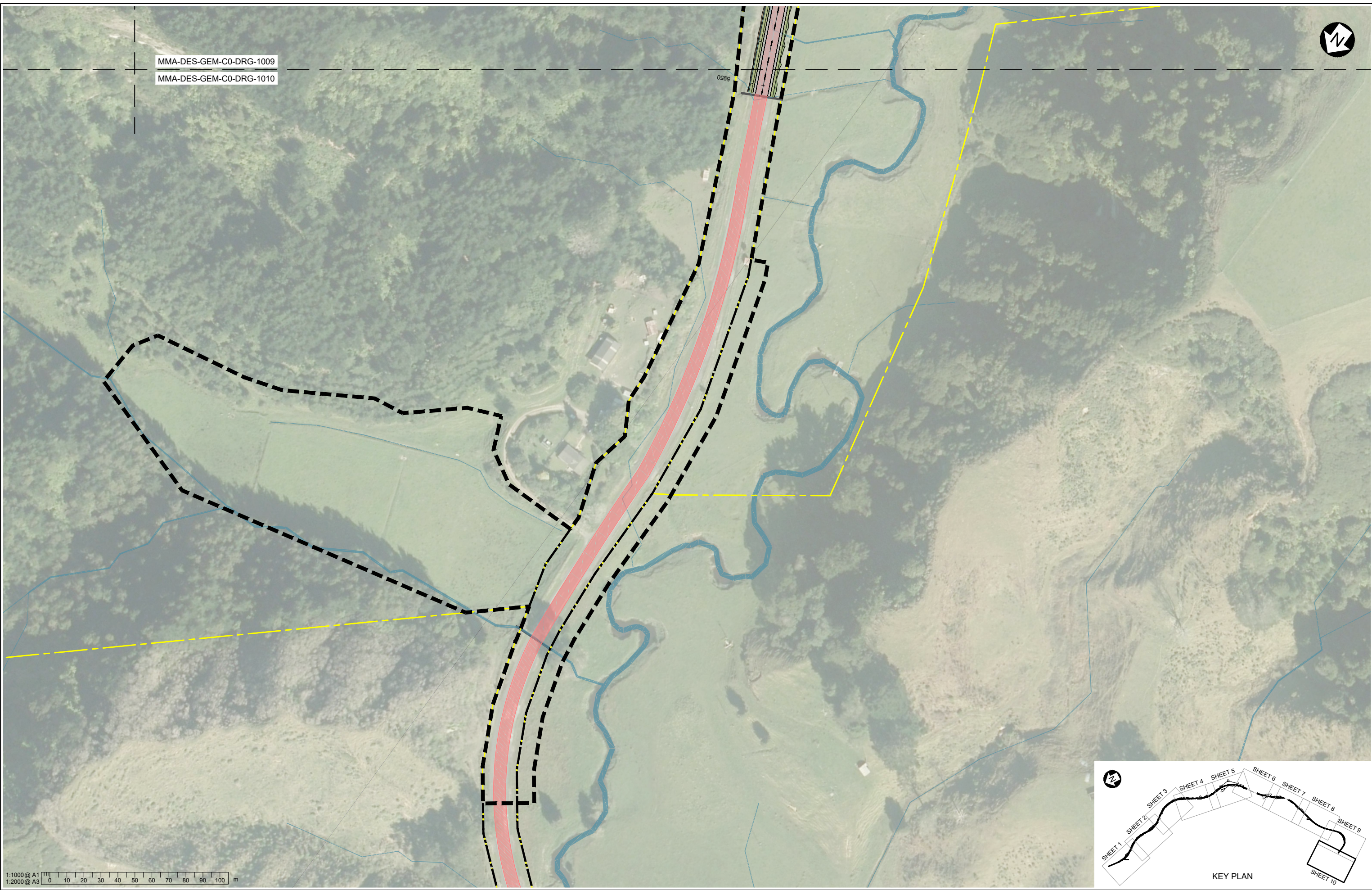
This drawing is not to be used for construction purposes unless signed approved and issued For Construction

MT MESSENGER BYPASS
GEOMETRICS
GENERAL ARRANGEMENT
SHEET 9

Approved	D.KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-GEM-C0-DRG-1009
Revision	A

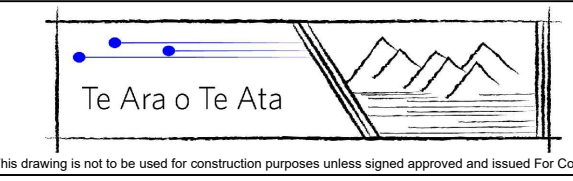
MMA-DES-GEM-C0-DRG-1009

MMA-DES-GEM-C0-DRG-1010



Rev	Revision Description	Drawn	Checked	Designed	Design Checked	Approved	Date
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Original Size	A1



MT MESSENGER BYPASS
GEOMETRICS
GENERAL ARRANGEMENT
SHEET 10

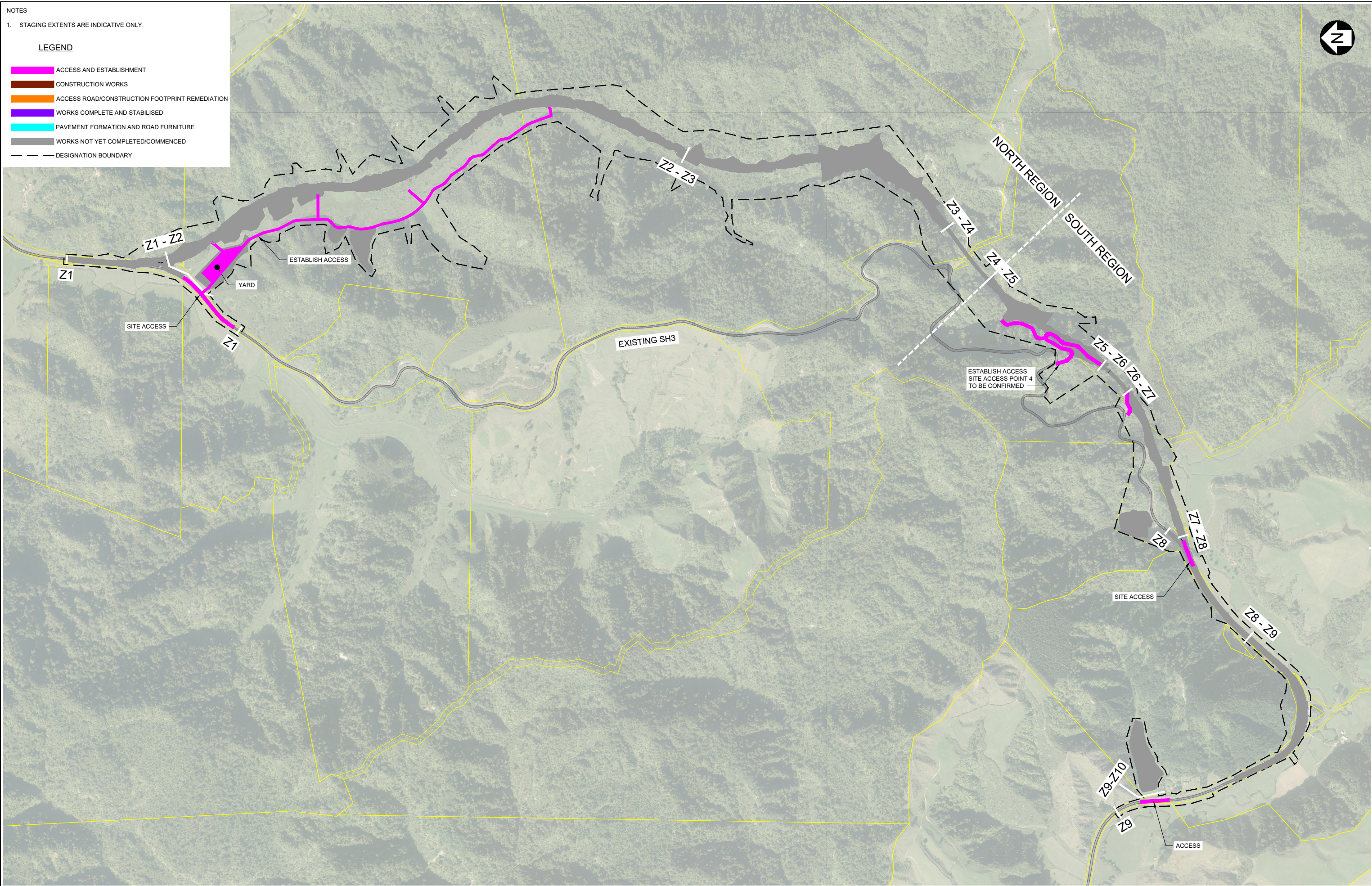
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Drawing Number	MMA-DES-GEM-C0-DRG-1010
Revision	A

NOTES

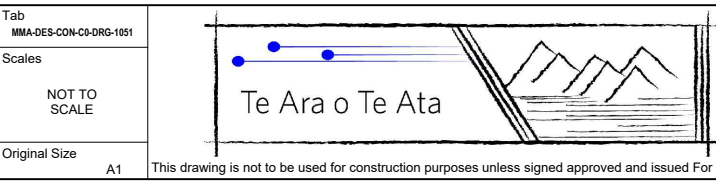
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LEGEND

- ACCESS AND ESTABLISHMENT
- CONSTRUCTION WORKS
- ACCESS ROAD/CONSTRUCTION FOOTPRINT REMEDIATION
- WORKS COMPLETE AND STABILISED
- PAVEMENT FORMATION AND ROAD FURNITURE
- WORKS NOT YET COMPLETED/COMMENCED
- DESIGNATION BOUNDARY



Tab MMA-DES-CON-C0-DRG-1051	QDO'S	WHE	SPP	HM	LG	14/11/2017
Scales NOT TO SCALE	Draw	Drawing Checked	Designed	Design Checked	Approved	Date
Original Size A1	This drawing is not to be used for construction purposes unless signed approved and issued For Construction					



MT MESSENGER BYPASS
CONSTRUCTION
STAGE 1 - APPROX. 6 MONTHS
ACCESS AND ESTABLISHMENT

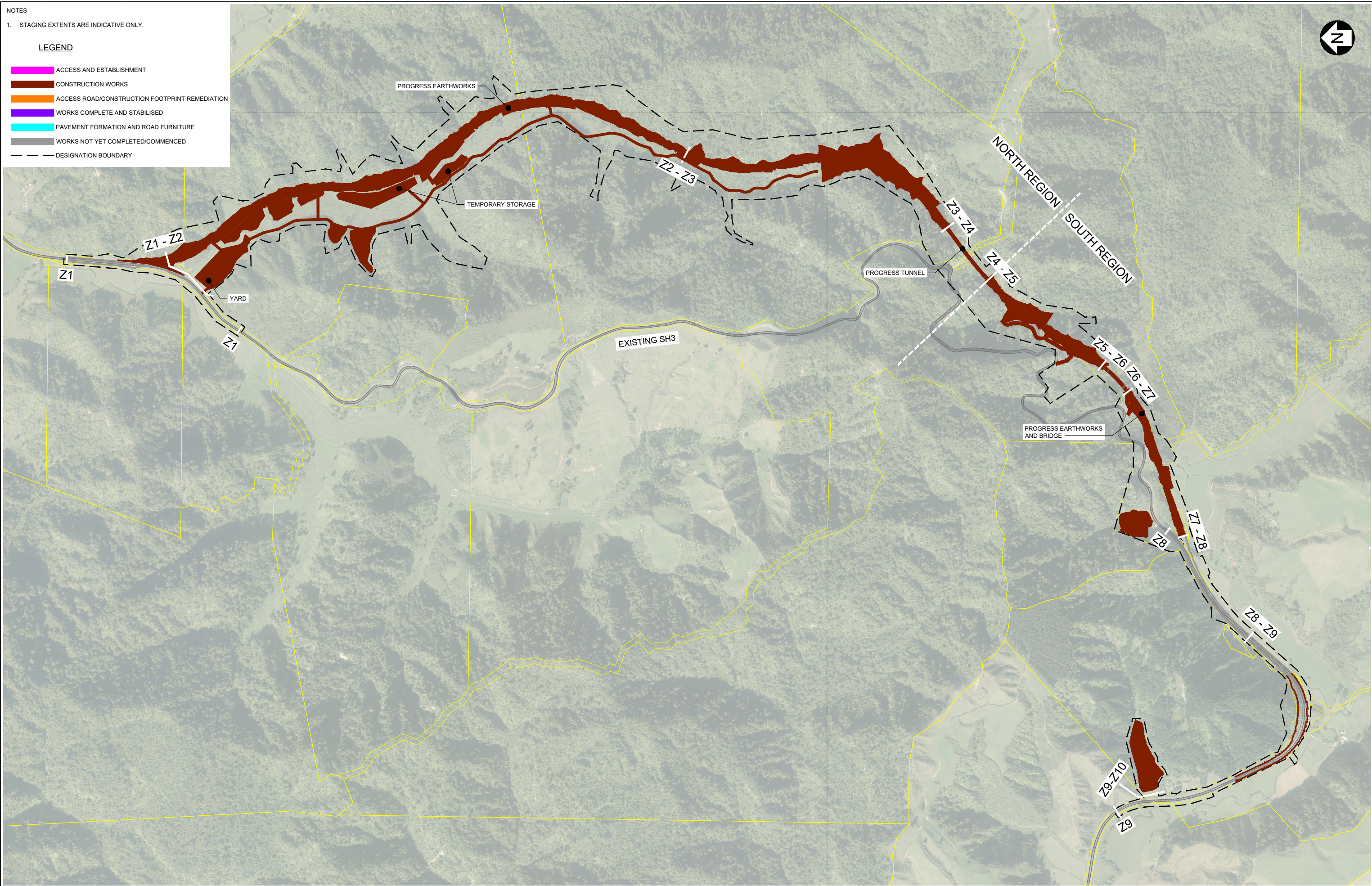
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Status FOR CONSENT
Drawing Number MMA-DES-CON-C0-DRG-1051
Revision A

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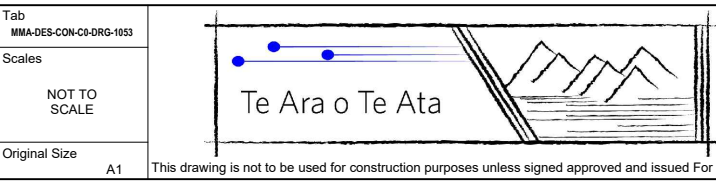
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LEGEND

- ACCESS AND ESTABLISHMENT
- CONSTRUCTION WORKS
- ACCESS ROAD/CONSTRUCTION FOOTPRINT REMEDIATION
- WORKS COMPLETE AND STABILISED
- PAVEMENT FORMATION AND ROAD FURNITURE
- WORKS NOT YET COMPLETED/COMMENCED
- DESIGNATION BOUNDARY



Tab MMA-DES-CON-C0-DRG-1053	QDO'S	WHE	SPP	HM	LG	14/11/2017
Scales NOT TO SCALE	Drawn	Drawing Checked	Designed	Design Checked	Approved	Date
Original Size A1	This drawing is not to be used for construction purposes unless signed approved and issued For Construction					



MT MESSENGER BYPASS
CONSTRUCTION
STAGE 3 - BETWEEN 12 - 24 MONTHS
EARTHWORKS, TUNNEL AND BRIDGE

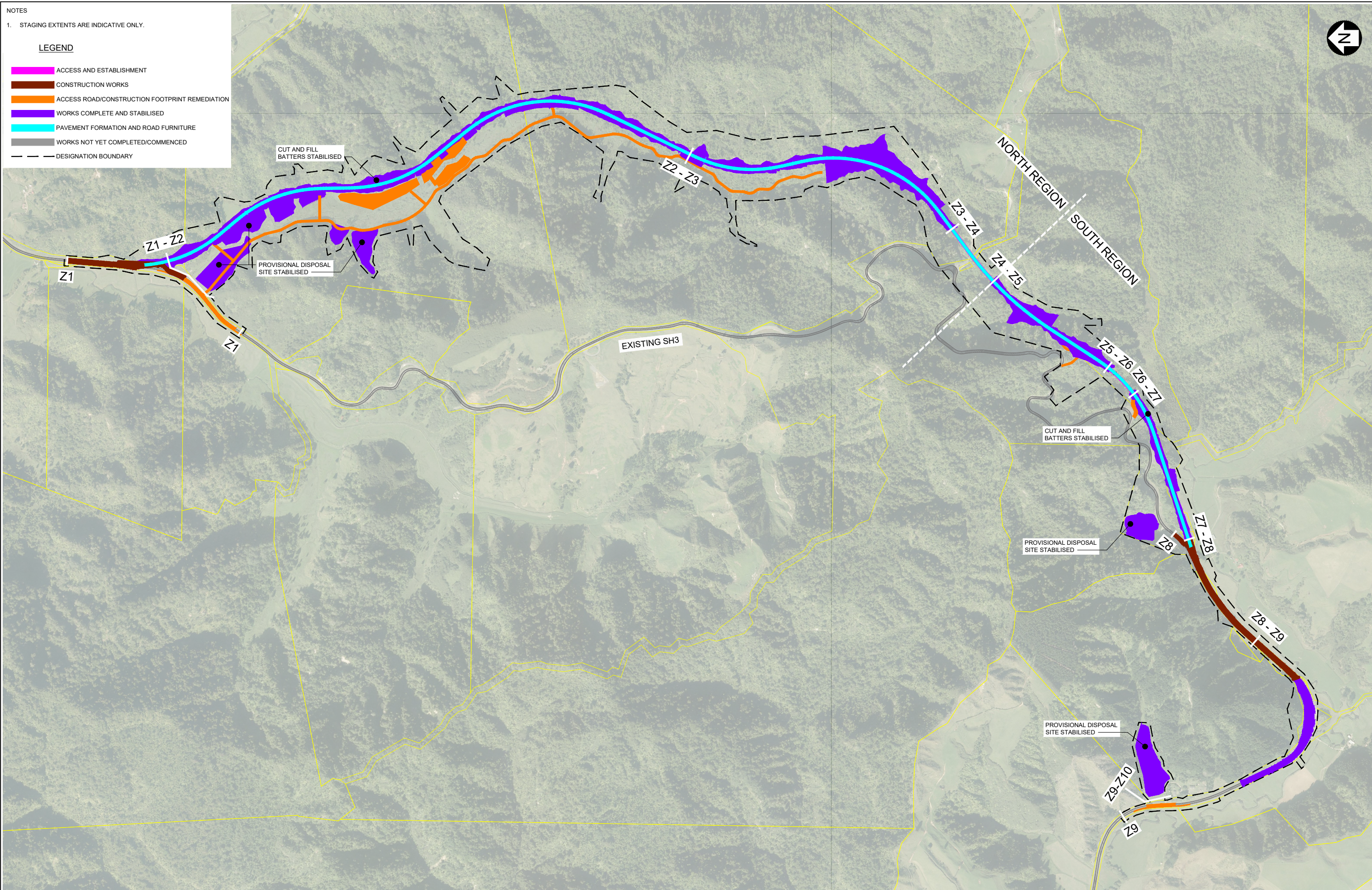
Approved D. KENDERDINE
Status FOR CONSENT
Drawing Number MMA-DES-CON-C0-DRG-1053
Revision A

NOTES

1. STAGING EXTENTS ARE INDICATIVE ONLY.

LEGEND

- ACCESS AND ESTABLISHMENT
- CONSTRUCTION WORKS
- ACCESS ROAD/CONSTRUCTION FOOTPRINT REMEDIATION
- WORKS COMPLETE AND STABILISED
- PAVEMENT FORMATION AND ROAD FURNITURE
- WORKS NOT YET COMPLETED/COMMENCED
- DESIGNATION BOUNDARY



Tab	MMA-DES-CON-C0-DRG-1054						
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Original Size	A1						
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Te Ara o Te Ata

MT MESSENGER BYPASS

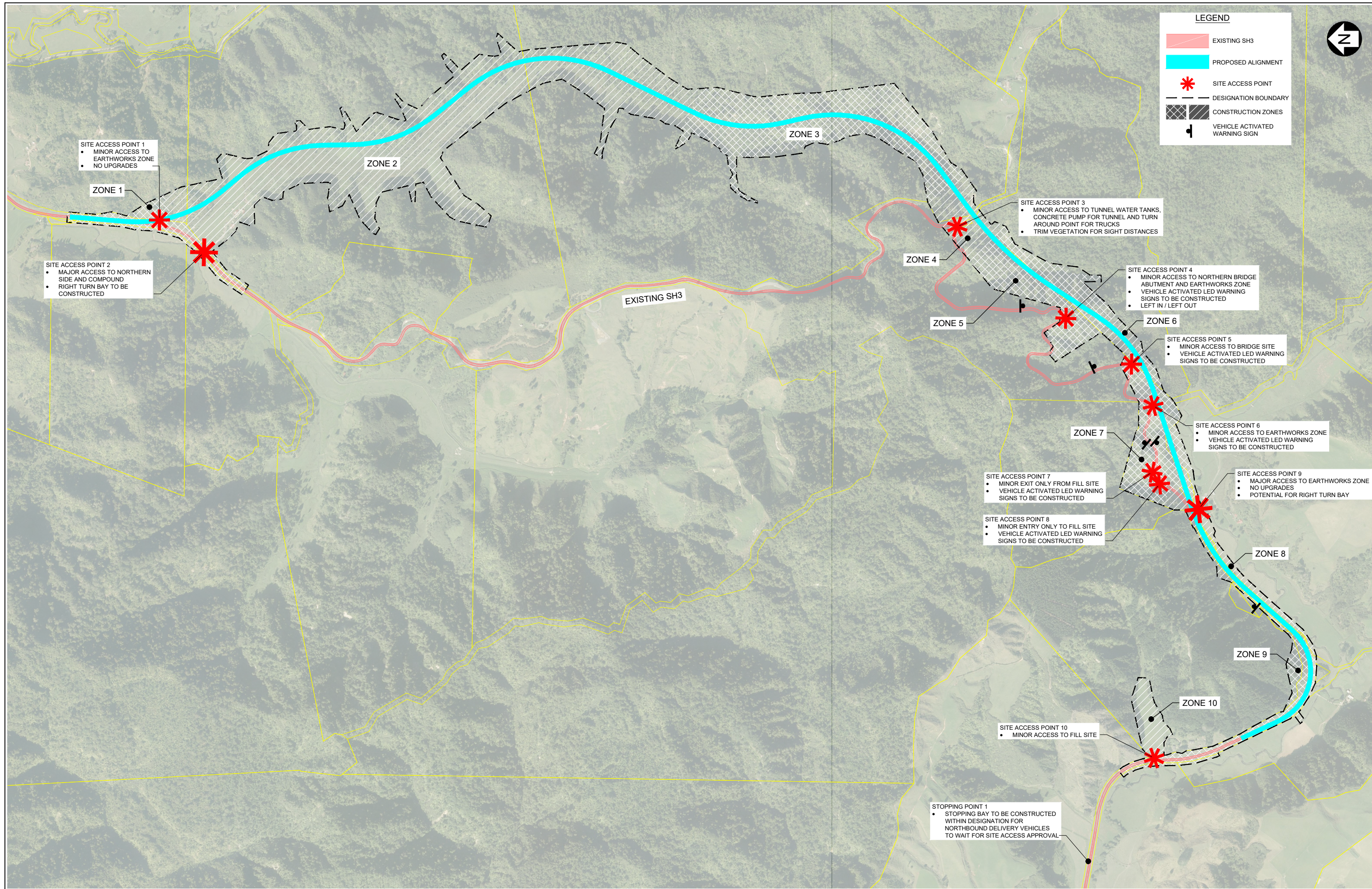
CONSTRUCTION

STAGE 4 - AT APPROX. 30 MONTHS

STABILISATION

Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-CON-C0-DRG-1054
Revision	A

Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-CON-C0-DRG-1054
Revision	A



LEGEND

	EXISTING SH3
	PROPOSED ALIGNMENT
	SITE ACCESS POINT
	DESIGNATION BOUNDARY
	CONSTRUCTION ZONES
	VEHICLE ACTIVATED WARNING SIGN

Tab	MMA-DES-CON-C0-DRG-1010						
Scales	NOT TO SCALE						
Original Size	A1						
Rev	Revision Description	Drawn	Checked	Designed	Design Checked	Approved	Date
B	MINOR AMENDMENTS TO LABELS	QDO'S	WHE	RSG	HM	LG	24/05/2018
A	FOR CONSENT	QDO'S	WHE	RSG	HM	LG	14/11/2017

Te Ara o Te Ata

NZ TRANSPORT AGENCY
WAKA KOTAHĪ
Mt Messenger Bypass

MT MESSENGER BYPASS

CONSTRUCTION SITE ACCESS POINTS

Approved
D. KENDERDINE

Status
FOR CONSENT

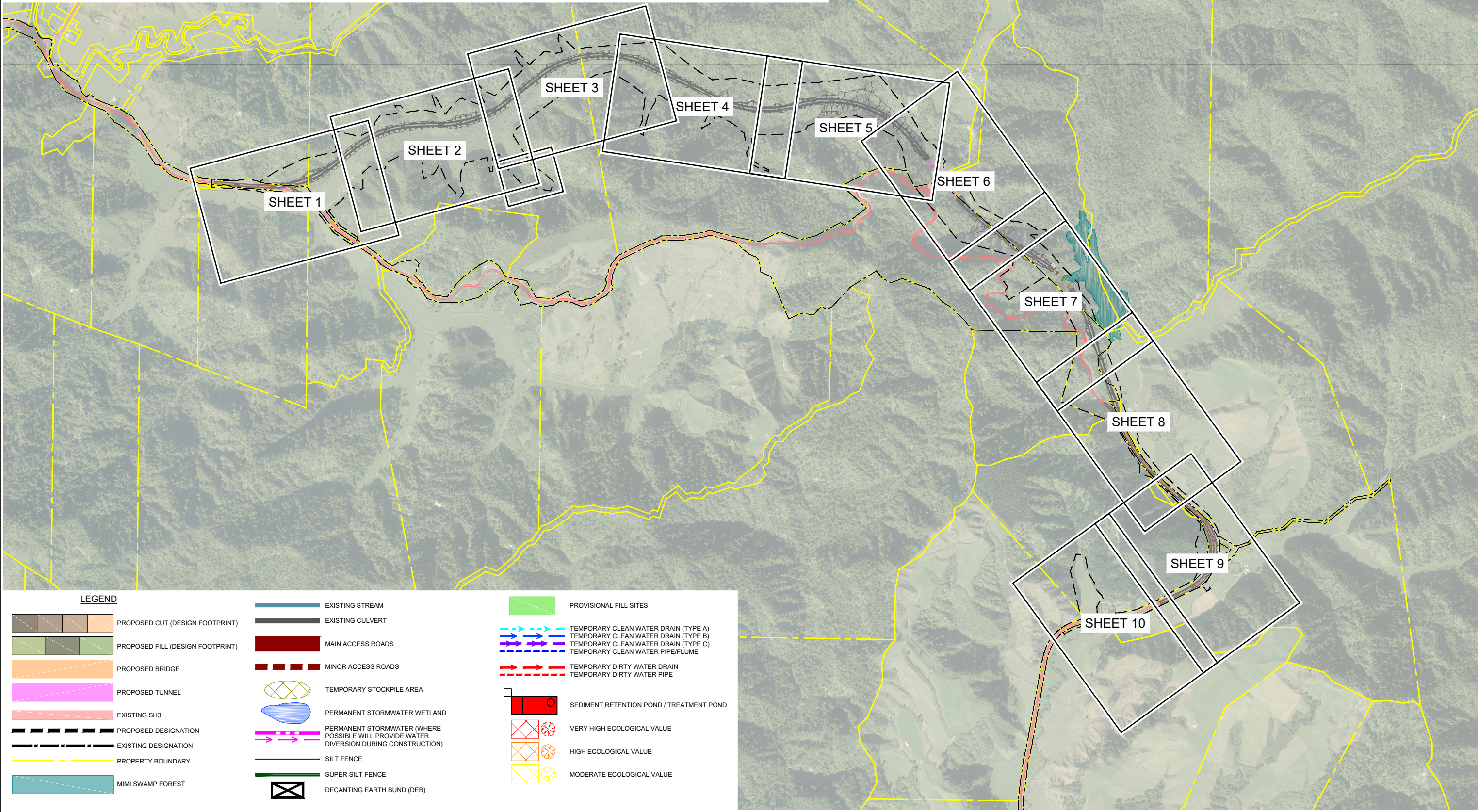
Drawing Number
MMA-DES-CON-C0-DRG-1010

Revision
B

CONCEPTUAL PLANS DESCRIBE EROSION AND SEDIMENT CONTROL FOR MAIN CONSTRUCTION WORKS ONLY. PLANS TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION WATER MANAGEMENT PLAN (CWMP)

NOTES

- SILT FENCE AND SUPERSILT FENCE ARE THE PRIMARY TREATMENT FOR LINEAR SHAPING EARTHWORKS.
- SEDIMENT RETENTION PONDS ARE THE PRIMARY TREATMENT FOR CUT AND FILL EARTHWORKS. SEDIMENT POND VOLUMES SHOWN ARE SIZED IN ACCORDANCE WITH NZTA GUIDELINES TO APPROXIMATELY 2.6% OF THE CATCHMENT (FINAL VOLUME TO BE CONFIRMED)
- ALL SEDIMENT RETENTION PONDS DISCHARGE TO LAND A MINIMUM DISTANCE OF 5m FROM AN ACTIVE STREAM CHANNEL WHERE PRACTICABLE.
- WHERE NOTED SEDIMENT RETENTION PONDS MAY BE REPLACED WITH CONTAINER IMPOUNDMENT SYSTEMS (CIS), BUT THIS WILL REQUIRE A SPECIFIC ASSESSMENT OF SUITABILITY PRIOR TO IMPLEMENTATION.
- SILT FENCE WILL BE INSTALLED AROUND ALL TEMPORARY STOCKPILE SITES.
- ACCESS ROADS CONSTRUCTED USING CUT AND COVER METHODOLOGIES. DECANTING EARTH BUNDS (DEB) TREATING ACCESS ROAD SURFACE.
- REFER TO DRAWING MMA-DES-ESC-C0-DRG-4006 FOR TYPE A, B AND C CLEAN WATER DRAIN DETAILS.
- DESIGN GUIDELINES FOR ALL EROSION AND SEDIMENT CONTROLS (ESC) TO FOLLOW NZTA GUIDELINES WHERE PRACTICABLE. SEDIMENT RETENTION PONDS LOCATED WITHIN THE FLOOD PLAIN TO BE SPECIFICALLY DESIGNED.
- PROGRESSIVE STABILISATION IN ACCORDANCE WITH THE CONSTRUCTION WATER MANAGEMENT PLAN TO APPLY.
- ADAPTIVE MONITORING IN ACCORDANCE WITH THE CONSTRUCTION WATER MANAGEMENT PLAN TO APPLY.
- PROVISIONAL FILL SITES MAY BE USED FOR TEMPORARY STOCKPILING AS REQUIRED. REFER CONSTRUCTION WATER MANAGEMENT PLAN FOR EROSION AND SEDIMENT CONTROL OF PROVISIONAL FILL SITES.
- SELECTION OF STORAGE AND STOCKPILE LOCATIONS FOR LOGS AND WOODY MATERIAL SHALL BE IN ACCORDANCE WITH THE ECOLOGY AND LANDSCAPE MANAGEMENT PLAN.
- REFER ECOLOGY AND LANDSCAPE MANAGEMENT PLAN FOR REQUIREMENTS AT AREAS OF IDENTIFIED ECOLOGICAL VALUE.

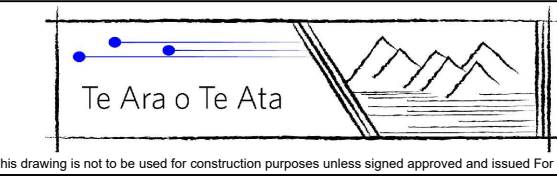


LEGEND

	PROPOSED CUT (DESIGN FOOTPRINT)		EXISTING STREAM		PROVISIONAL FILL SITES
	PROPOSED FILL (DESIGN FOOTPRINT)		EXISTING CULVERT		TEMPORARY CLEAN WATER DRAIN (TYPE A)
	PROPOSED BRIDGE		MAIN ACCESS ROADS		TEMPORARY CLEAN WATER DRAIN (TYPE B)
	PROPOSED TUNNEL		MINOR ACCESS ROADS		TEMPORARY CLEAN WATER DRAIN (TYPE C)
	EXISTING SH3		TEMPORARY STOCKPILE AREA		TEMPORARY CLEAN WATER PIPE/FLUME
	PROPOSED DESIGNATION		PERMANENT STORMWATER WETLAND		TEMPORARY DIRTY WATER DRAIN
	EXISTING DESIGNATION		PERMANENT STORMWATER (WHERE POSSIBLE WILL PROVIDE WATER DIVERSION DURING CONSTRUCTION)		TEMPORARY DIRTY WATER PIPE
	PROPERTY BOUNDARY		SILT FENCE		SEDIMENT RETENTION POND / TREATMENT POND
	MIMI SWAMP FOREST		SUPER SILT FENCE		VERY HIGH ECOLOGICAL VALUE
			DECANTING EARTH BUND (DEB)		HIGH ECOLOGICAL VALUE
					MODERATE ECOLOGICAL VALUE

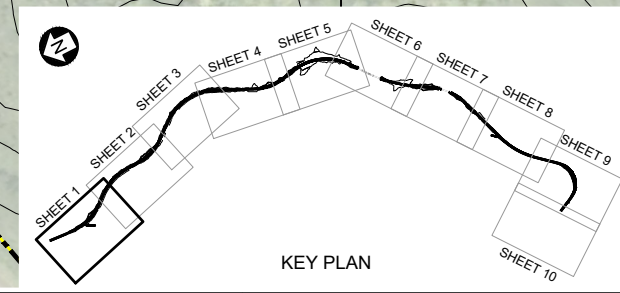
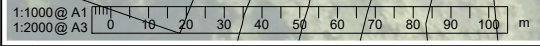
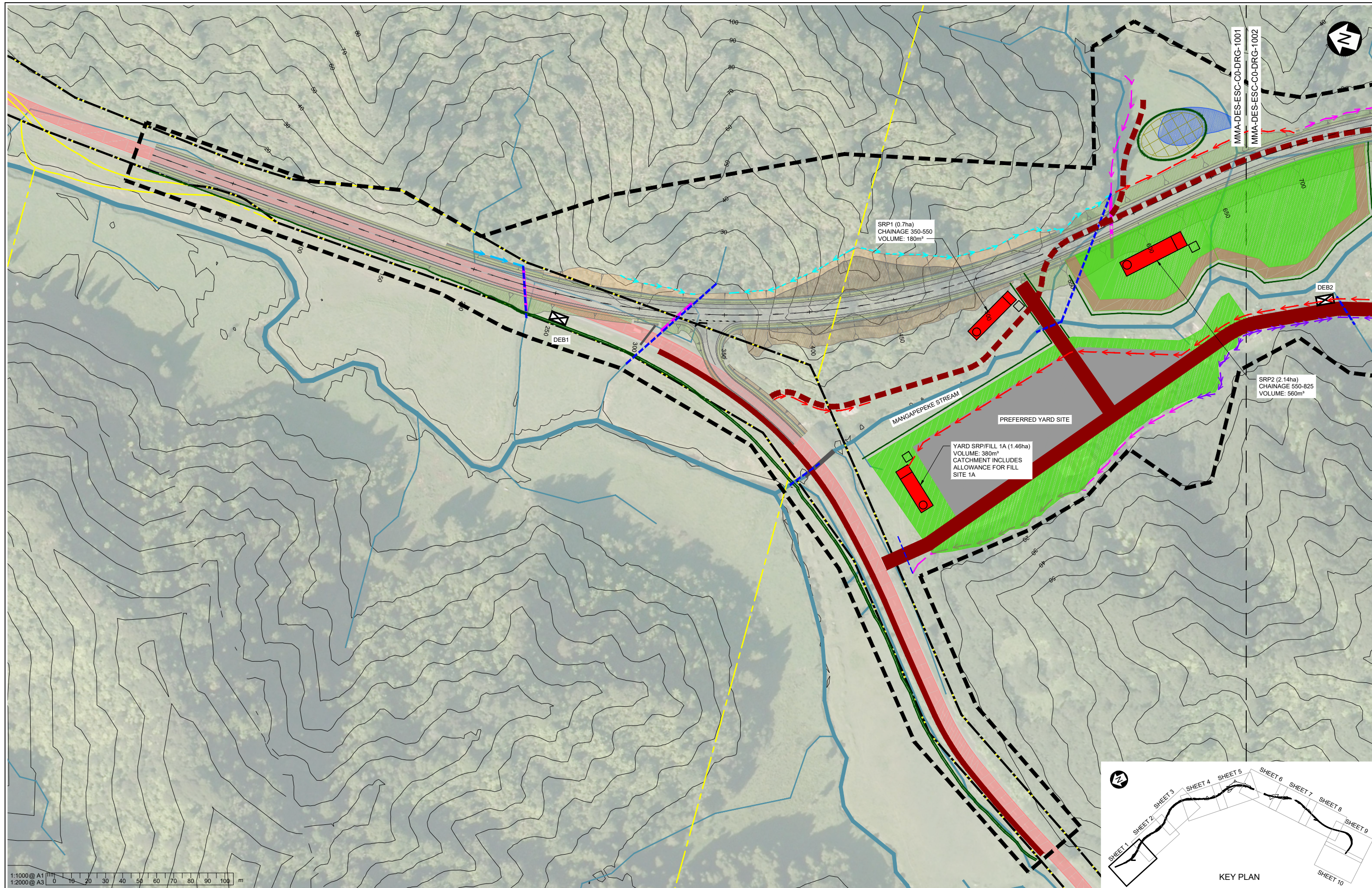
Rev	Revision Description	Drawn	Checked	Designed	Design Checked	Approved	Date
C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1000
Scales	NOT TO SCALE
Original Size	A1



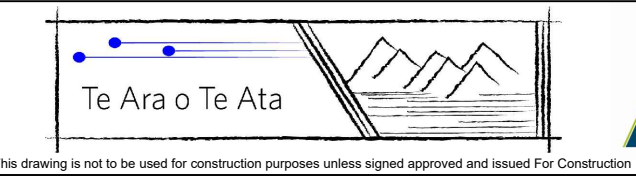
MT MESSENGER BYPASS
EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET LAYOUT

Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-ESC-C0-DRG-1000
Revision	C



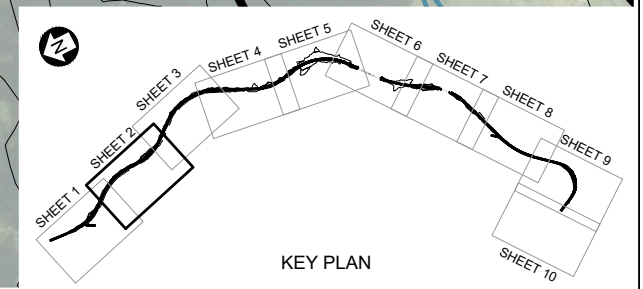
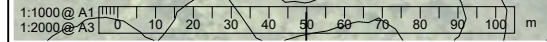
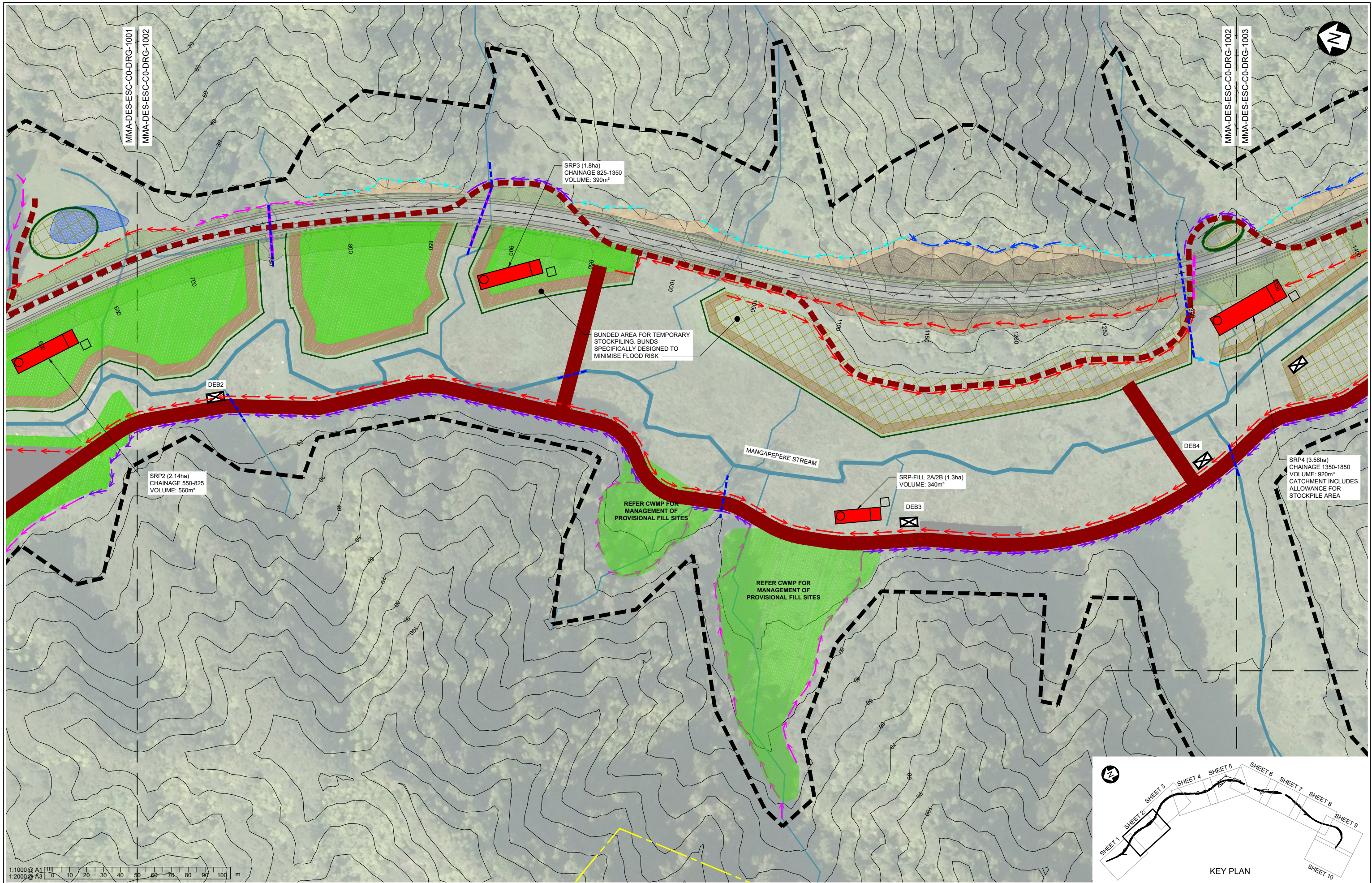
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C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1001
Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1



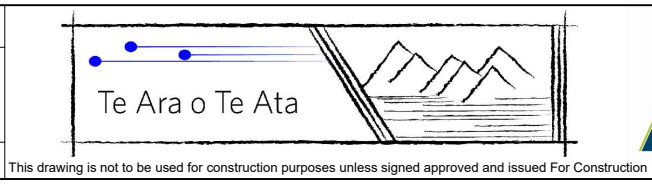
MT MESSENGER BYPASS
EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET 1

Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-ESC-C0-DRG-1001
Revision	C



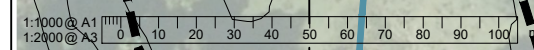
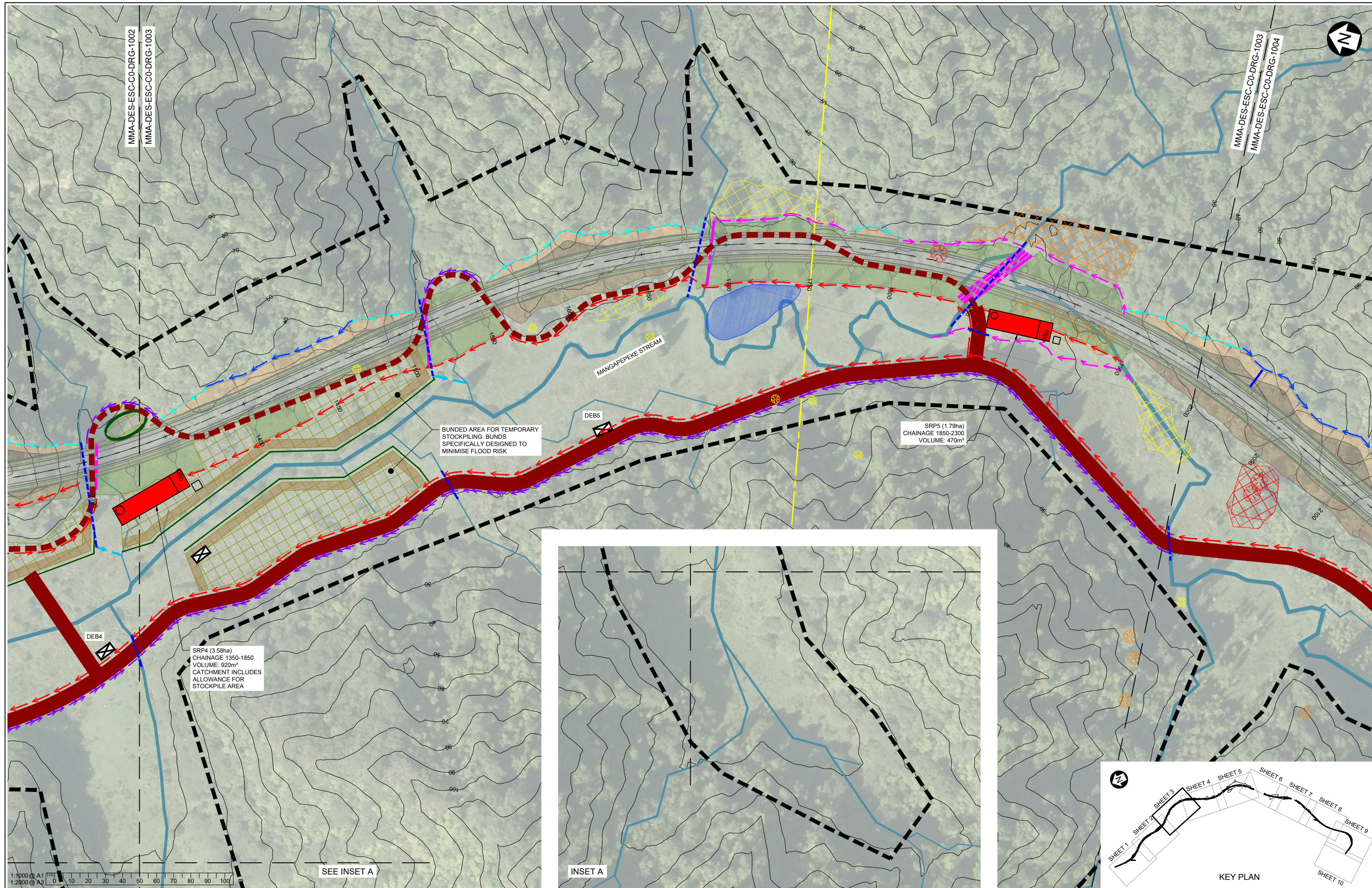
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B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1002
Scales	1:2000 (A3) 1:1000 (A1)
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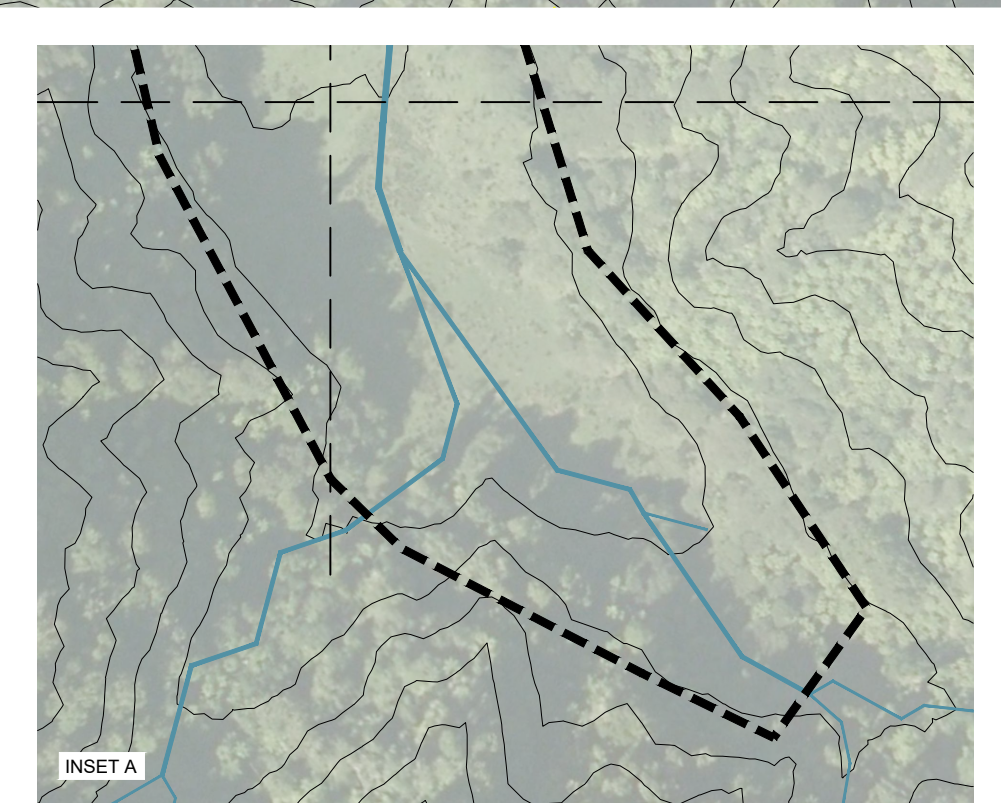


MT MESSENGER BYPASS
EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET 2

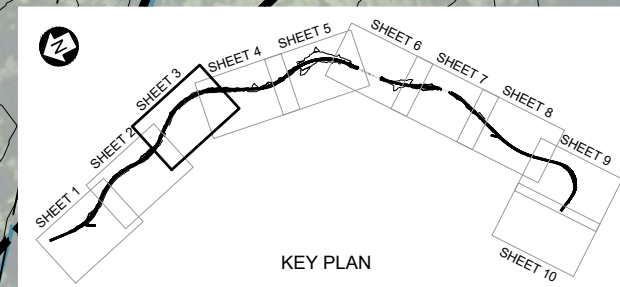
Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-ESC-C0-DRG-1002
Revision	C



SEE INSET A



INSET A



KEY PLAN

Rev	Revision Description	Drawn	Drawing Checked	Designed	Design Checked	Approved	Date
C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1003
Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1

Te Ara o Te Ata

This drawing is not to be used for construction purposes unless signed approved and issued For Construction

MT MESSENGER BYPASS

EROSION AND SEDIMENT CONTROL

CONCEPTUAL PLANS FOR MAIN

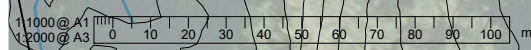
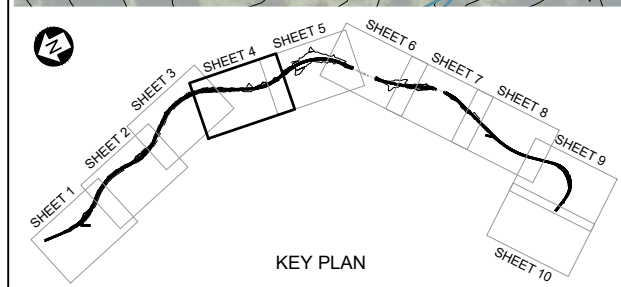
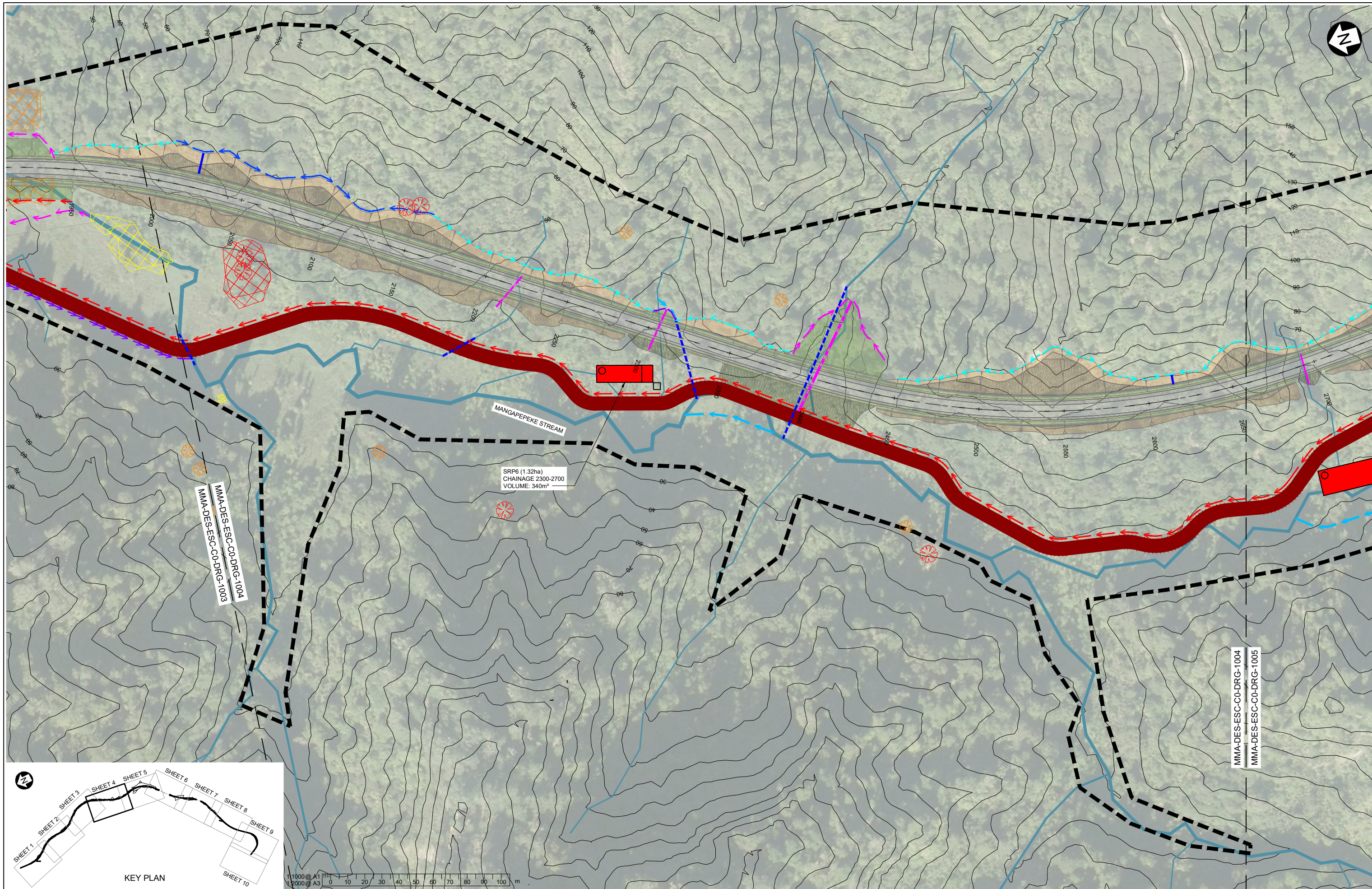
CONSTRUCTION WORKS - SHEET 3

Approved
D. KENDERDINE

Status
FOR CONSENT

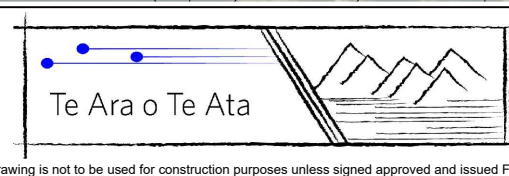
Drawing Number
MMA-DES-ESC-C0-DRG-1003

Revision
C



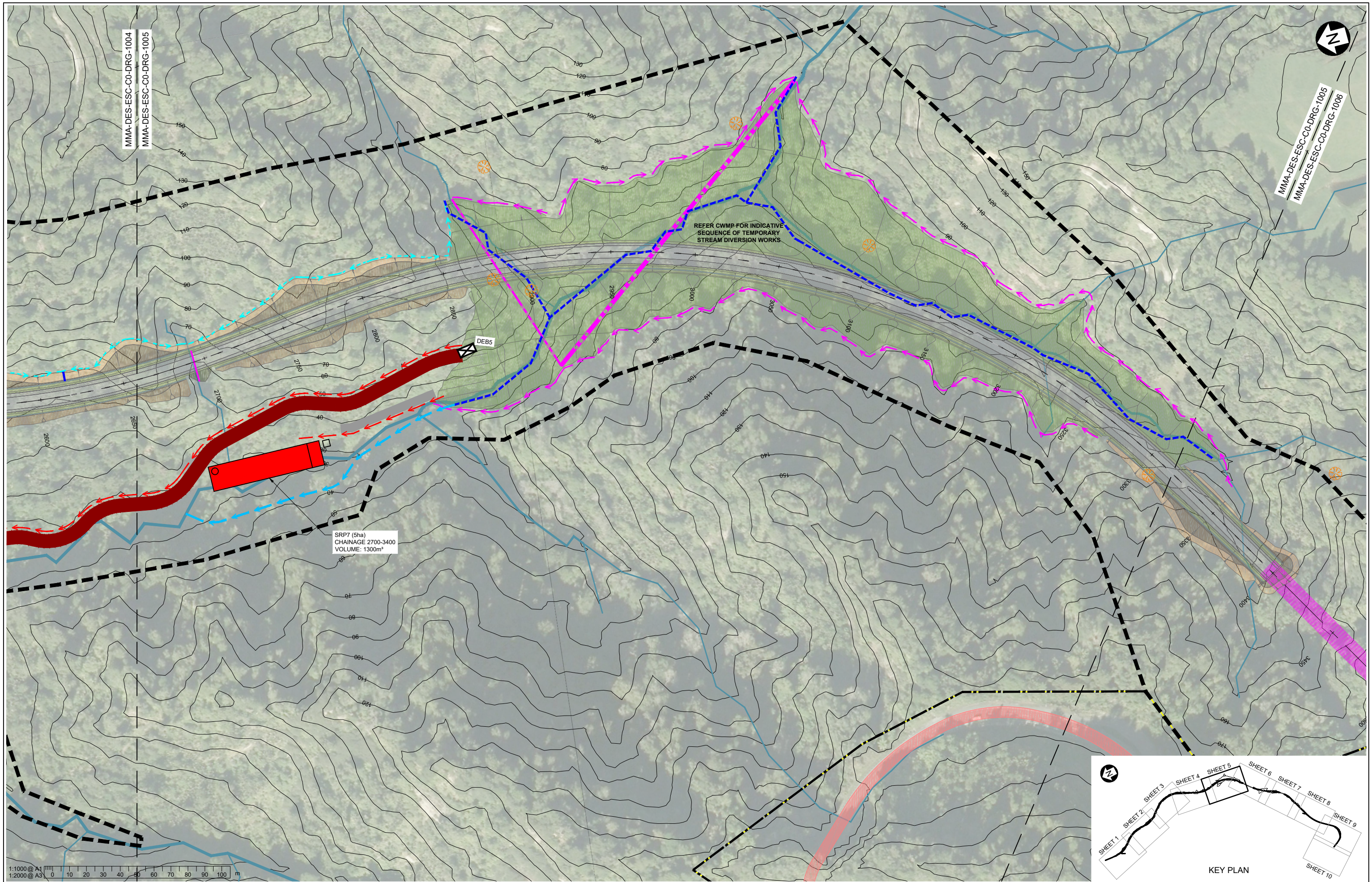
Rev	Revision Description	Drawn	Checked	Designed	Design Checked	Approved	Date
C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1004
Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1



MT MESSENGER BYPASS
EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET 4

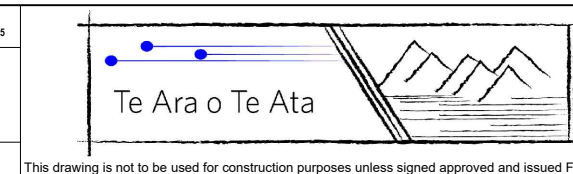
Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-ESC-C0-DRG-1004
Revision	C



1:1000 @ A1
1:2000 @ A3

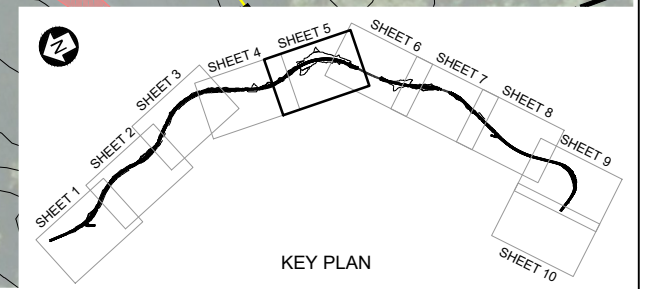
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C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

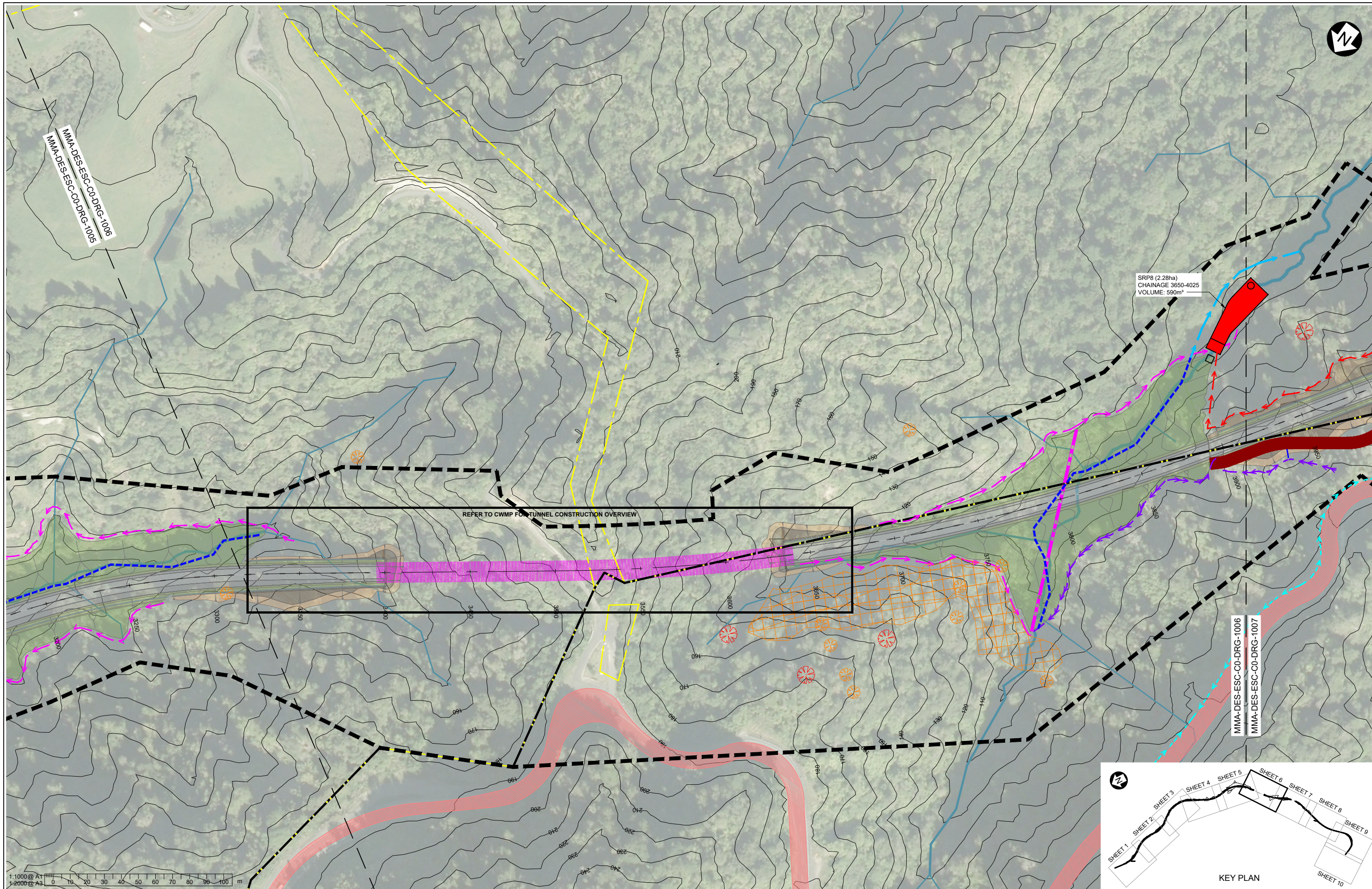
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Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1



MT MESSENGER BYPASS
EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET 5

Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-ESC-C0-DRG-1005
Revision	C

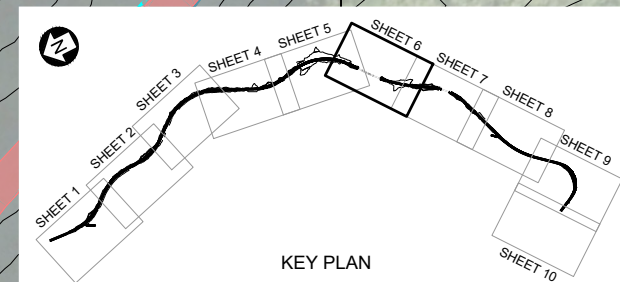




SRP8 (2.28ha)
CHAINAGE 3650-4025
VOLUME: 590m³

REFER TO CWMP FOR TUNNEL CONSTRUCTION OVERVIEW

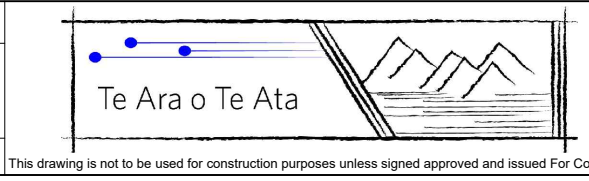
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MMA-DES-ESC-C0-DRG-1007



1:1000 @ A1
1:2000 @ A3

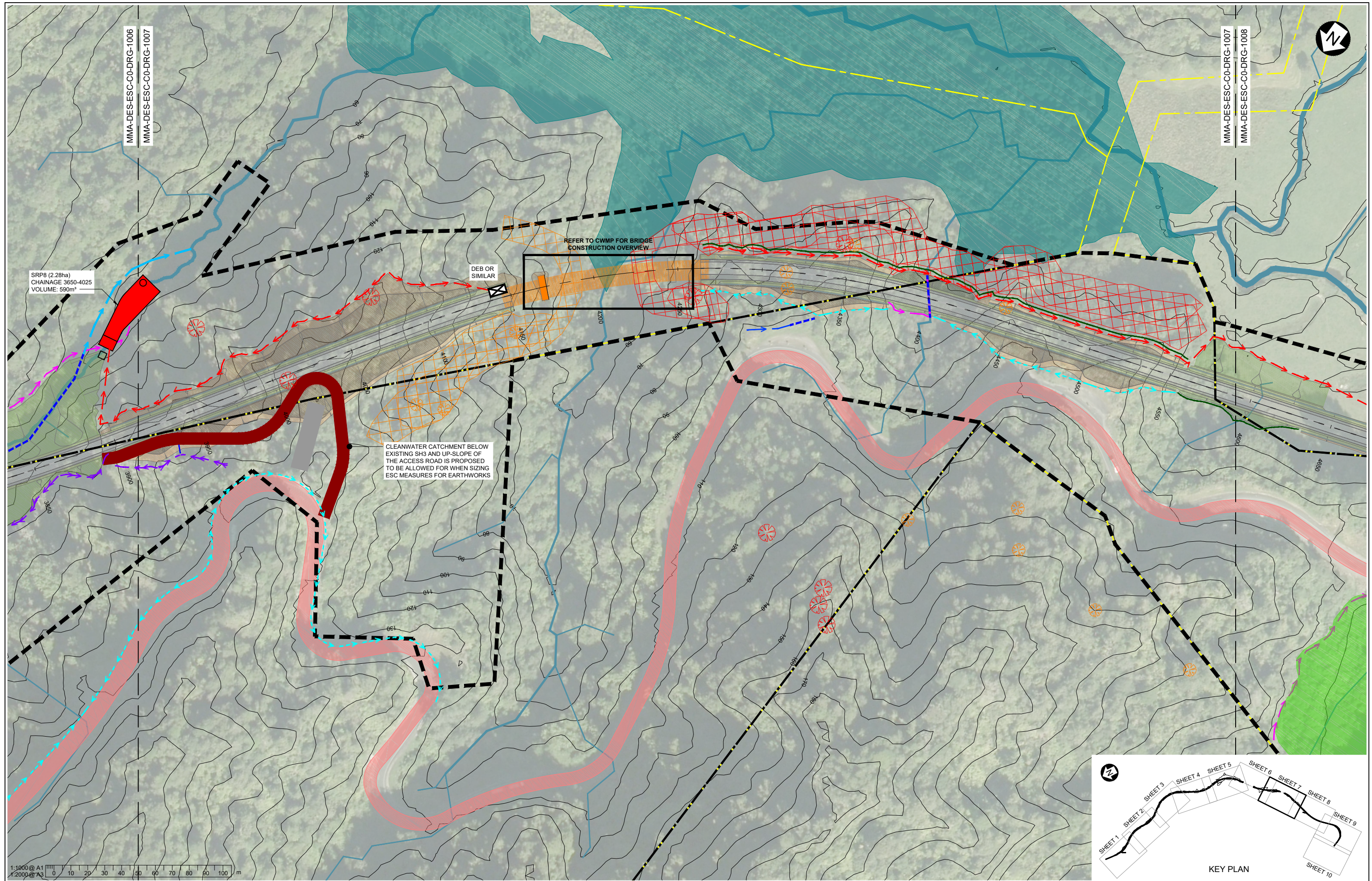
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C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	Original Size
MMA-DES-ESC-C0-DRG-1006	A1



MT MESSENGER BYPASS
EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET 6

Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-ESC-C0-DRG-1006
Revision	C



1:1000 @ A1
1:2000 @ A3

Rev	Revision Description	Drawn	Drawing Checked	Designed	Design Checked	Approved	Date
C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1007
Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1

Te Ara o Te Ata

This drawing is not to be used for construction purposes unless signed approved and issued For Construction

MT MESSENGER BYPASS

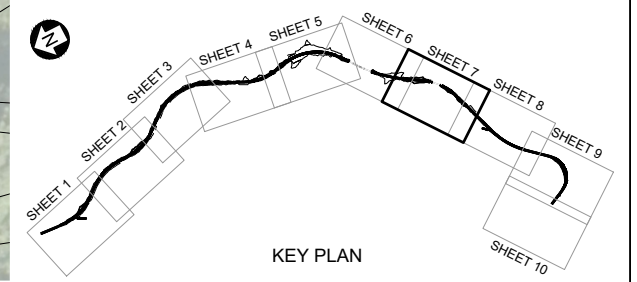
EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET 7

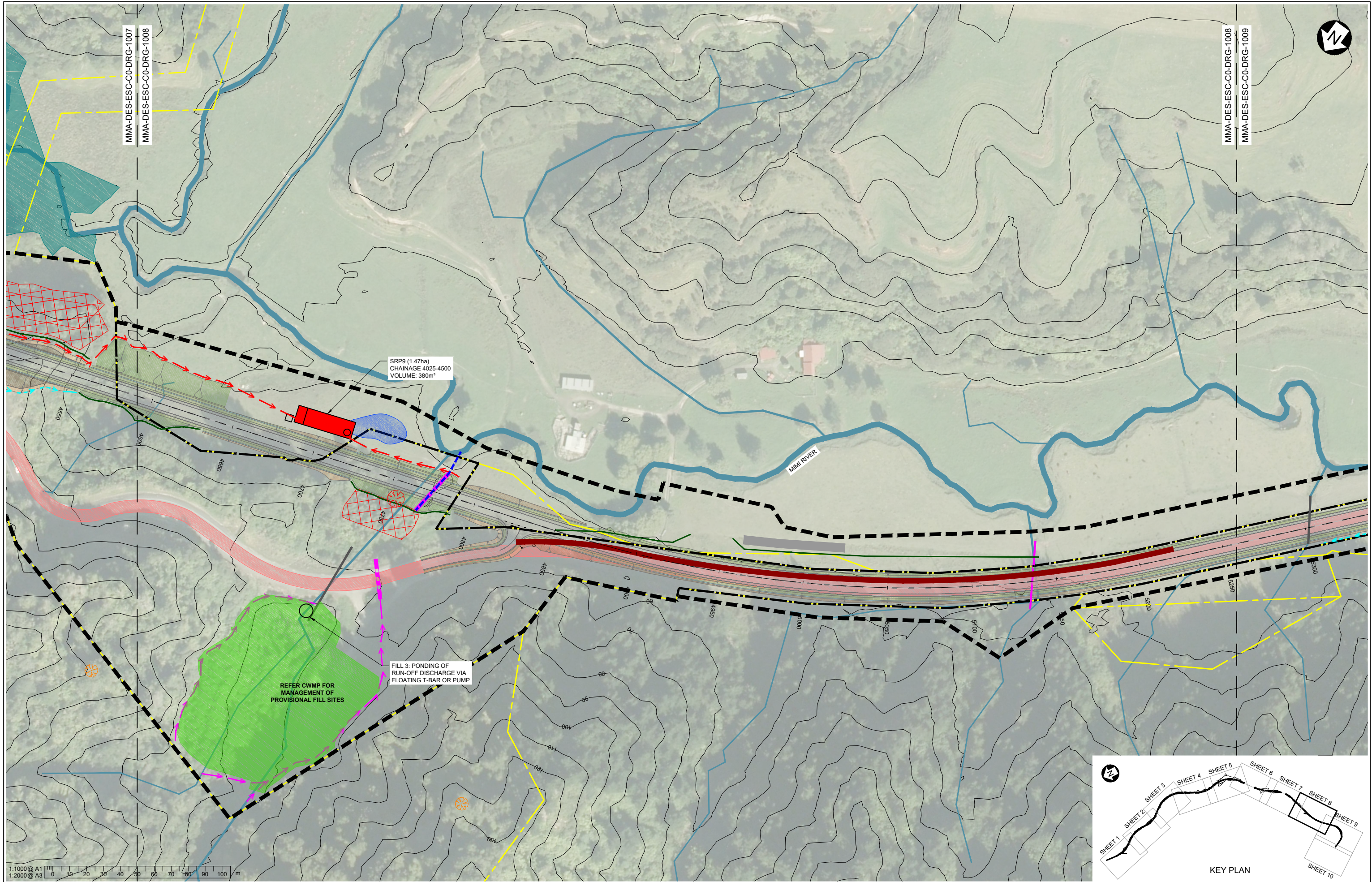
Approved
D. KENDERDINE

Status
FOR CONSENT

Drawing Number
MMA-DES-ESC-C0-DRG-1007

Revision
C





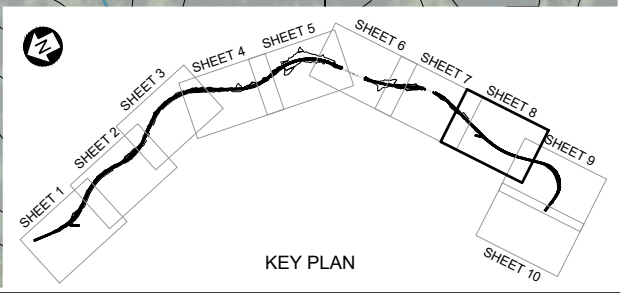
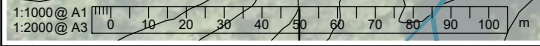
MMA-DES-ESC-C0-DRG-1007
MMA-DES-ESC-C0-DRG-1008

MMA-DES-ESC-C0-DRG-1008
MMA-DES-ESC-C0-DRG-1009

SRP9 (1.47ha)
CHAINAGE 4025-4500
VOLUME: 380m³

FILL 3: PONDING OF
RUN-OFF DISCHARGE VIA
FLOATING T-BAR OR PUMP

REFER CWMP FOR
MANAGEMENT OF
PROVISIONAL FILL SITES



Rev	Revision Description	Drawn	Drawing Checked	Designed	Design Checked	Approved	Date
C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1008
Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1

Te Ara o Te Ata

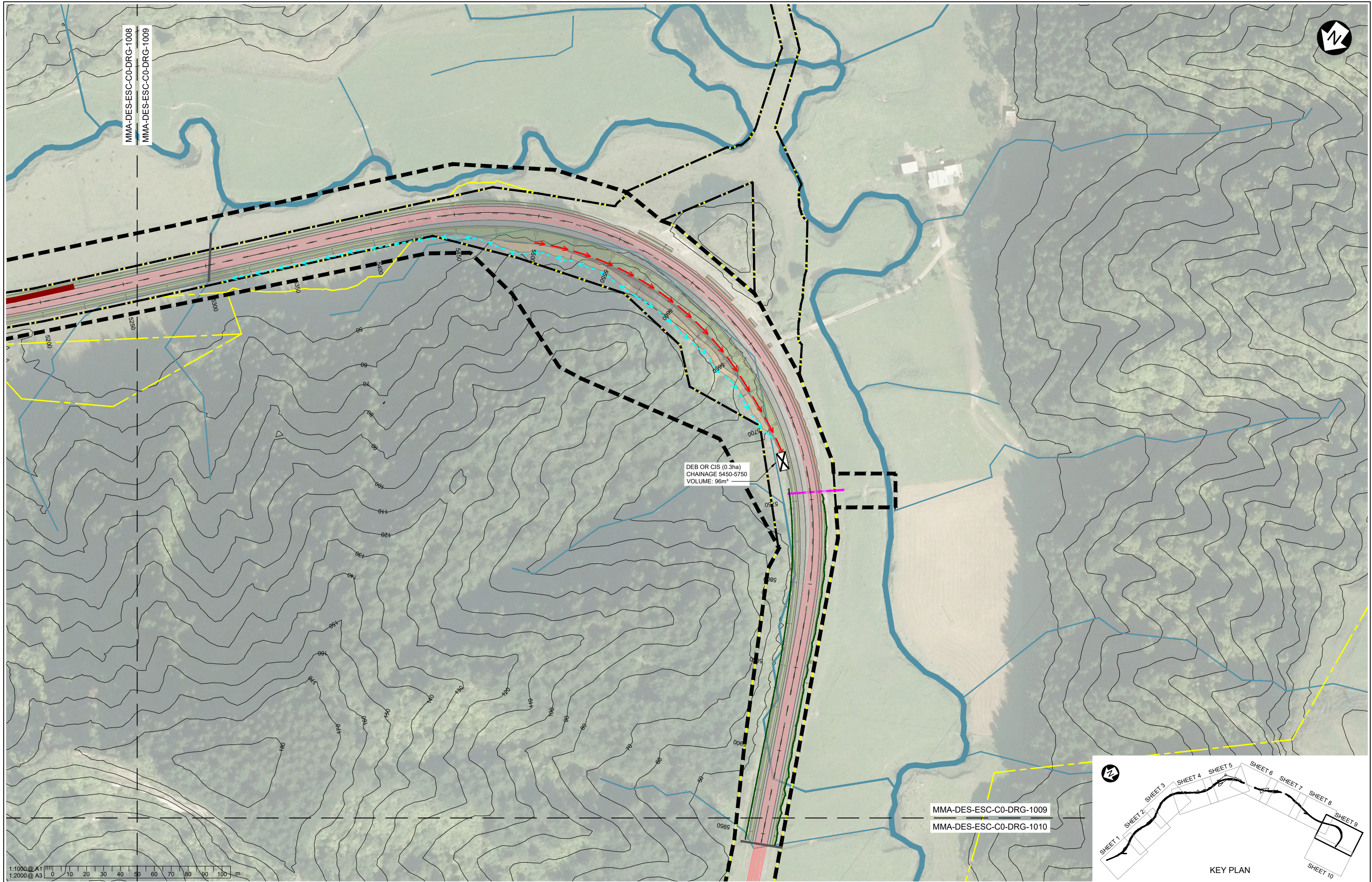
This drawing is not to be used for construction purposes unless signed approved and issued For Construction

NZ TRANSPORT AGENCY
WAKA KOTAHĪ
Mt Messenger Bypass

MT MESSENGER BYPASS

EROSION AND SEDIMENT CONTROL
CONCEPTUAL PLANS FOR MAIN
CONSTRUCTION WORKS - SHEET 8

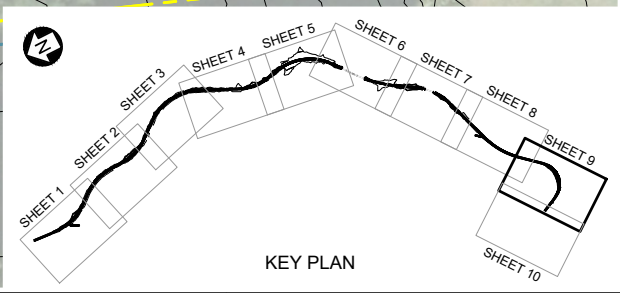
Approved	D. KENDERDINE
Status	FOR CONSENT
Drawing Number	MMA-DES-ESC-C0-DRG-1008
Revision	C



MMA-DES-ESC-C0-DRG-1008
MMA-DES-ESC-C0-DRG-1009

DEB OR CIS (0.3ha)
CHAINAGE 5450-5750
VOLUME: 96m³

MMA-DES-ESC-C0-DRG-1009
MMA-DES-ESC-C0-DRG-1010



1:1000 @ A1
1:2000 @ A3

Rev	Revision Description	Drawn	Drawing Checked	Designed	Design Checked	Approved	Date
C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1009
Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1

Te Ara o Te Ata

This drawing is not to be used for construction purposes unless signed approved and issued For Construction

NZ TRANSPORT AGENCY
WAKA KOTAHĪ
Mt Messenger Bypass

MT MESSENGER BYPASS

EROSION AND SEDIMENT CONTROL

CONCEPTUAL PLANS FOR MAIN

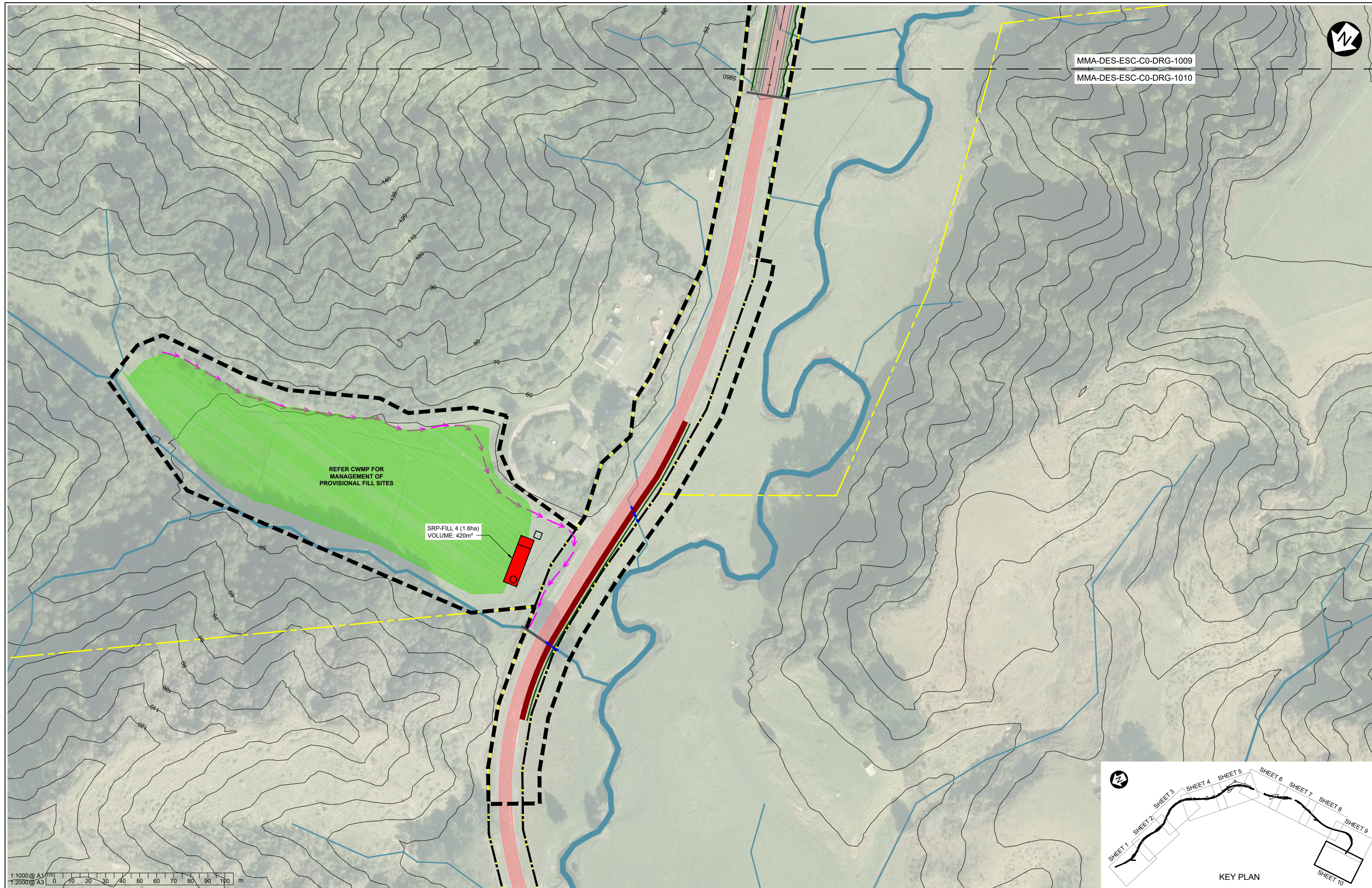
CONSTRUCTION WORKS - SHEET 9

Approved
D. KENDERDINE

Status
FOR CONSENT

Drawing Number
MMA-DES-ESC-C0-DRG-1009

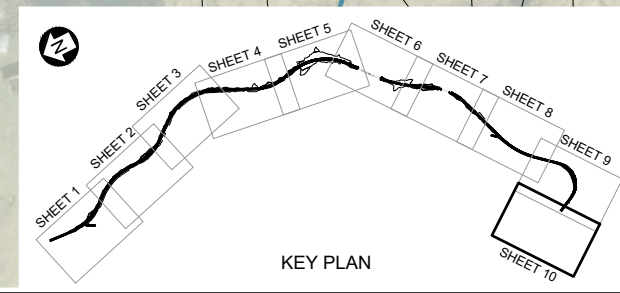
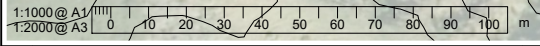
Revision
C



MMA-DES-ESC-C0-DRG-1009
MMA-DES-ESC-C0-DRG-1010

REFER CWMP FOR
MANAGEMENT OF
PROVISIONAL FILL SITES

SRP-FILL 4 (1.6ha)
VOLUME: 420m³



Rev	Revision Description	Drawn	Drawing Checked	Designed	Design Checked	Approved	Date
C	SEDIMENT RETENTION POND VOLUMES AMENDED	QDO'S	WHE	SPP	GR	BS	04/05/2018
B	FOR CONSENT	QDO'S	WHE	SPP	GR	LG	14/11/2017
A	PRELIMINARY DRAFT - FOR EXTERNAL REVIEW	QDO'S	WHE	SPP	GR	KJB	06/10/2017

Tab	MMA-DES-ESC-C0-DRG-1010
Scales	1:2000 (A3) 1:1000 (A1)
Original Size	A1

Te Ara o Te Ata

MT MESSENGER BYPASS

EROSION AND SEDIMENT CONTROL

CONCEPTUAL PLANS FOR MAIN

CONSTRUCTION WORKS - SHEET 10

Approved
D. KENDERDINE

Status
FOR CONSENT

Drawing Number
MMA-DES-ESC-C0-DRG-1010

Revision
C