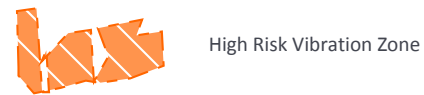


LEGEND

EXISTING DESIGNATION BOUNDARY		BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY		PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH		FILL SLOPE	
PROPOSED BUSWAY		CUT SLOPE	
PROPOSED TRANSIT LANE		EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH		EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD		PROPOSED CULVERT	



KEY:



PROJECT: Northern Corridor Improvements

JOB NO: 2016013C



TITLE: Construction Piling Vibration Markups

MARK UP BY: Peter Ibbotson

DATE: 12/01/2016

SCALE: 1:2000

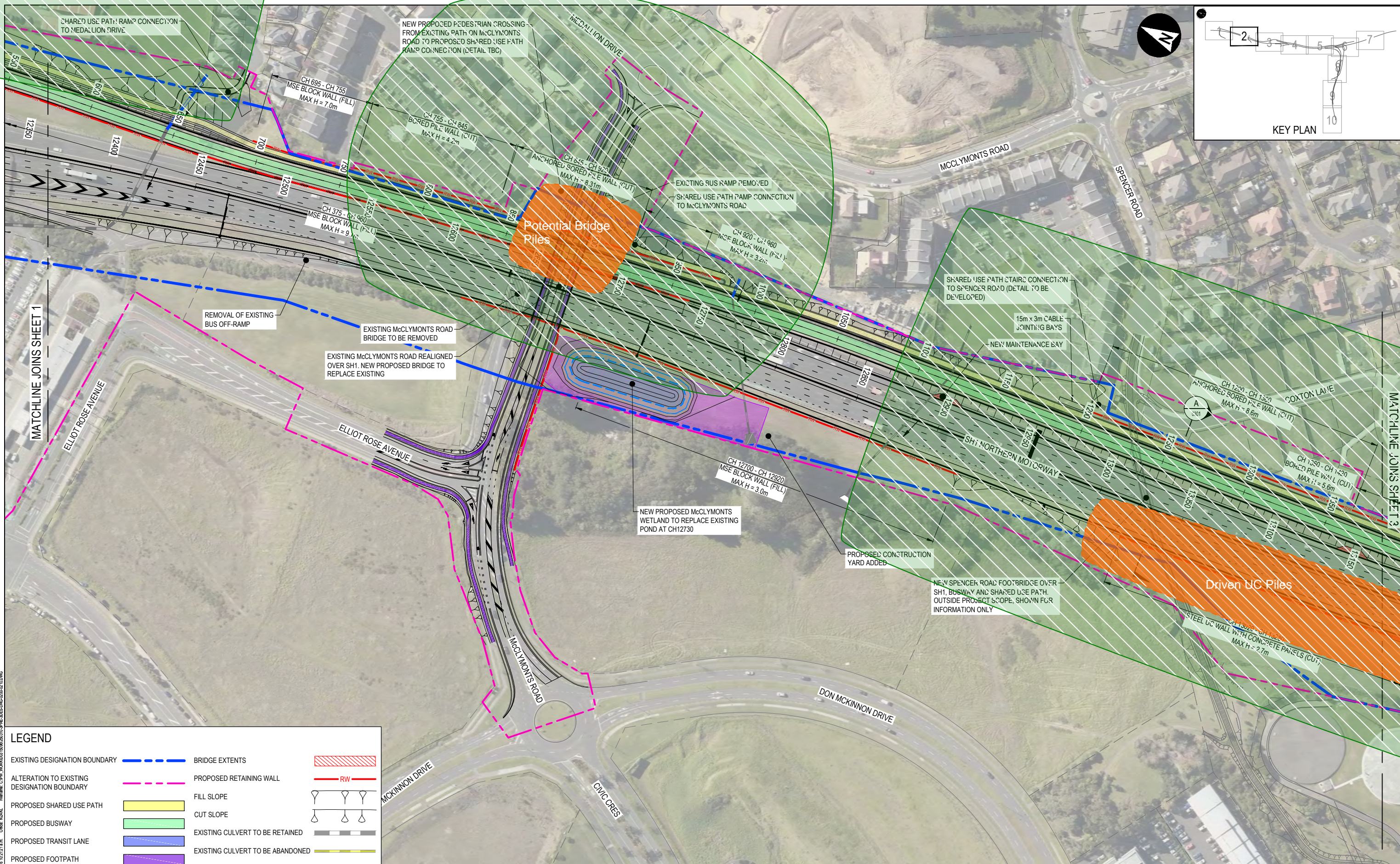
DRAWING REF:

Appendix F1

REV:

02

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 Office: NZAS
 Review: C:\PI\WORK\2016\2016013C\2016013C_001.DWG



LEGEND

EXISTING DESIGNATION BOUNDARY	BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY	PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH	FILL SLOPE	
PROPOSED BUSWAY	CUT SLOPE	
PROPOSED TRANSIT LANE	EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH	EXISTING CULVERT TO BE ABANDONED	

KEY:

High Risk Vibration Zone

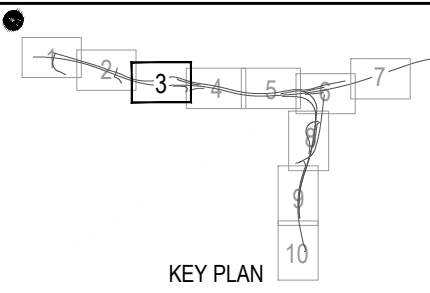
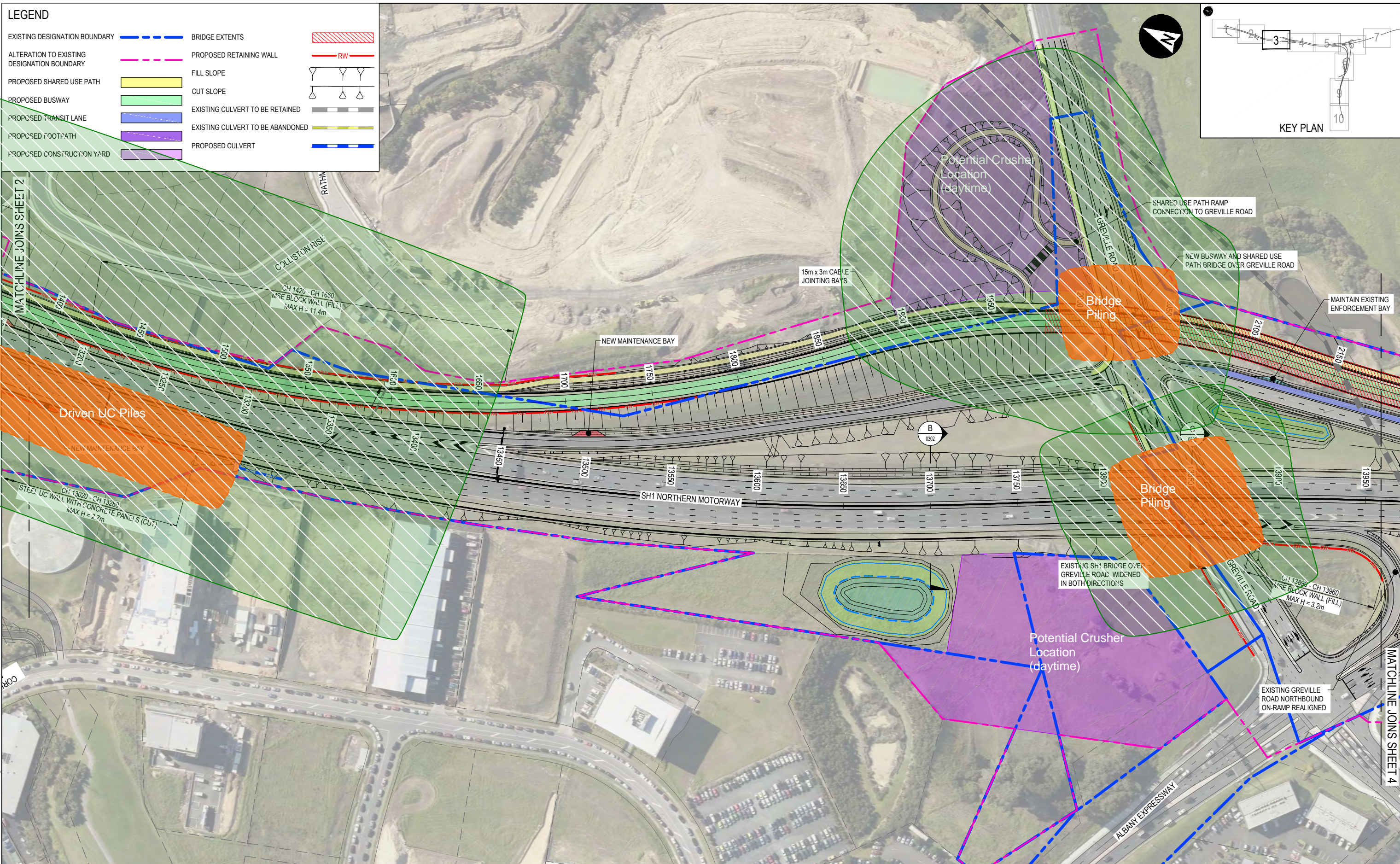
Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements		TITLE: Construction Piling Vibration Markups	
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
MARSHALL DAY Acoustics		DATE: 12/01/2016	Appendix F1
SCALE: 1:2000		02	

File Name: C:\PI\WORK\2016\2016013C\2016013C_02.dwg
 Plot Date: 20/01/2016 10:31:21 a.m. Client: NZMA

LEGEND

EXISTING DESIGNATION BOUNDARY	BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY	PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH	FILL SLOPE	
PROPOSED BUSWAY	CUT SLOPE	
PROPOSED TRANSIT LANE	EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH	EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD	PROPOSED CULVERT	



KEY:

High Risk Vibration Zone

Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements		TITLE: Construction Piling Vibration Markups	
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
DATE: 12/01/2016		Appendix F1	
SCALE: 1:2000		02	



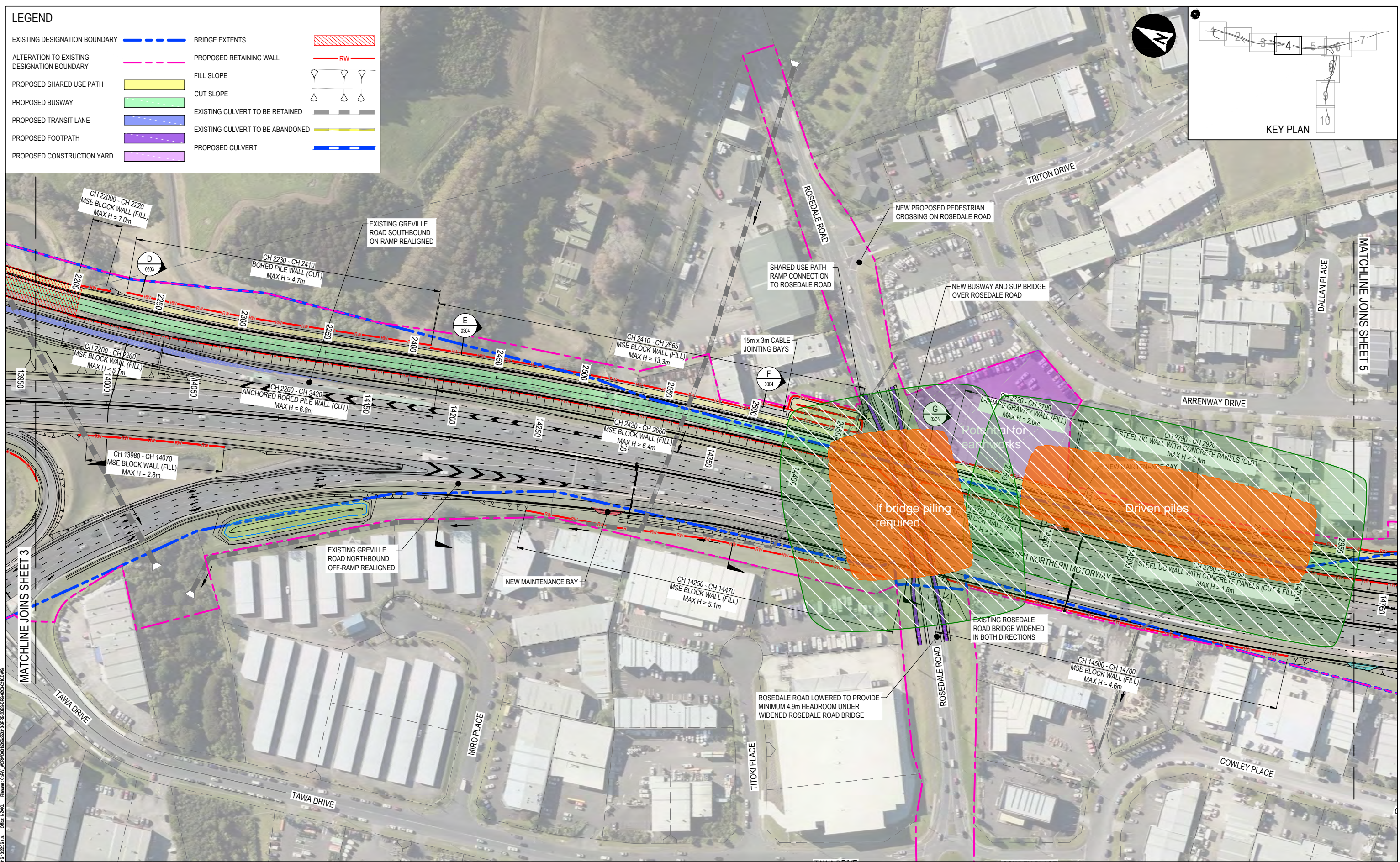
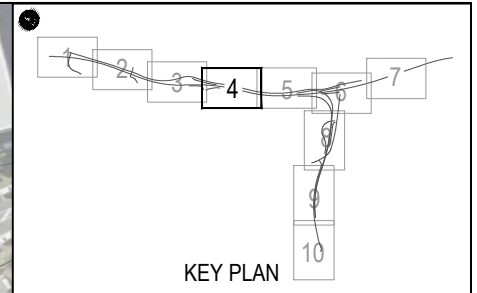
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MATCHLINE JOINS SHEET 2

MATCHLINE JOINS SHEET 4

LEGEND

EXISTING DESIGNATION BOUNDARY		BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY		PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH		FILL SLOPE	
PROPOSED BUSWAY		CUT SLOPE	
PROPOSED TRANSIT LANE		EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH		EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD		PROPOSED CULVERT	



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High Risk Vibration Zone

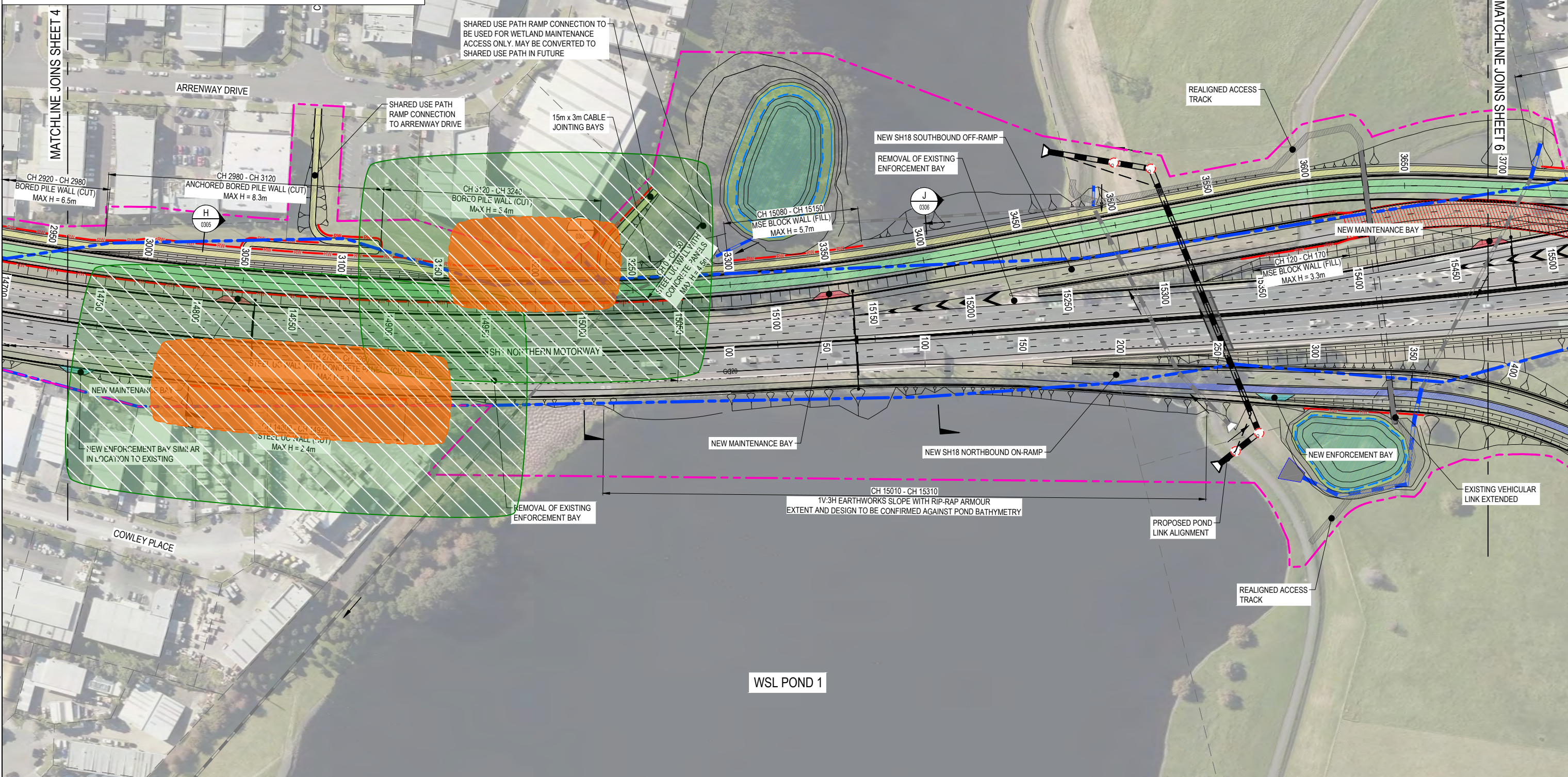
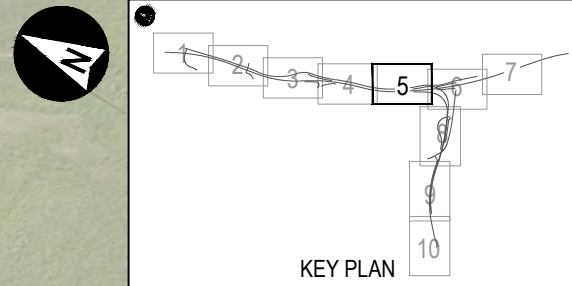
Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements		TITLE: Construction Piling Vibration Markups	
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
DATE: 12/01/2016	Appendix F1		02
SCALE: 1:2000			



LEGEND

EXISTING DESIGNATION BOUNDARY	BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY	PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH	FILL SLOPE	
PROPOSED BUSWAY	CUT SLOPE	
PROPOSED TRANSIT LANE	EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH	EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD	PROPOSED CULVERT	



KEY:

High Risk Vibration Zone

Medium Risk Vibration Zone

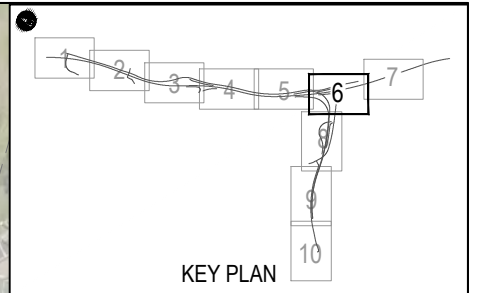
PROJECT: Northern Corridor Improvements		TITLE: Construction Piling Vibration Markups	
JOB NO: 2016013C		MARK UP BY: Peter Ibbotson	DRAWING REF:
		DATE: 12/01/2016	REV: 02
		SCALE: 1:2000	Appendix F1



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LEGEND

EXISTING DESIGNATION BOUNDARY		BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY		PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH		FILL SLOPE	
PROPOSED BUSWAY		CUT SLOPE	
PROPOSED TRANSIT LANE		EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH		EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD		PROPOSED CULVERT	



KEY:

High Risk Vibration Zone

Medium Risk Vibration Zone


PROJECT: Northern Corridor Improvements		TITLE: Construction Piling Vibration Markups	
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
		DATE: 12/01/2016	Appendix F1
		SCALE: 1:2000	02

Proj Date: 20/02/2016 10:18:31 a.m. Office: NZAKL
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LEGEND	
EXISTING DESIGNATION BOUNDARY	BRIDGE EXTENTS
ALTERATION TO EXISTING DESIGNATION BOUNDARY	PROPOSED RETAINING WALL
PROPOSED SHARED USE PATH	FILL SLOPE
PROPOSED BUSWAY	CUT SLOPE
PROPOSED TRANSIT LANE	EXISTING CULVERT TO BE RETAINED
PROPOSED FOOTPATH	EXISTING CULVERT TO BE ABANDONED
PROPOSED CONSTRUCTION YARD	PROPOSED CULVERT




KEY:



High Risk Vibration Zone



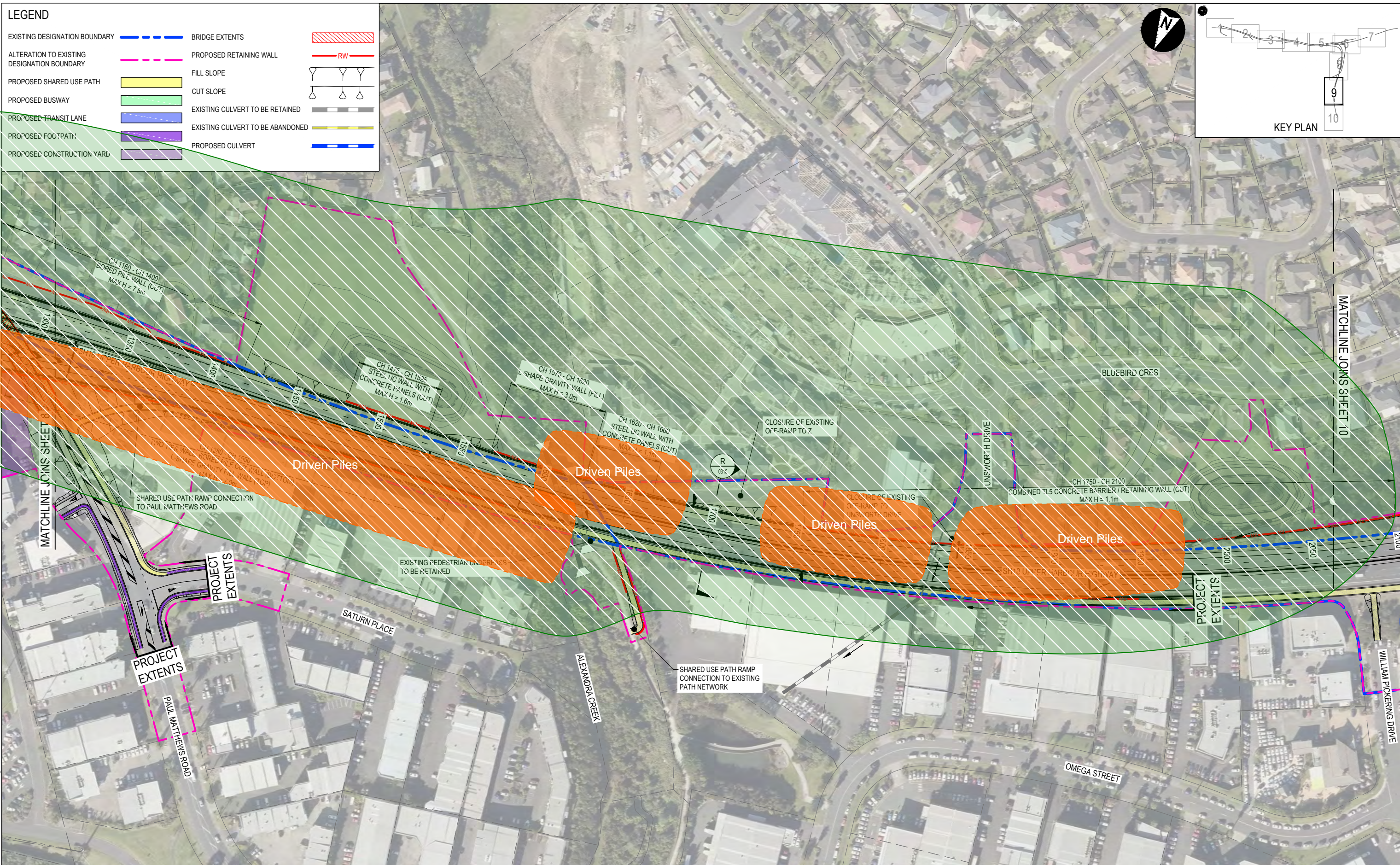
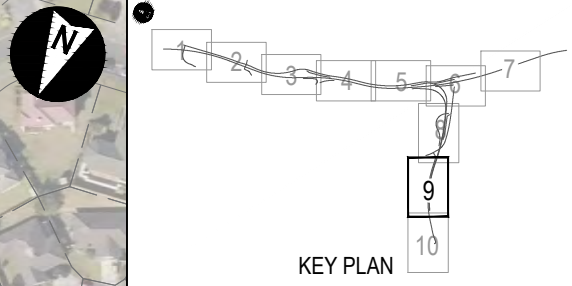
Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements		TITLE: Construction Piling Vibration Markups	
JOB NO: 2016013C		MARK UP BY: Peter Ibbotson	DRAWING REF:
		DATE: 12/01/2016	Appendix F1
		SCALE: 1:2000	02

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LEGEND

EXISTING DESIGNATION BOUNDARY		BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY		PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH		FILL SLOPE	
PROPOSED BUSWAY		CUT SLOPE	
PROPOSED TRANSIT LANE		EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH		EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD		PROPOSED CULVERT	



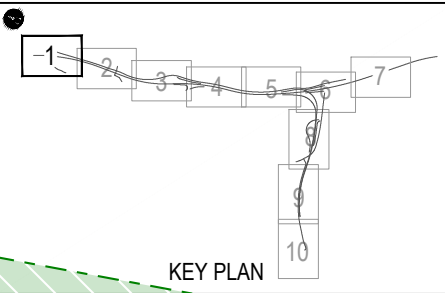
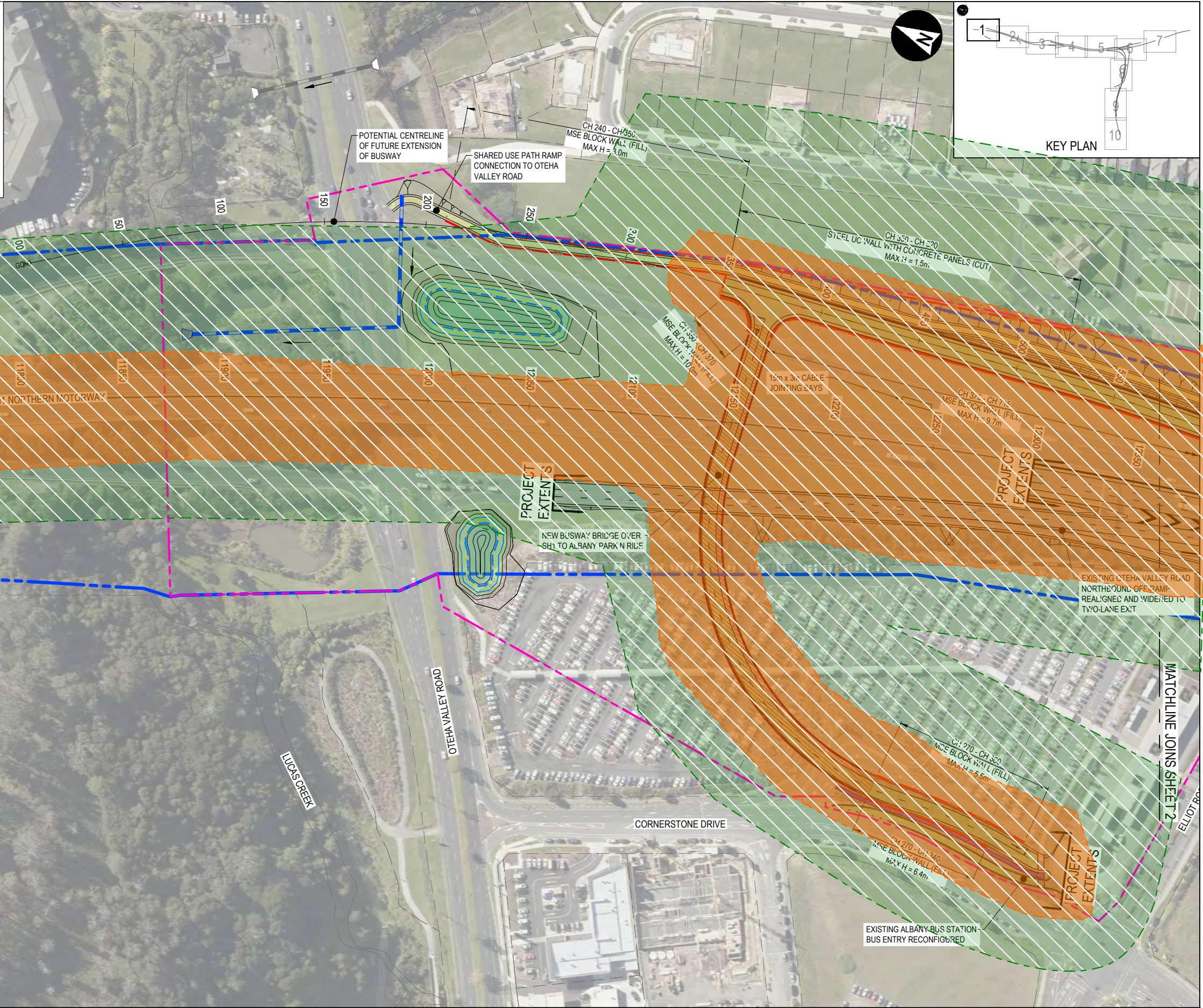
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JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
DATE: 12/01/2016		Appendix F1	02
SCALE: 1:2000			



Plot Date: 20/01/2016 10:24:13 a.m. Client: NZMA, Reference: C-PM, W0000001, 02/08/2010, 03/05/2012, 02/01/2016

LEGEND

- EXISTING DESIGNATION BOUNDARY BRIDGE EXTENTS
- ALTERATION TO EXISTING DESIGNATION BOUNDARY PROPOSED RETAINING WALL
- PROPOSED SHARED USE PATH FILL SLOPE
- PROPOSED BUSWAY CUT SLOPE
- PROPOSED TRANSIT LANE EXISTING CULVERT TO BE RETAINED
- PROPOSED FOOTPATH EXISTING CULVERT TO BE ABANDONED
- PROPOSED CONSTRUCTION YARD PROPOSED CULVERT



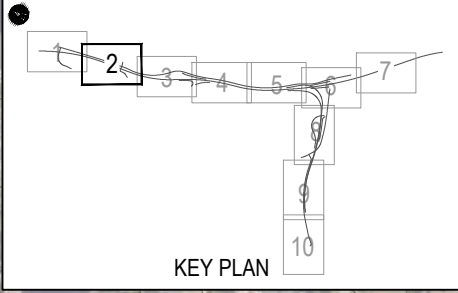
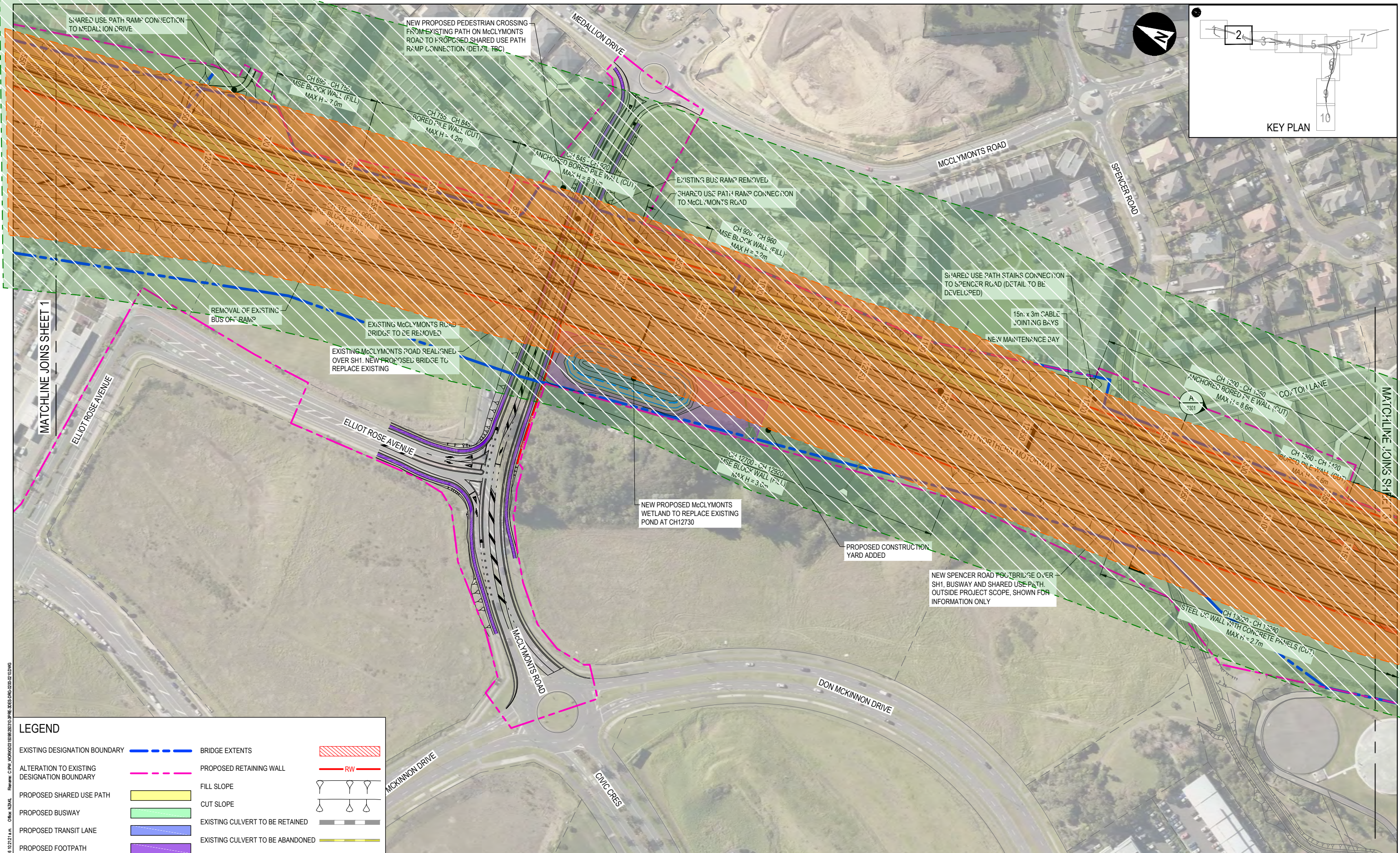
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KEY:

High Risk Vibration Zone

Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements		TITLE: Construction Vibrocompaction Vibration Markups		
JOB NO: 2016013C		MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
		DATE: 12/01/2016	Appendix F2	
		SCALE: 1:2000	02	



LEGEND

EXISTING DESIGNATION BOUNDARY	BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY	PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH	FILL SLOPE	
PROPOSED BUSWAY	CUT SLOPE	
PROPOSED TRANSIT LANE	EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH	EXISTING CULVERT TO BE ABANDONED	

KEY:

High Risk Vibration Zone

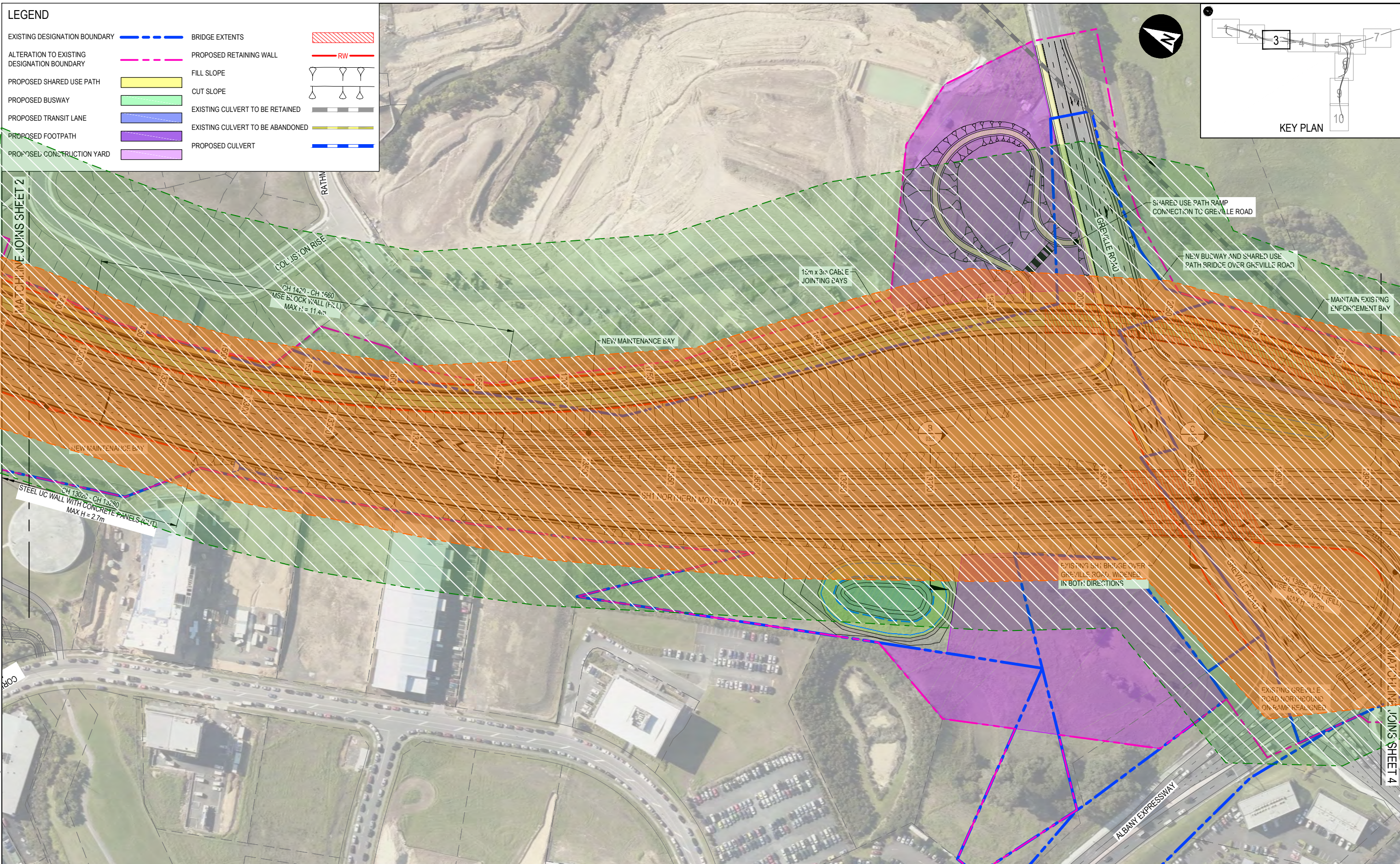
Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements		TITLE: Construction Vibrocompaction Vibration Markups	
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
DATE: 12/01/2016	Appendix F2		02
SCALE: 1:2000			

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LEGEND

- EXISTING DESIGNATION BOUNDARY BRIDGE EXTENTS
- ALTERATION TO EXISTING DESIGNATION BOUNDARY PROPOSED RETAINING WALL
- PROPOSED SHARED USE PATH FILL SLOPE
- PROPOSED BUSWAY CUT SLOPE
- PROPOSED TRANSIT LANE EXISTING CULVERT TO BE RETAINED
- PROPOSED FOOTPATH EXISTING CULVERT TO BE ABANDONED
- PROPOSED CONSTRUCTION YARD PROPOSED CULVERT



KEY:



High Risk Vibration Zone



Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements

JOB NO: 2016013C



TITLE: Construction Vibrocompaction Vibration Markups

MARK UP BY: Peter Ibbotson

DATE: 12/01/2016

SCALE: 1:2000

DRAWING REF:

Appendix F2

REV:

02

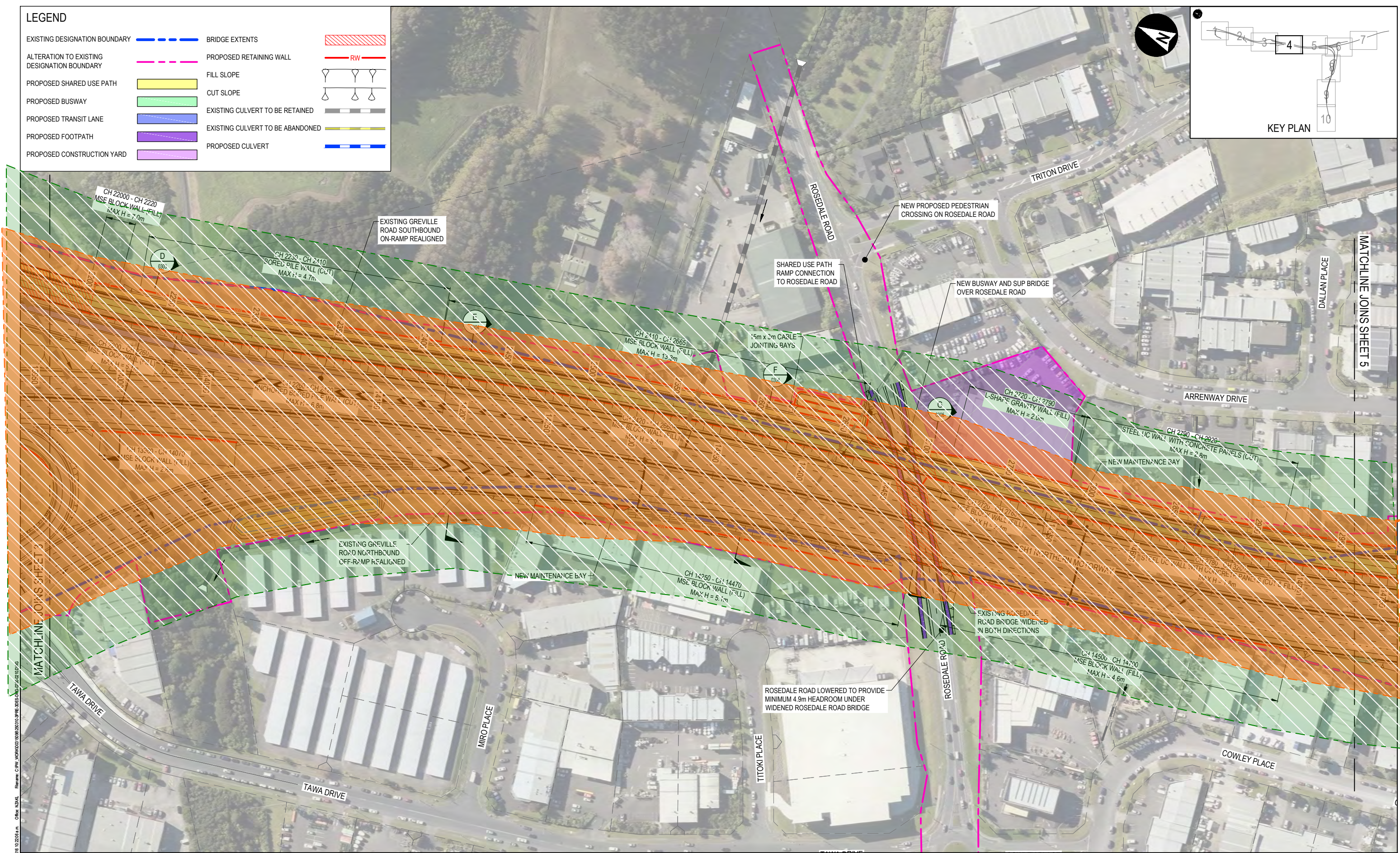
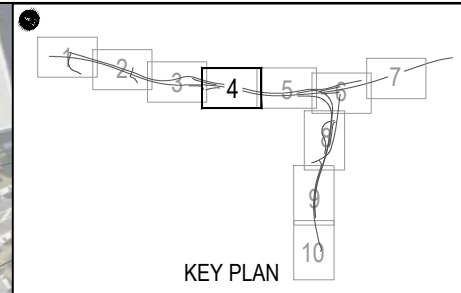
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MATCHLINE JOINS SHEET 2

MATCHLINE JOINS SHEET 4

LEGEND

- EXISTING DESIGNATION BOUNDARY BRIDGE EXTENTS
- ALTERATION TO EXISTING DESIGNATION BOUNDARY PROPOSED RETAINING WALL
- PROPOSED SHARED USE PATH FILL SLOPE
- PROPOSED BUSWAY CUT SLOPE
- PROPOSED TRANSIT LANE EXISTING CULVERT TO BE RETAINED
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- PROPOSED CONSTRUCTION YARD PROPOSED CULVERT



KEY:



High Risk Vibration Zone



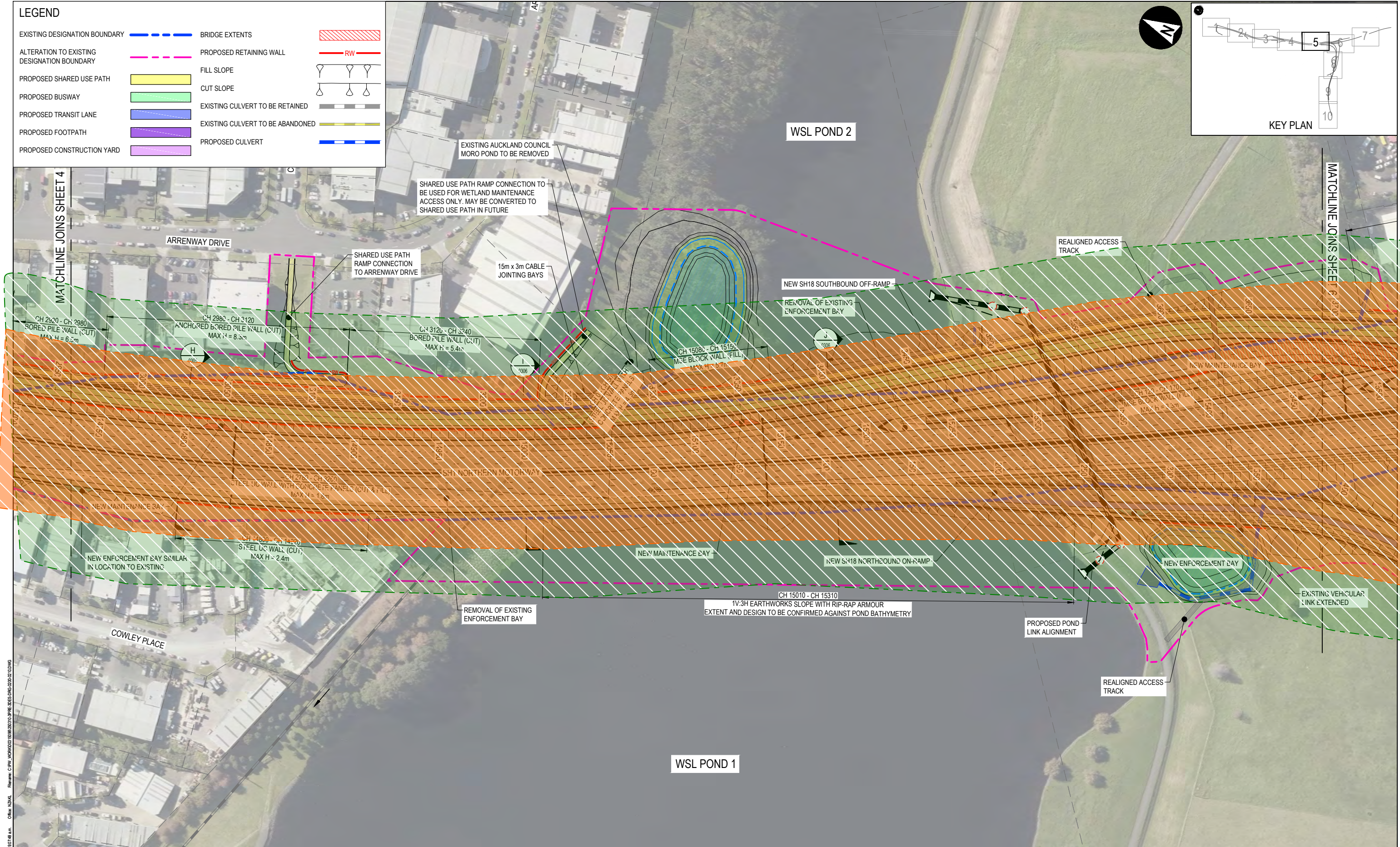
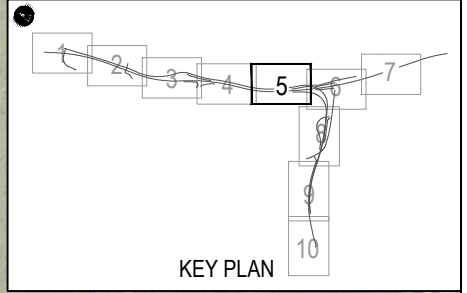
Medium Risk Vibration Zone

<p>PROJECT: Northern Corridor Improvements</p> <p>JOB NO: 2016013C</p>	<p>TITLE: Construction Vibrocompaction Vibration Markups</p> <p>MARK UP BY: Peter Ibbotson</p> <p>DATE: 12/01/2016</p> <p>SCALE: 1:2000</p>
<p>MARSHALL DAY Acoustics</p>	
<p>DRAWING REF: Appendix F2</p>	
<p>REV: 02</p>	

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LEGEND

EXISTING DESIGNATION BOUNDARY		BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY		PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH		FILL SLOPE	
PROPOSED BUSWAY		CUT SLOPE	
PROPOSED TRANSIT LANE		EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH		EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD		PROPOSED CULVERT	



KEY:



High Risk Vibration Zone



Medium Risk Vibration Zone

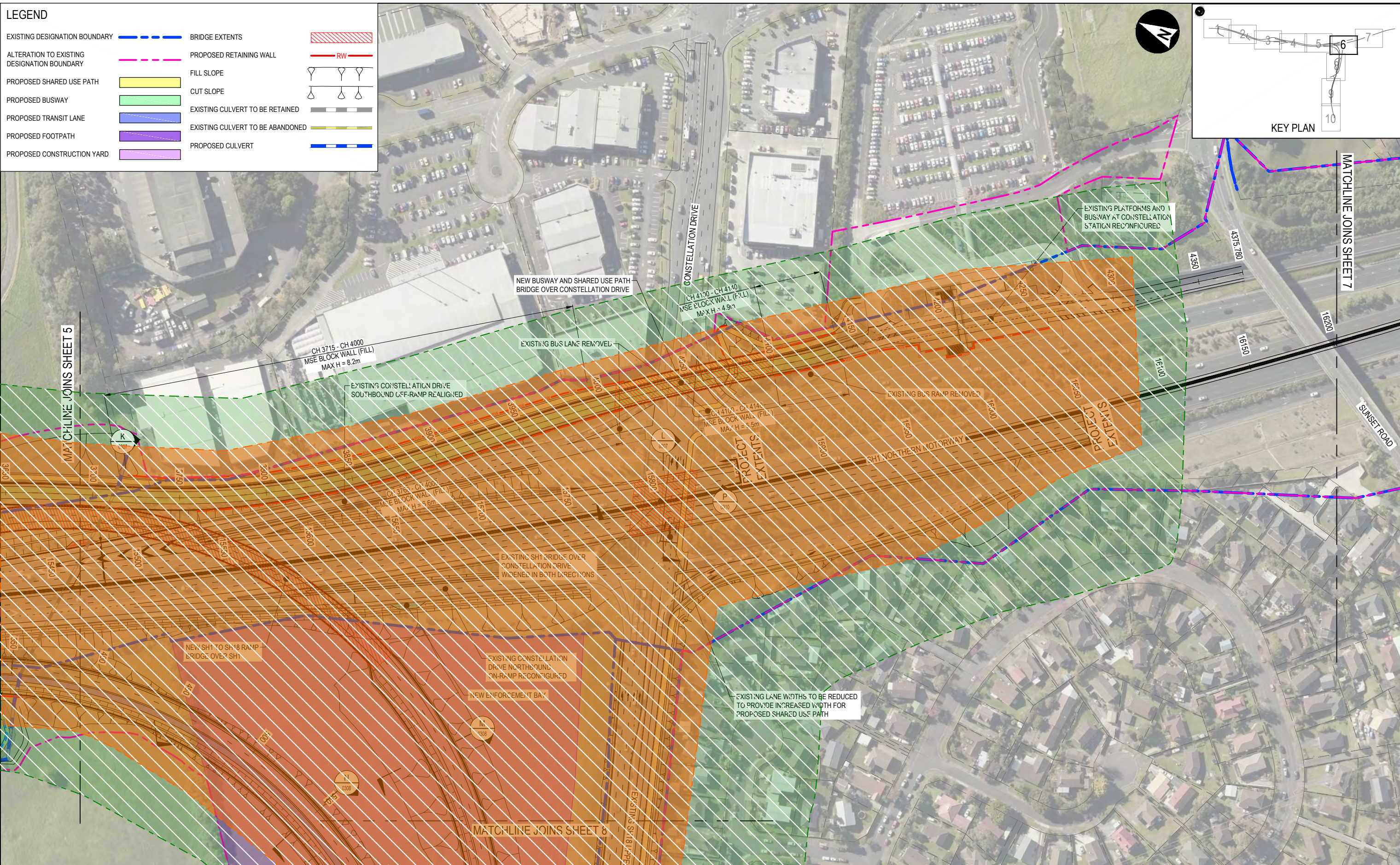
PROJECT: Northern Corridor Improvements		TITLE: Construction Vibrocompaction Vibration Markups		
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:	
DATE: 12/01/2016		Appendix F2		02
SCALE: 1:2000				



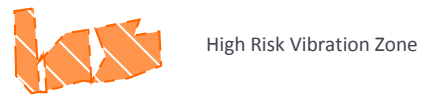
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LEGEND

EXISTING DESIGNATION BOUNDARY		BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY		PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH		FILL SLOPE	
PROPOSED BUSWAY		CUT SLOPE	
PROPOSED TRANSIT LANE		EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH		EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD		PROPOSED CULVERT	



KEY:



PROJECT: Northern Corridor Improvements

TITLE: Construction Vibrocompaction Vibration Markups

JOB NO: 2016013C

MARK UP BY: Peter Ibbotson

DRAWING REF:

REV:



DATE: 12/01/2016

Appendix F2

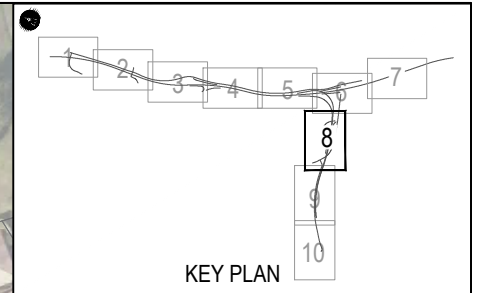
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Proj Date: 20/02/2016 10:38:32 a.m. Office: NZAKL
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LEGEND

EXISTING DESIGNATION BOUNDARY		BRIDGE EXTENTS	
ALTERATION TO EXISTING DESIGNATION BOUNDARY		PROPOSED RETAINING WALL	
PROPOSED SHARED USE PATH		FILL SLOPE	
PROPOSED BUSWAY		CUT SLOPE	
PROPOSED TRANSIT LANE		EXISTING CULVERT TO BE RETAINED	
PROPOSED FOOTPATH		EXISTING CULVERT TO BE ABANDONED	
PROPOSED CONSTRUCTION YARD		PROPOSED CULVERT	



KEY:



High Risk Vibration Zone

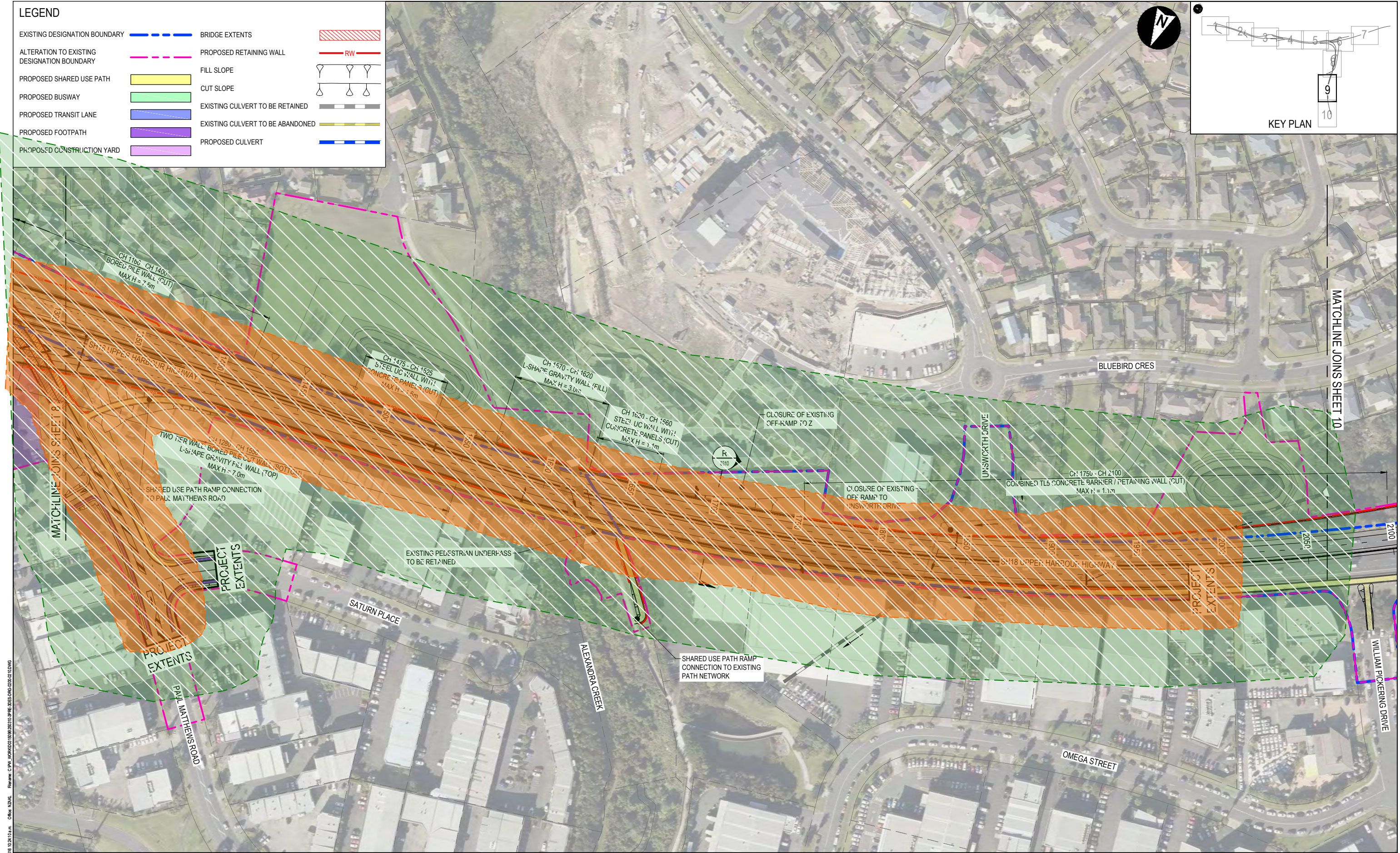
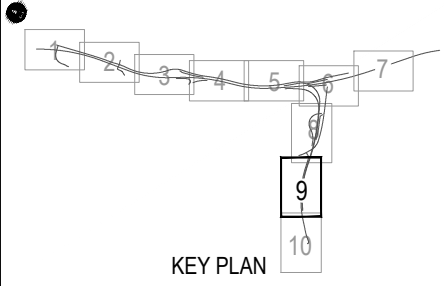


Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements	TITLE: Construction Vibrocompaction Vibration Markups		
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:
MARSHALL DAY Acoustics		DATE: 12/01/2016	Appendix F2
SCALE: 1:2000			02

LEGEND

- EXISTING DESIGNATION BOUNDARY BRIDGE EXTENTS
- ALTERATION TO EXISTING DESIGNATION BOUNDARY PROPOSED RETAINING WALL
- PROPOSED SHARED USE PATH FILL SLOPE
- PROPOSED BUSWAY CUT SLOPE
- PROPOSED TRANSIT LANE EXISTING CULVERT TO BE RETAINED
- PROPOSED FOOTPATH EXISTING CULVERT TO BE ABANDONED
- PROPOSED CONSTRUCTION YARD PROPOSED CULVERT



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KEY:

High Risk Vibration Zone

Medium Risk Vibration Zone

PROJECT: Northern Corridor Improvements		TITLE: Construction Vibrocompaction Vibration Markups		
JOB NO: 2016013C	MARK UP BY: Peter Ibbotson	DRAWING REF:	REV:	
DATE: 12/01/2016		Appendix F2		02
SCALE: 1:2000				

