

Official Height Standard Change

From 1 July 2024, Auckland Council adopts the official height standard for New Zealand called New Zealand Vertical Datum 2016 (NZVD2016).

This model was carried out prior to the height standard change.

All levels included in this modelling report are in Auckland Vertical Datum 1946 (AUK1946/AVD1946).

Levels in this report can be transformed from Auckland Vertical Datum 1946 into New Zealand Vertical Datum 2016 by applying an offset value of **0.283 m**.

For example:

$$H_{NZVD2016} = H_{AVD1946} - \text{Offset Value}$$

A single offset value for the catchment has been taken from the Land Information New Zealand (LINZ) Auckland 1946 to NZVD2016 Conversion Raster therefore this offset should be taken as an approximation only for the catchment.

A more accurate height transformation value can be derived by downloading the conversion raster available on the LINZ website below:

<https://data.linz.govt.nz/layer/103953-auckland-1946-to-nzvd2016-conversion-raster/>

IMPORTANT!!

This document contains three PDFs:

- 1. Main Report**
- 2. Appendix H Floodplain Maps**
- 3. Appendix H Floodplain Maps**
- 4. Appendix H Flood Hazard Map**

3. Appendix H Floodplain Maps

Oratia Flood Hazard Modelling

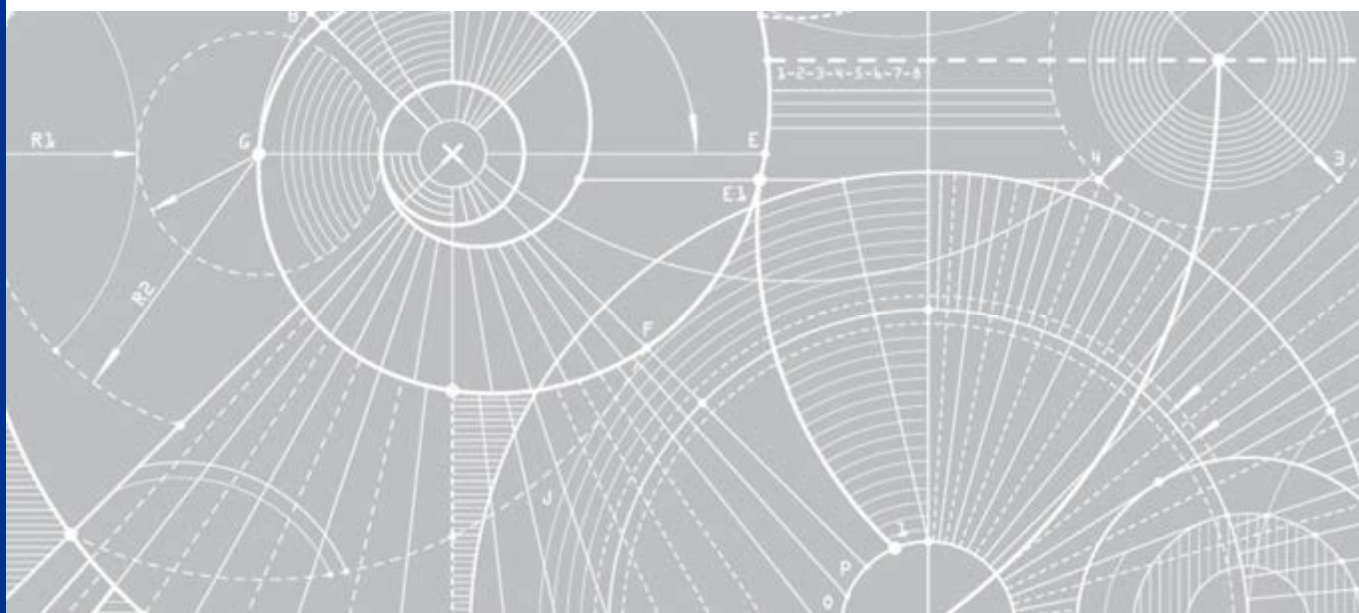
AUCKLAND COUNCIL

Model Build and System Performance Report

AE04163-NHY_RP_001 | 0

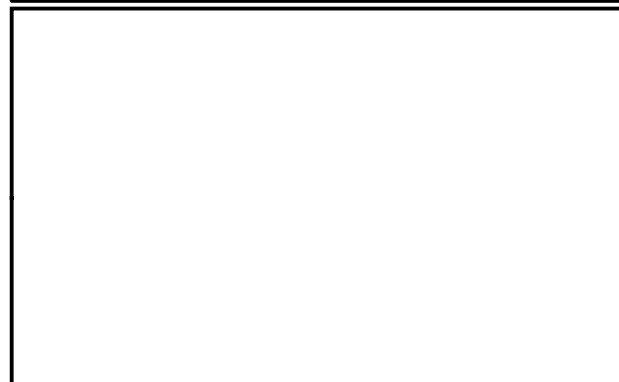
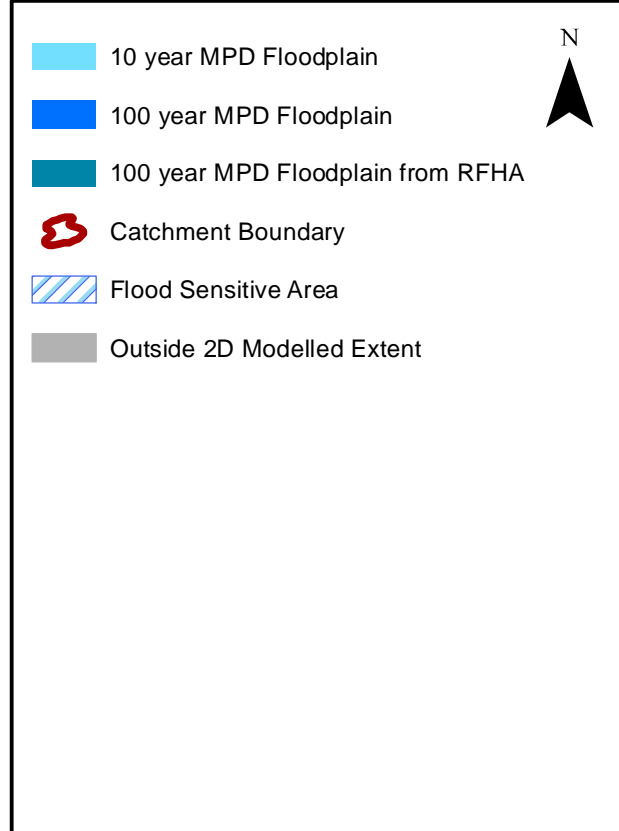
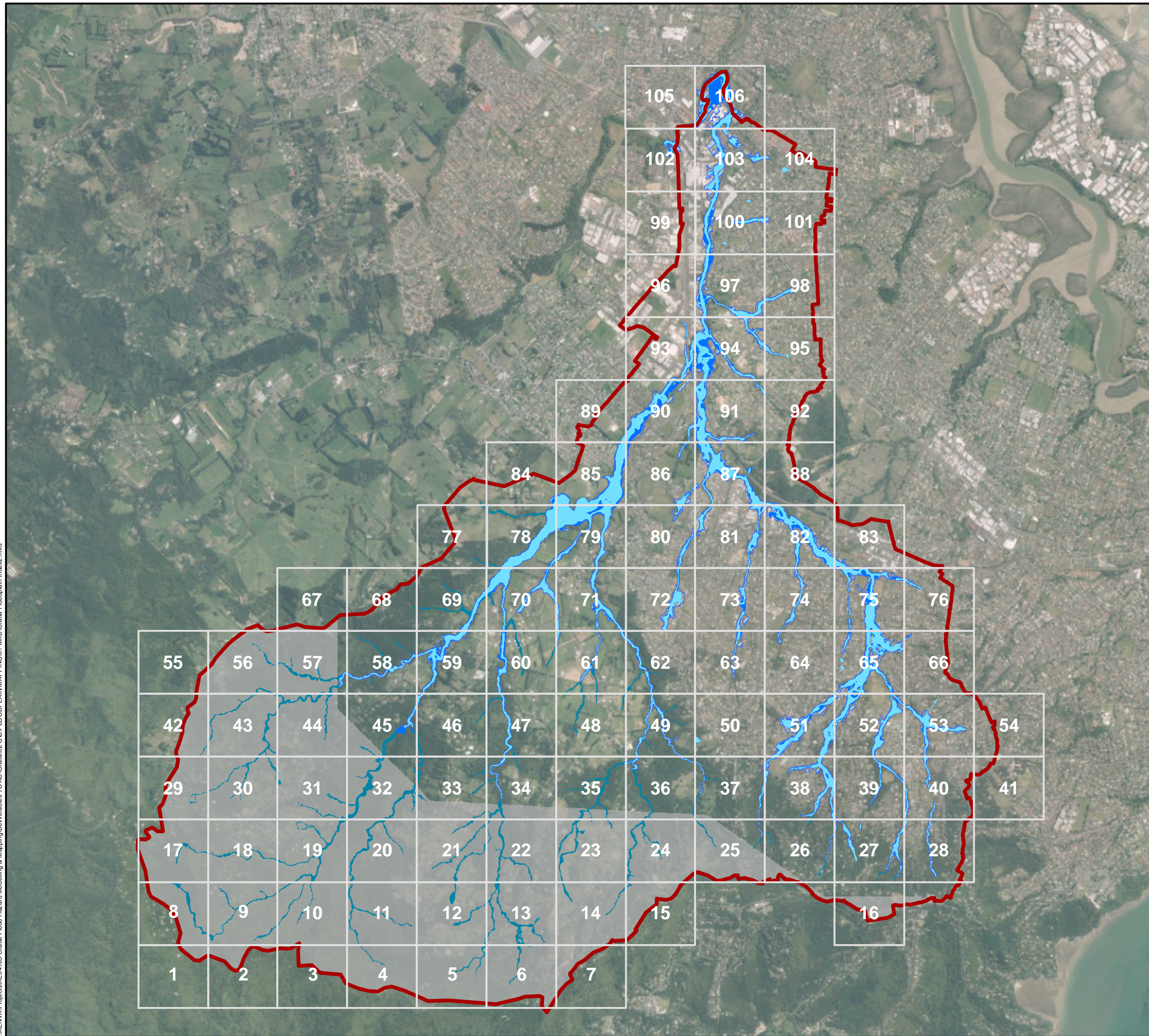
AUC001

05 Jun 2014



JACOBS

HAENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain Index2.mxd



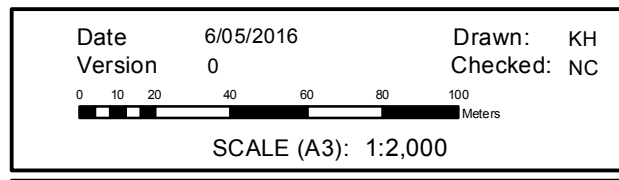
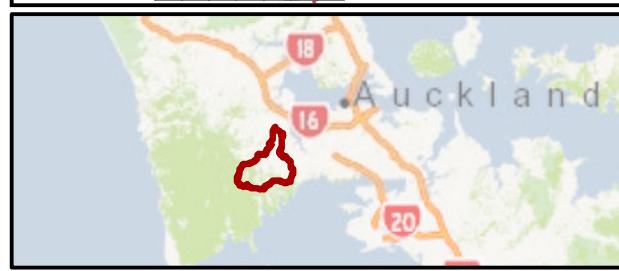
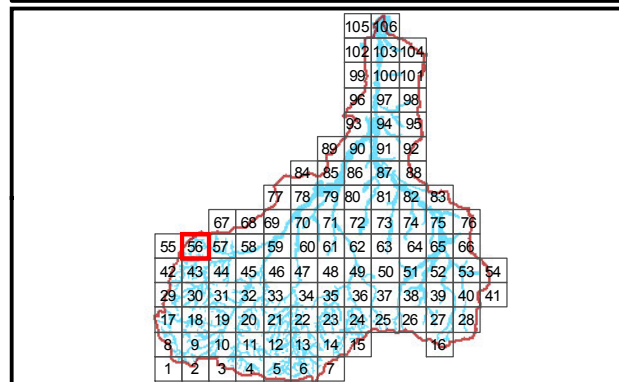
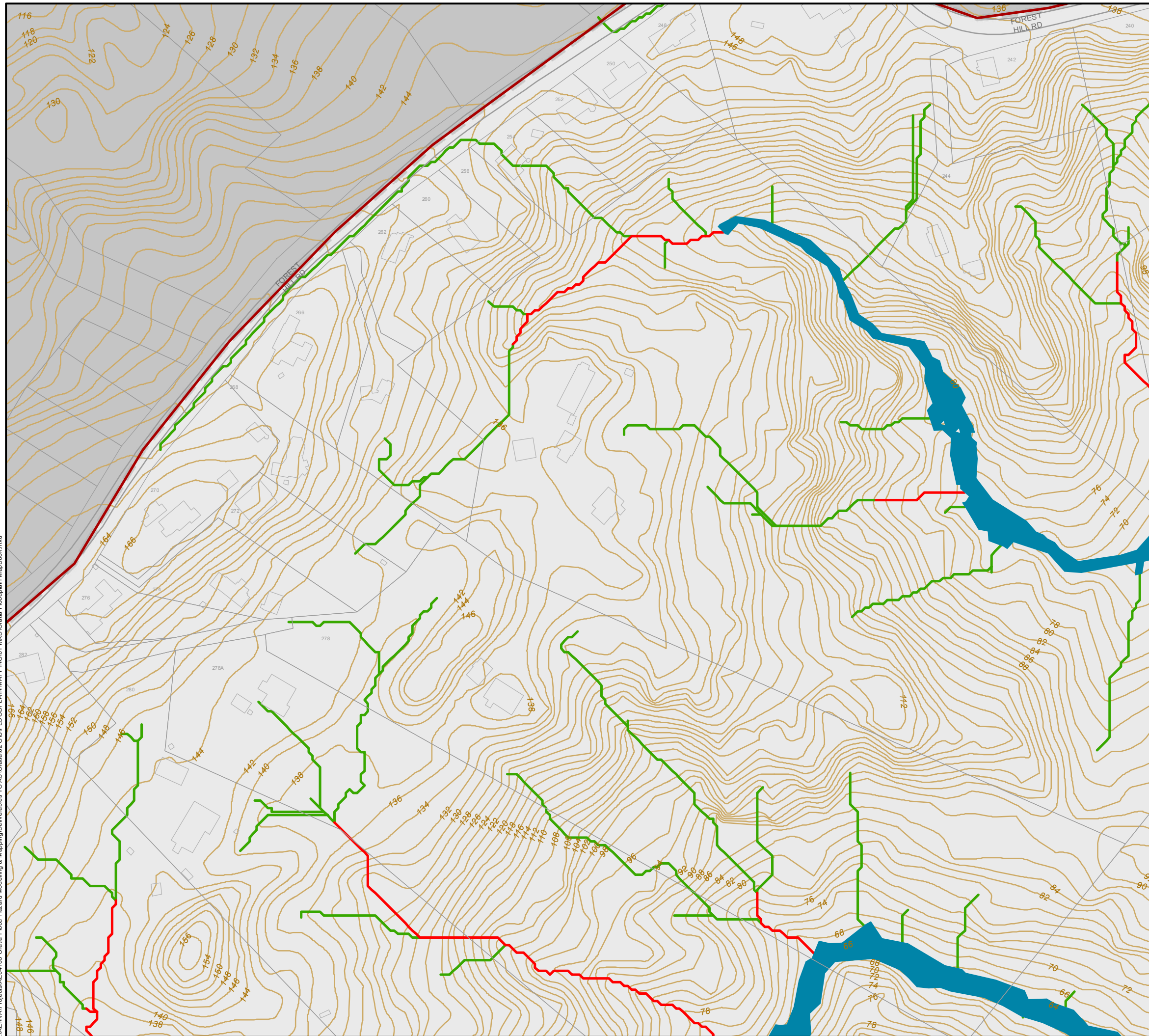
Date 6/05/2016 Drawn: KH
Version 0 Checked: NC



ORATIA
SYSTEM PERFORMANCE ASSESSMENT
Index Map

Figure H.1 Floodplain Map (MPD Scenario)

\\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



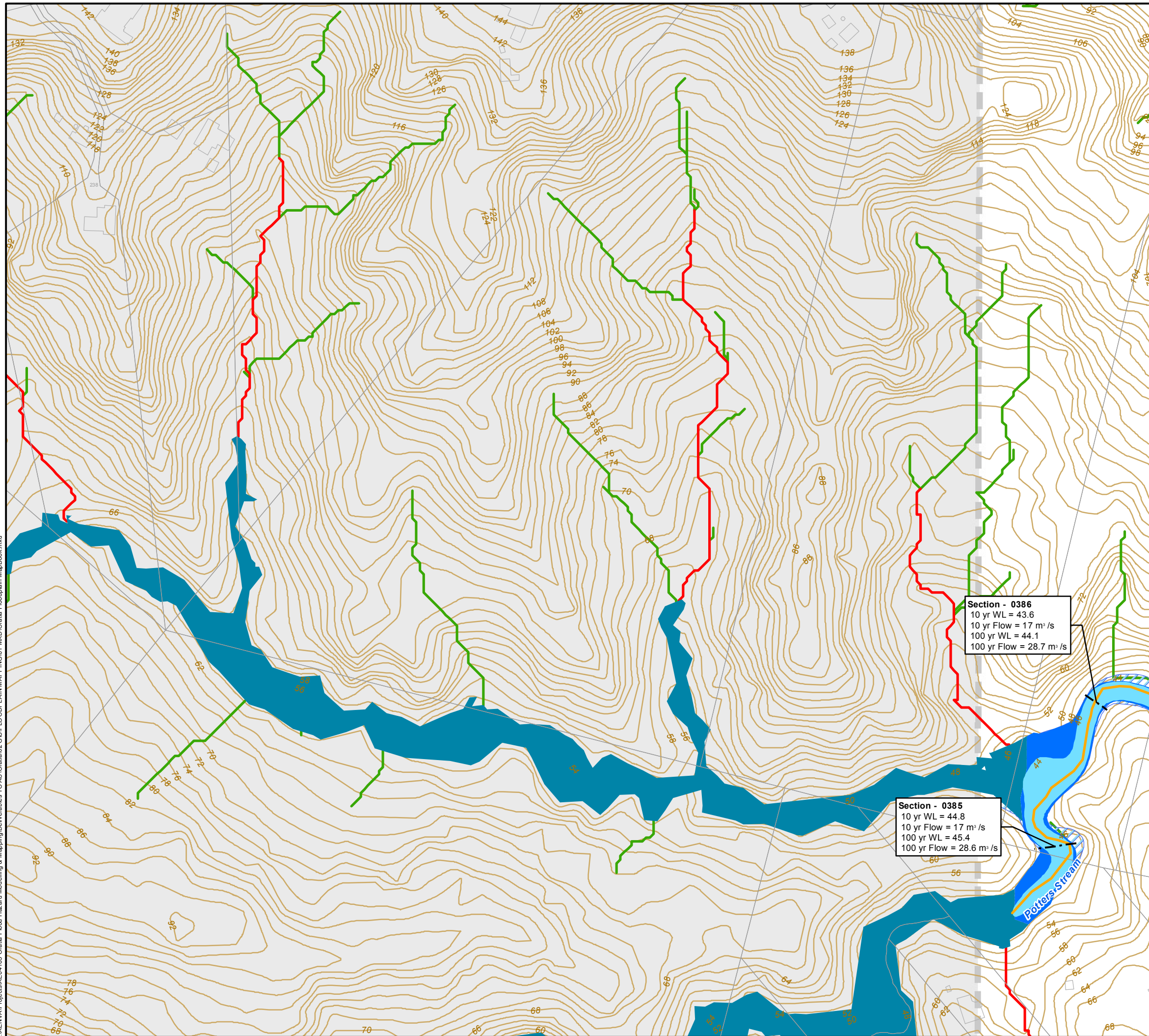
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 56 of 106

Figure H.1 Floodplain Map (MPD Scenario)

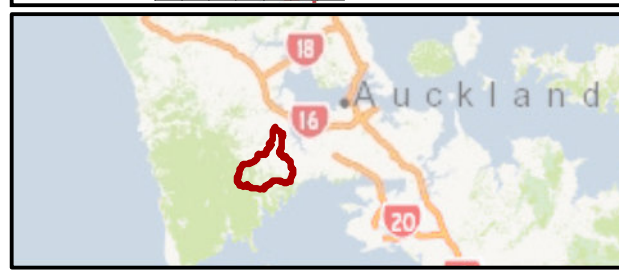
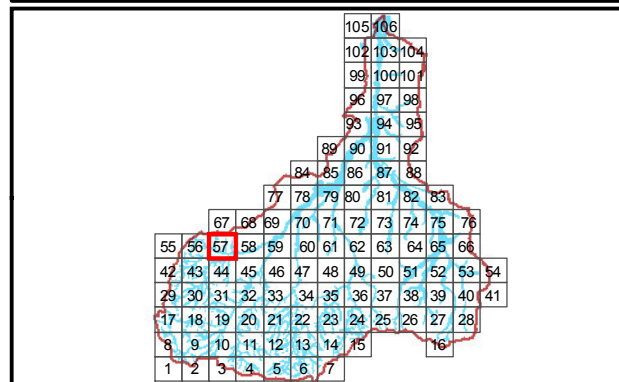
I:\ENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



Section - 0386
 10 yr WL = 43.6
 10 yr Flow = 17 m³/s
 100 yr WL = 44.1
 100 yr Flow = 28.7 m³/s

Section - 0385
 10 yr WL = 44.8
 10 yr Flow = 17 m³/s
 100 yr WL = 45.4
 100 yr Flow = 28.6 m³/s

- Section with Levels
- Habitable floor under flood: 100yr MPD
- Non habitable floor under flood: 100yr MPD
- Habitable floor within 500mm: 100yr MPD
- Habitable floor above 500mm: 100yr MPD
- Building floor not surveyed
- Modelled Stream Network
- Modelled Stormwater Nodes
- Modelled Pipe Network
- 10 year MPD Floodplain
- 100 year MPD Floodplain
- 100 year MPD Floodplain from RFHA
- Flood Sensitive Area
- 100yr Overland Flow (<0.5 m3/s)
- 100yr Overland Flow (0.5 - 2.0 m3/s)
- Contours
- Outside 2D model extent
- Catchment Boundary
- Outside catchment



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

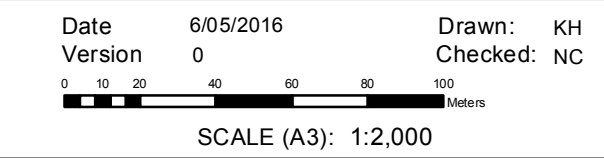
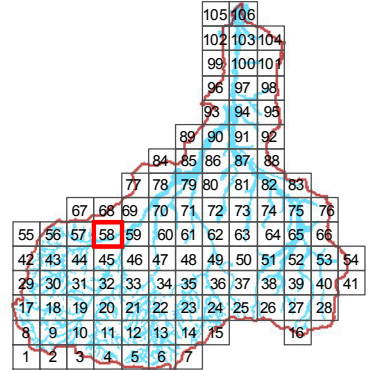
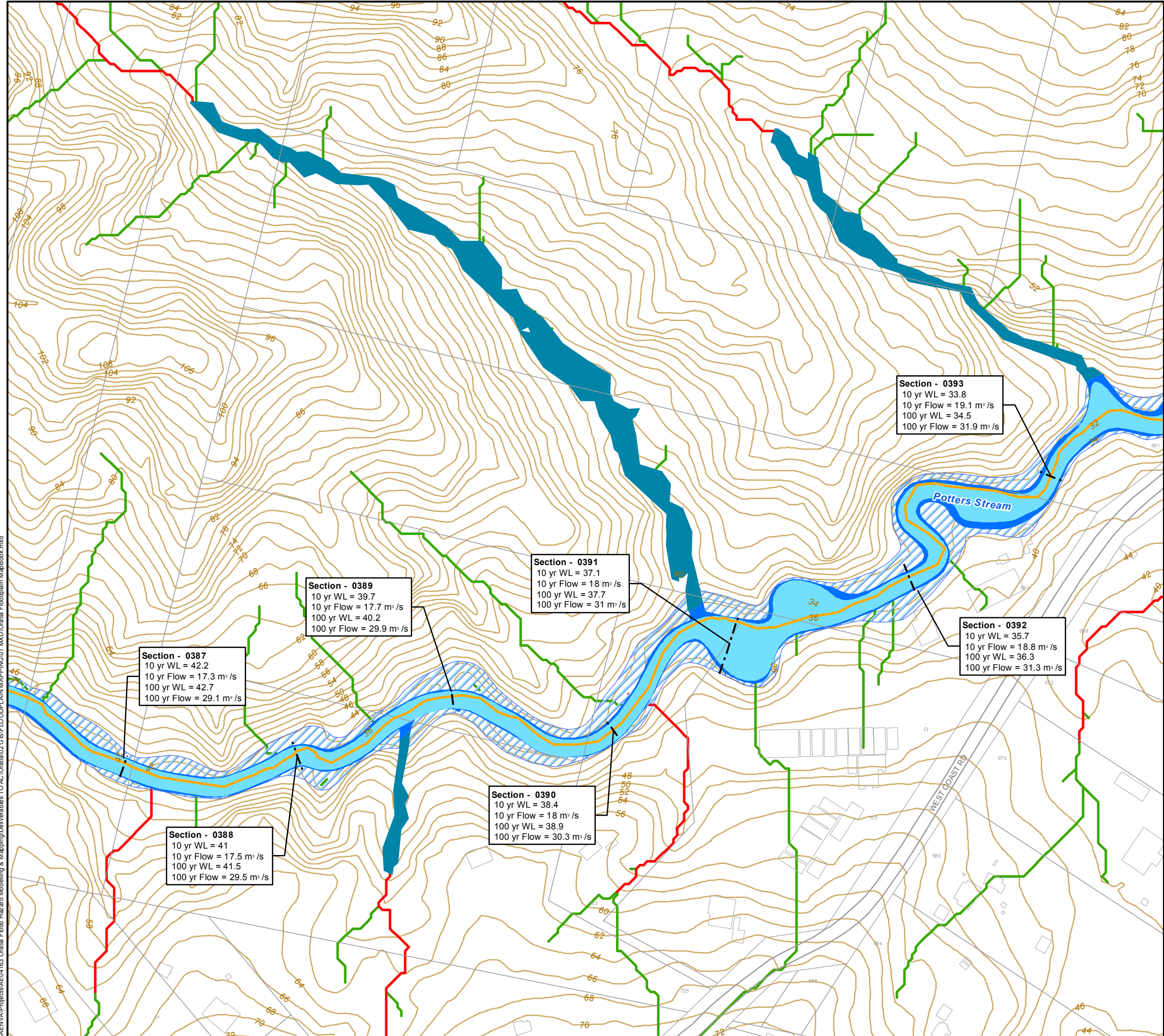
SCALE (A3): 1:2,000

JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 57 of 106

Figure H.1 Floodplain Map (MPD Scenario)



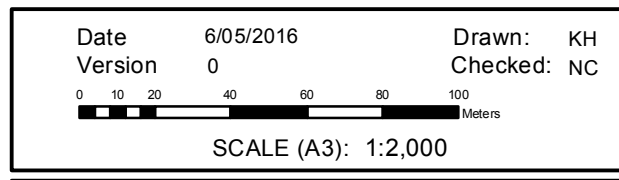
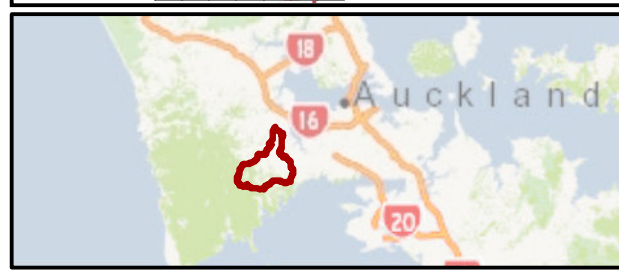
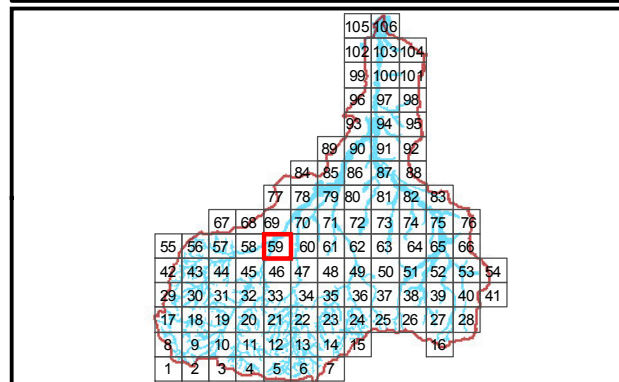
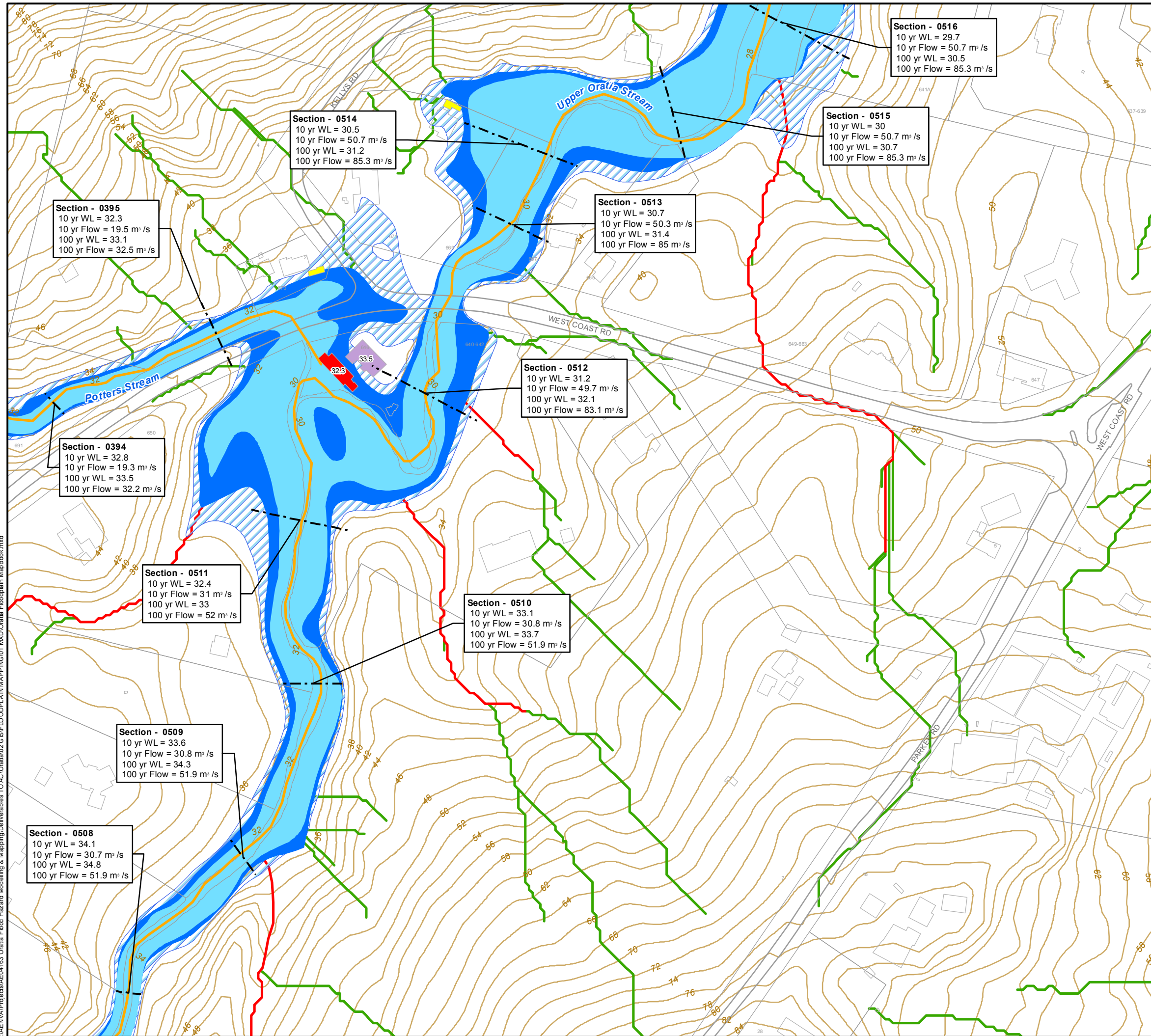
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 58 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



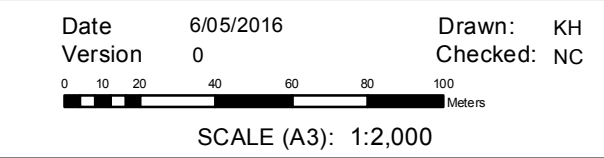
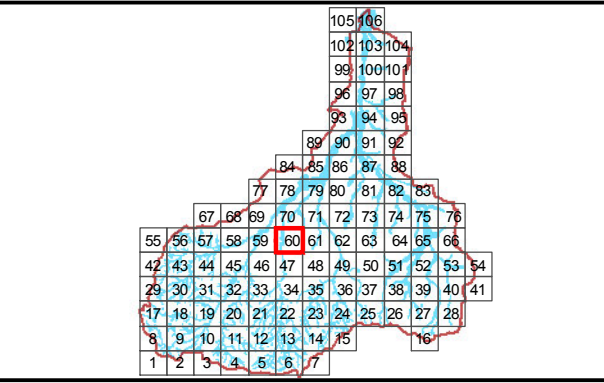
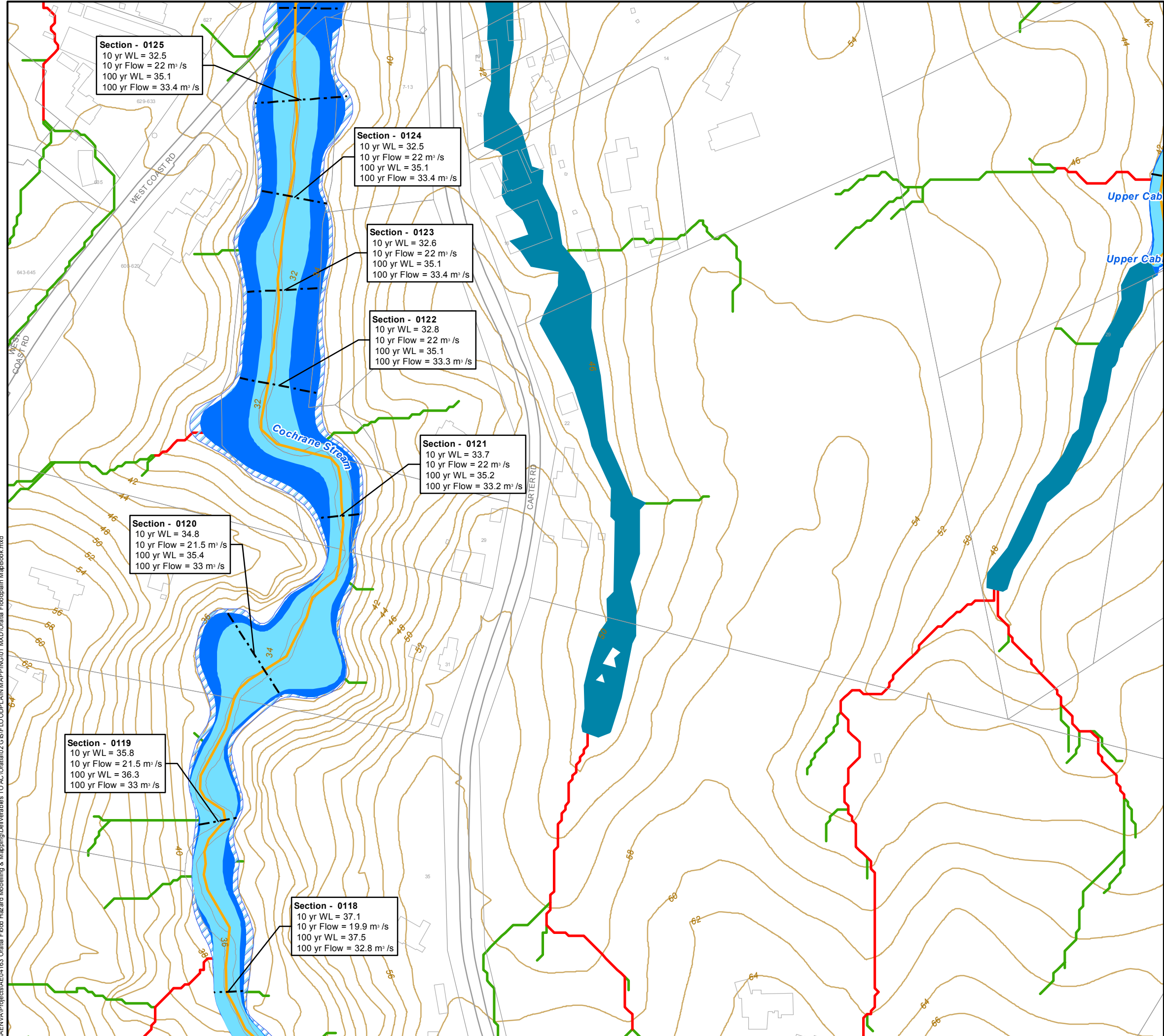
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 59 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\2 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



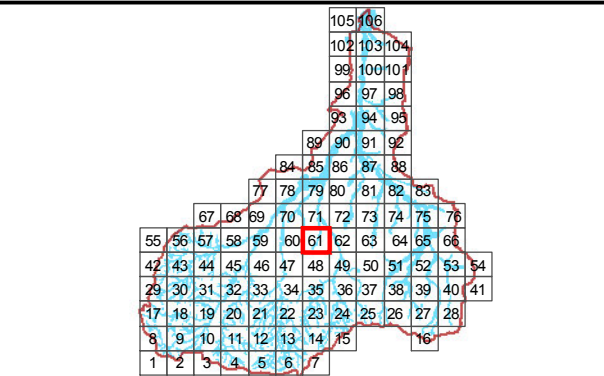
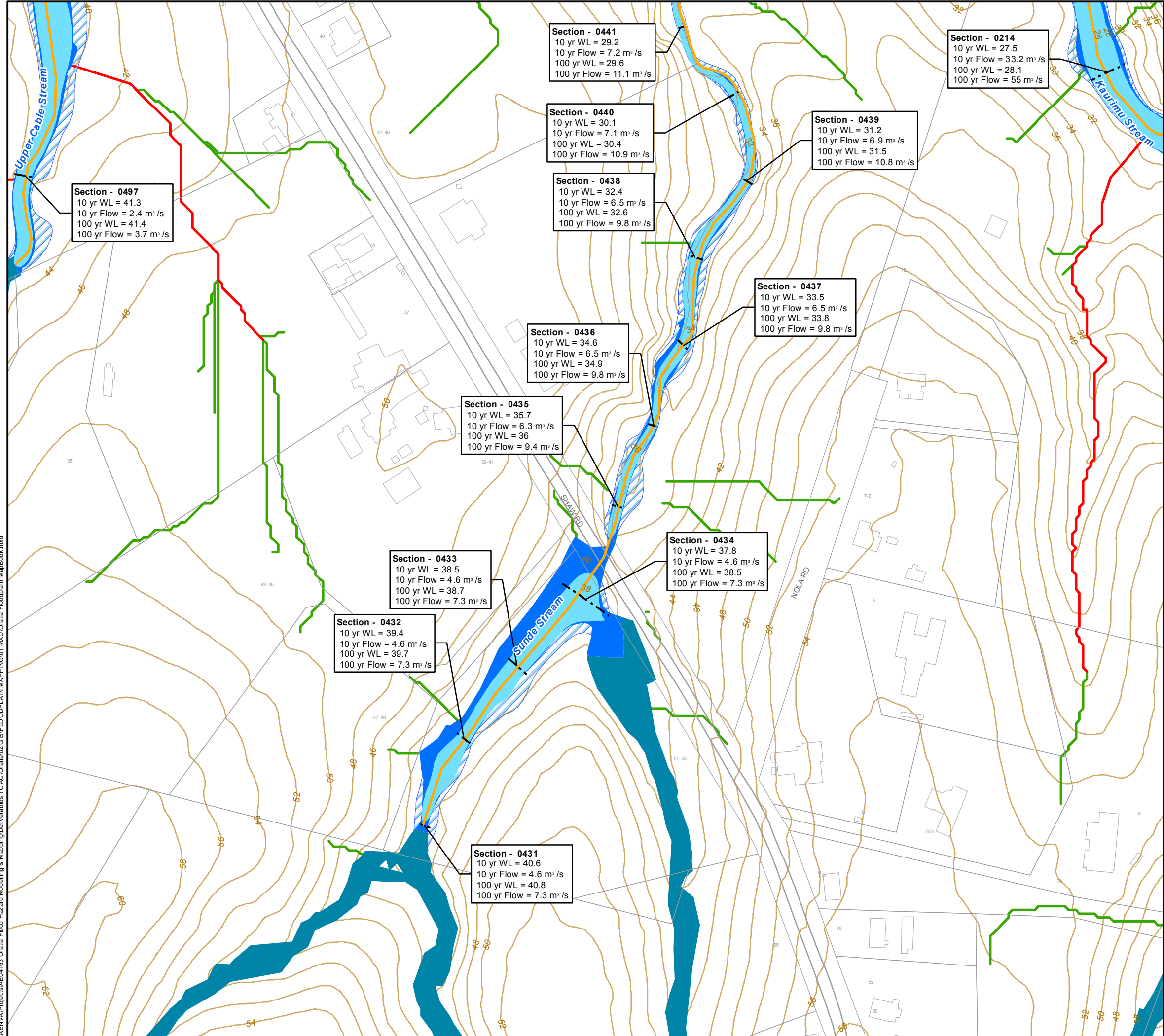
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 60 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN\MAPPING\01 10x10\Oratia Floodplain MapBook.mxd



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000

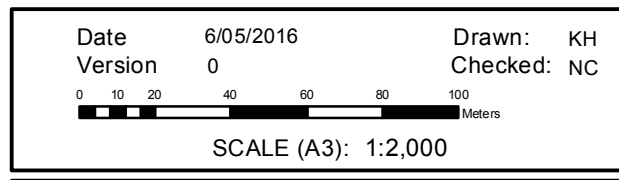
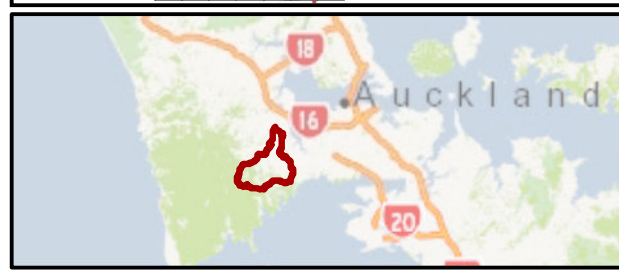
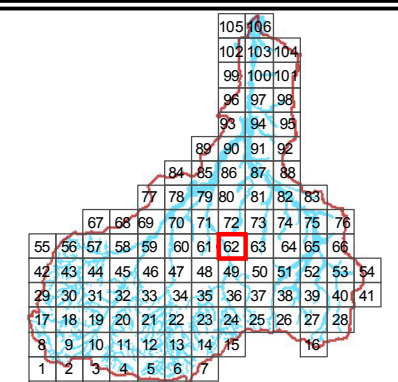
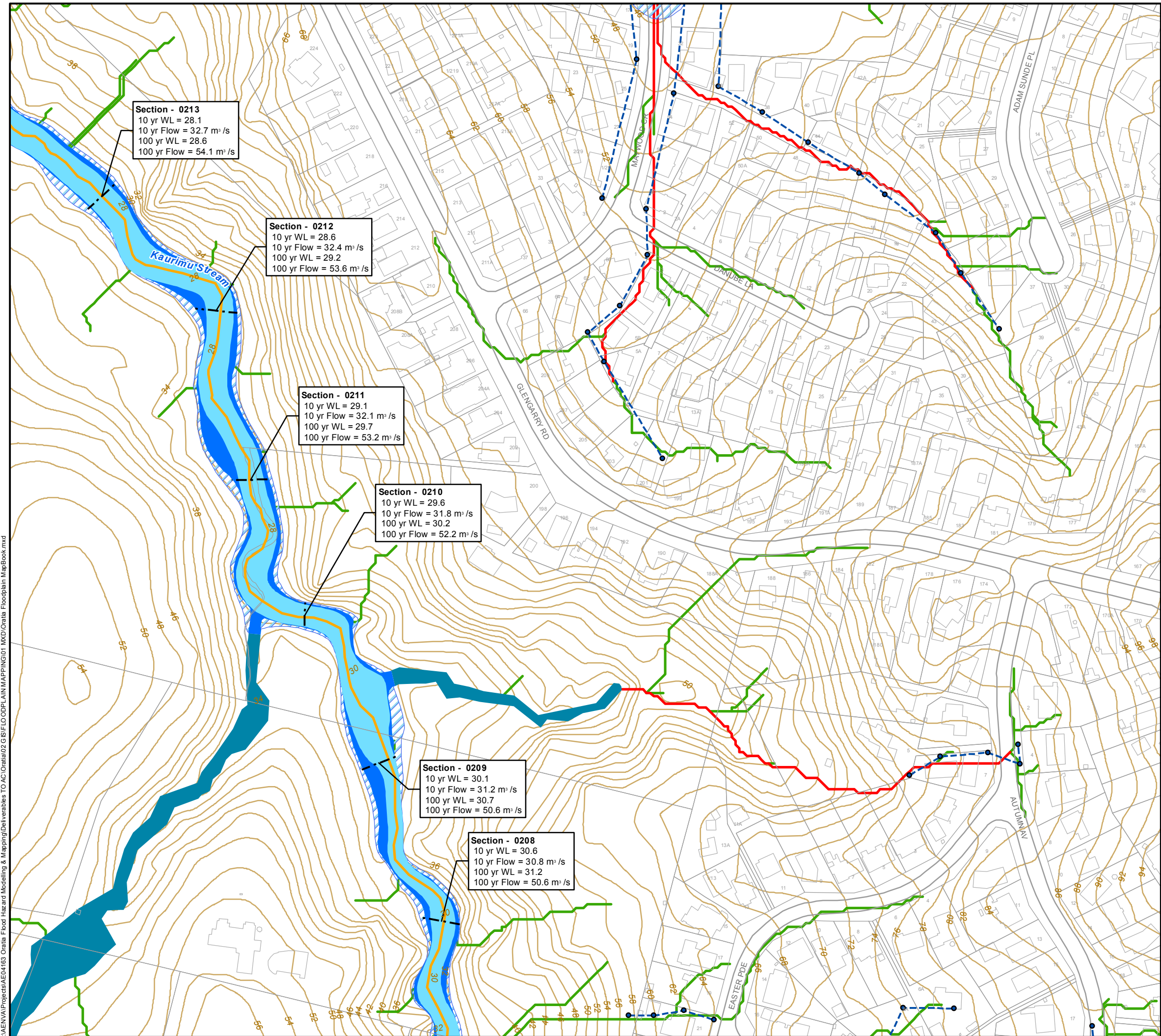
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 61 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



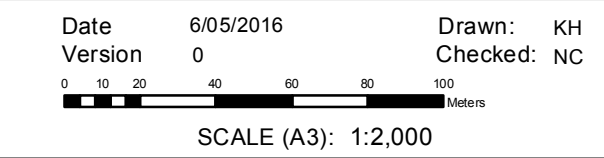
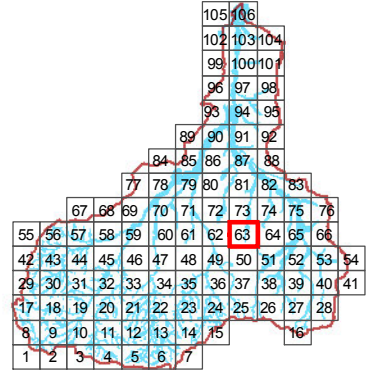
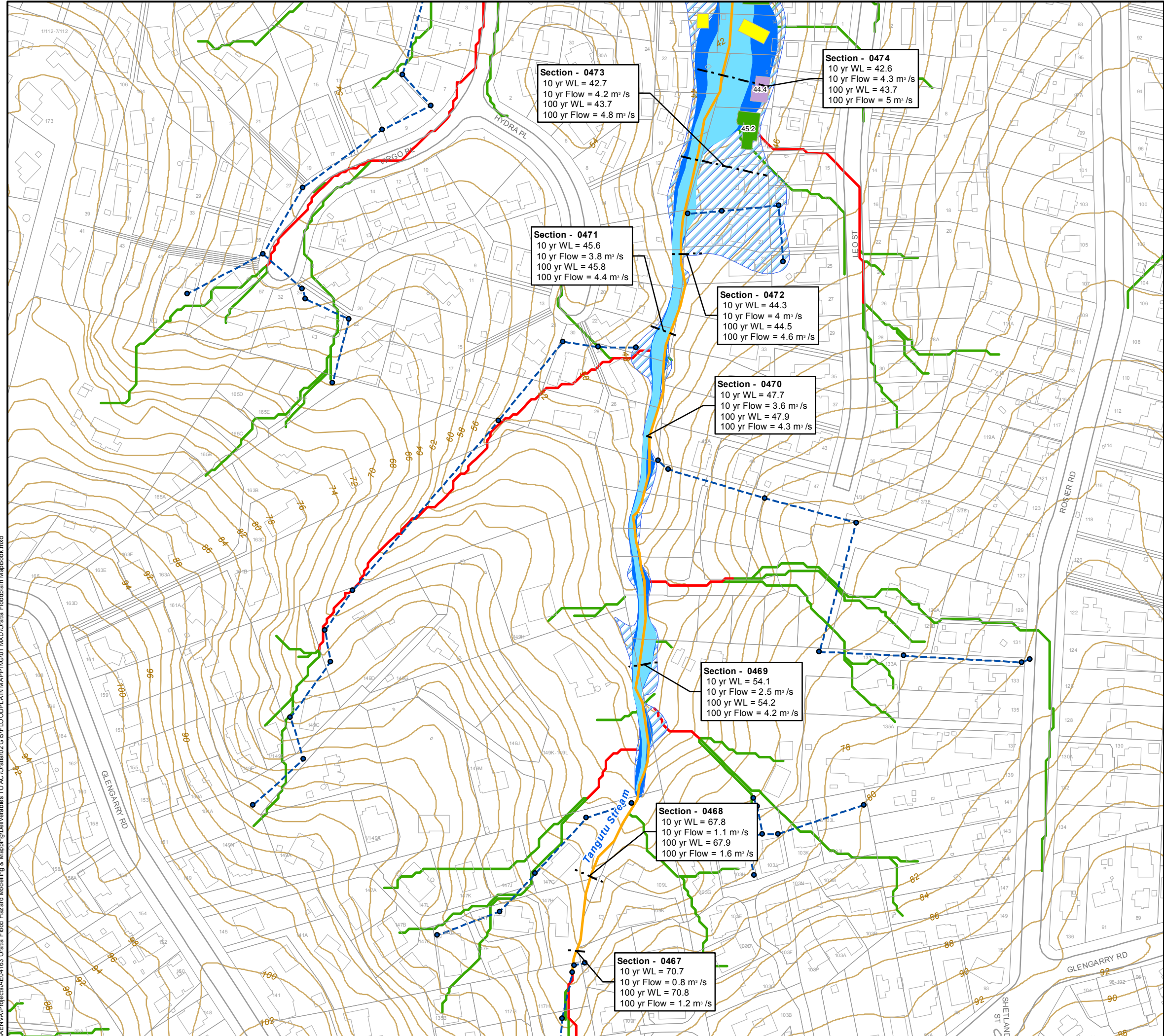
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 62 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



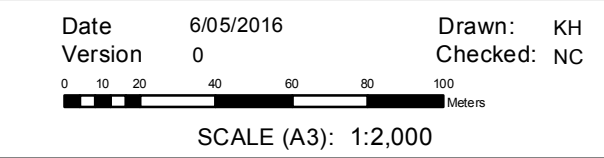
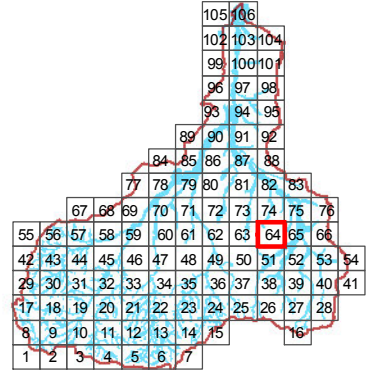
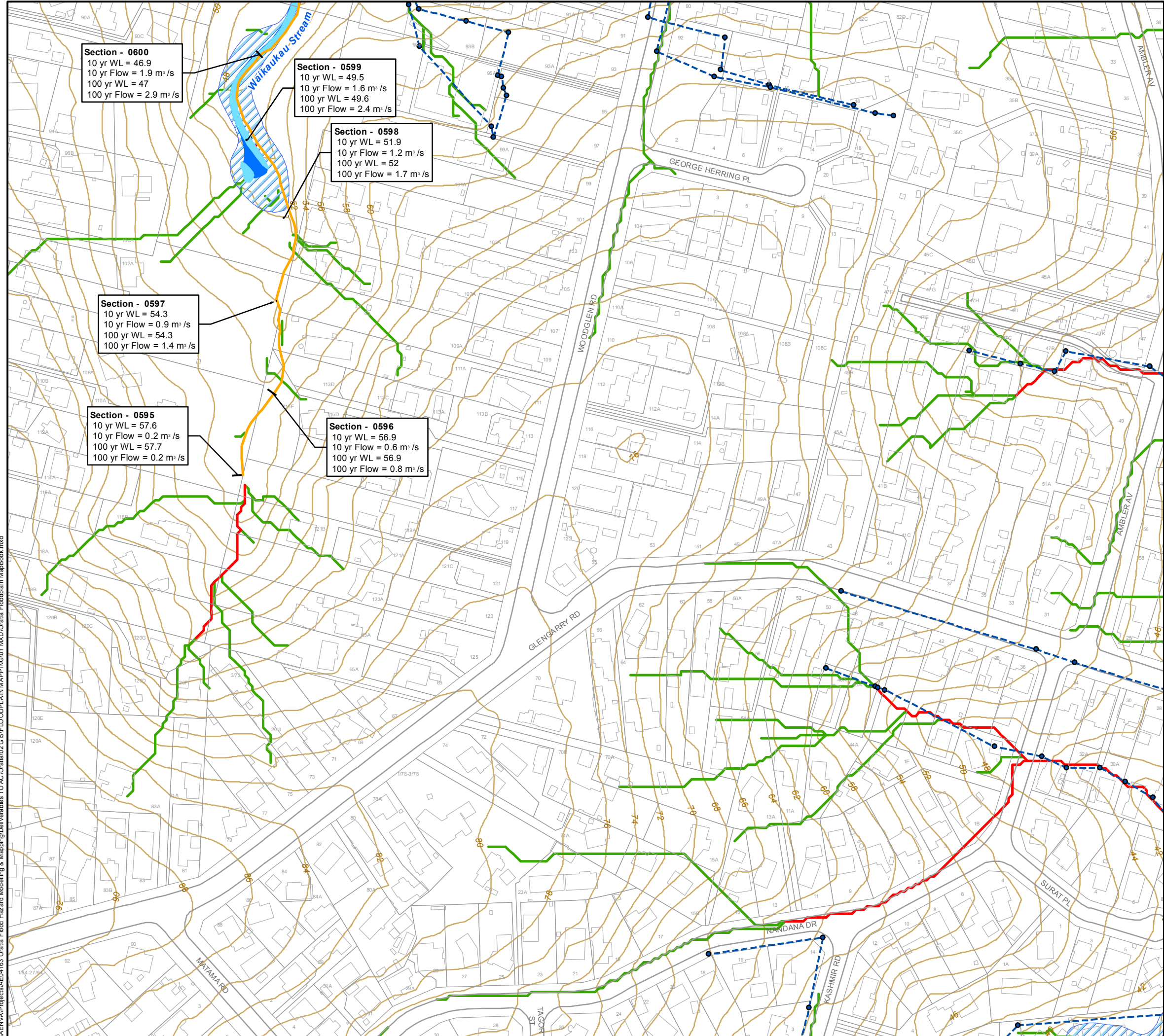
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 63 of 106

Figure H.1 Floodplain Map (MPD Scenario)

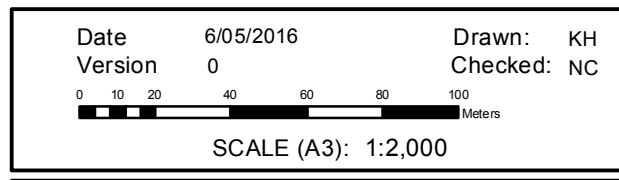
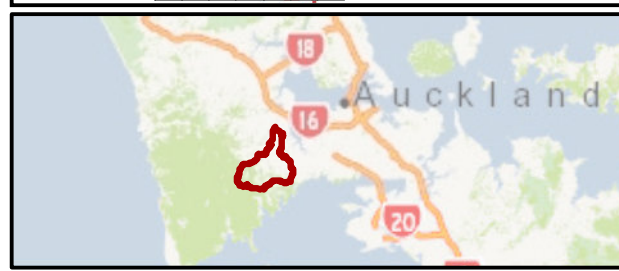
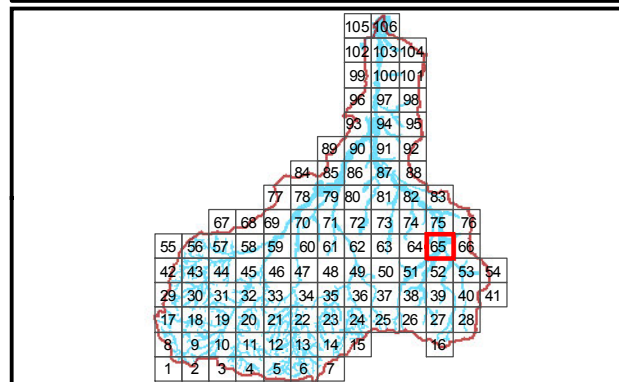
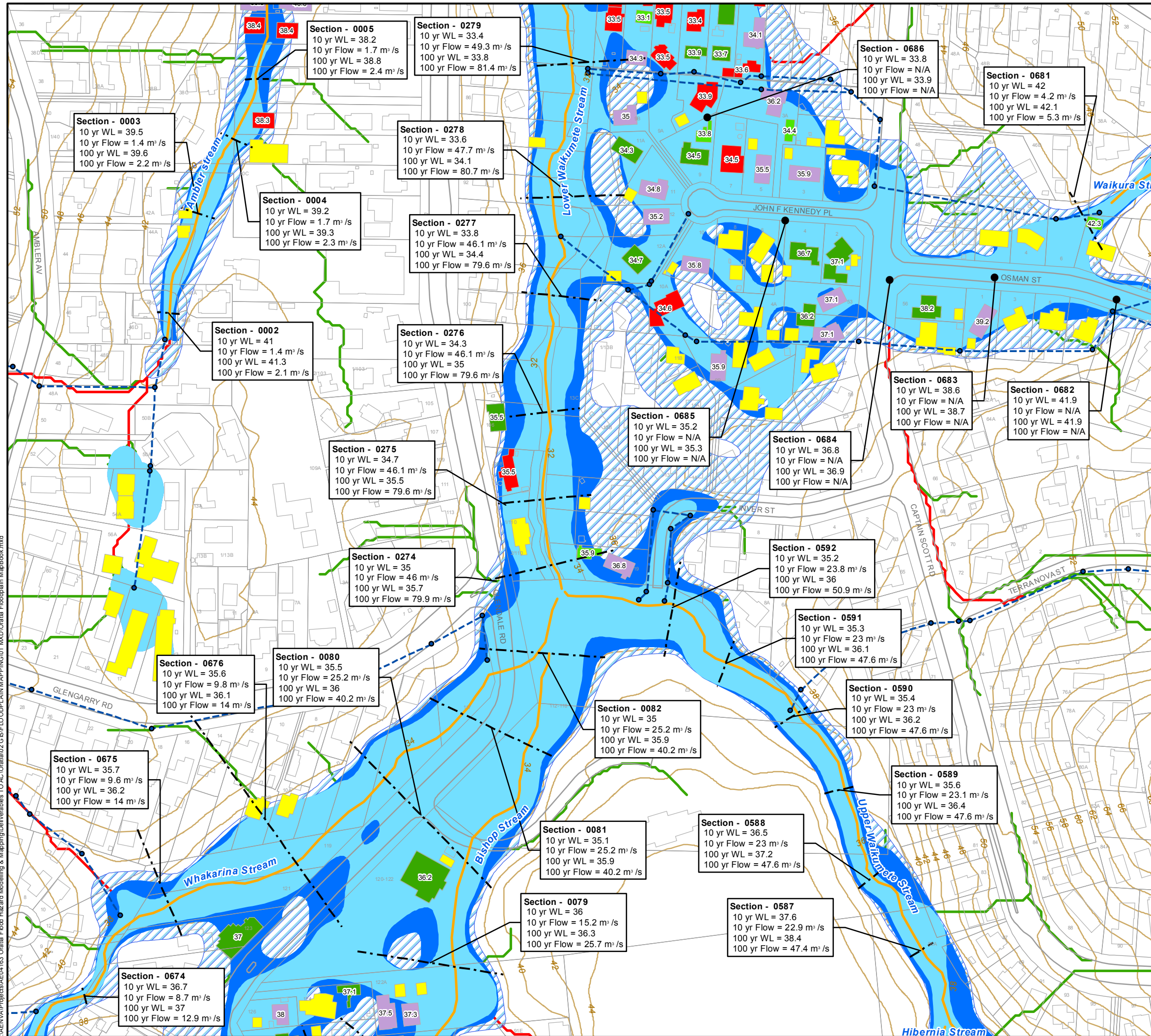
I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



ORATIA
 SYSTEM PERFORMANCE ASSESSMENT
 Sheet 64 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



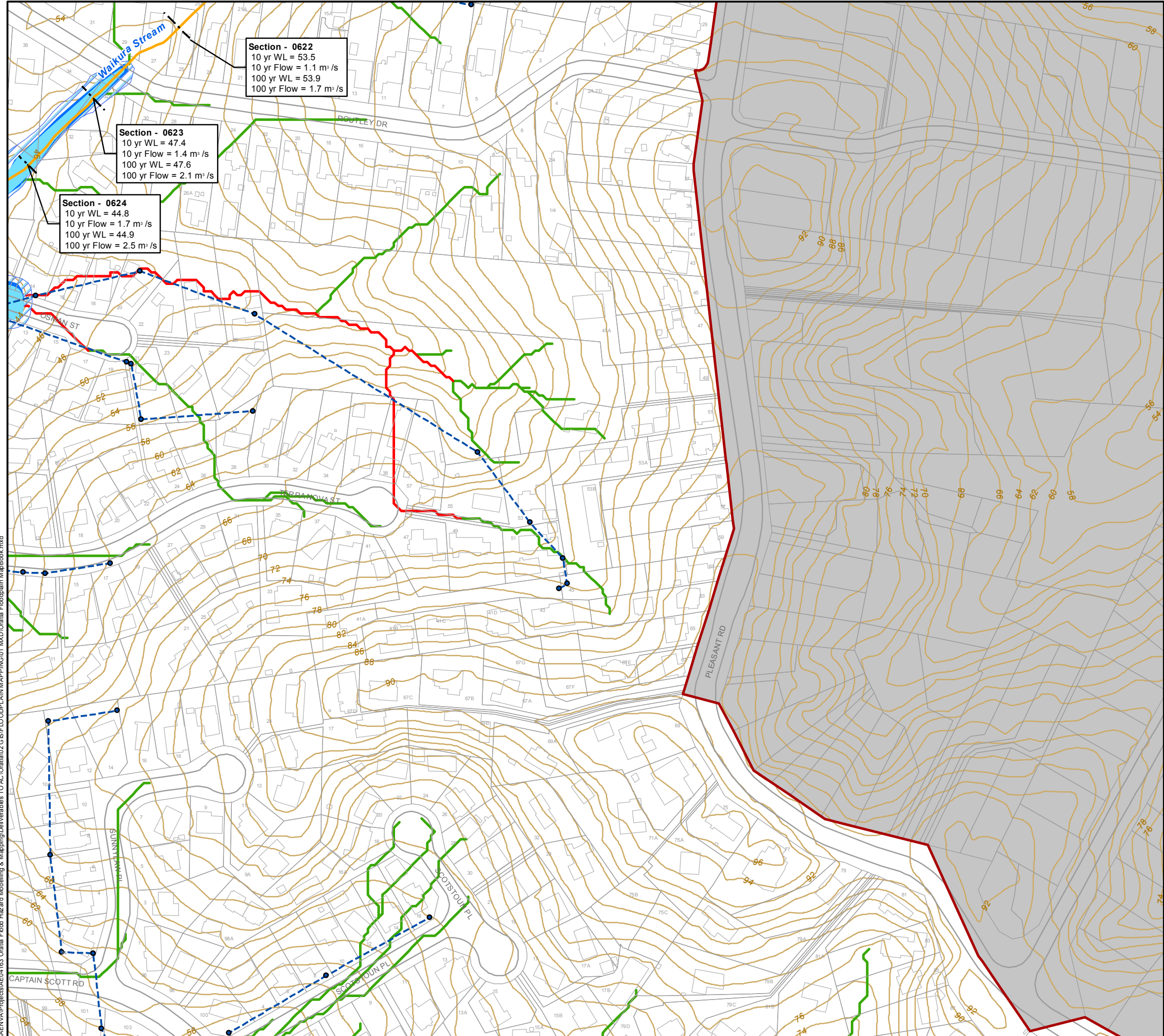
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

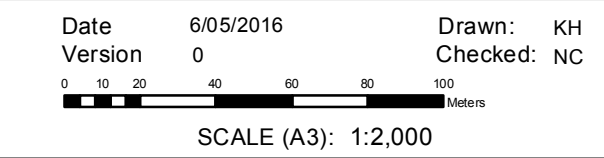
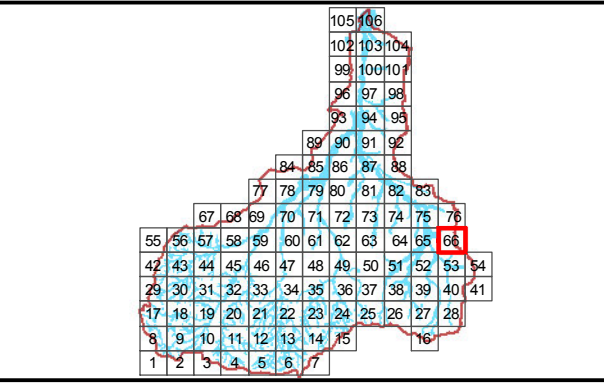
Sheet 65 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\ENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



I:\AENVA\Projects\AEM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\2 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

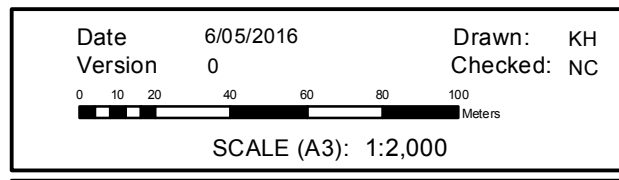
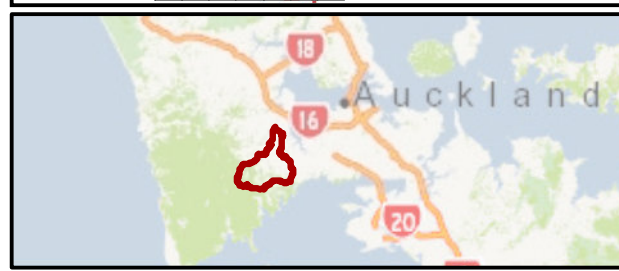
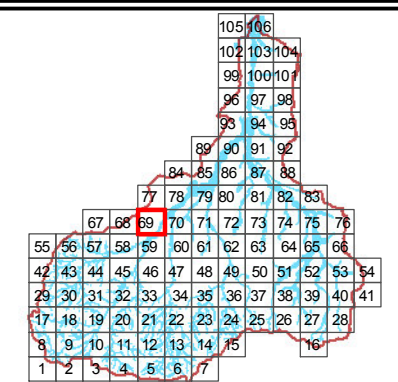
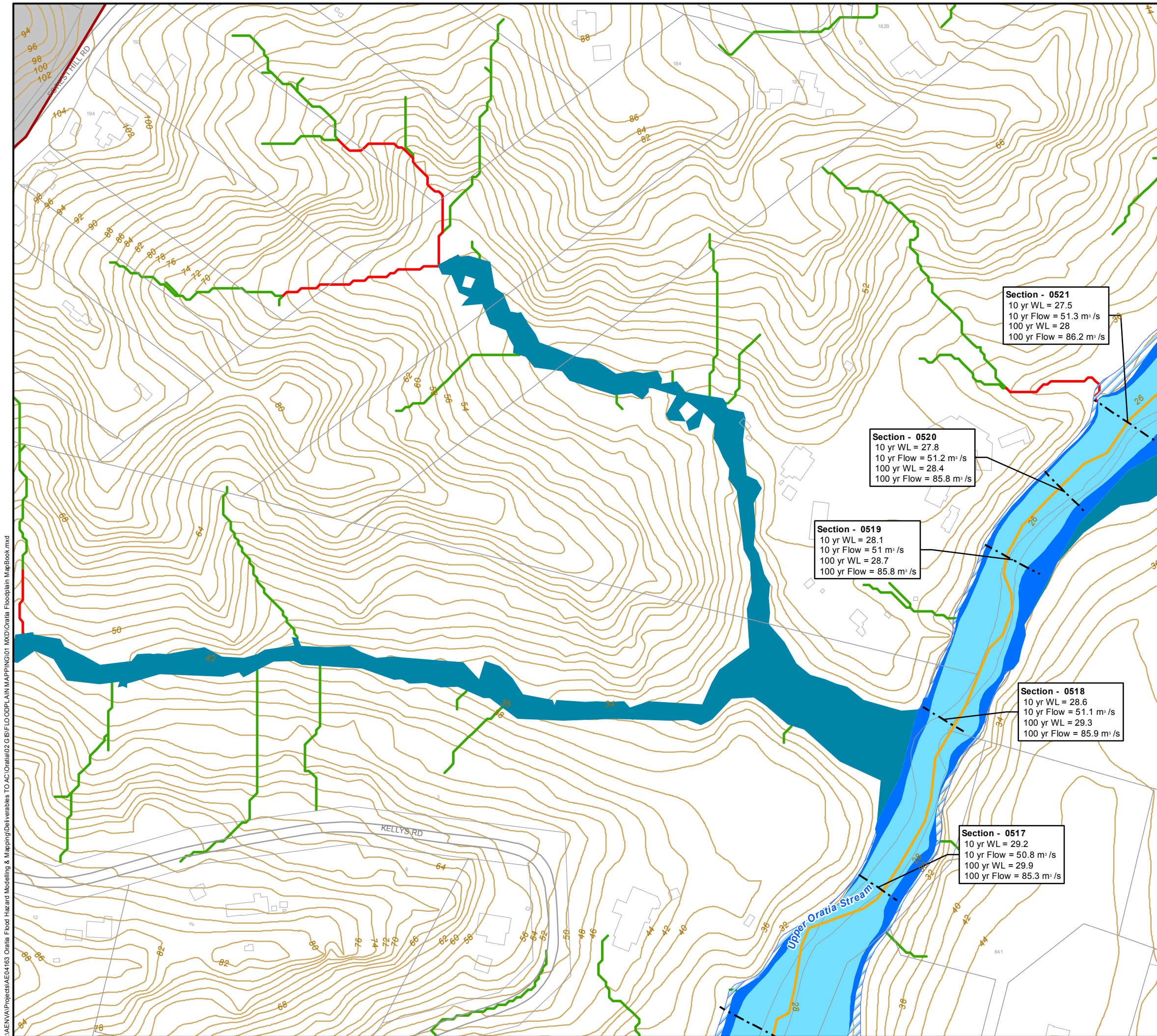


JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 66 of 106

Figure H.1 Floodplain Map (MPD Scenario)



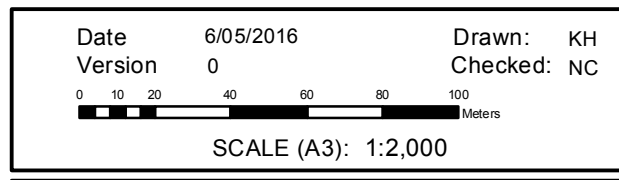
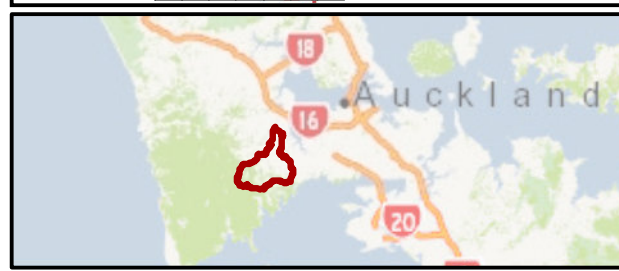
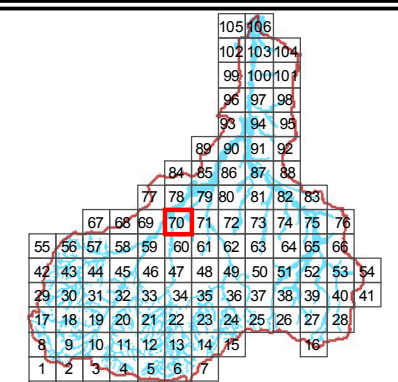
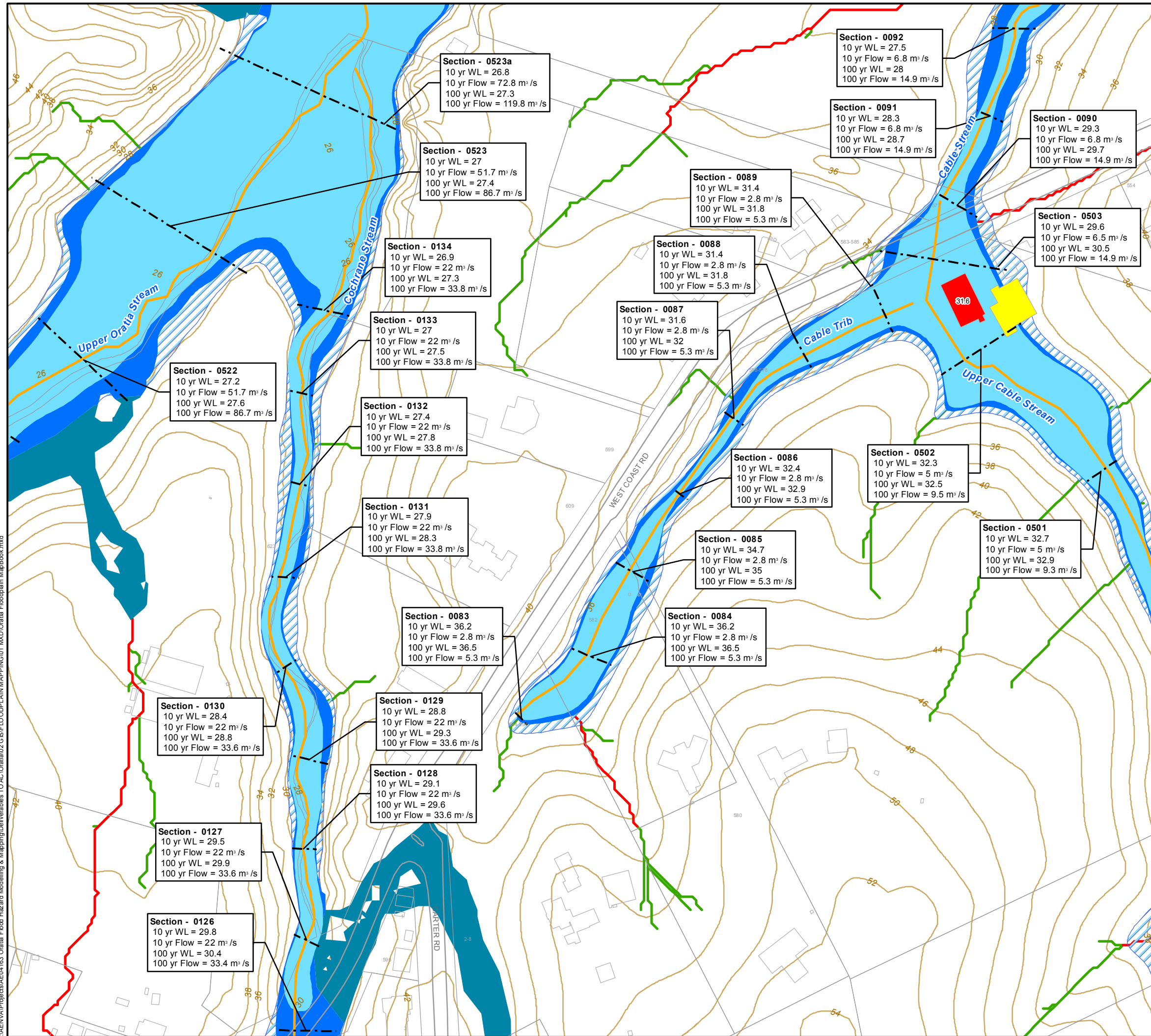
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 69 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



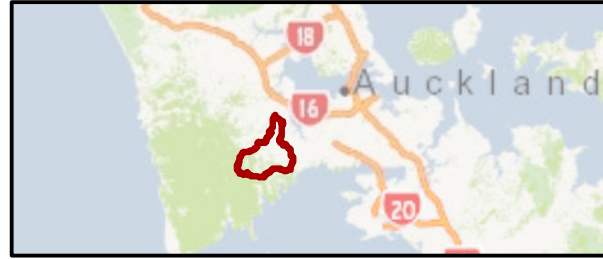
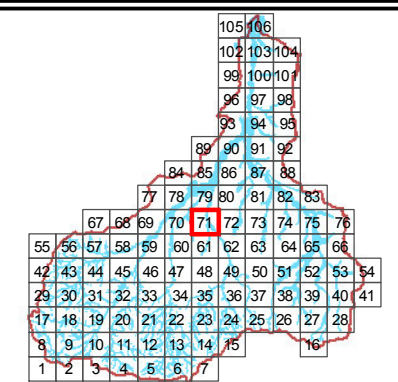
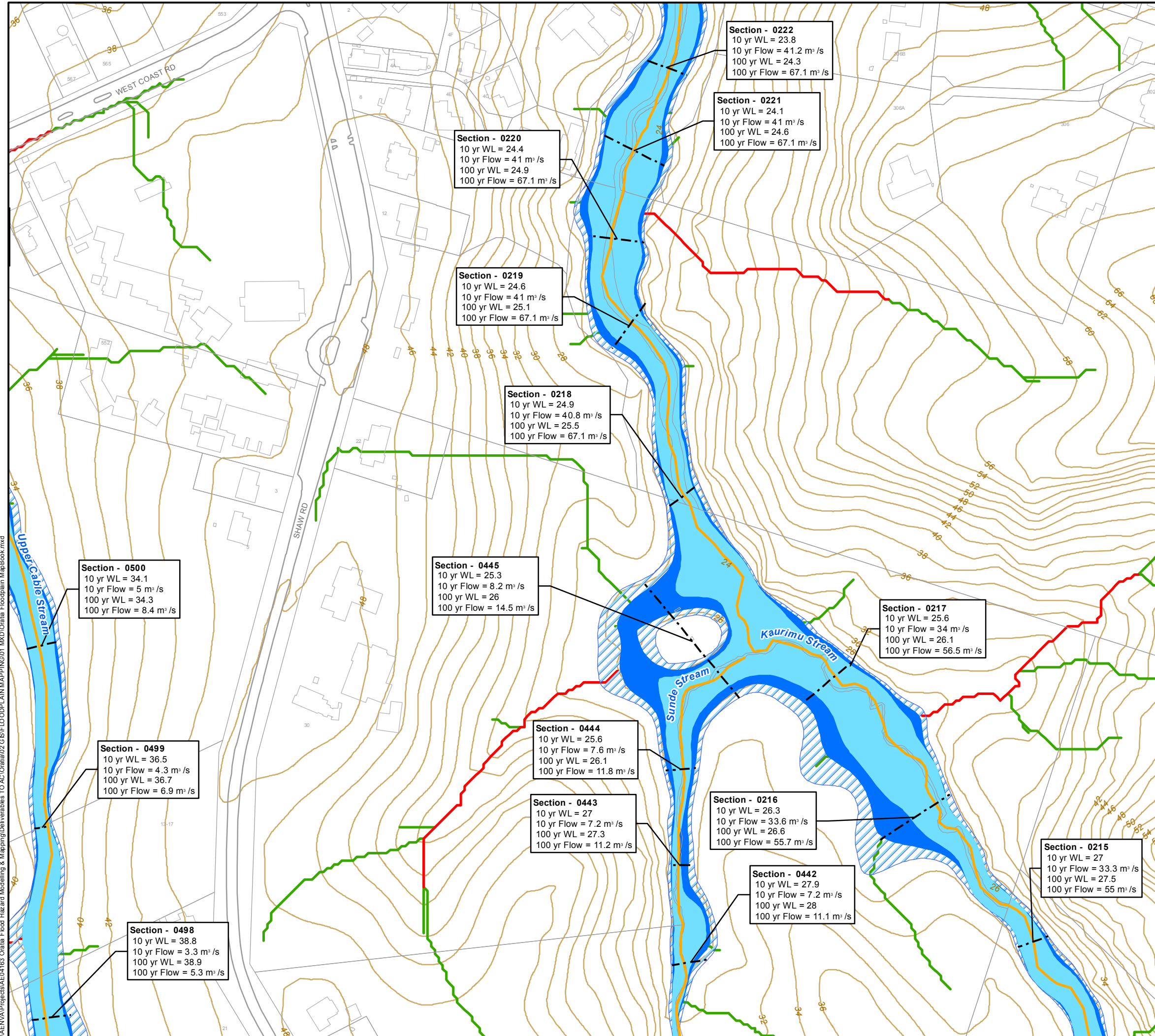
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 70 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



Date 6/05/2016 Drawn: KH
Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000

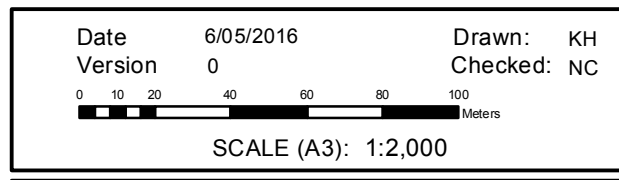
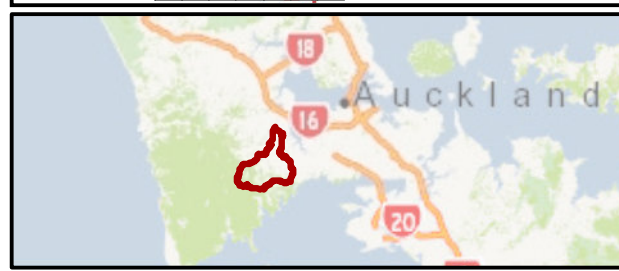
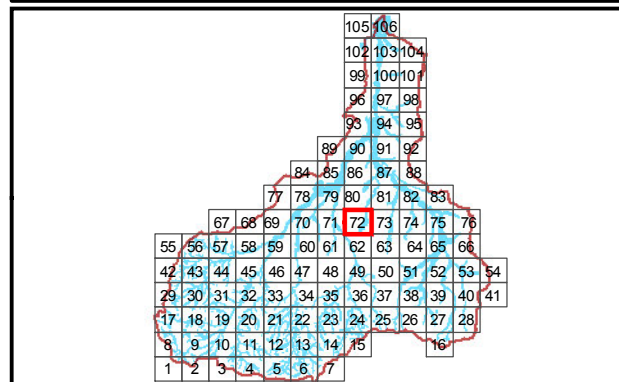
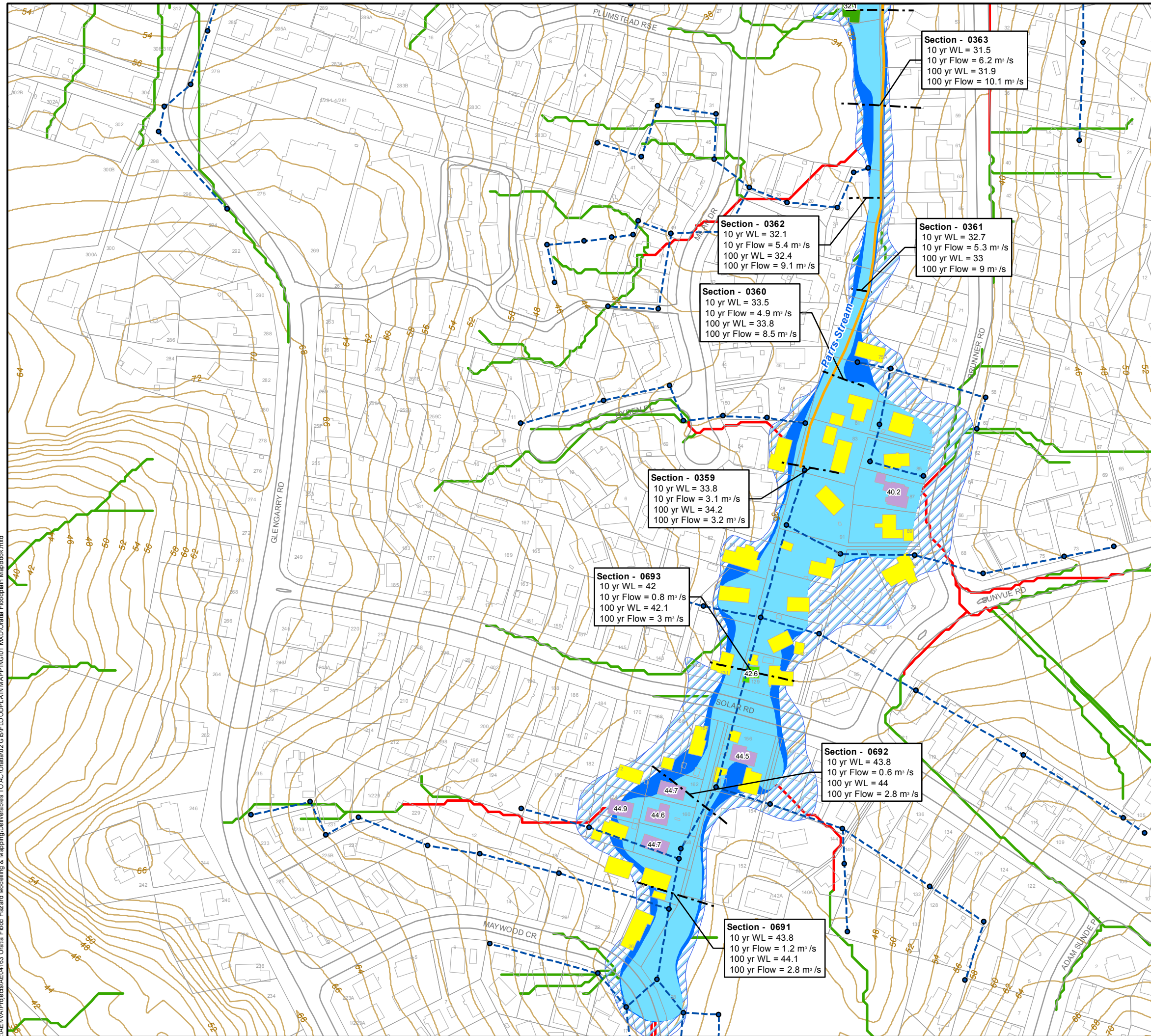
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 71 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\ENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



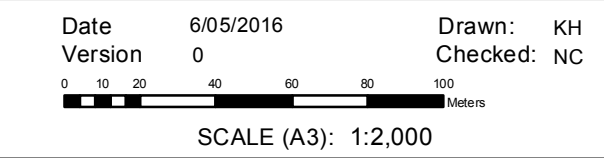
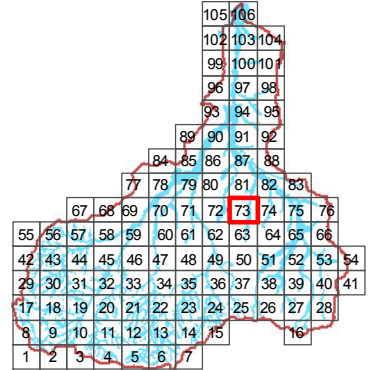
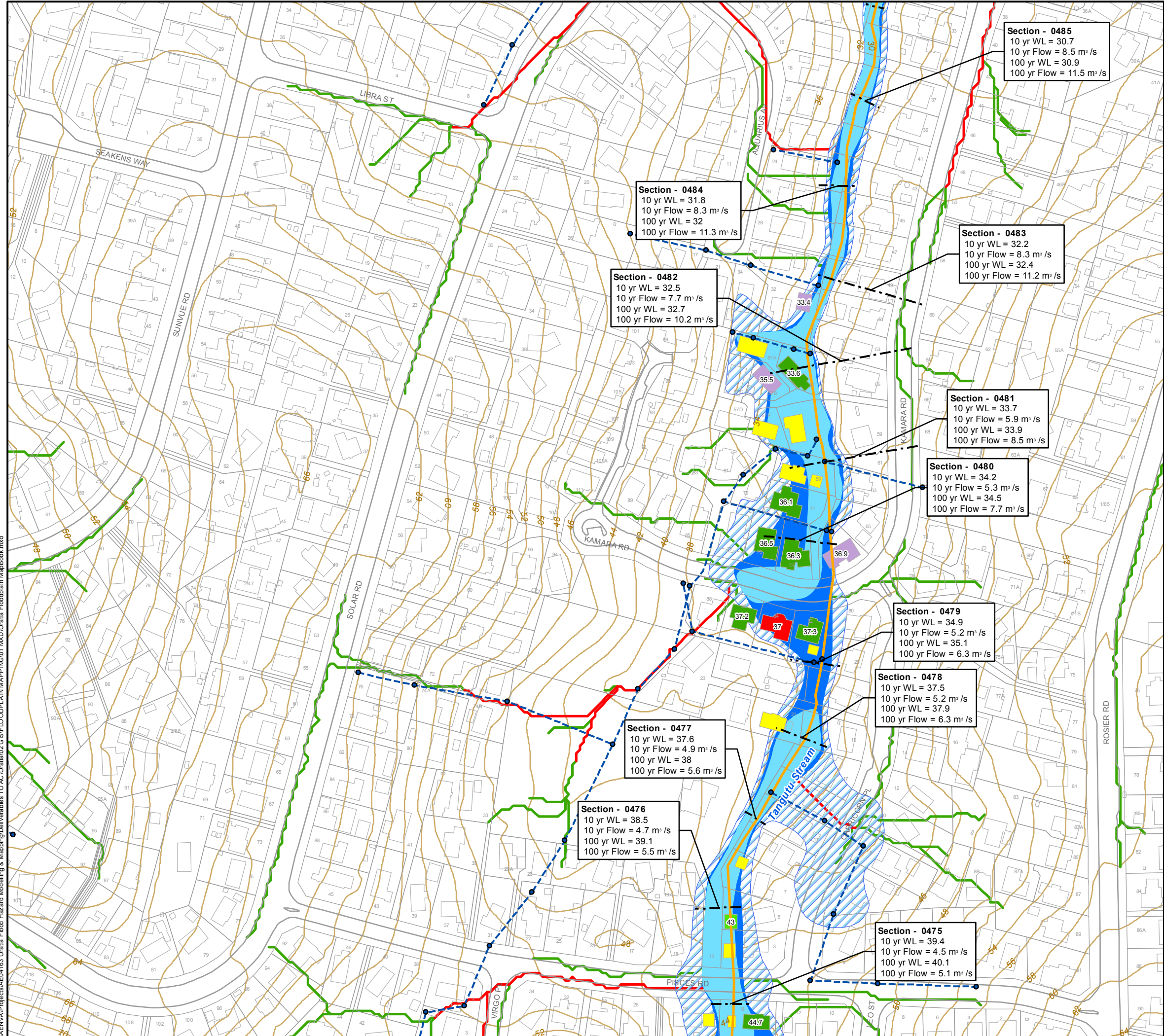
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 72 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AEM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

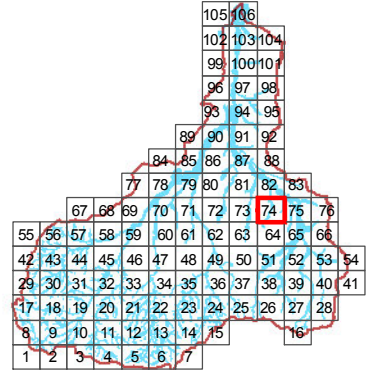
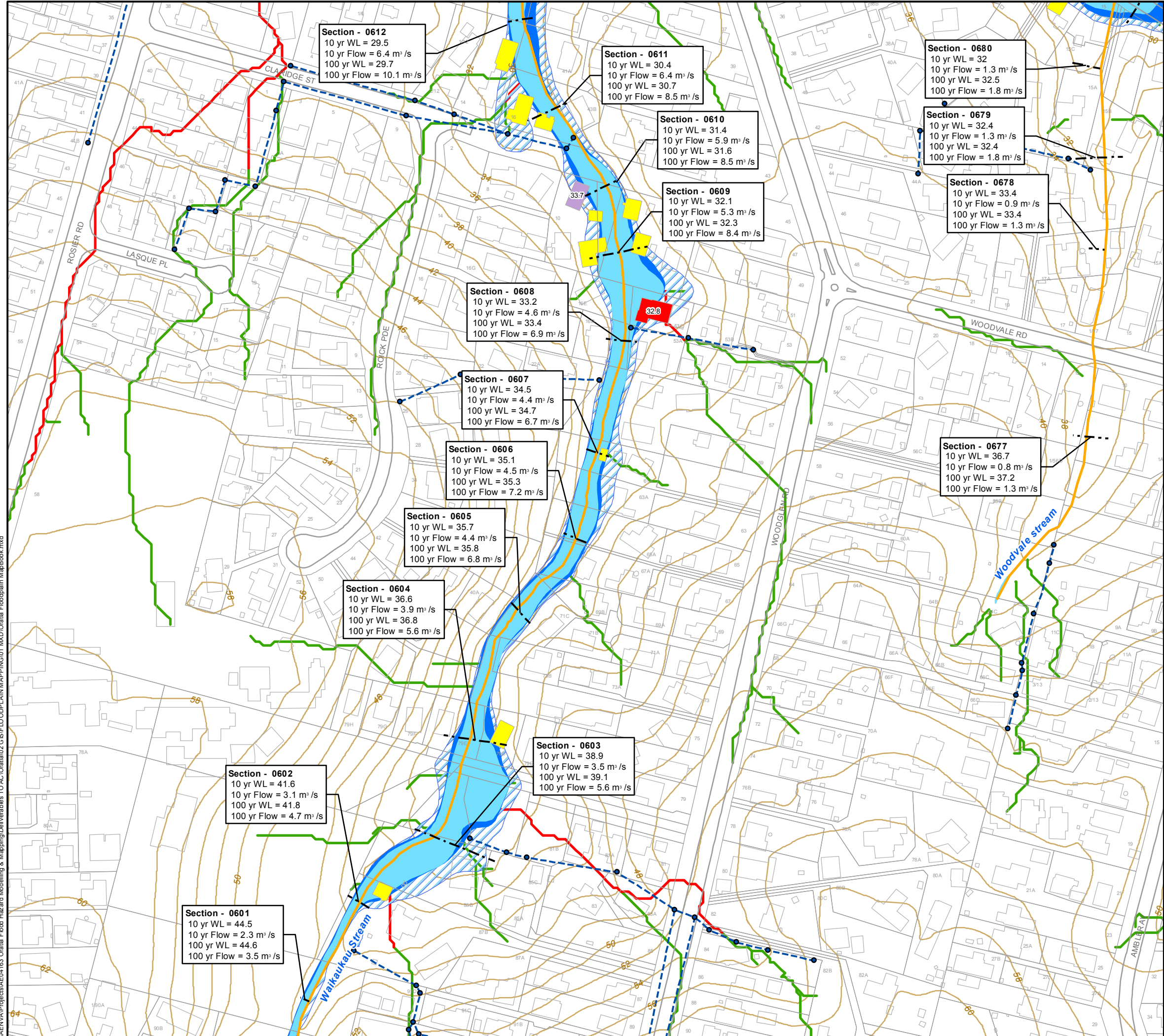


ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 73 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN MAPPING\01 Mxd\Oratia Floodplain MapBook.mxd



Date 6/05/2016 Drawn: KH
Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000

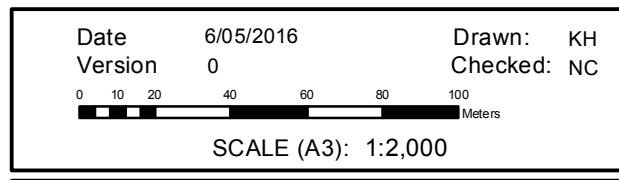
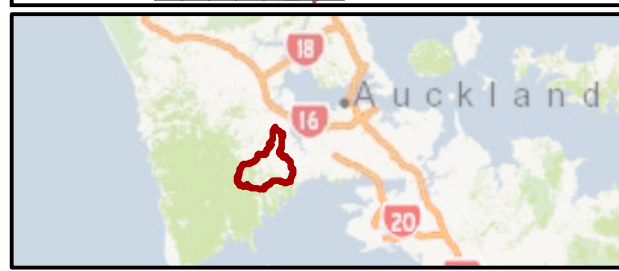
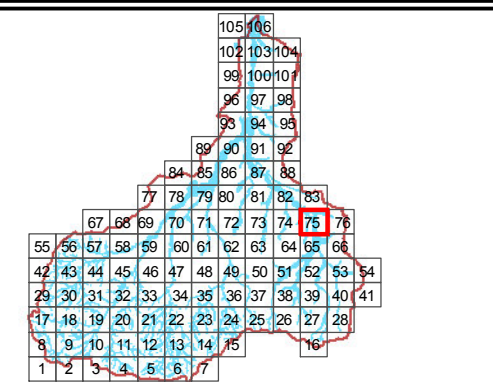
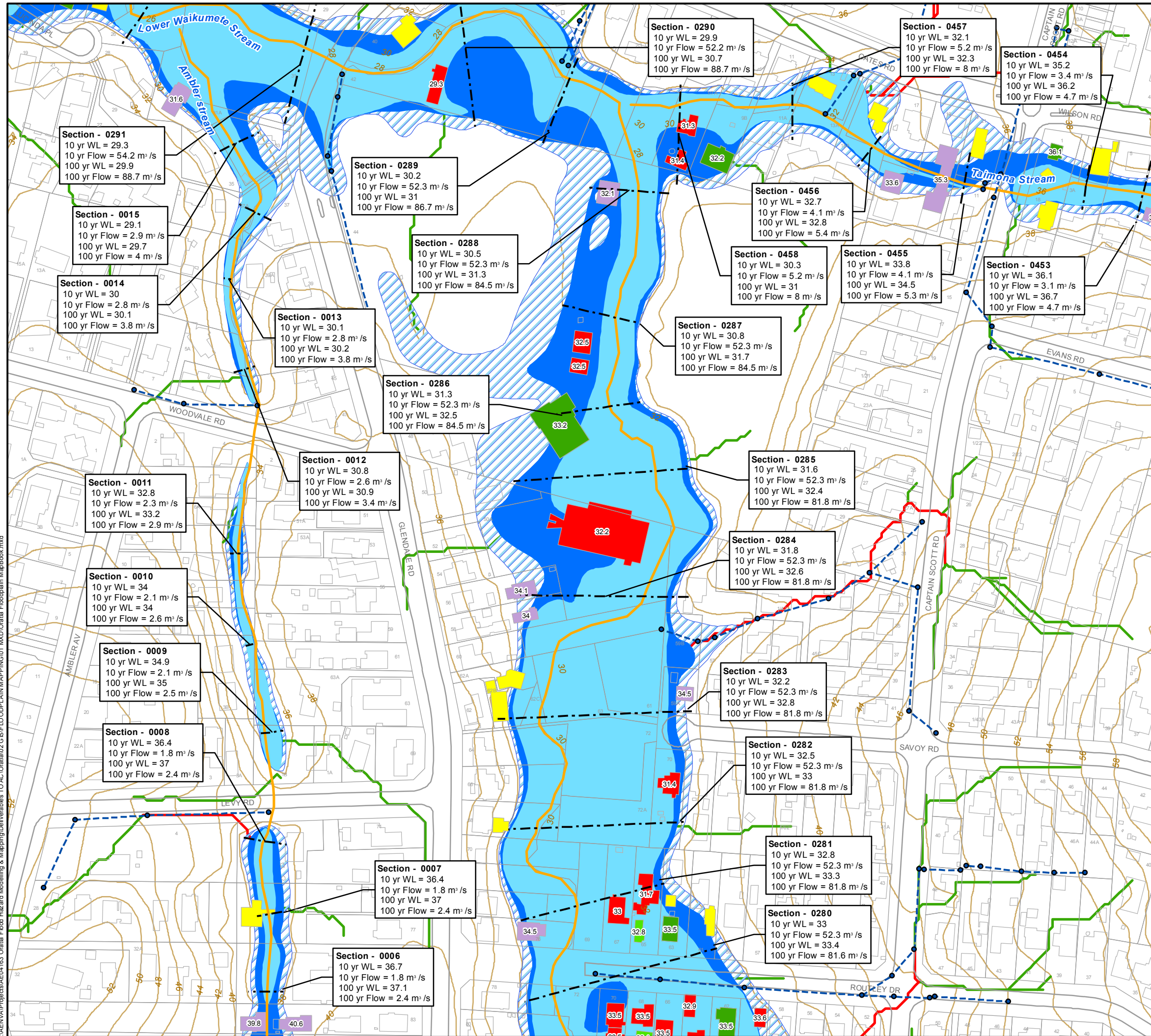
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 74 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\ENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



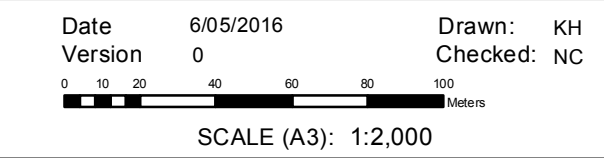
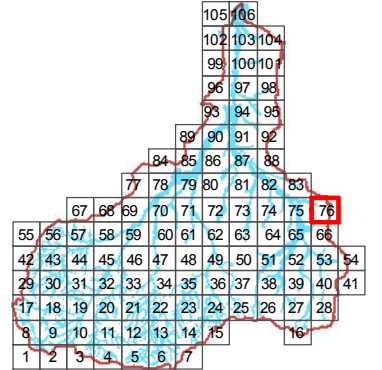
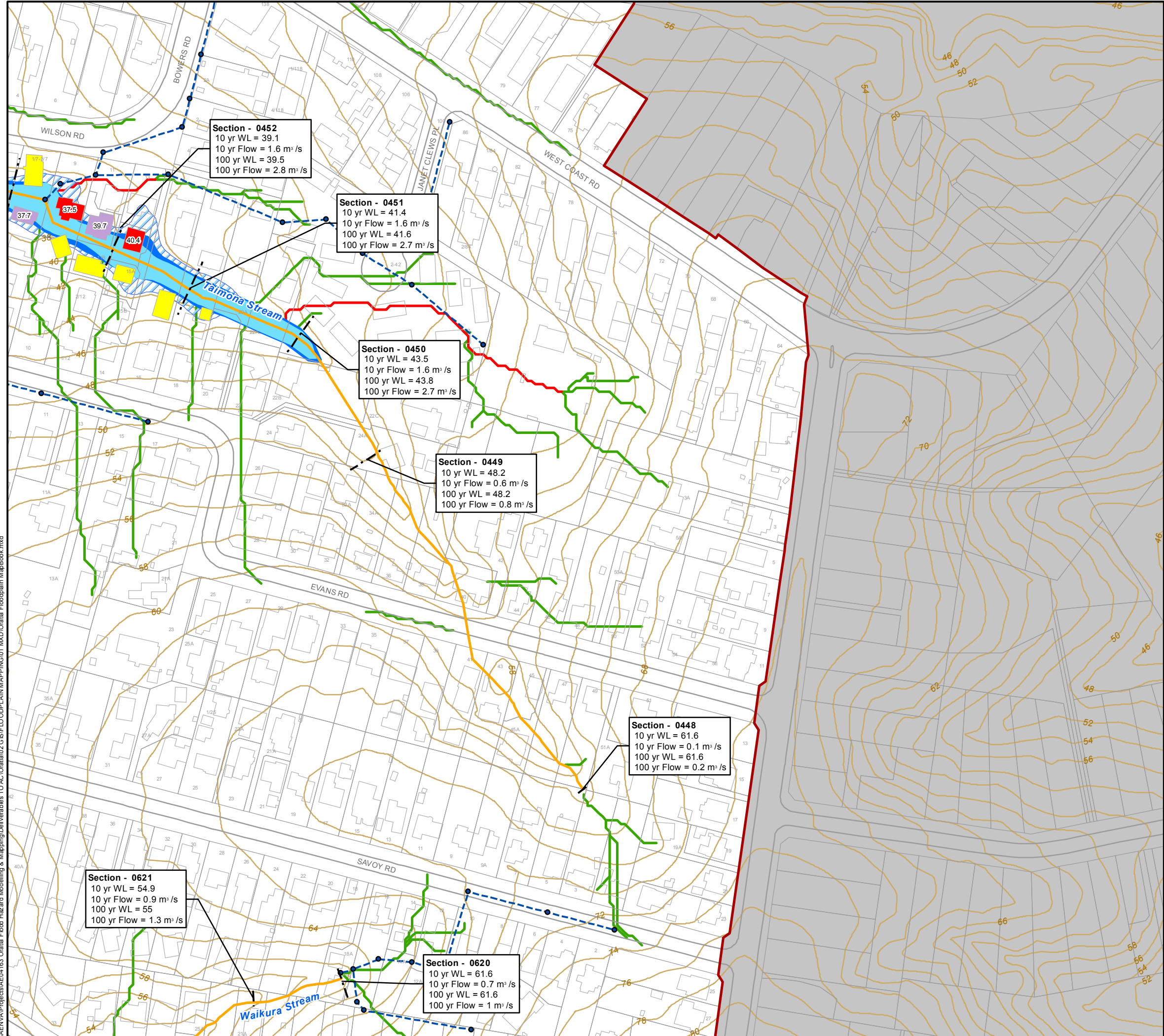
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 75 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\ENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



JACOBS
 SPATIAL

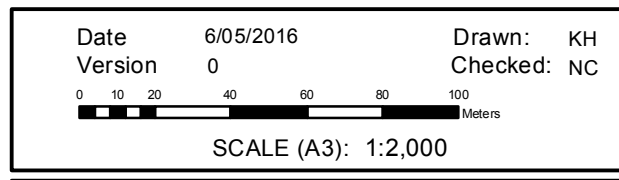
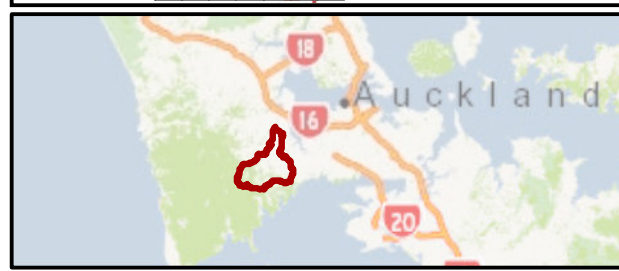
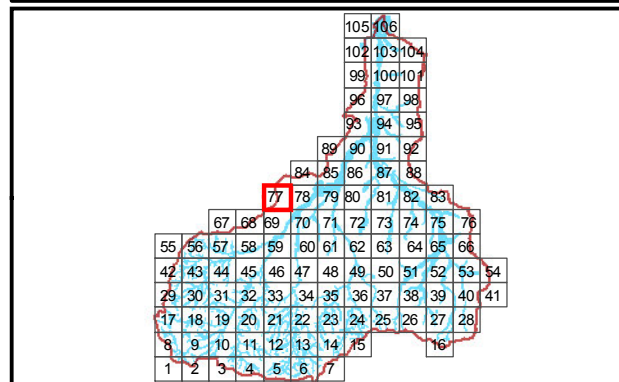
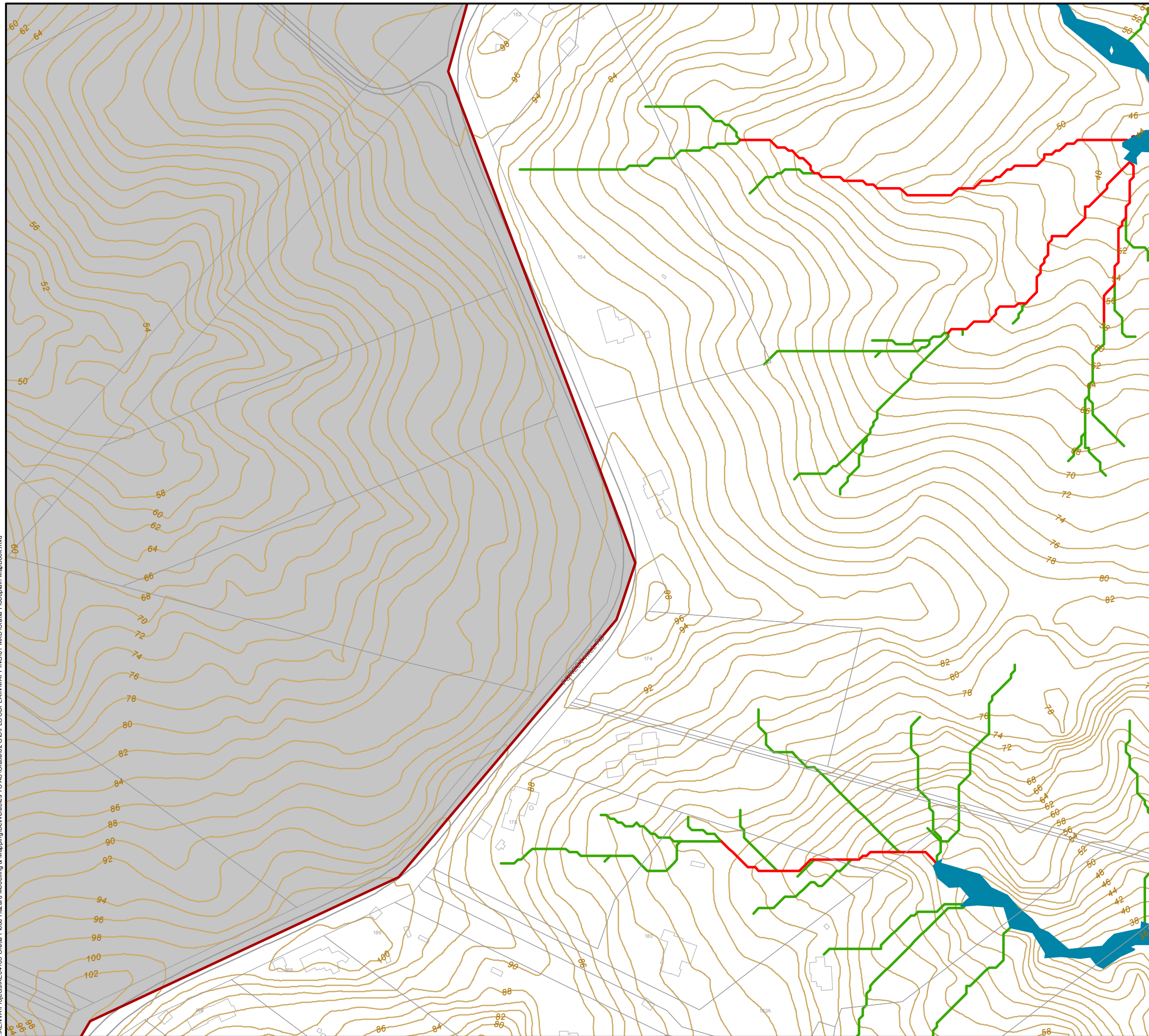
ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 76 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AENVA163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

HAENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

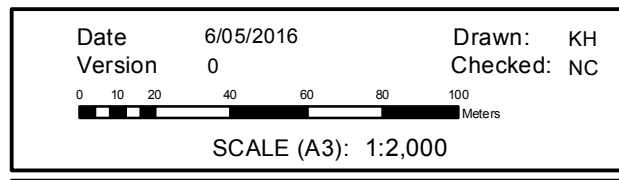
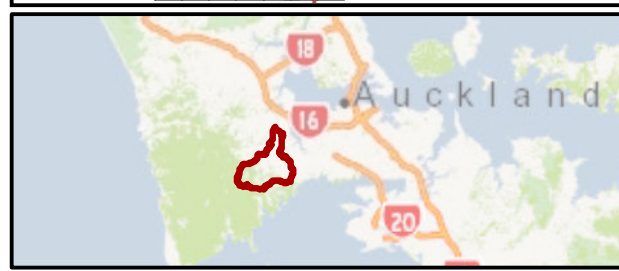
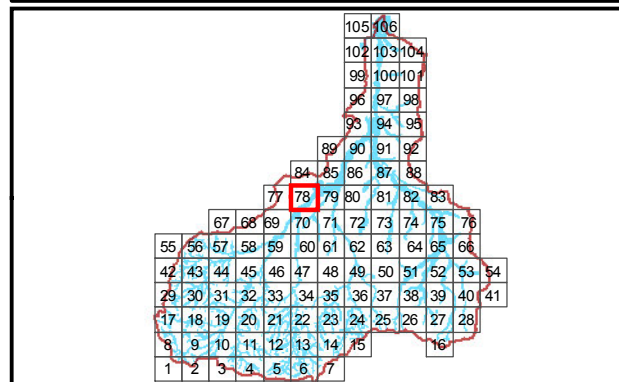
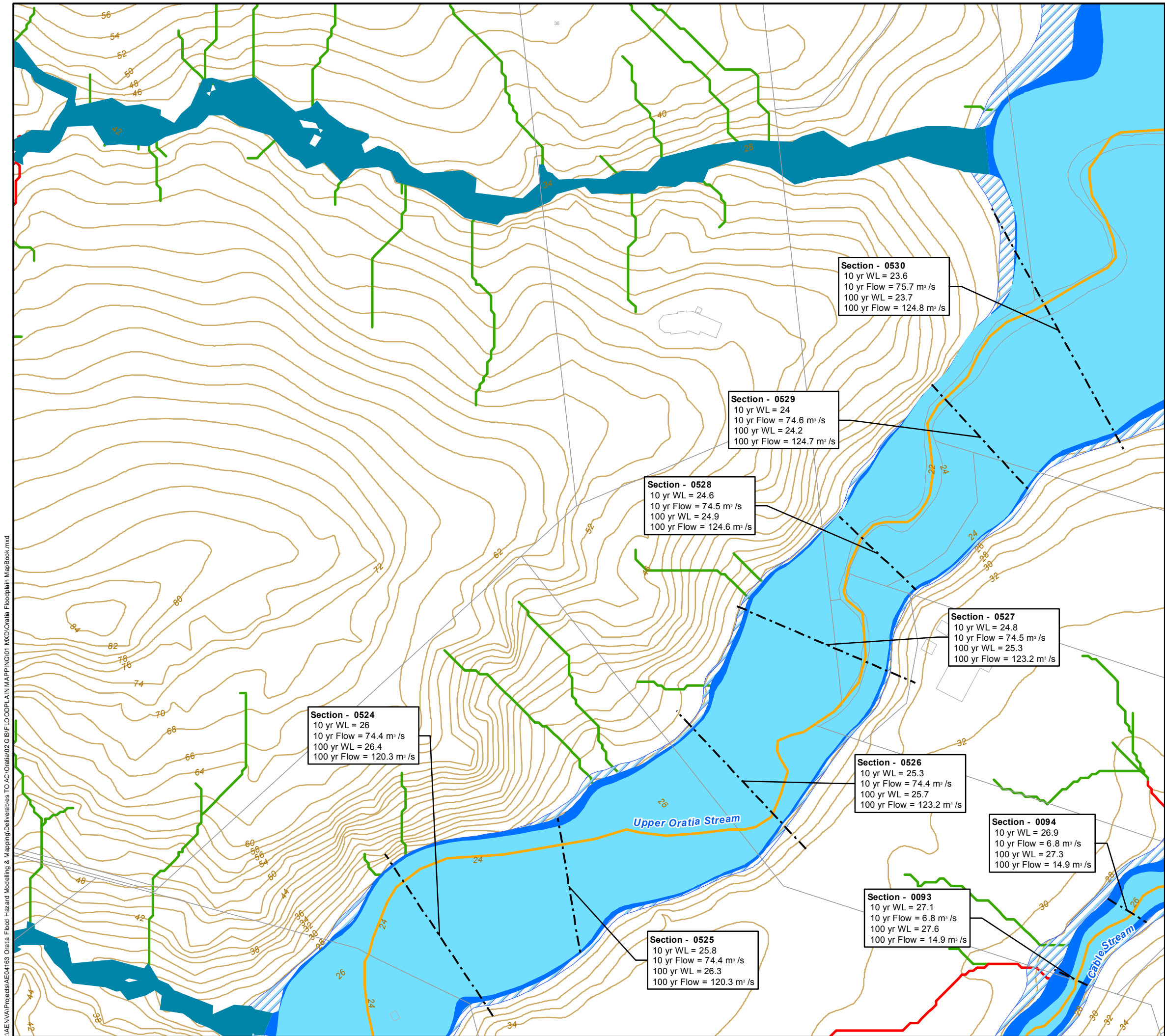


JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 77 of 106

Figure H.1 Floodplain Map (MPD Scenario)



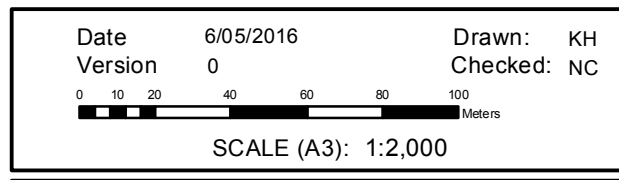
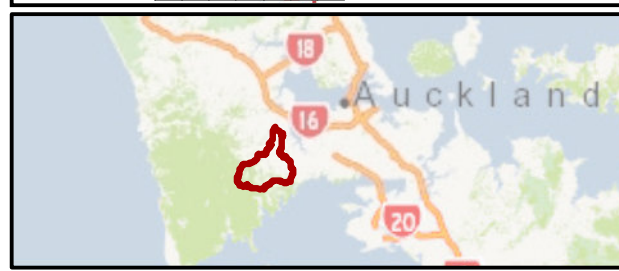
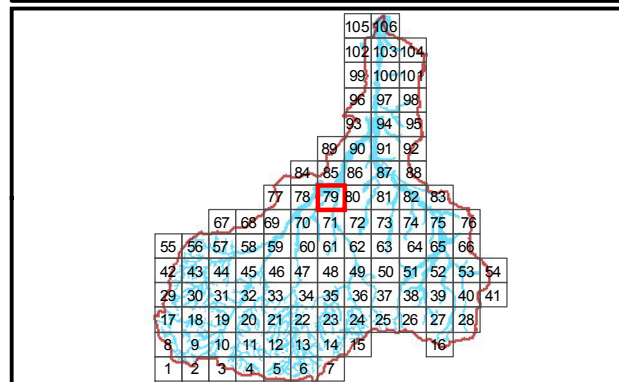
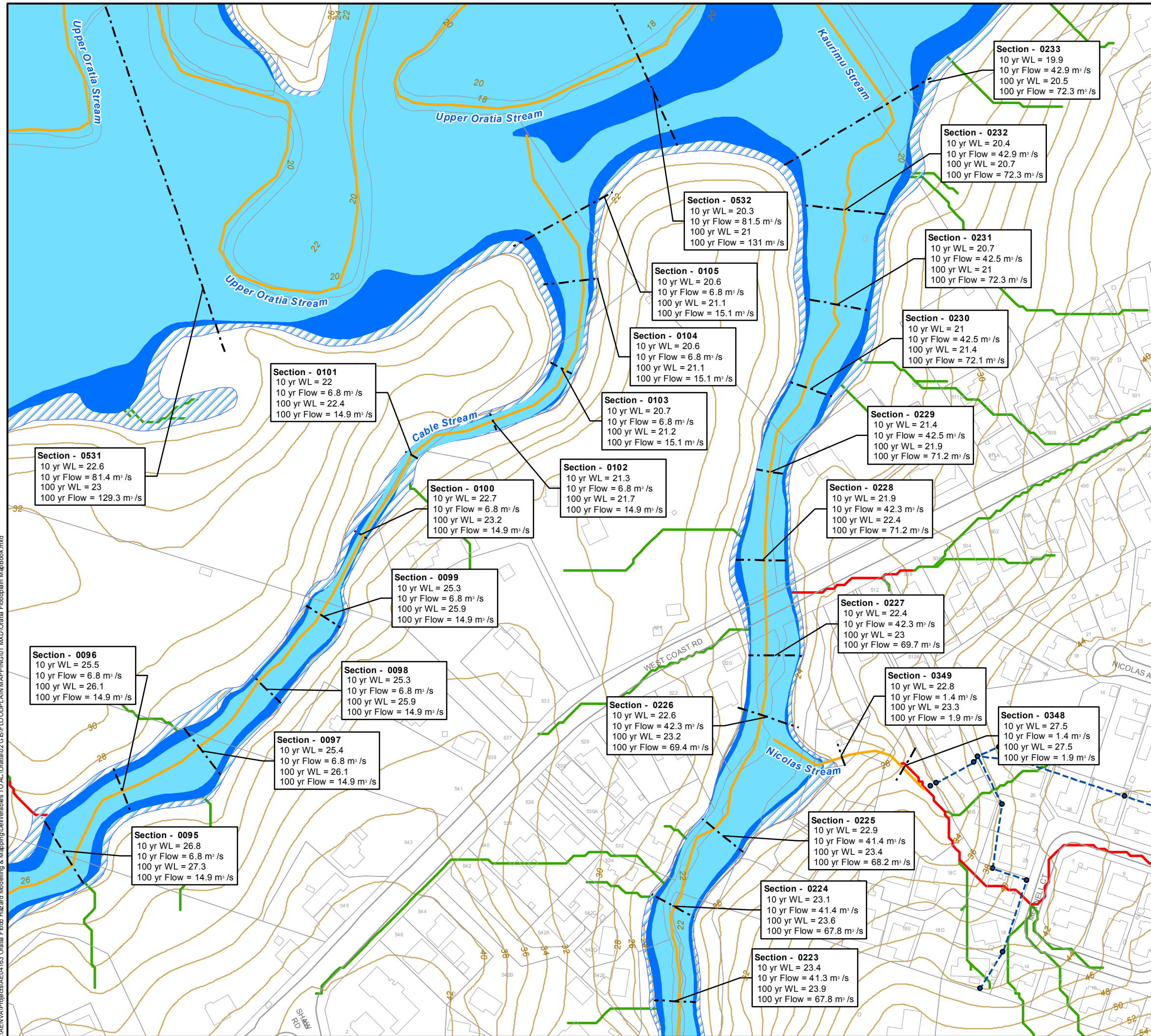
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 78 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECU\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



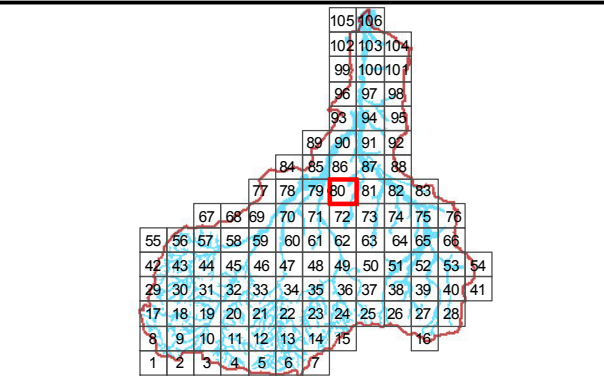
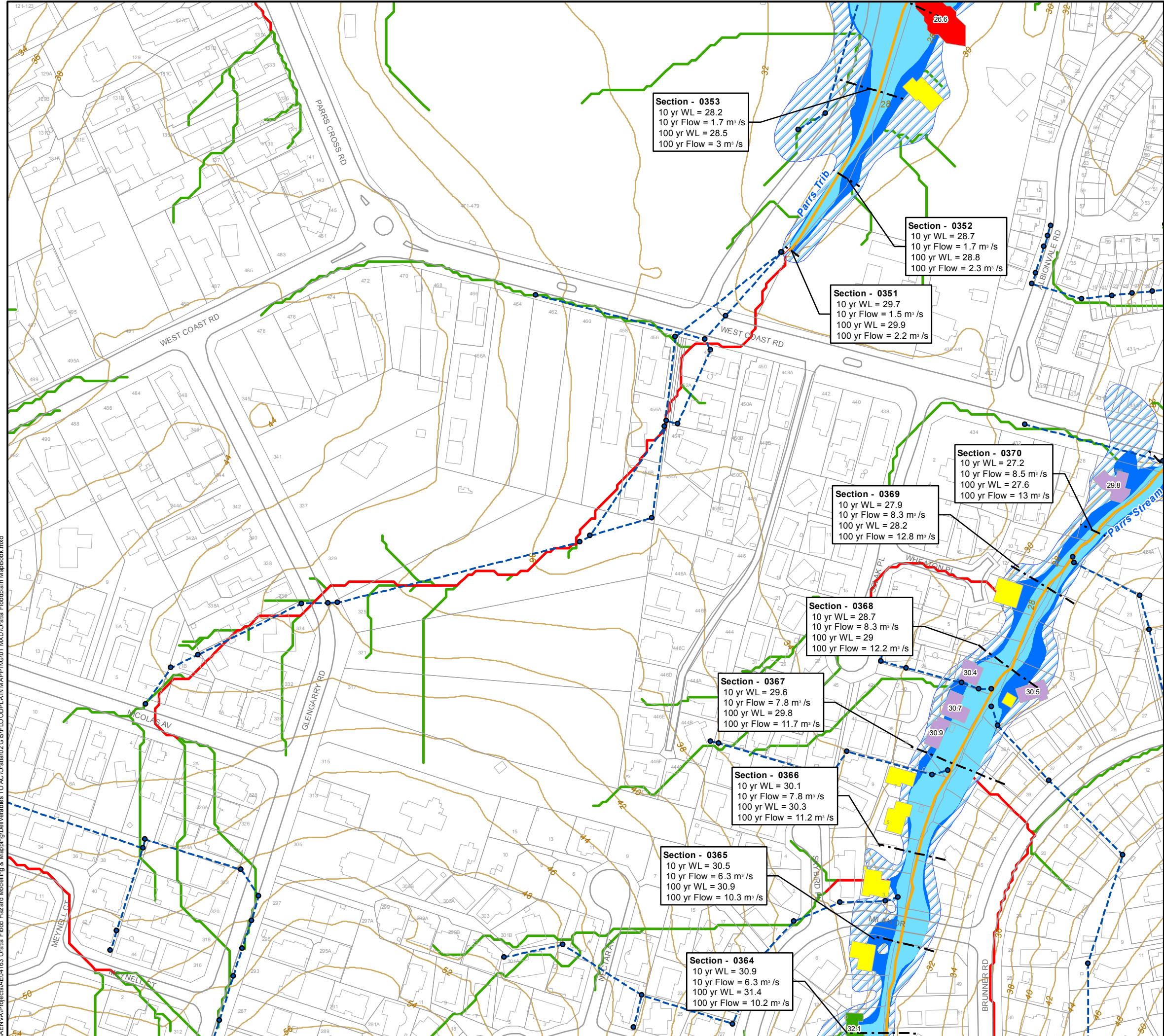
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 79 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN\MAPPING\01 MxDO\Oratia Floodplain MapBook.mxd



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000

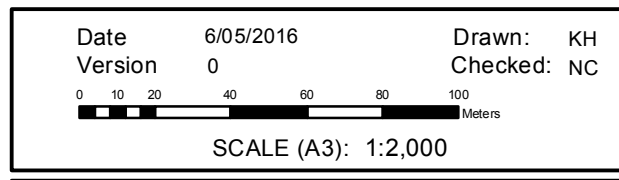
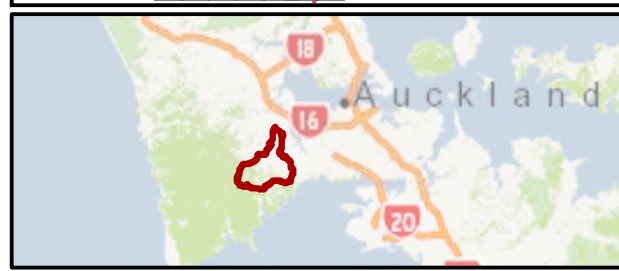
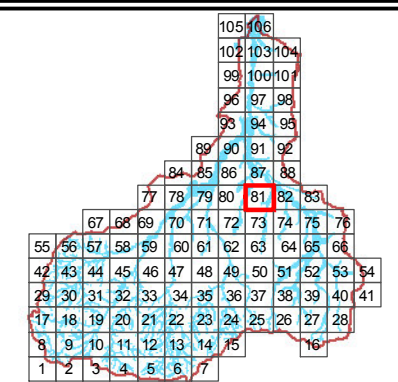
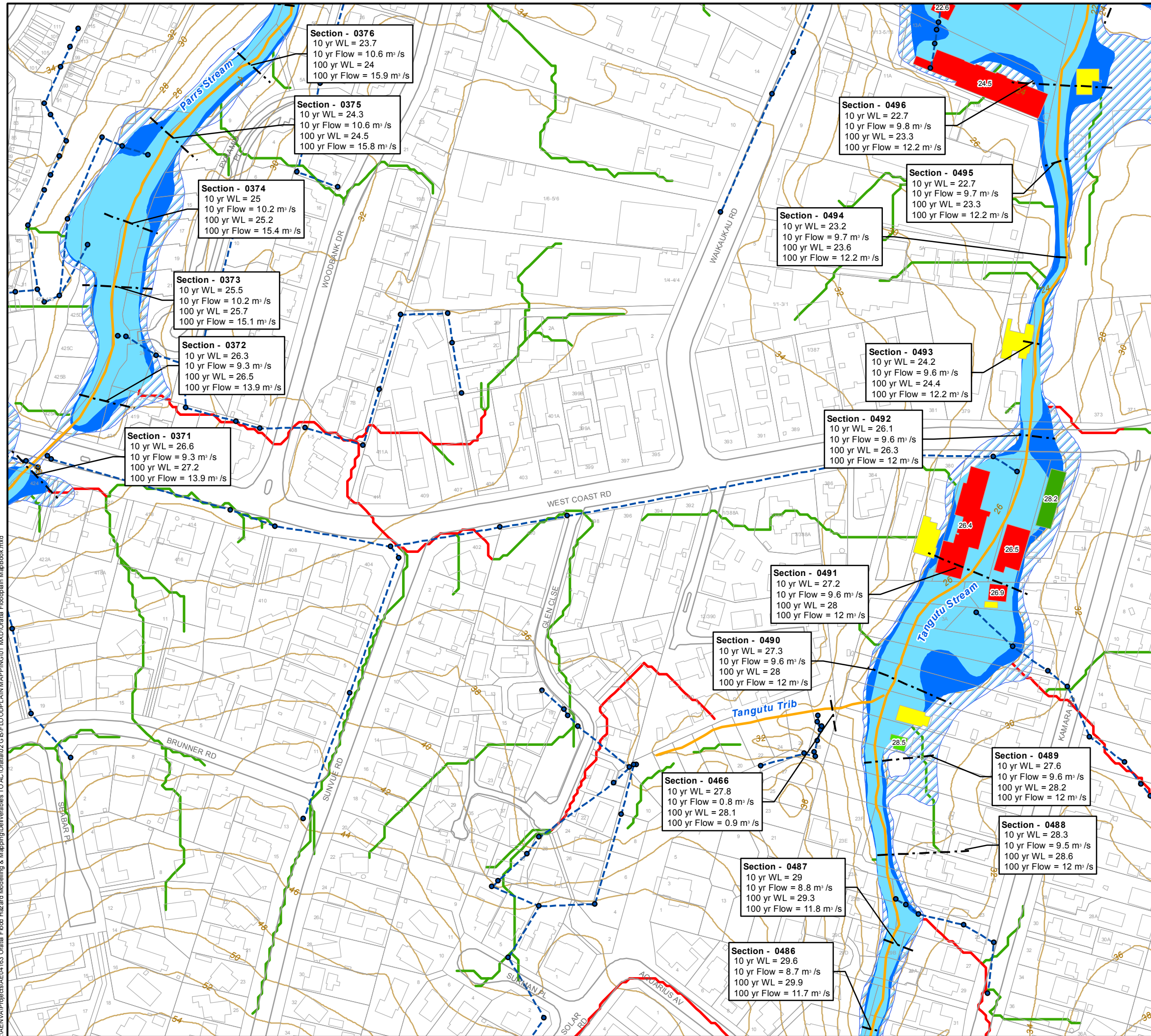
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 80 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\ENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

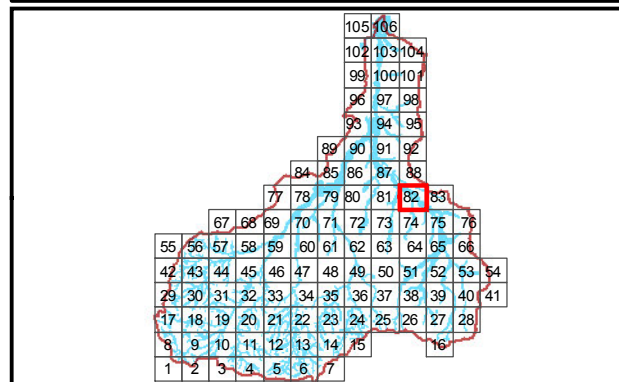
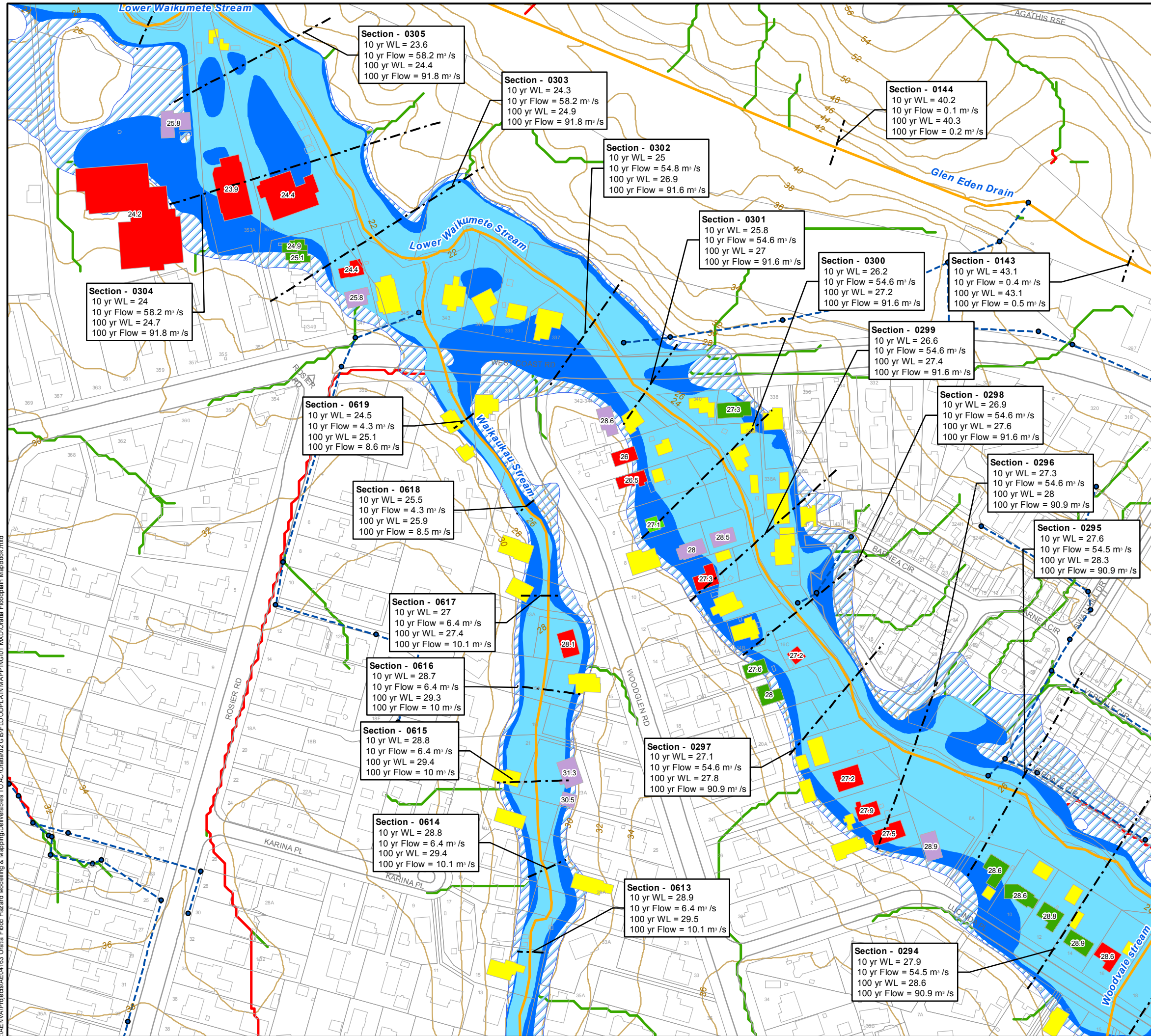


ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 81 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\ENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000

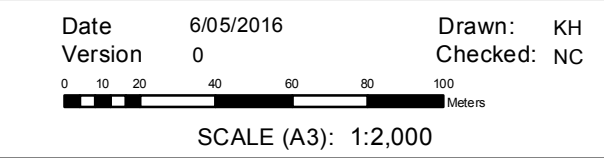
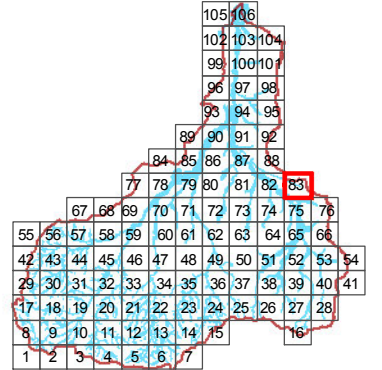
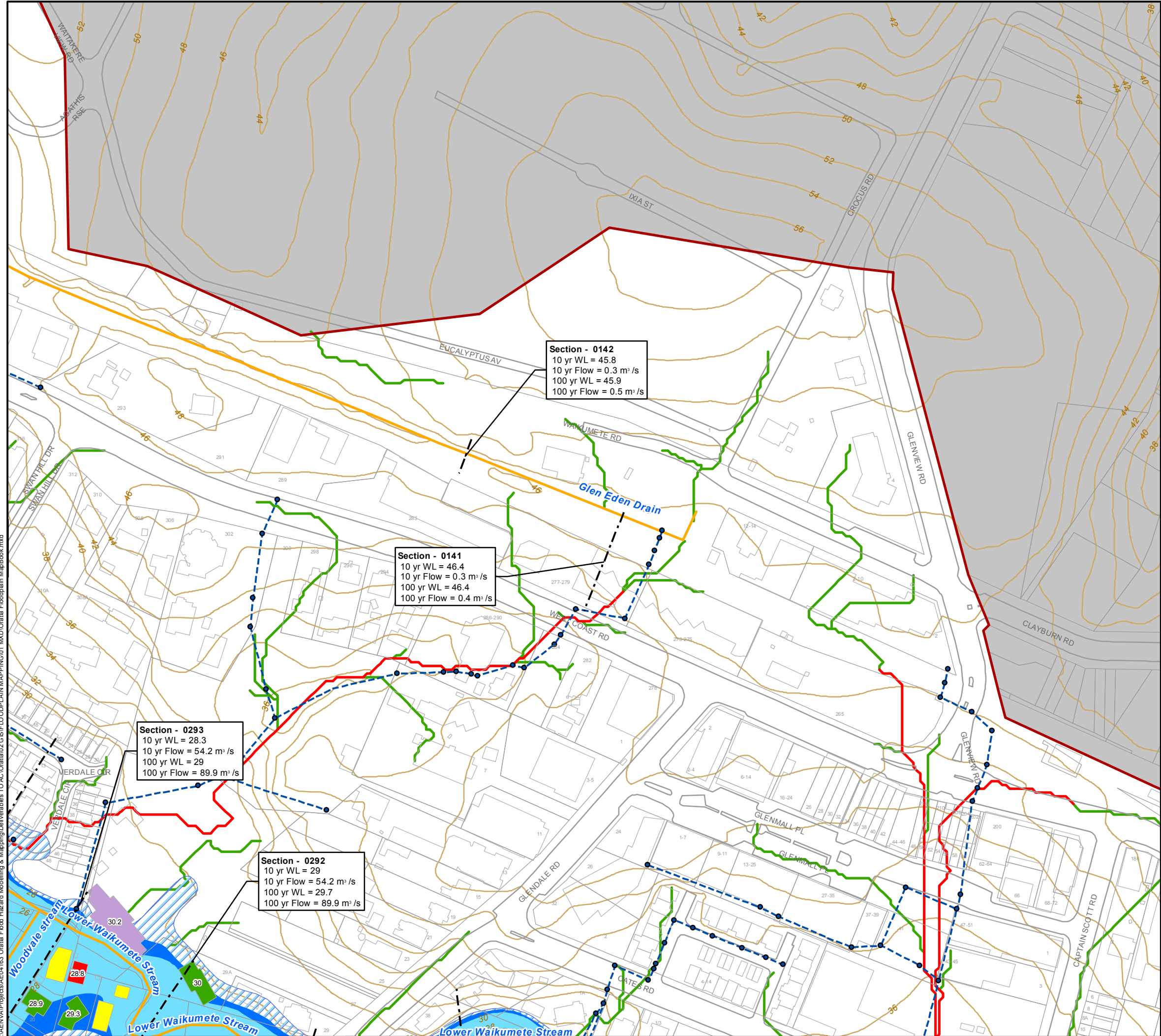
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 82 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



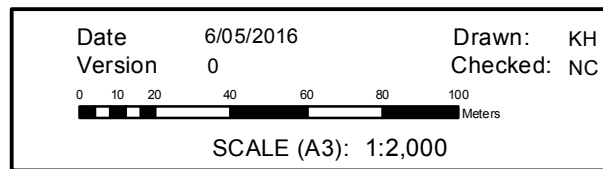
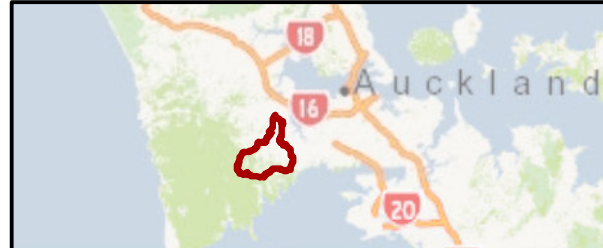
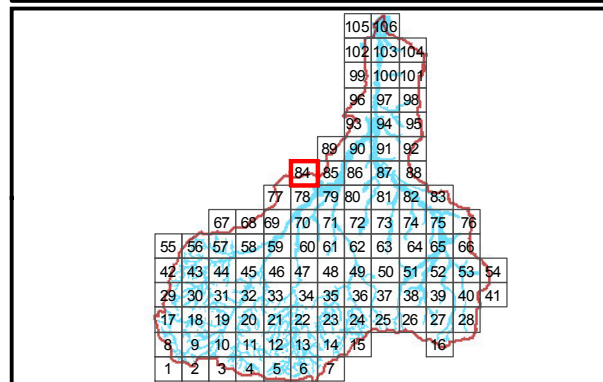
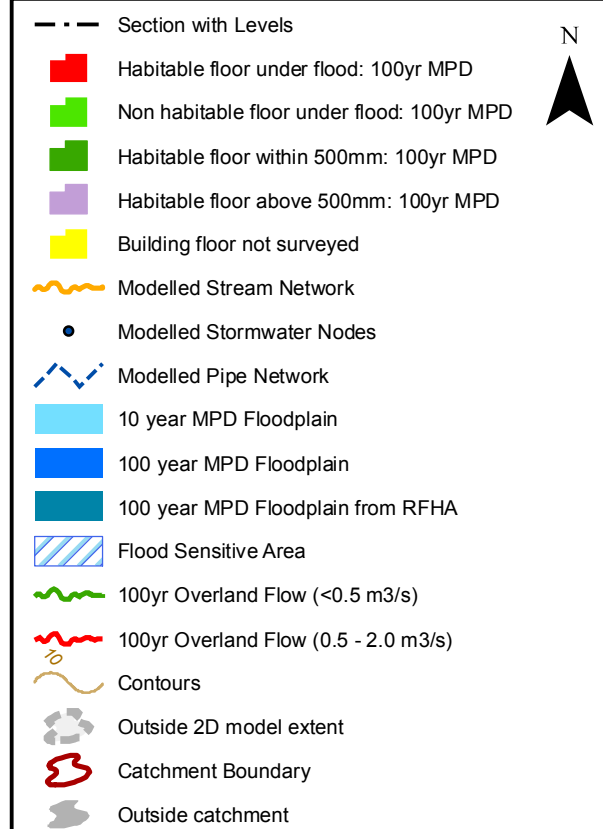
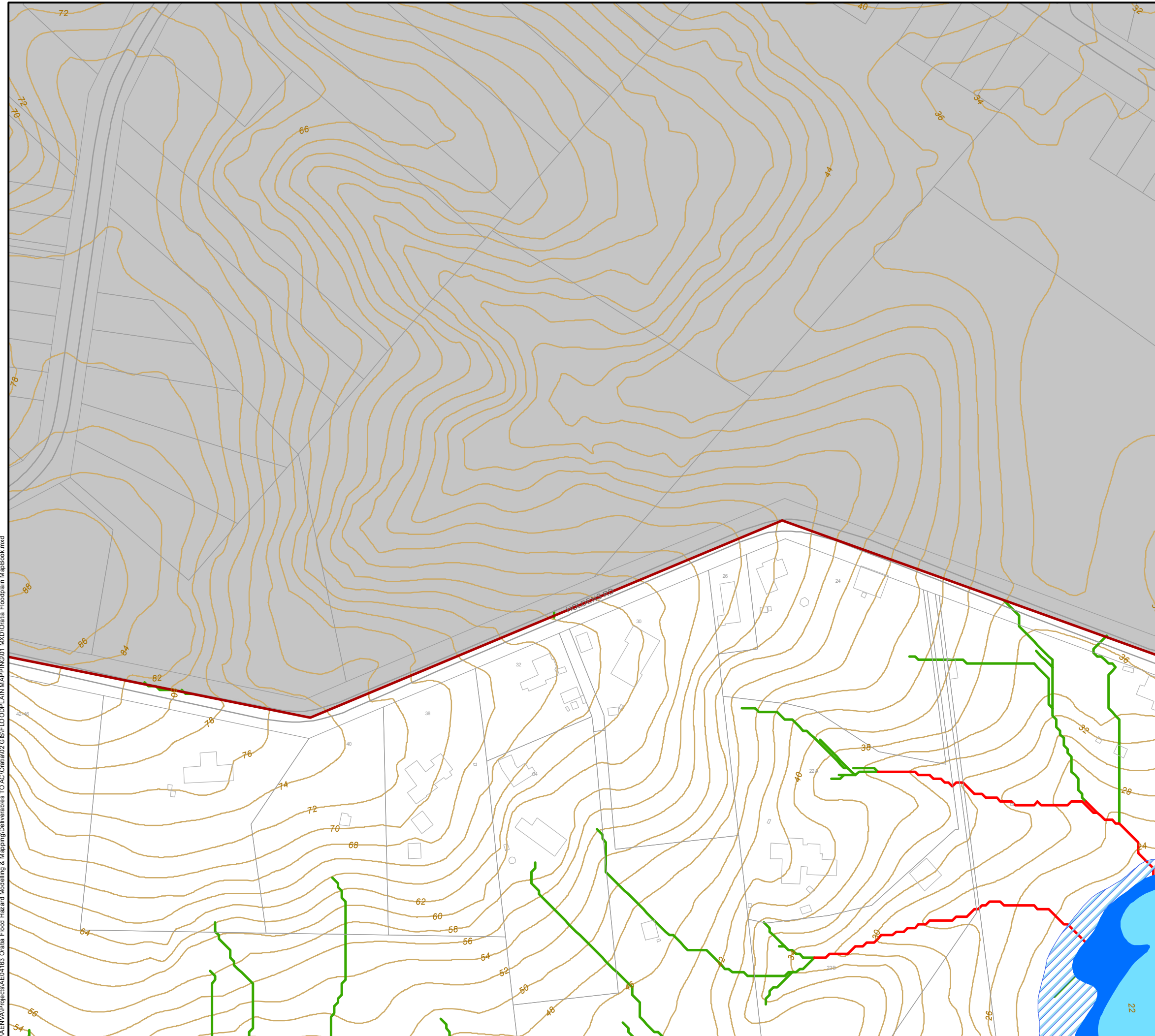
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 83 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\ENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



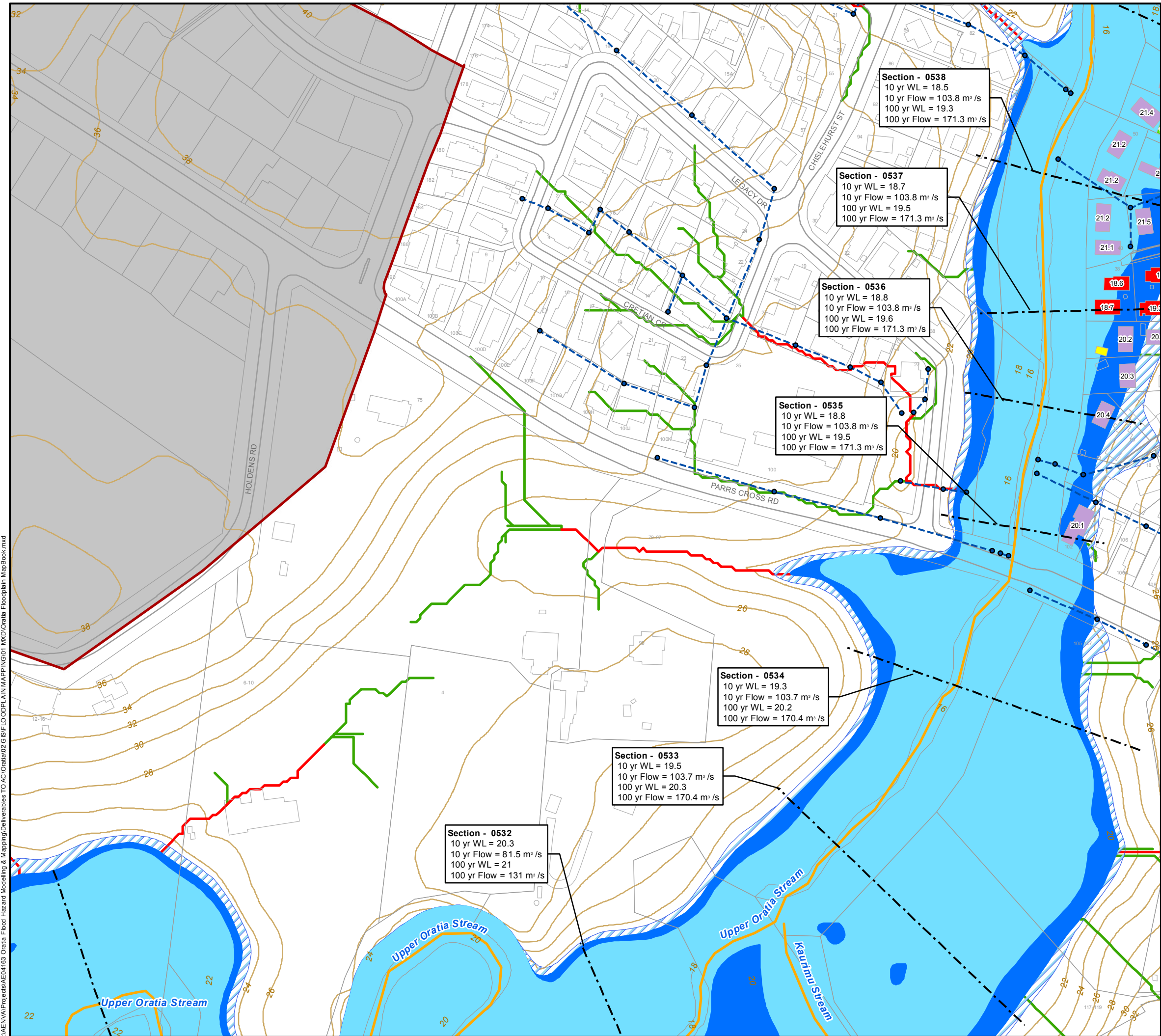
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

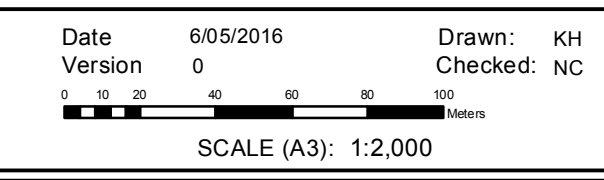
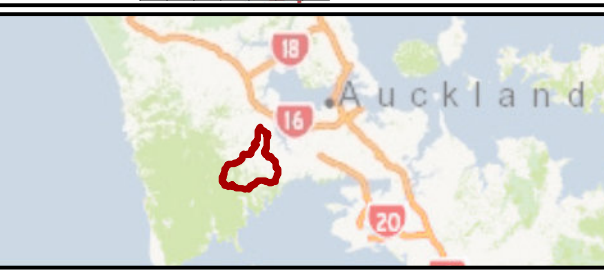
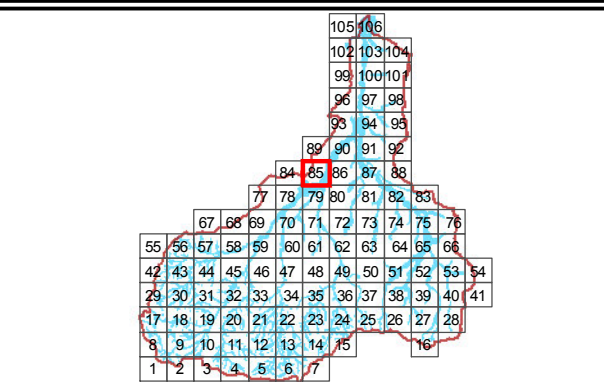
Sheet 84 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 85 of 106

Figure H.1 Floodplain Map (MPD Scenario)

Section - 0538
 10 yr WL = 18.5
 10 yr Flow = 103.8 m³/s
 100 yr WL = 19.3
 100 yr Flow = 171.3 m³/s

Section - 0537
 10 yr WL = 18.7
 10 yr Flow = 103.8 m³/s
 100 yr WL = 19.5
 100 yr Flow = 171.3 m³/s

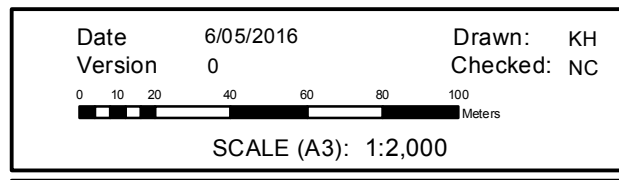
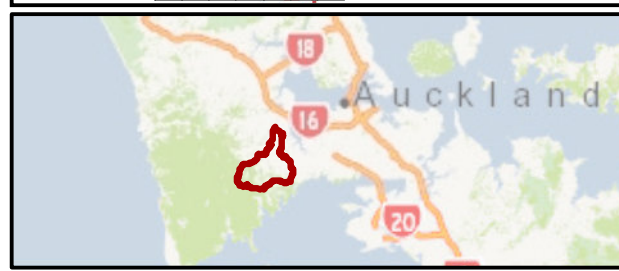
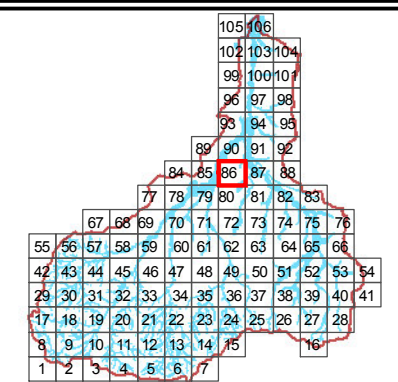
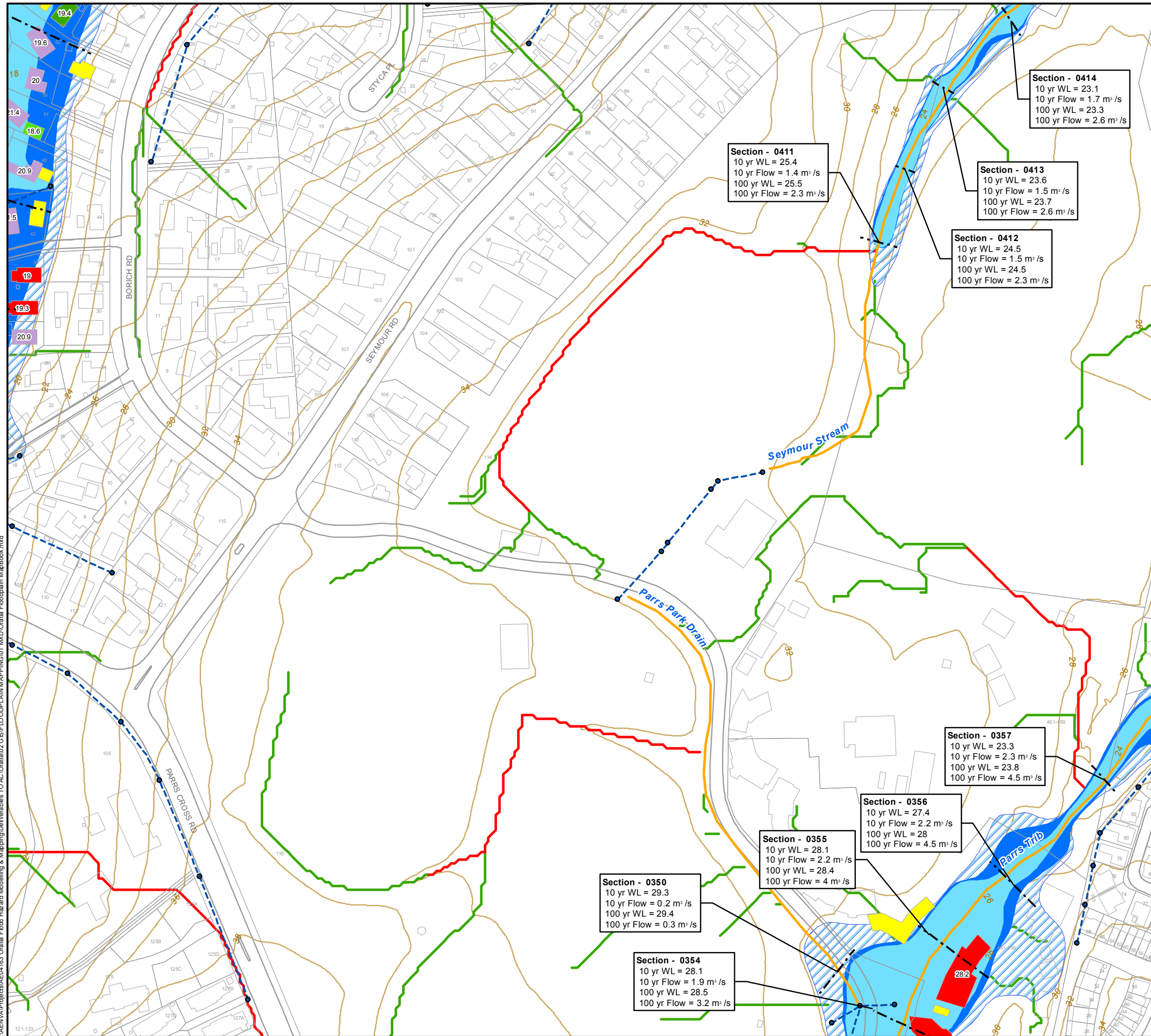
Section - 0536
 10 yr WL = 18.8
 10 yr Flow = 103.8 m³/s
 100 yr WL = 19.6
 100 yr Flow = 171.3 m³/s

Section - 0535
 10 yr WL = 18.8
 10 yr Flow = 103.8 m³/s
 100 yr WL = 19.5
 100 yr Flow = 171.3 m³/s

Section - 0534
 10 yr WL = 19.3
 10 yr Flow = 103.7 m³/s
 100 yr WL = 20.2
 100 yr Flow = 170.4 m³/s

Section - 0533
 10 yr WL = 19.5
 10 yr Flow = 103.7 m³/s
 100 yr WL = 20.3
 100 yr Flow = 170.4 m³/s

Section - 0532
 10 yr WL = 20.3
 10 yr Flow = 81.5 m³/s
 100 yr WL = 21
 100 yr Flow = 131 m³/s

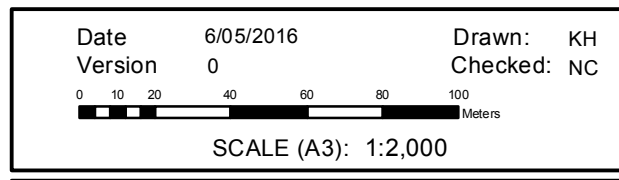
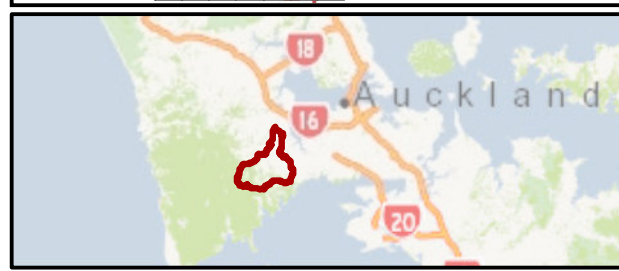
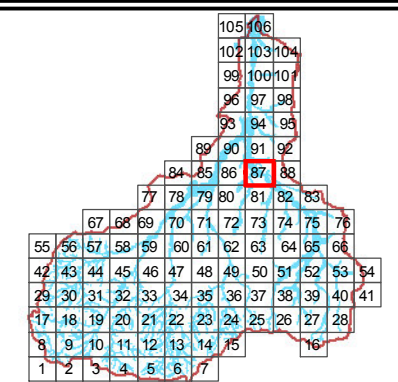
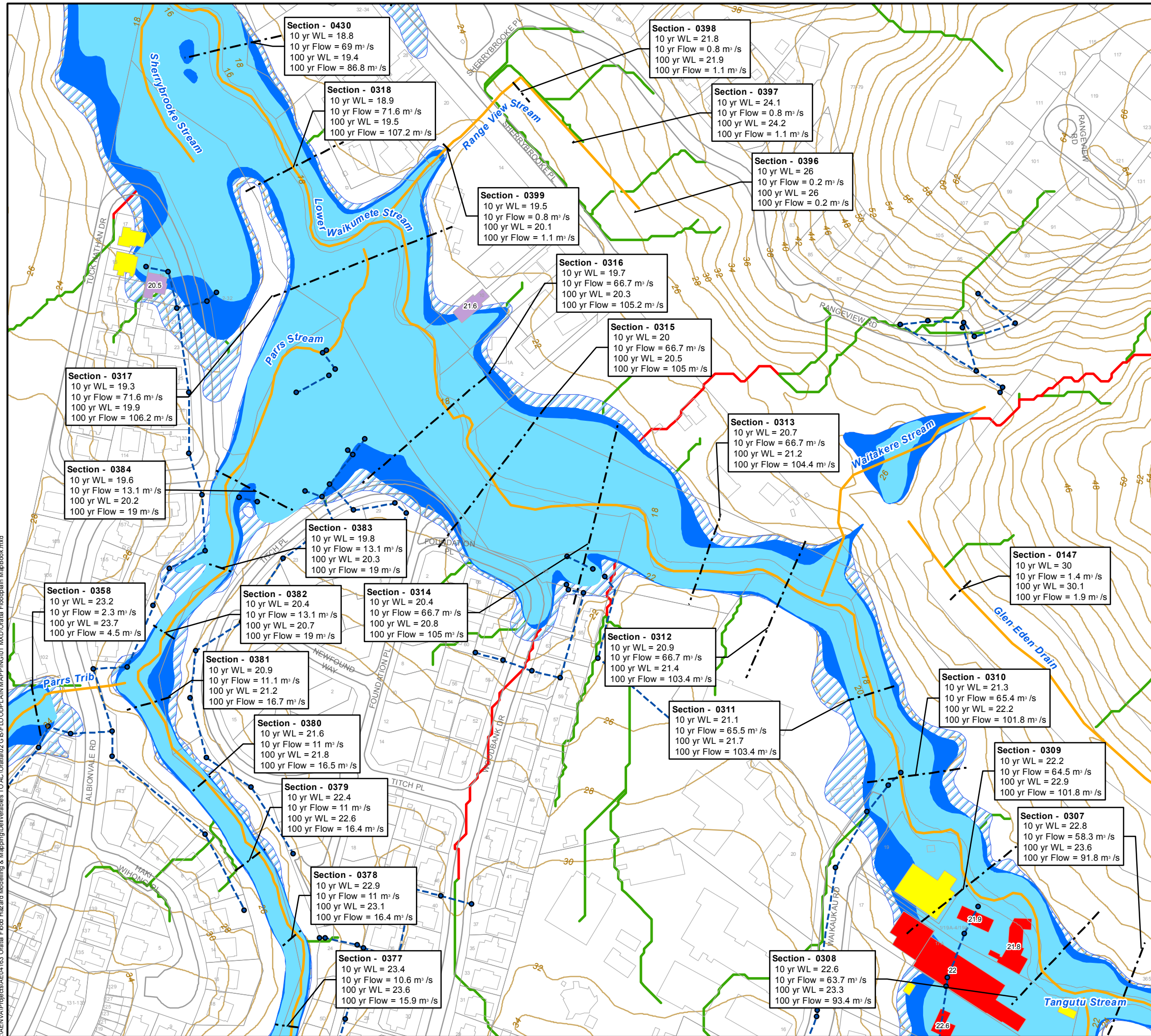


ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 86 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AEM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



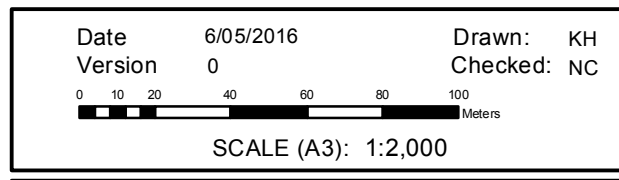
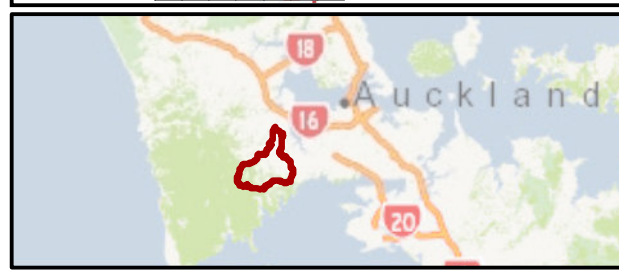
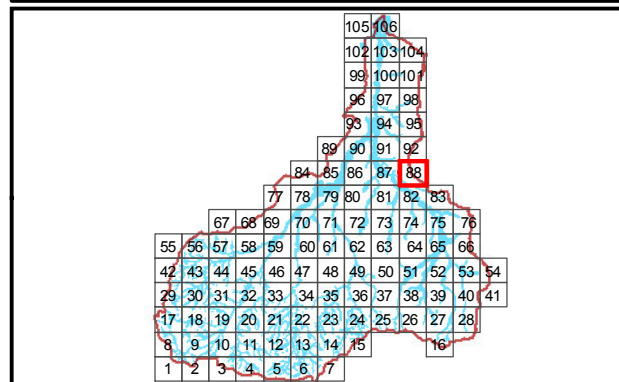
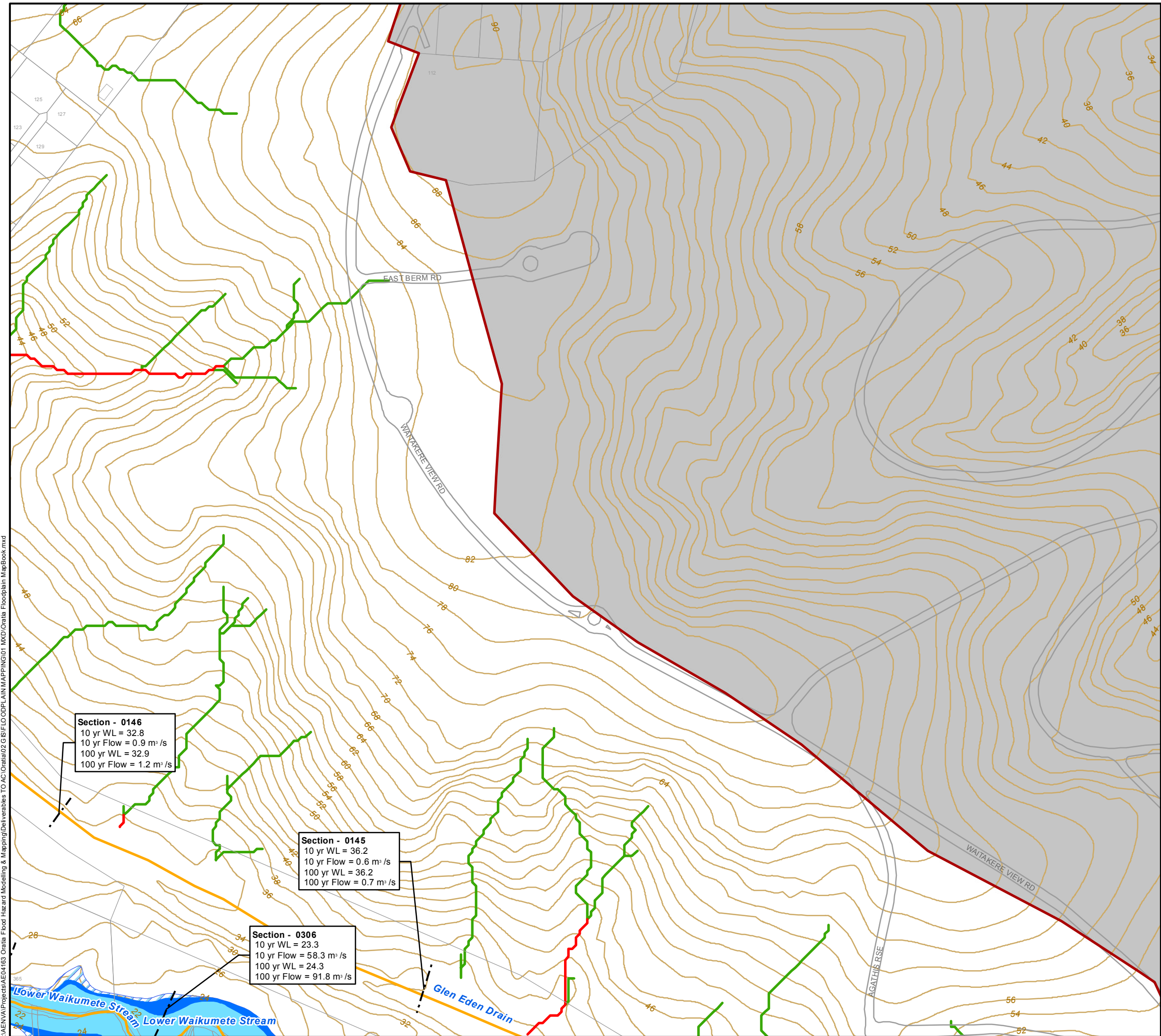
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 87 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECU163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



JACOBS
 SPATIAL

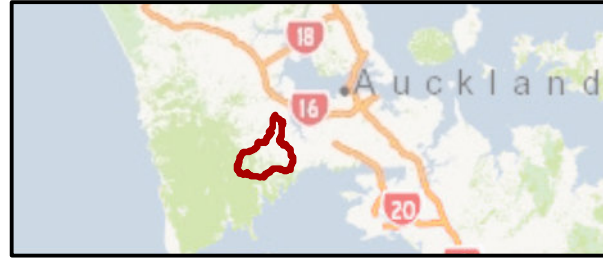
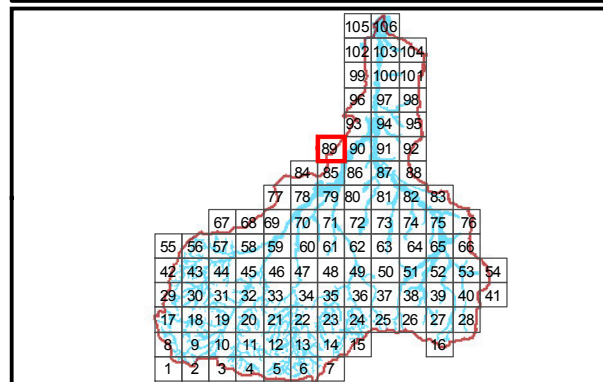
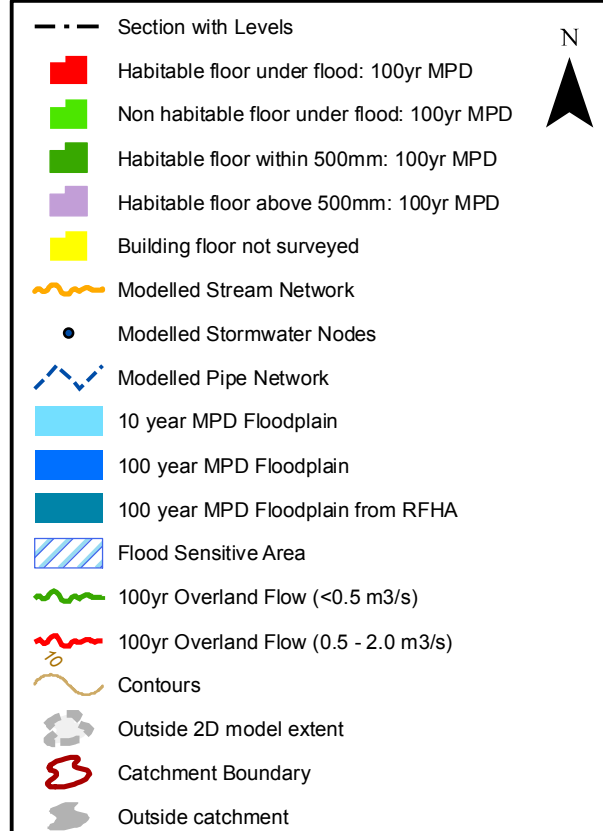
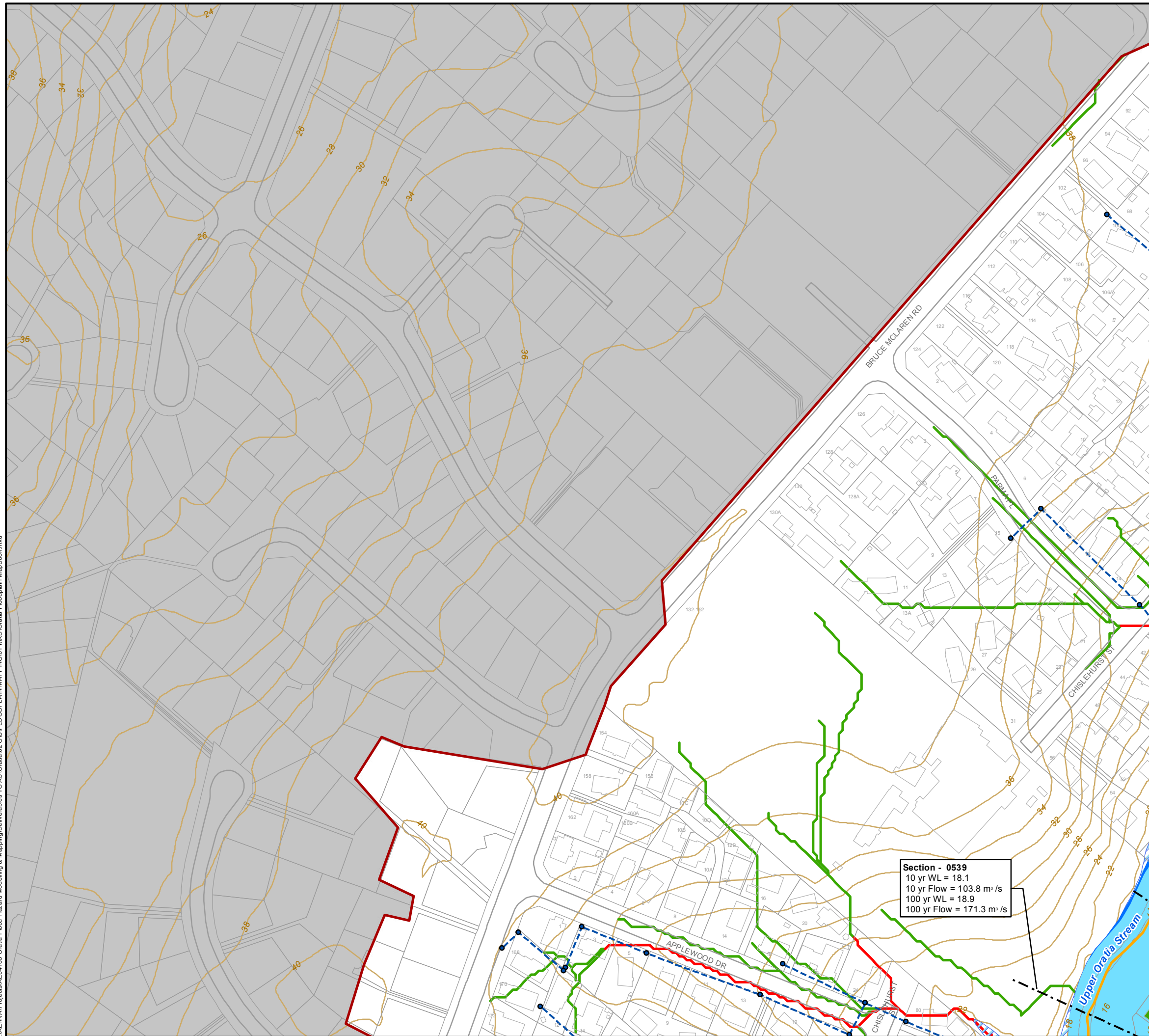
ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 88 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

I:\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



Date: 6/05/2016 Drawn: KH
 Version: 0 Checked: NC

0 10 20 40 60 80 100 Meters

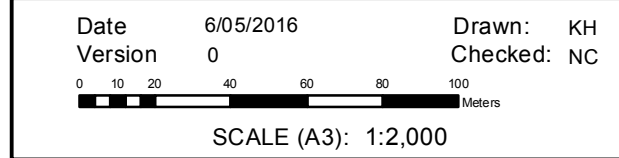
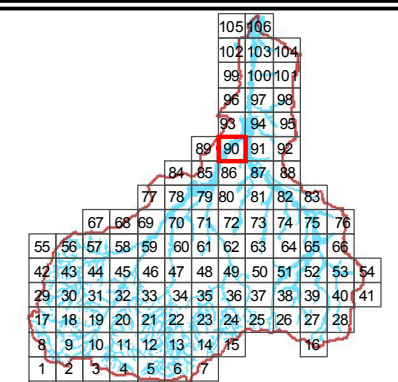
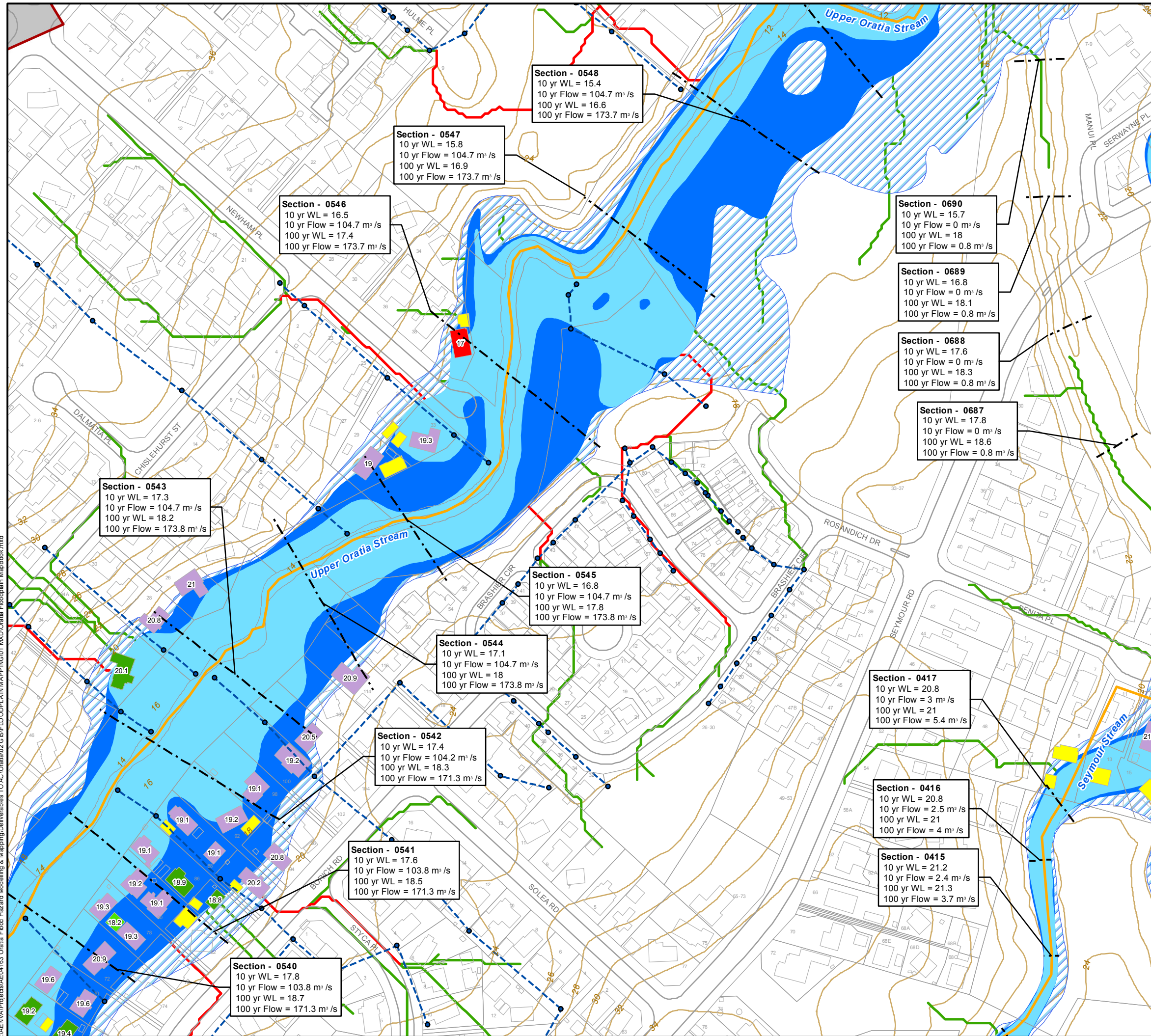
SCALE (A3): 1:2,000

JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 89 of 106

Figure H.1 Floodplain Map (MPD Scenario)

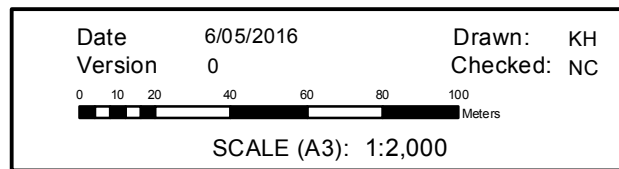
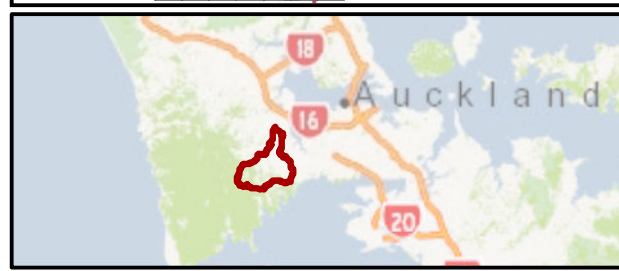
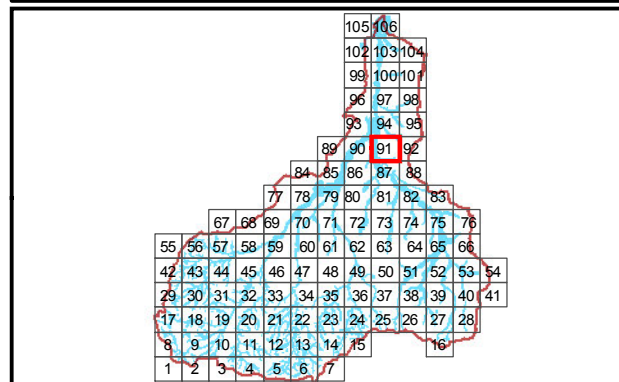
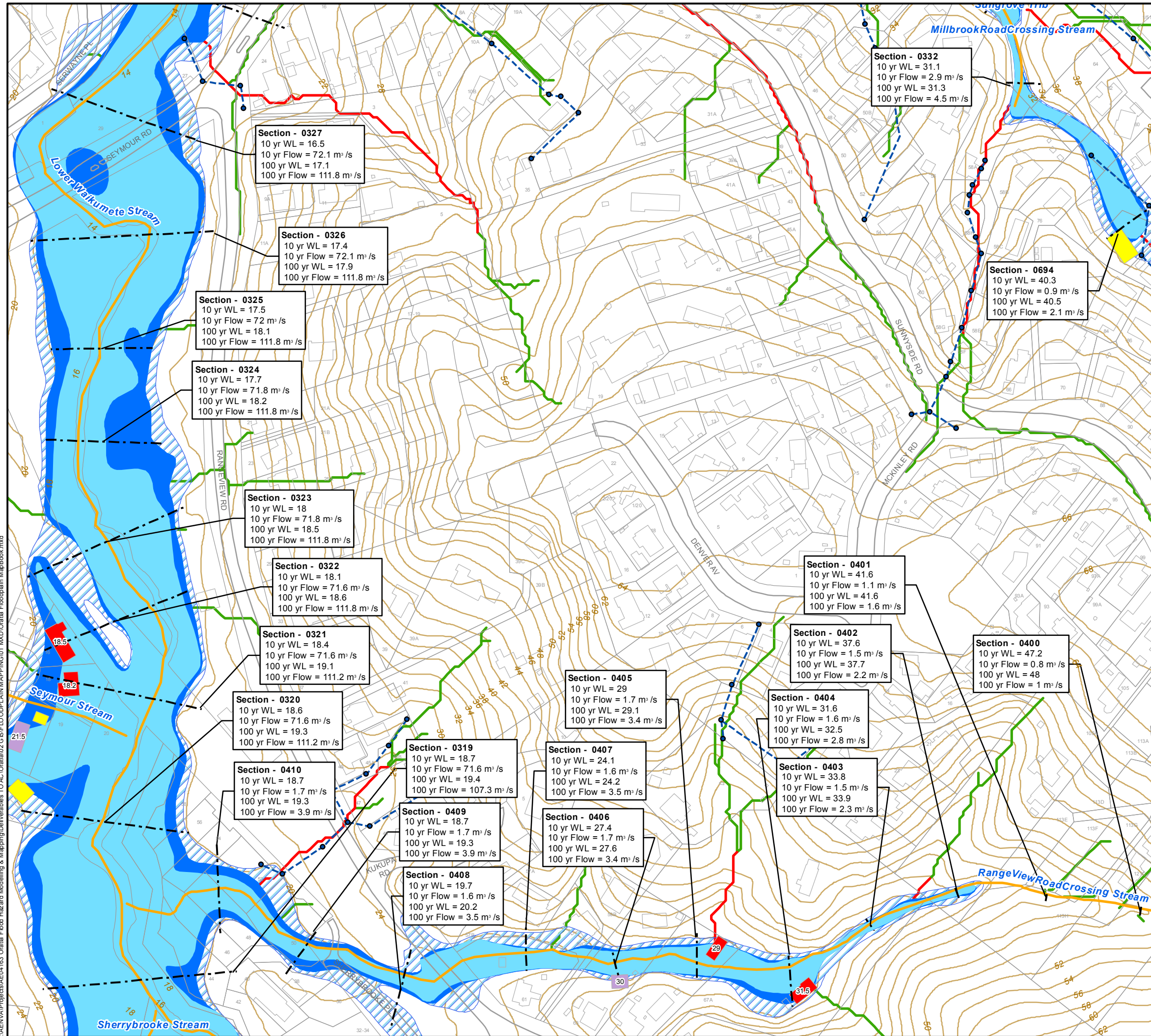


ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 90 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



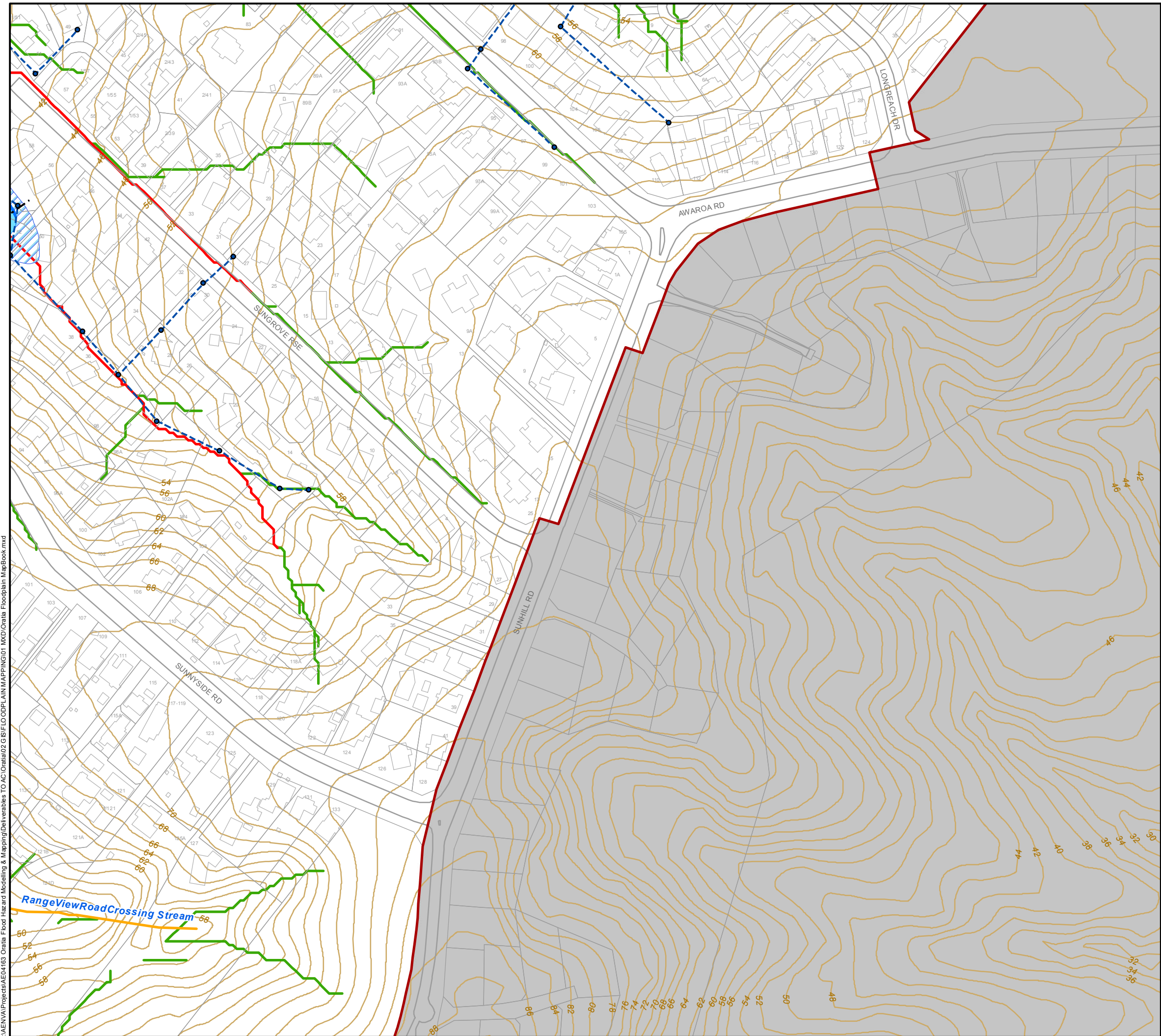
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

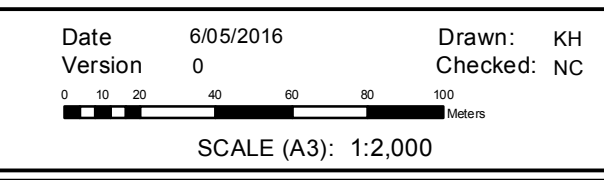
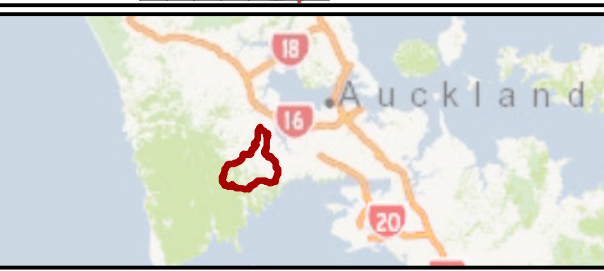
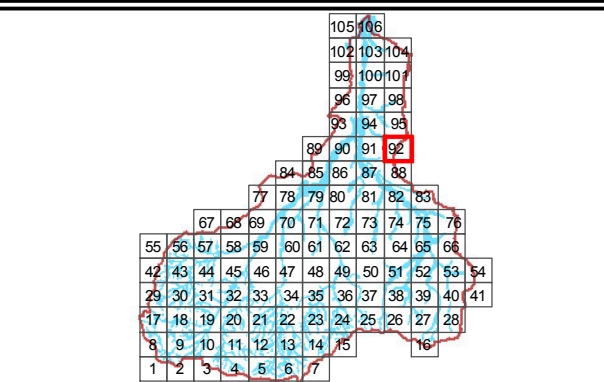
Sheet 91 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN\MAPPINGS\01 MXD\Oratia Floodplain MapBook.mxd



I:\AENVA\Projects\AENVA\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

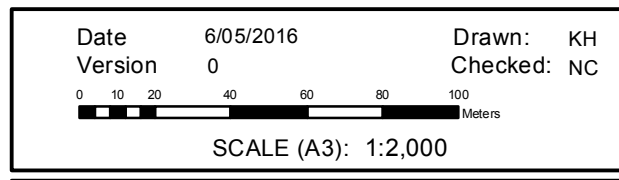
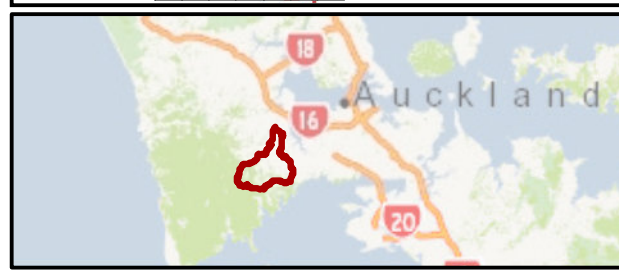
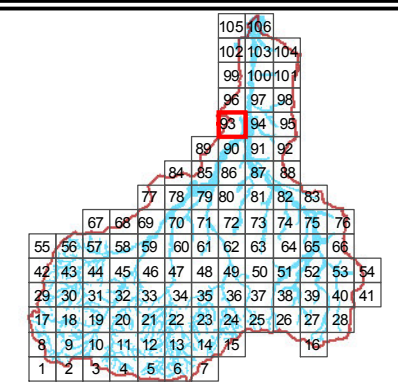
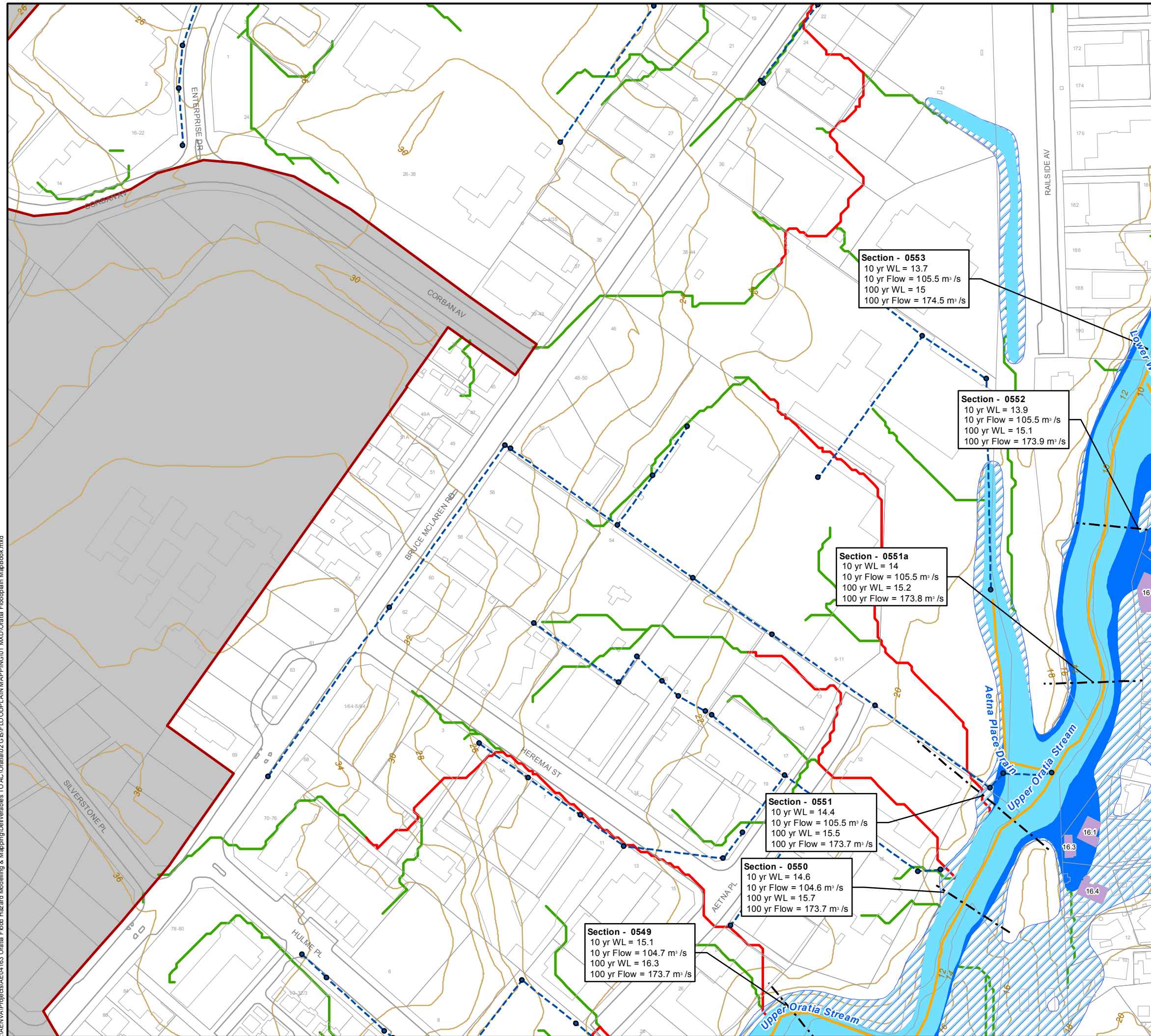


JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 92 of 106

Figure H.1 Floodplain Map (MPD Scenario)



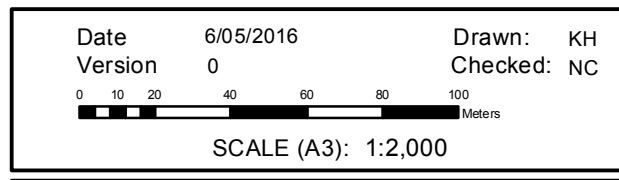
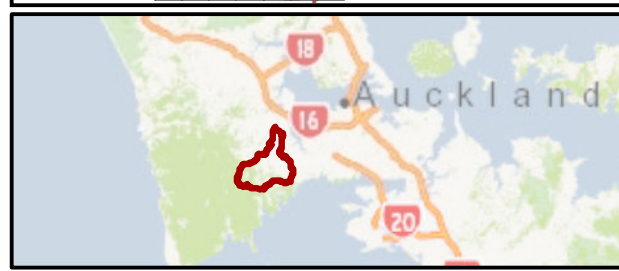
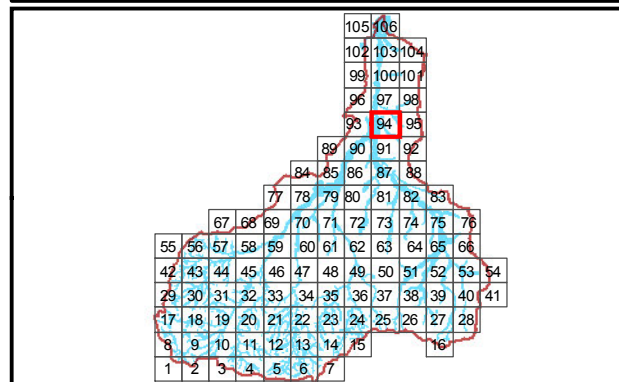
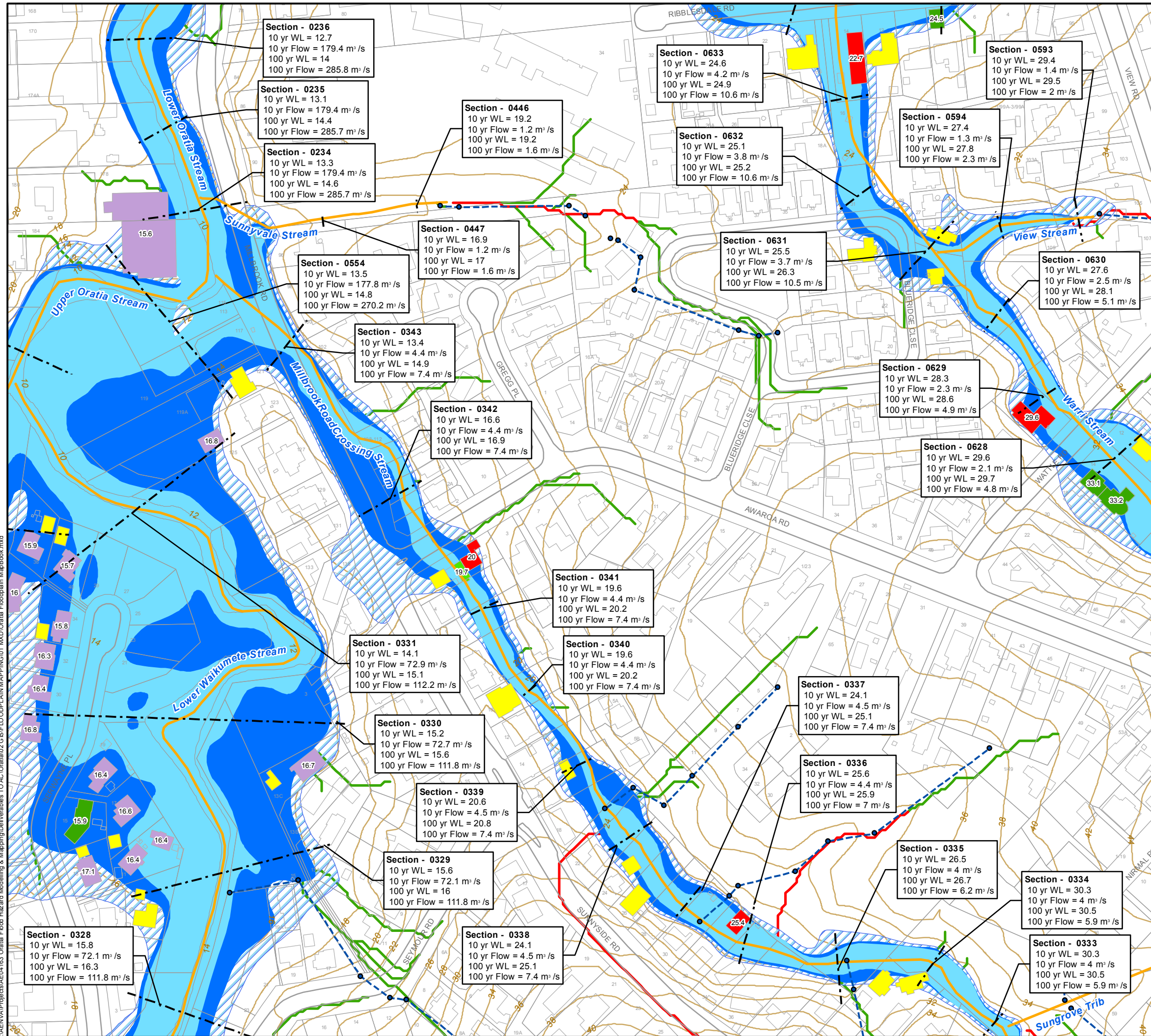
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 93 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AENVA\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\2 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



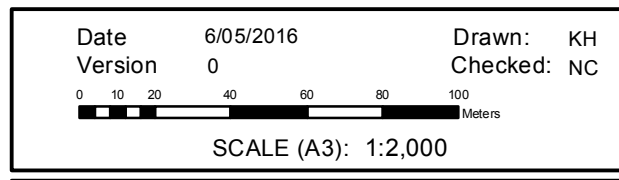
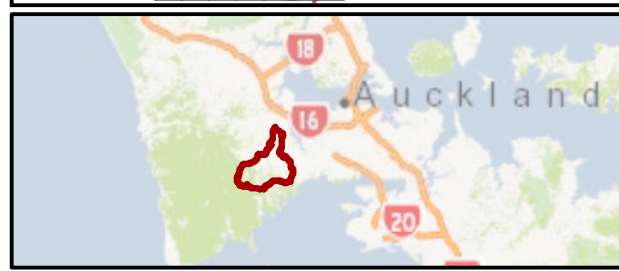
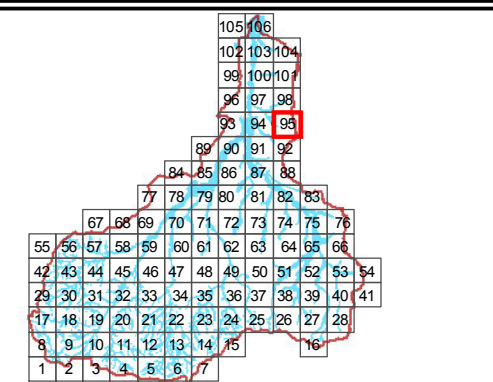
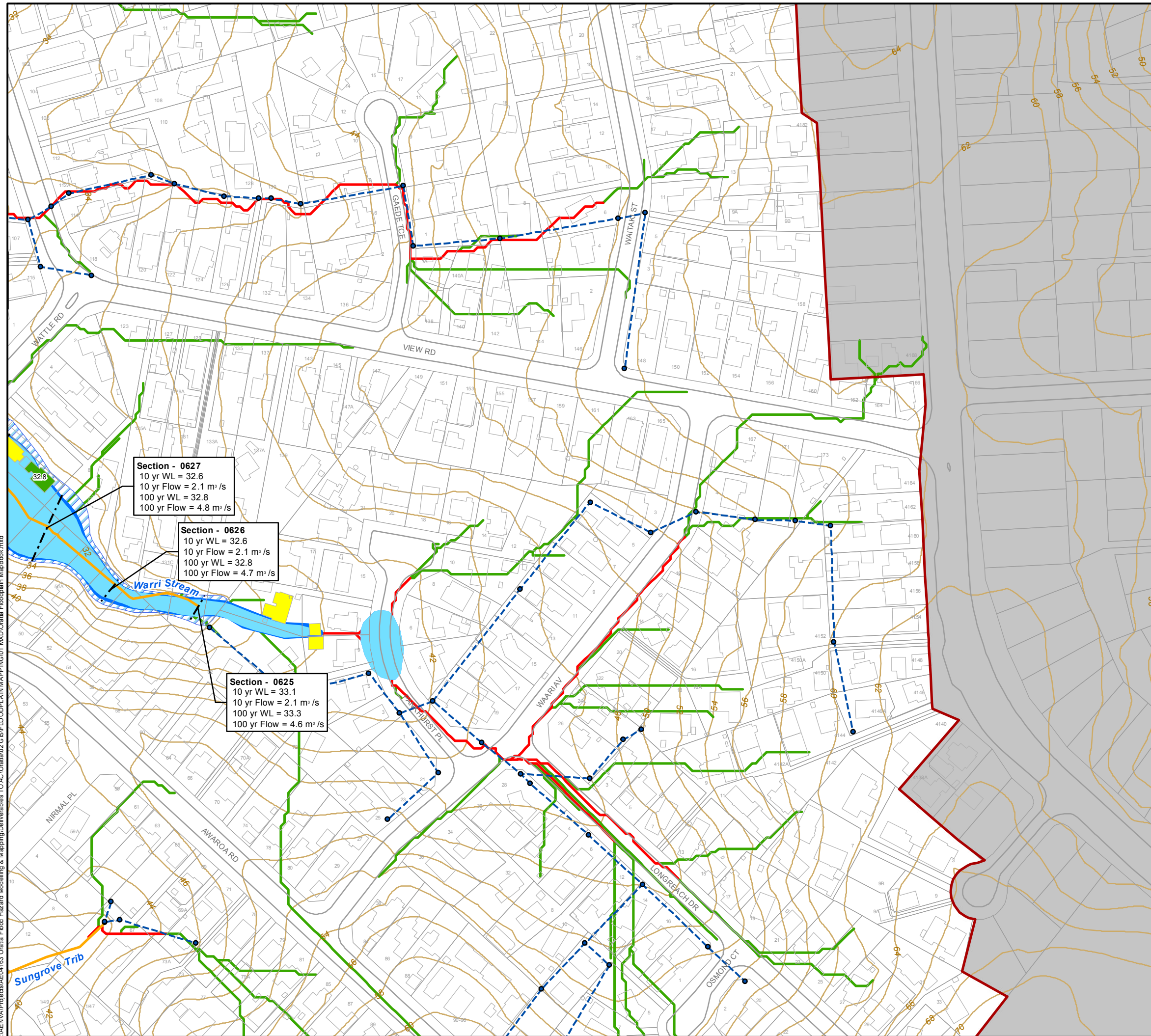
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 94 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\GIS\FLOODPLAIN MAPPING\01 IAXD\Oratia Floodplain MapBook.mxd



JACOBS
 SPATIAL

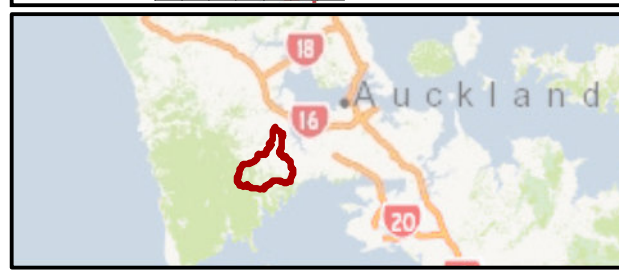
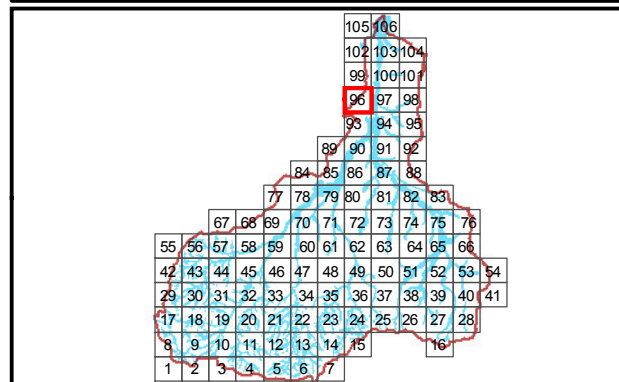
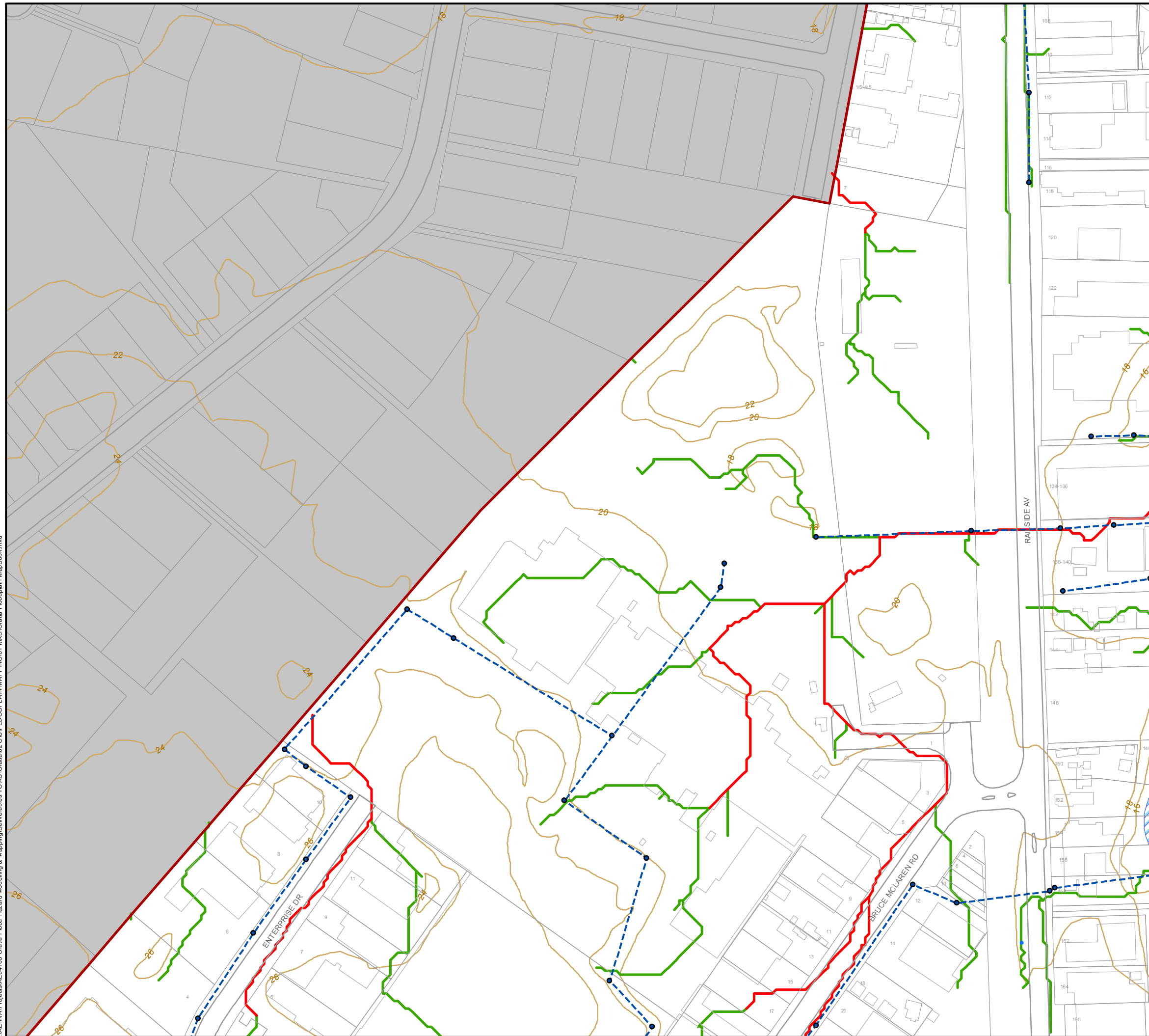
ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 95 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia02 GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

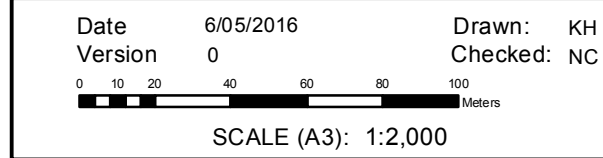
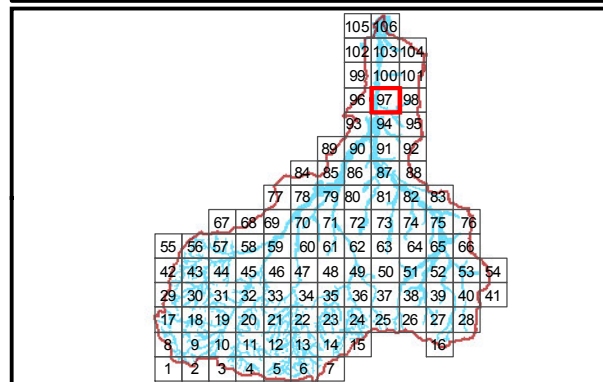
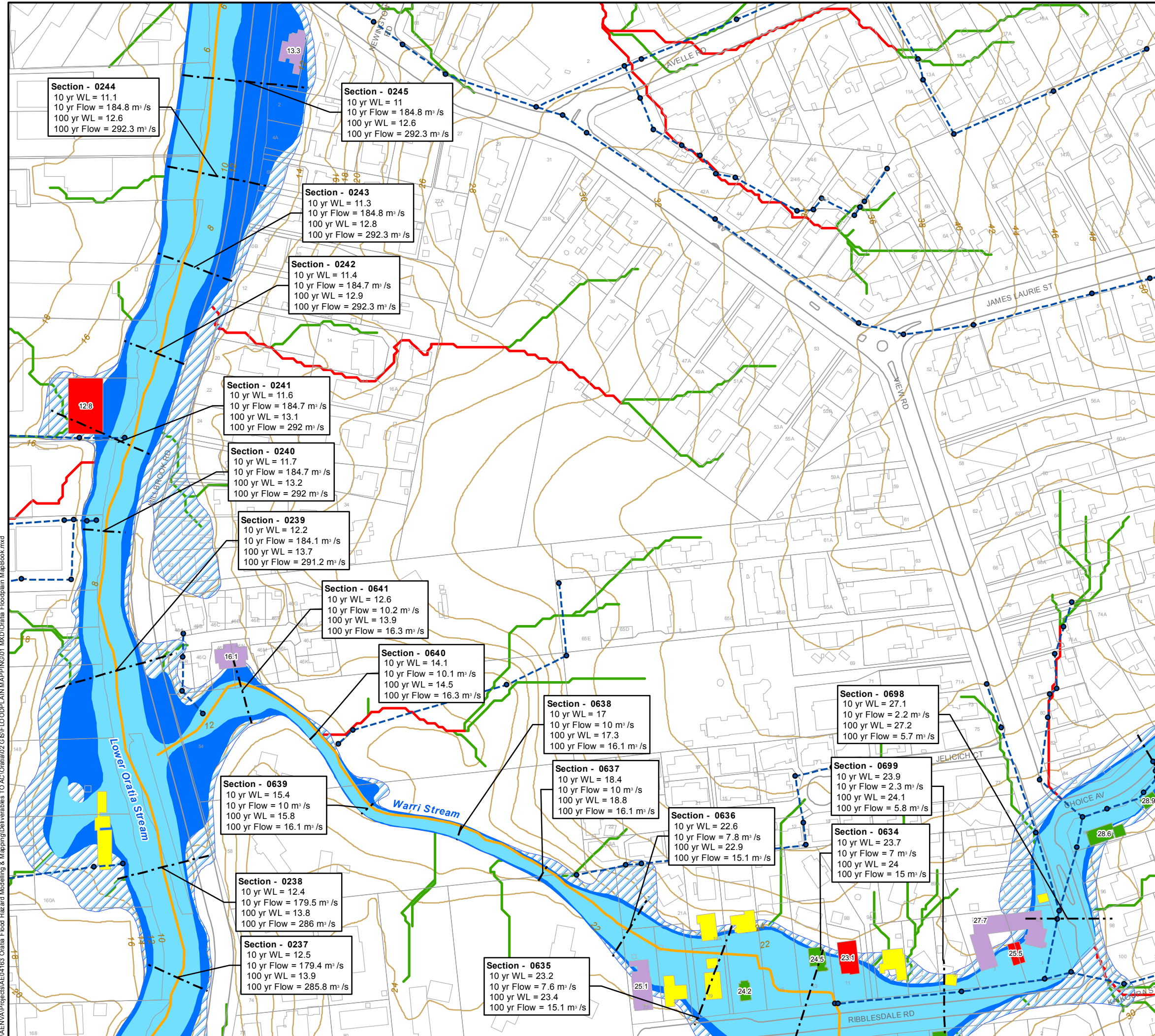
SCALE (A3): 1:2,000

JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 96 of 106

Figure H.1 Floodplain Map (MPD Scenario)



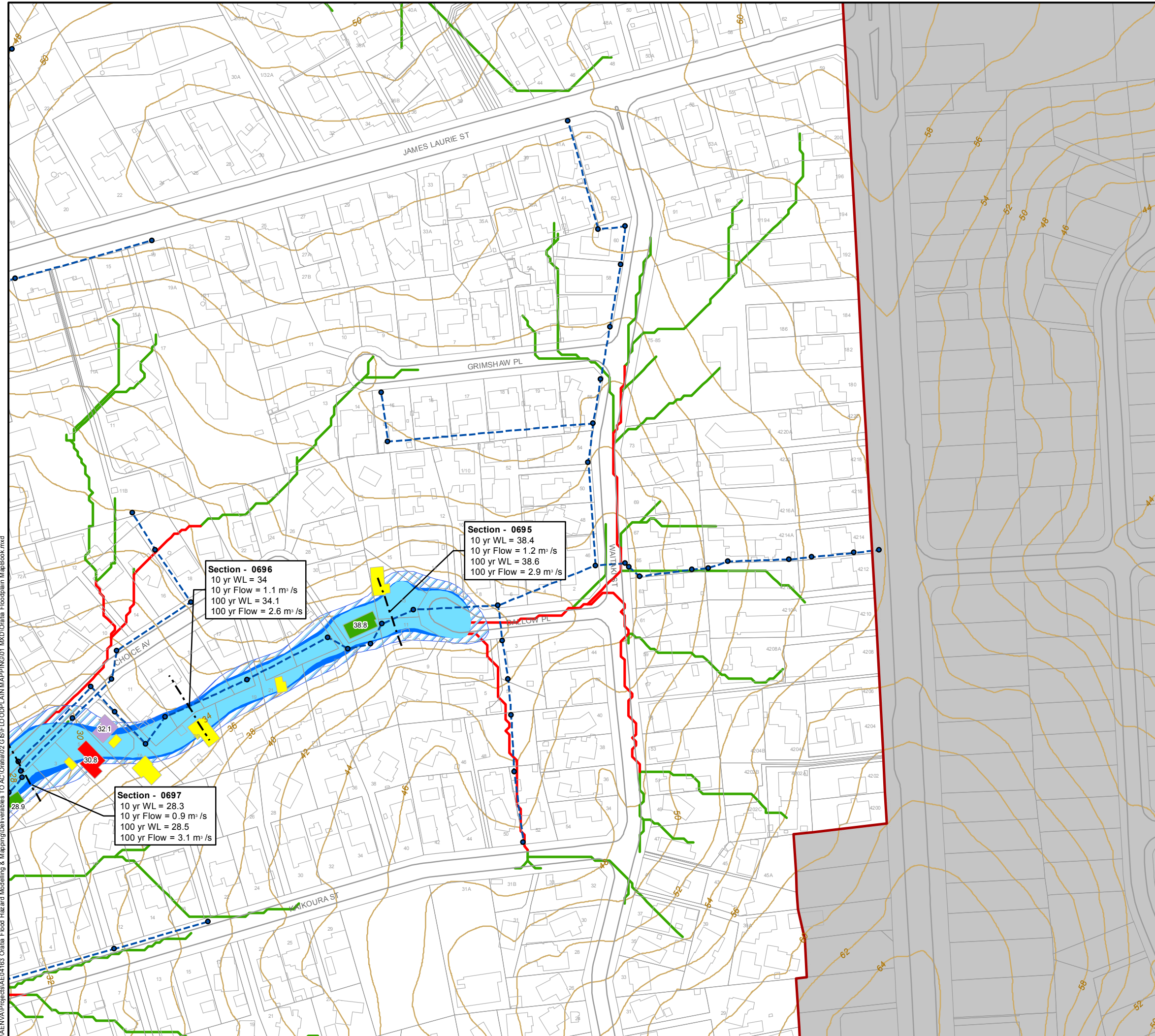
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

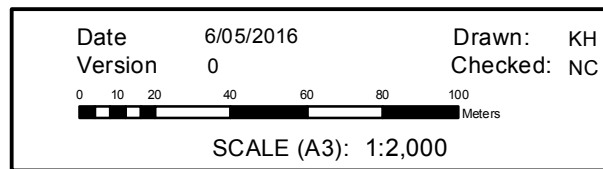
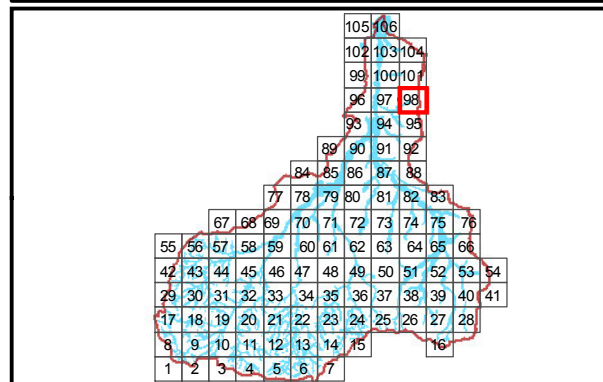
Sheet 97 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECU\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables\TO AC\Oratia\GIS\FLOODPLAIN\MAPPING\01 Mapped\Oratia Floodplain MapBook.mxd



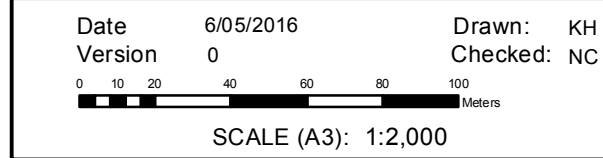
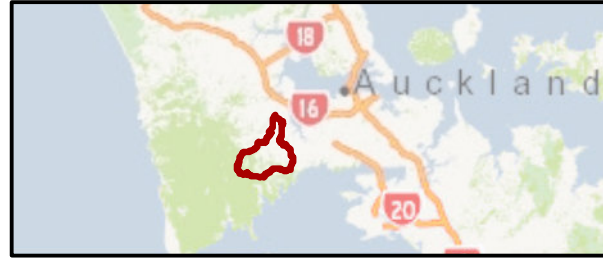
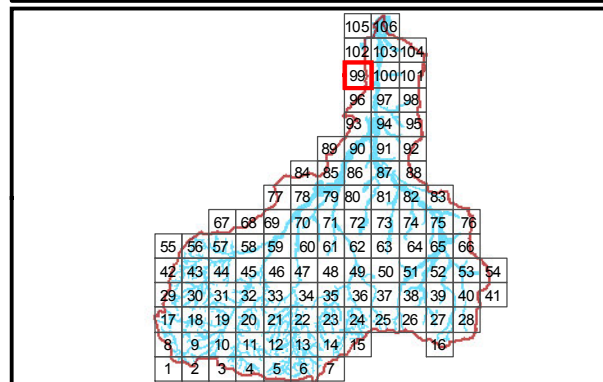
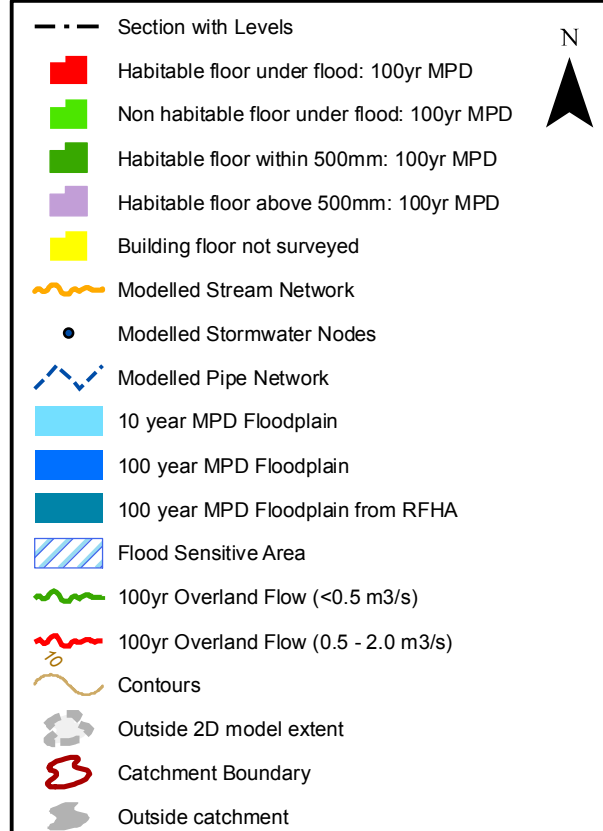
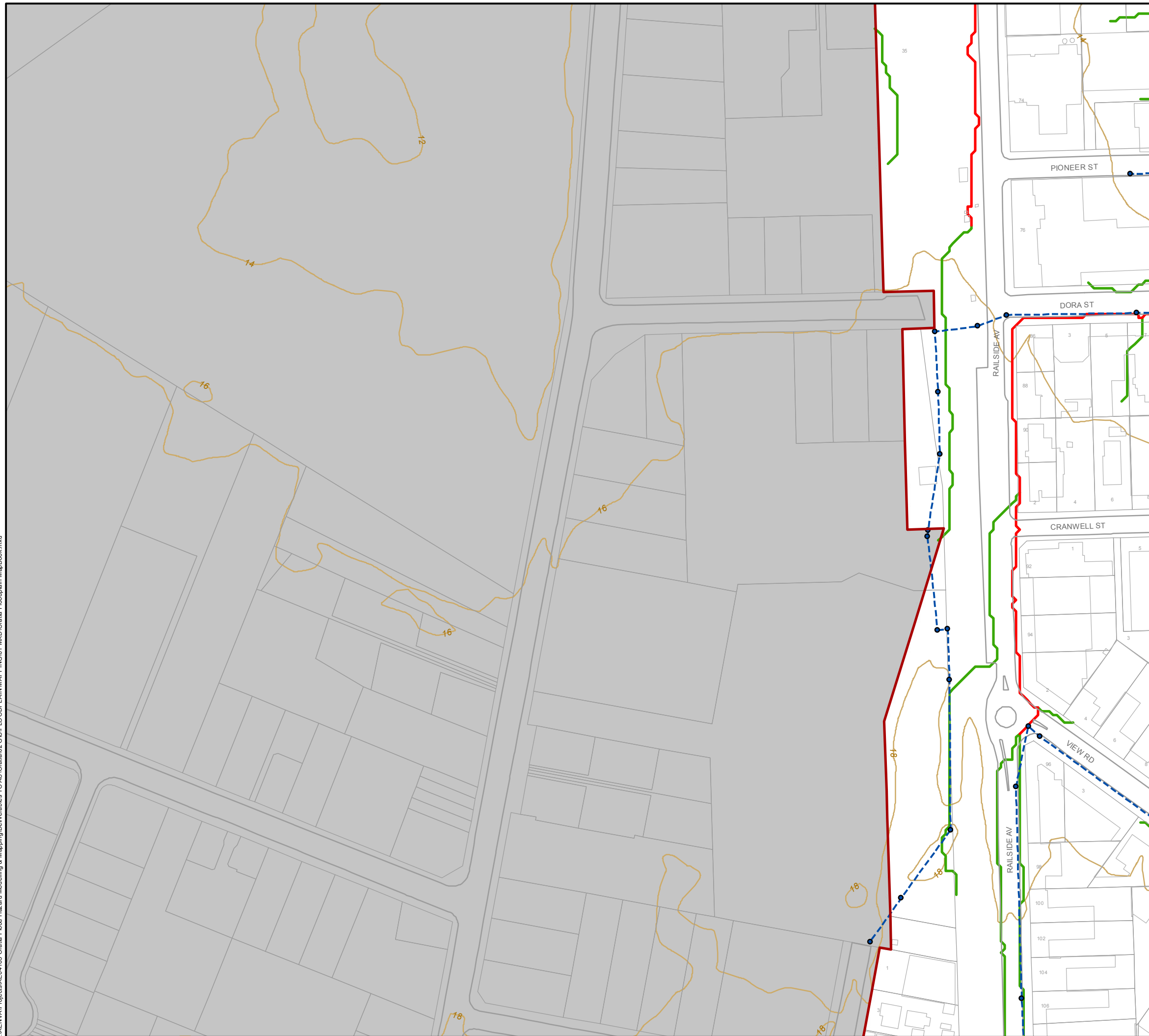
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 98 of 106

Figure H.1 Floodplain Map (MPD Scenario)

\\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

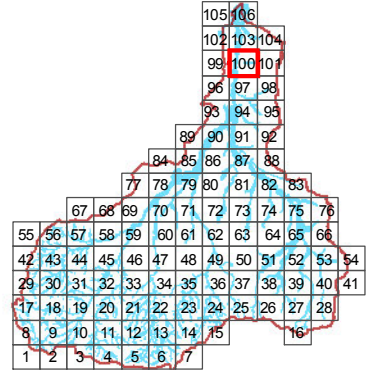
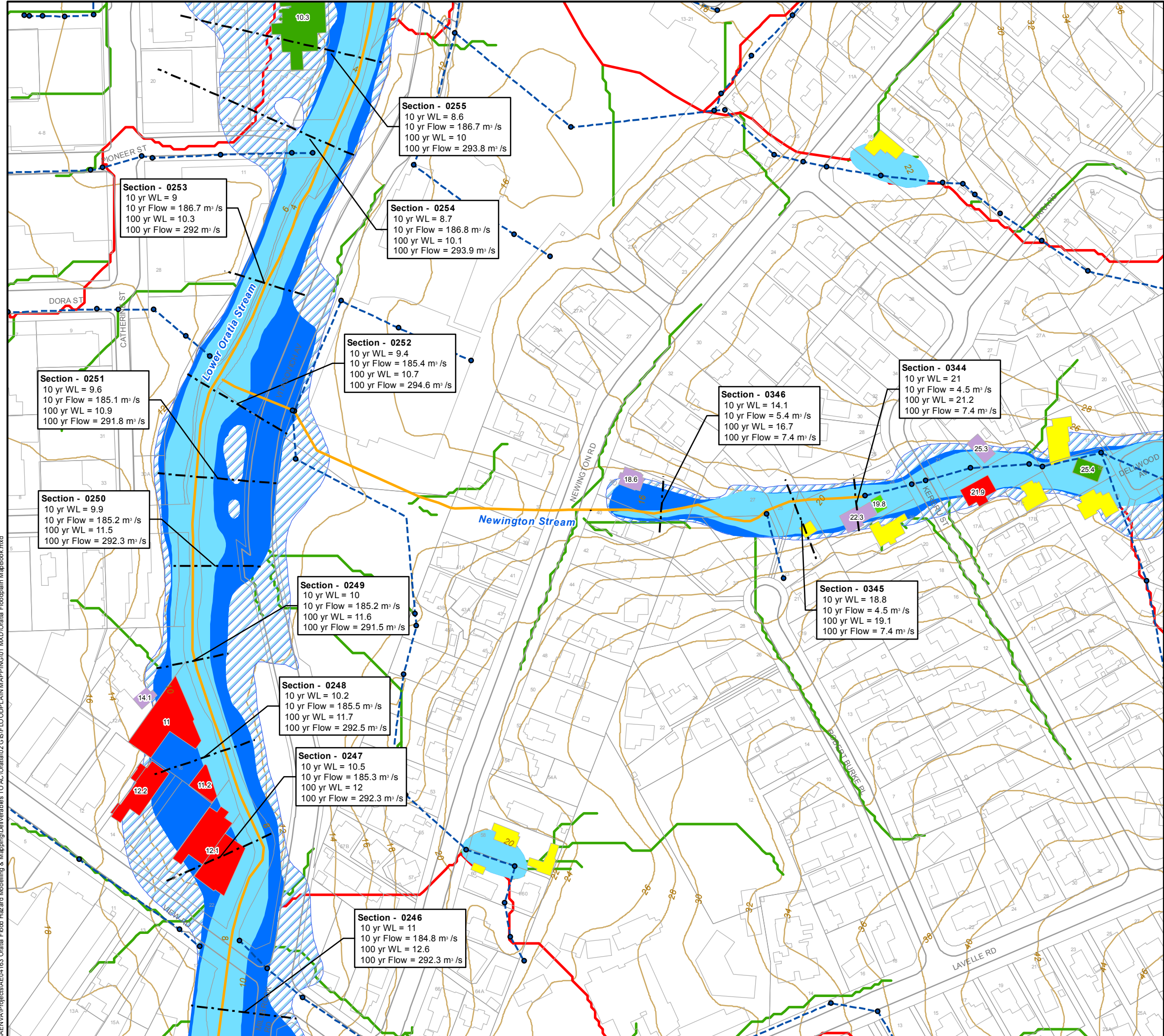


JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 99 of 106

Figure H.1 Floodplain Map (MPD Scenario)



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000

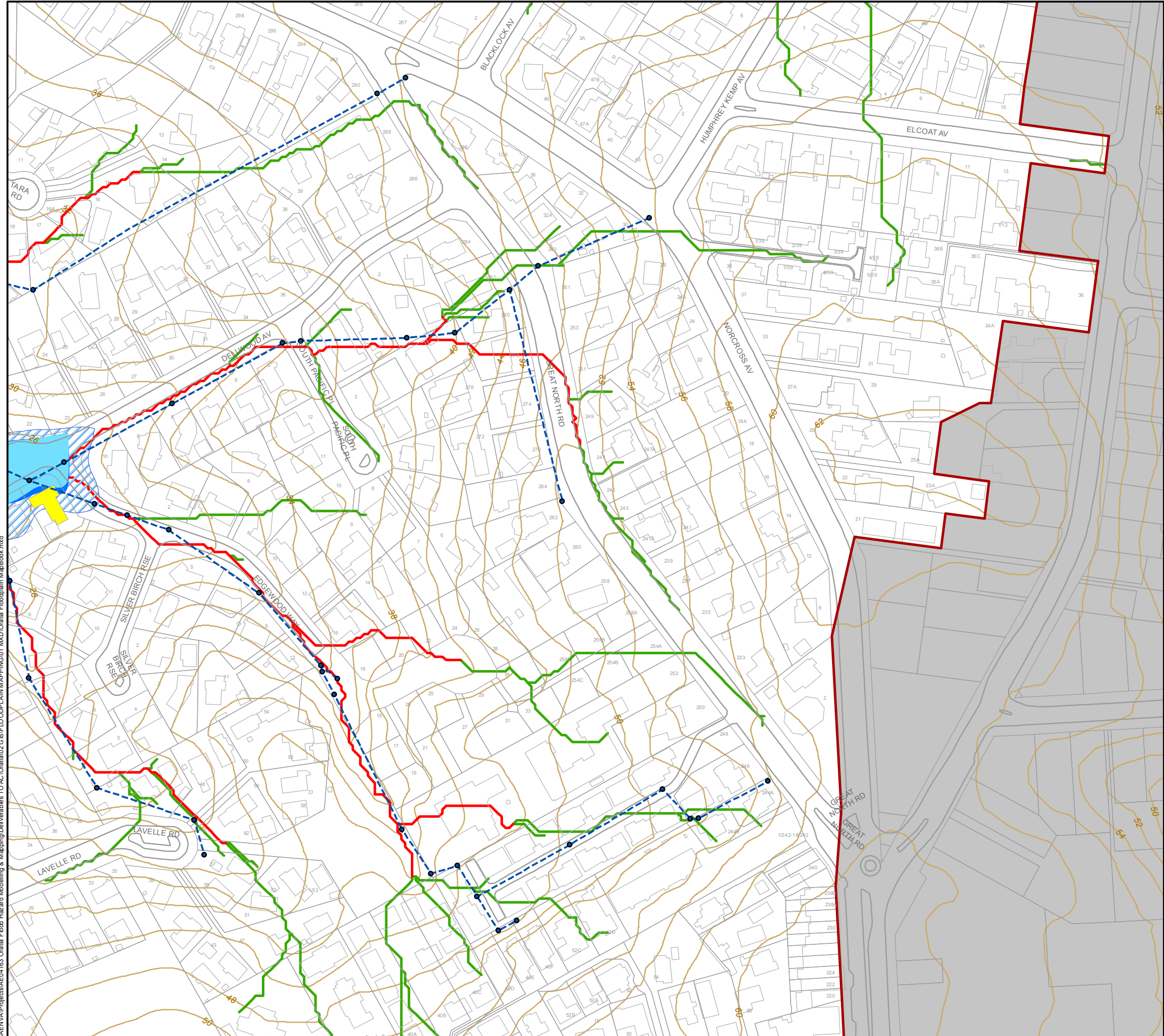
JACOBS
 SPATIAL

ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

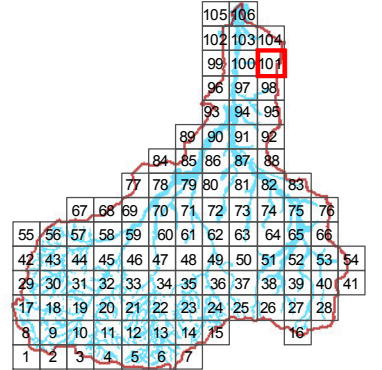
Sheet 100 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



- Section with Levels
- Habitable floor under flood: 100yr MPD
- Non habitable floor under flood: 100yr MPD
- Habitable floor within 500mm: 100yr MPD
- Habitable floor above 500mm: 100yr MPD
- Building floor not surveyed
- ~ Modelled Stream Network
- Modelled Stormwater Nodes
- - - Modelled Pipe Network
- 10 year MPD Floodplain
- 100 year MPD Floodplain
- 100 year MPD Floodplain from RFHA
- ▨ Flood Sensitive Area
- ~ 100yr Overland Flow (<0.5 m3/s)
- ~ 100yr Overland Flow (0.5 - 2.0 m3/s)
- ~ Contours
- Outside 2D model extent
- Catchment Boundary
- Outside catchment



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000



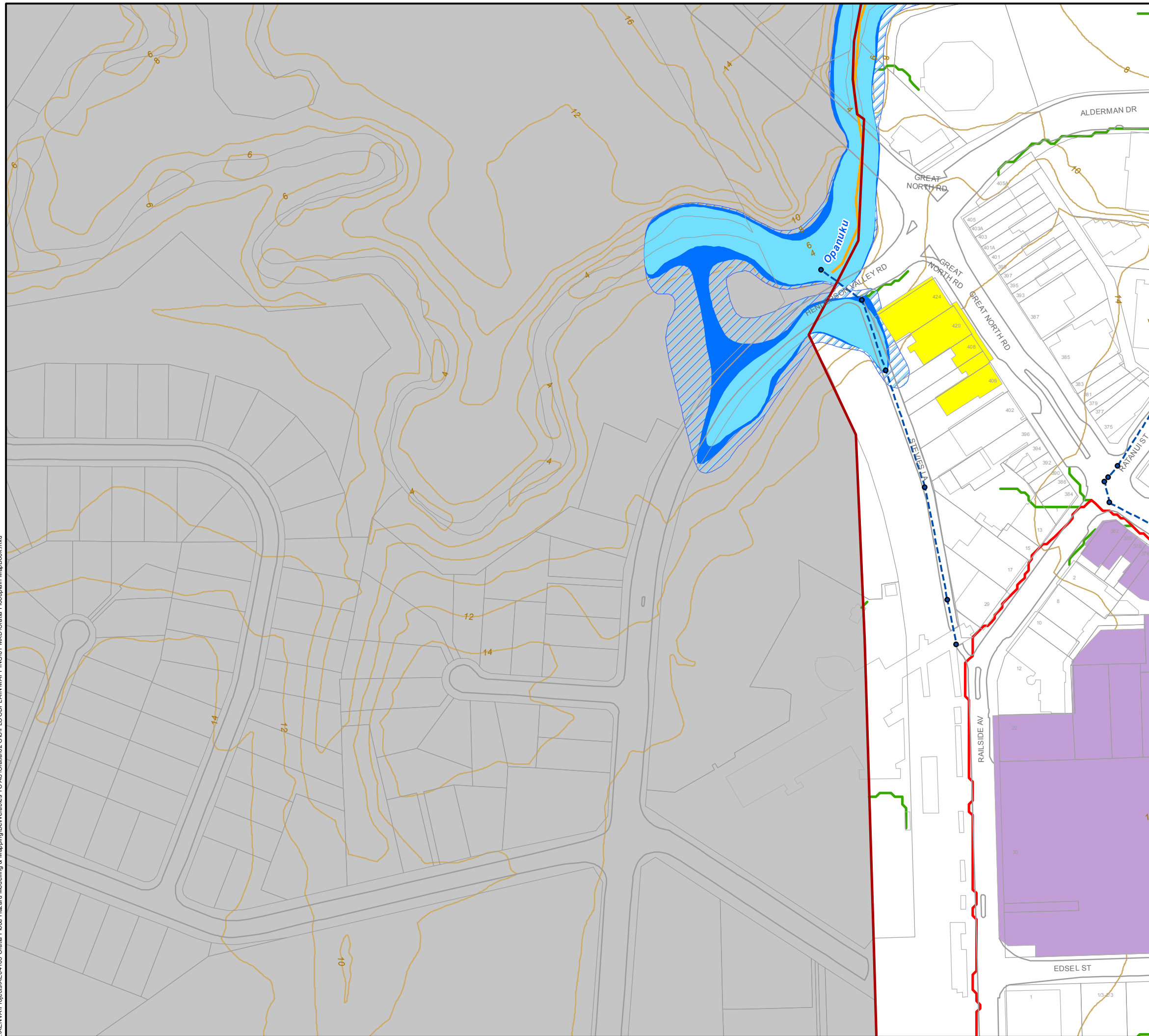
ORATIA
 SYSTEM PERFORMANCE ASSESSMENT

Sheet 101 of 106

Figure H.1 Floodplain Map (MPD Scenario)

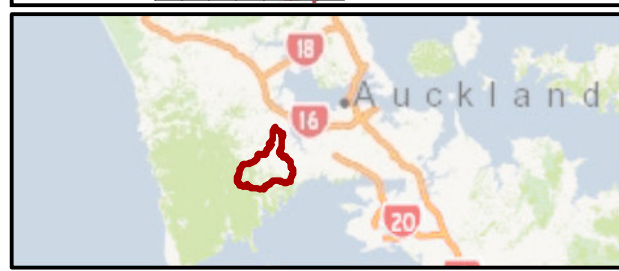
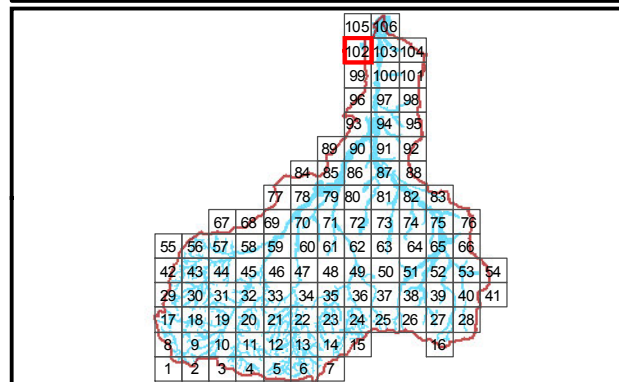
I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

\\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



--- Section with Levels

- Habitable floor under flood: 100yr MPD
- Non habitable floor under flood: 100yr MPD
- Habitable floor within 500mm: 100yr MPD
- Habitable floor above 500mm: 100yr MPD
- Building floor not surveyed
- Modelled Stream Network
- Modelled Stormwater Nodes
- - - Modelled Pipe Network
- 10 year MPD Floodplain
- 100 year MPD Floodplain
- 100 year MPD Floodplain from RFHA
- Flood Sensitive Area
- 100yr Overland Flow (<0.5 m3/s)
- 100yr Overland Flow (0.5 - 2.0 m3/s)
- Contours
- Outside 2D model extent
- Catchment Boundary
- Outside catchment



Date 6/05/2016 Drawn: KH
Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

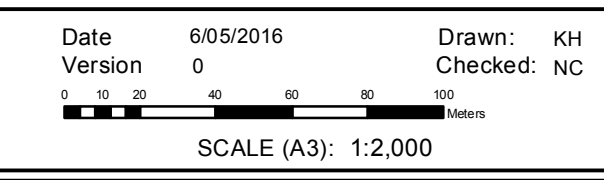
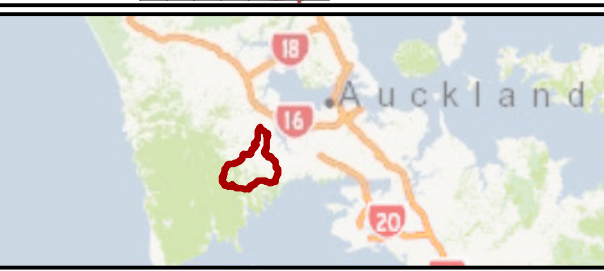
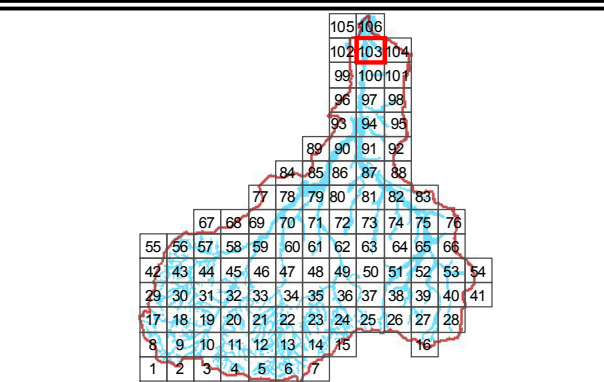
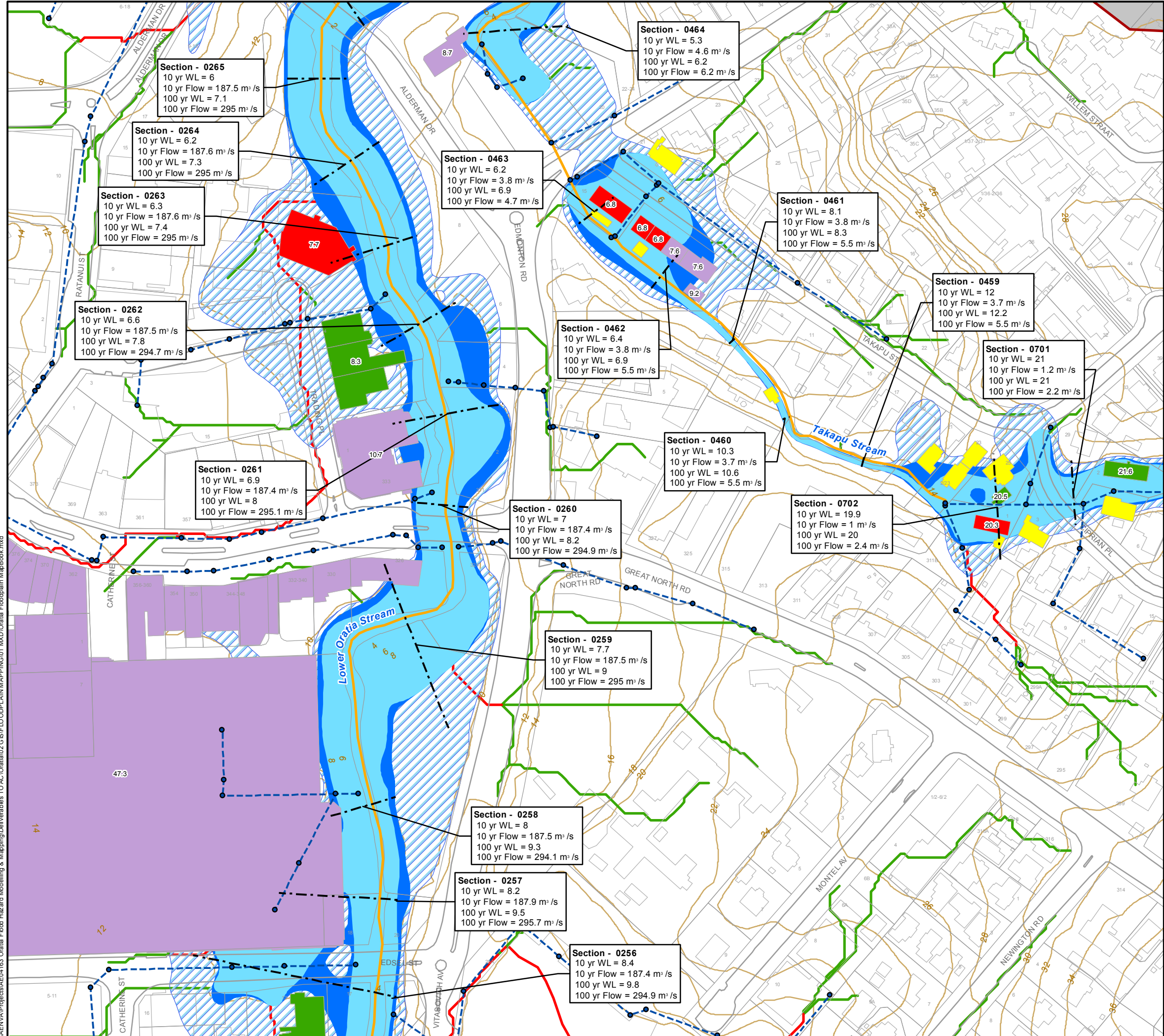
SCALE (A3): 1:2,000

JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 102 of 106

Figure H.1 Floodplain Map (MPD Scenario)



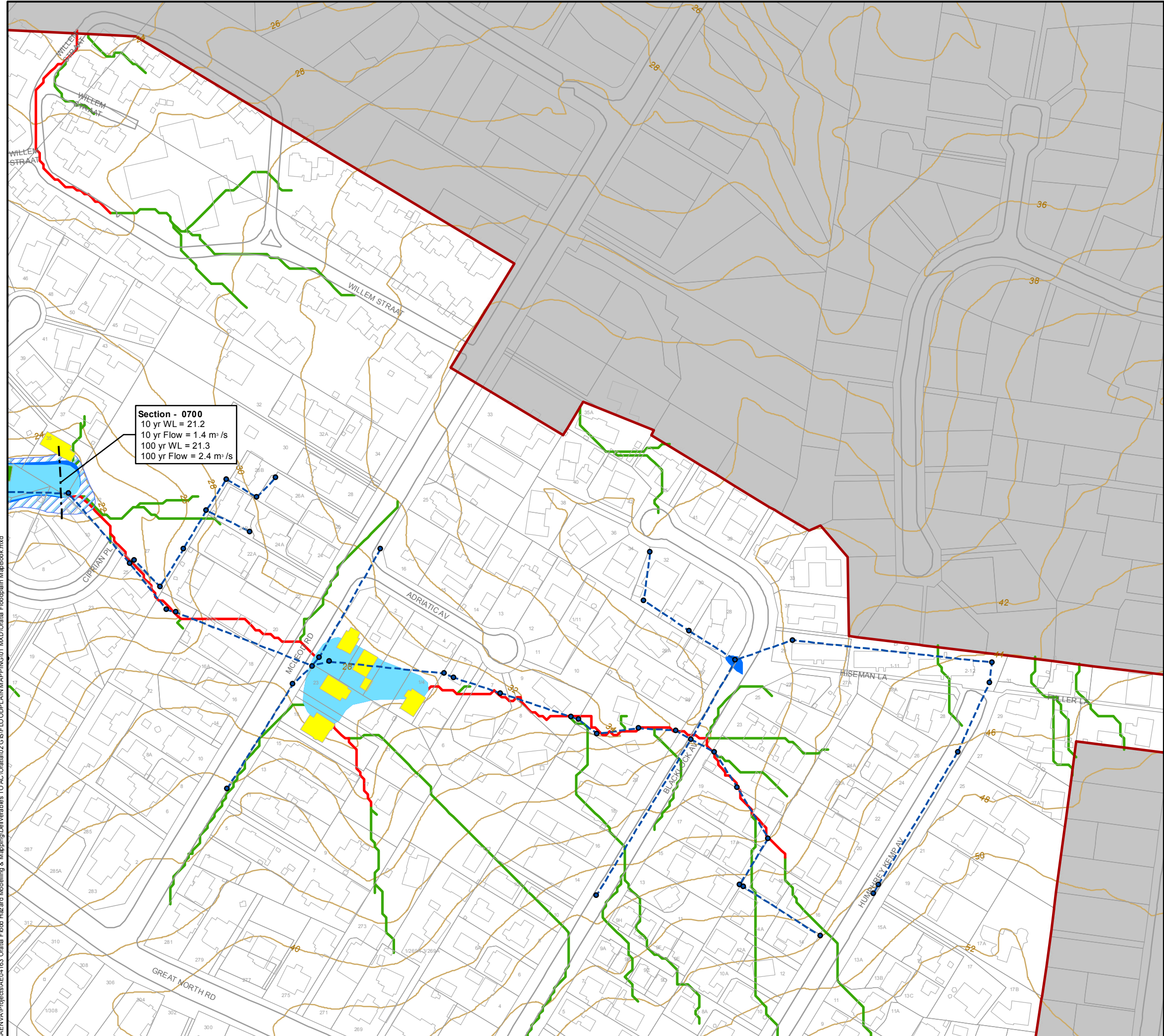
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

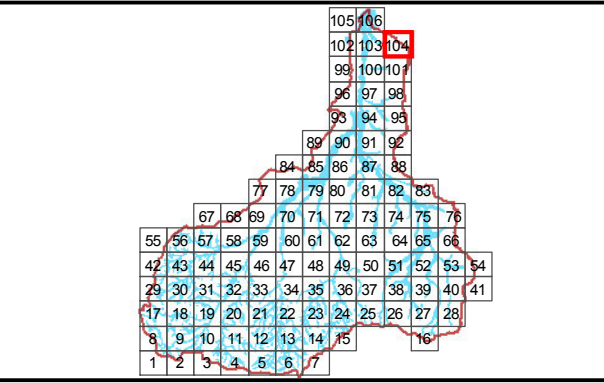
Sheet 103 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AECM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



I:\AENVA\Projects\AEM\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN\MAPPING\01 MXD\Oratia Floodplain MapBook.mxd



Date 6/05/2016 Drawn: KH
 Version 0 Checked: NC

0 10 20 40 60 80 100 Meters

SCALE (A3): 1:2,000

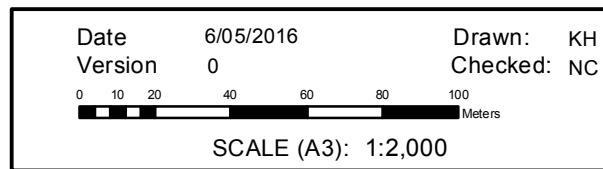
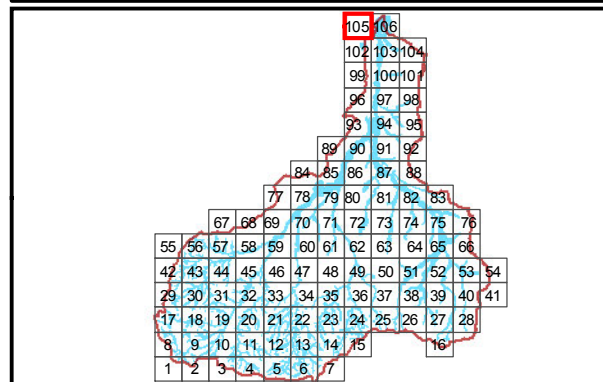
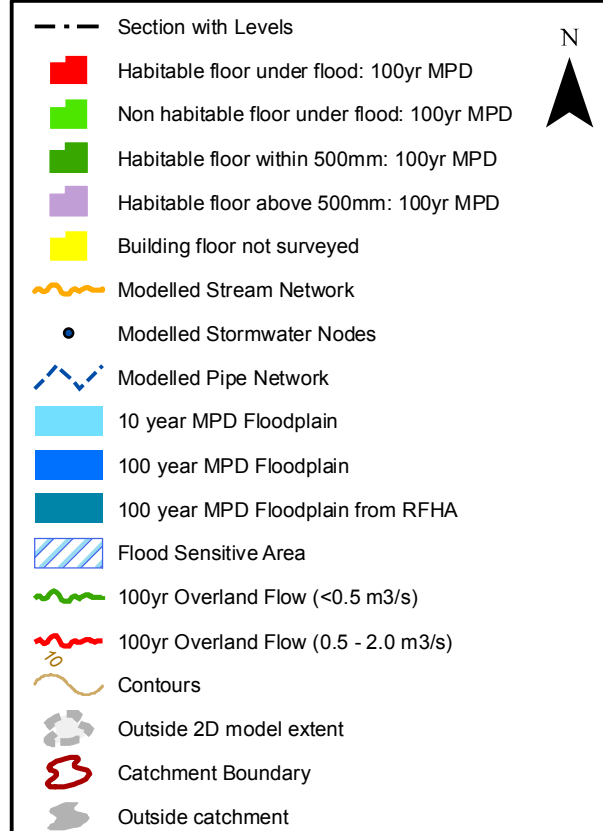
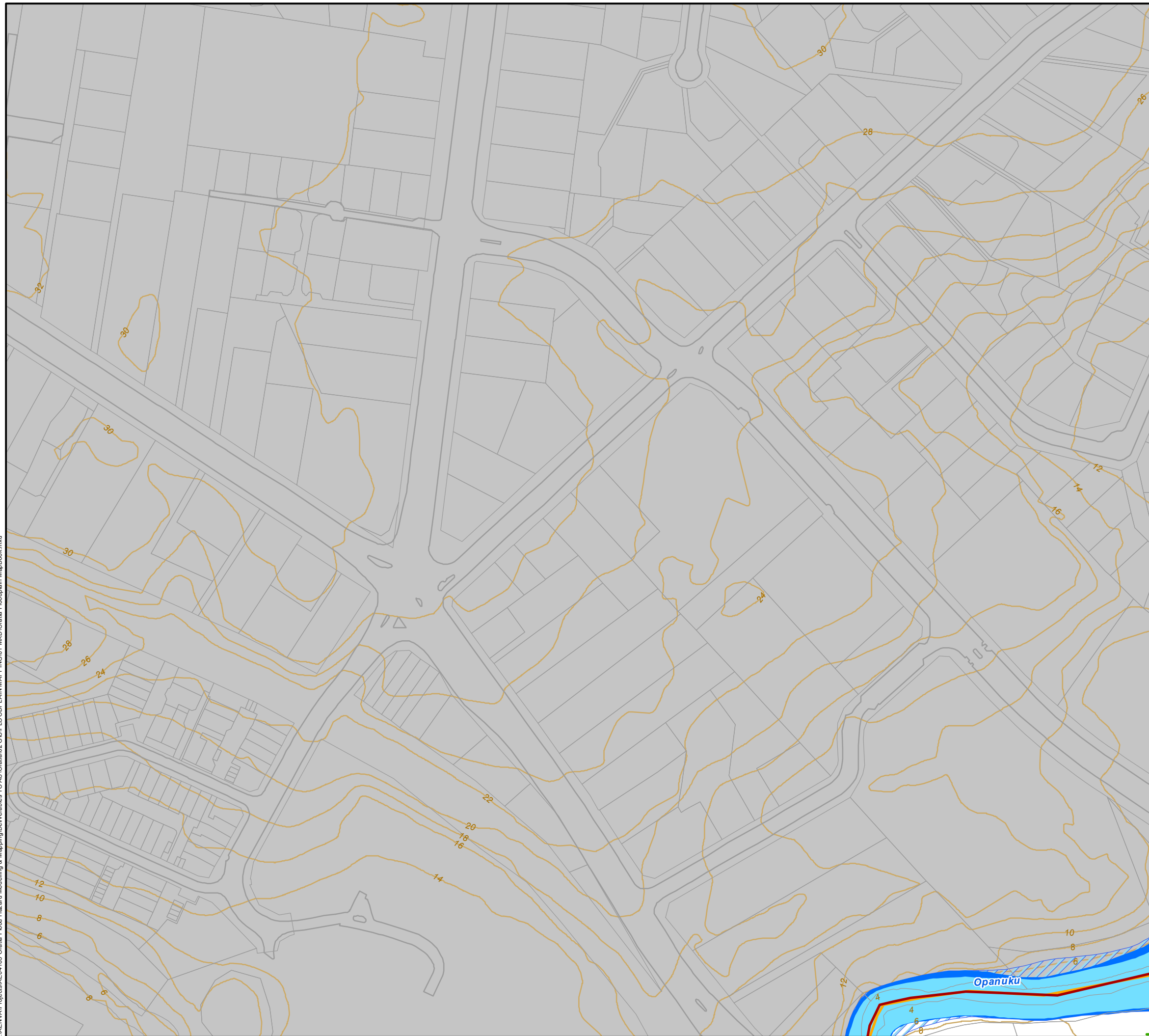
JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 104 of 106

Figure H.1 Floodplain Map (MPD Scenario)

\\AENVA\Projects\AEC\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd

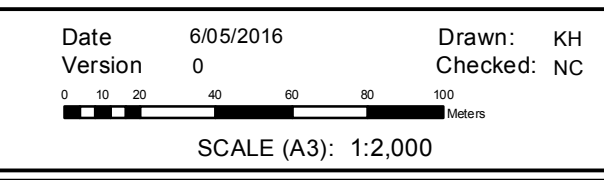
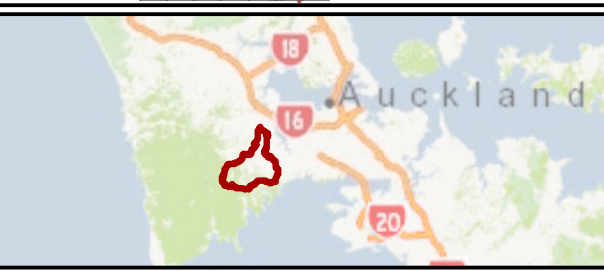
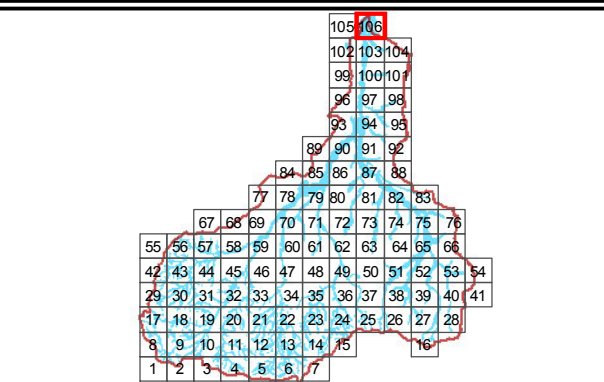
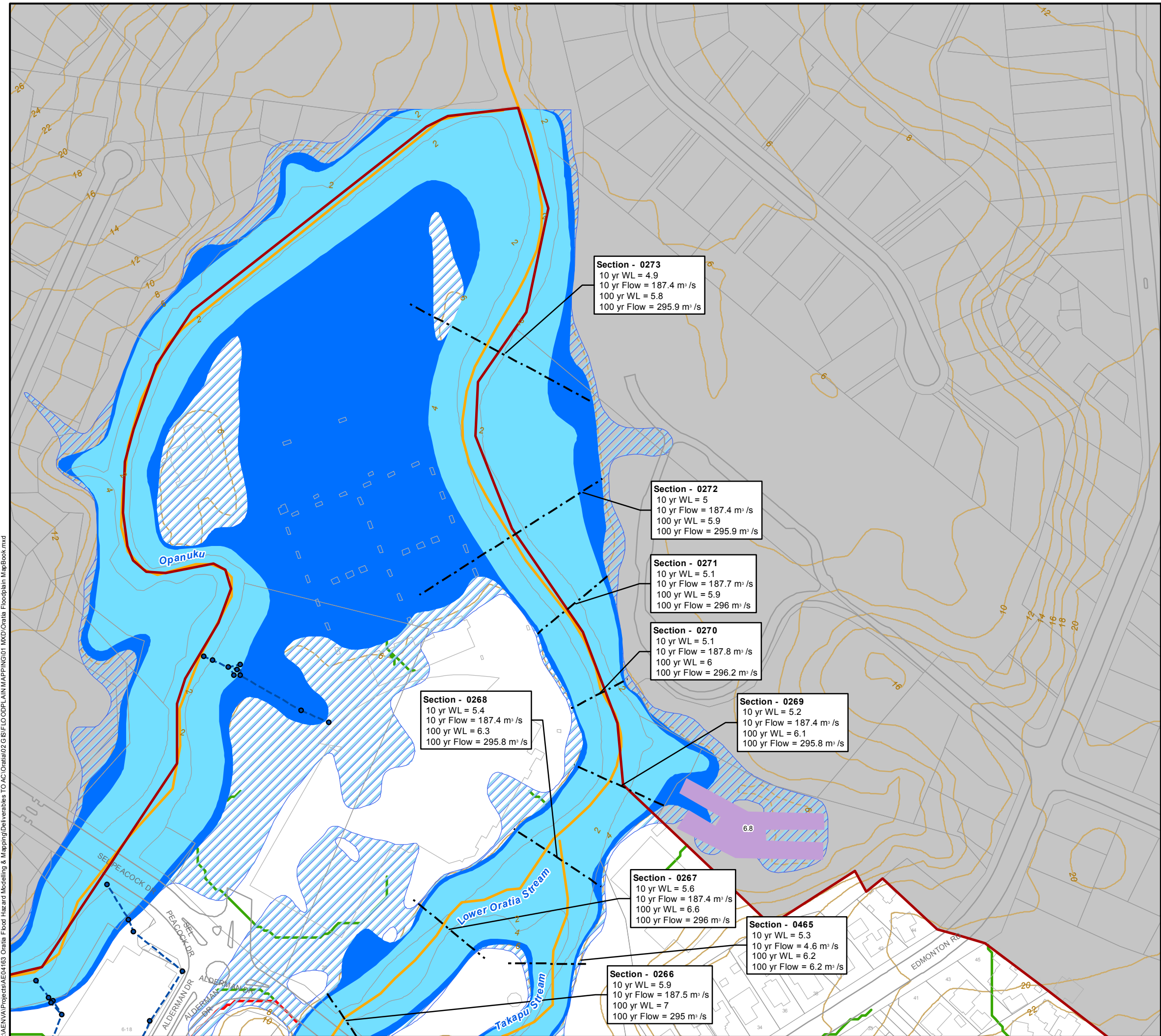


JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 105 of 106

Figure H.1 Floodplain Map (MPD Scenario)



JACOBS
SPATIAL

ORATIA
SYSTEM PERFORMANCE ASSESSMENT

Sheet 106 of 106

Figure H.1 Floodplain Map (MPD Scenario)

I:\AENVA\Projects\AENVA\163 Oratia Flood Hazard Modelling & Mapping\Deliverables TO AC\Oratia\02 GIS\FLOODPLAIN MAPPING\01 MXD\Oratia Floodplain MapBook.mxd