

Leichhardt Floodplain Risk
Management Study and Plan

FIGURES



DATE PLOTTED: May 2017
FILE: N:\Projects\699\FY13\NA\699\3094_LEICHHARDT_FRMS&P\01-Package_11_Data\Date-01\20170622-Figure_Updates_FRMP



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Inner West Council
Leichhardt FRMS&P
STUDY AREA

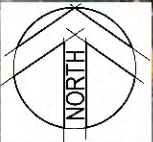
FIG_1_1




Date
MAY 2017

Leichhardt_Study_Area
Drawing Number

Size
A3

01
Revision



	Study Area
	100 Year ARI Extent
	PMF Extent



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Leichhardt FRMS&P
PMF AND 100 YEAR ARI FLOOD EXTENT






Date
MAY 2017

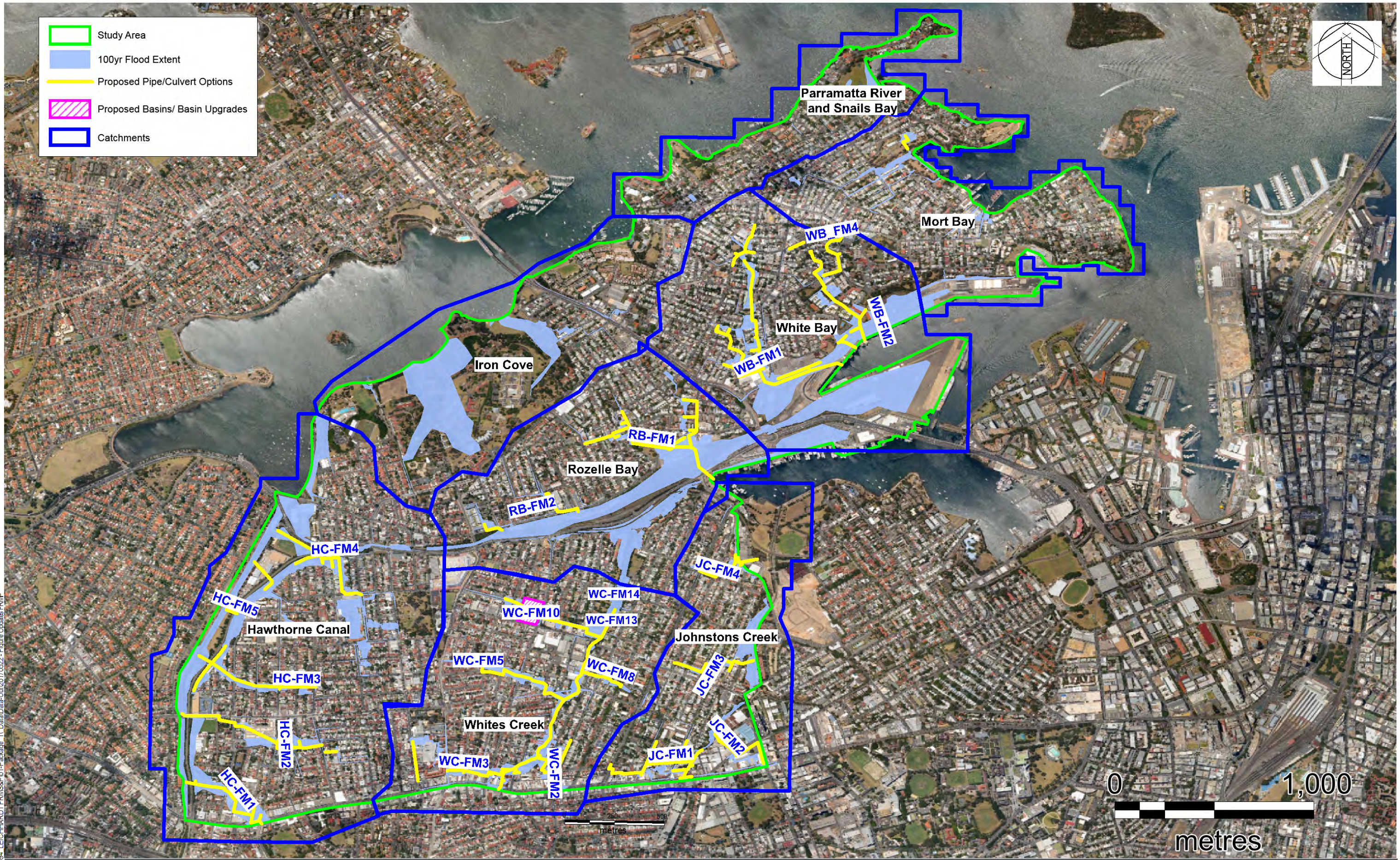
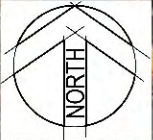
Leichhardt_Study_Area
Drawing Number

Size
A3

01
Revision

FIG_2_1

-  Study Area
-  100yr Flood Extent
-  Proposed Pipe/Culvert Options
-  Proposed Basins/ Basin Upgrades
-  Catchments



DATE PLOTTED: May 2017 BY: Matthew Prumm
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Leichhardt FRMS&P
FLOOD MODIFICATION OPTIONS

FIG_4_1

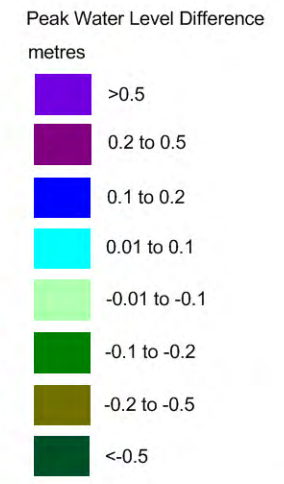
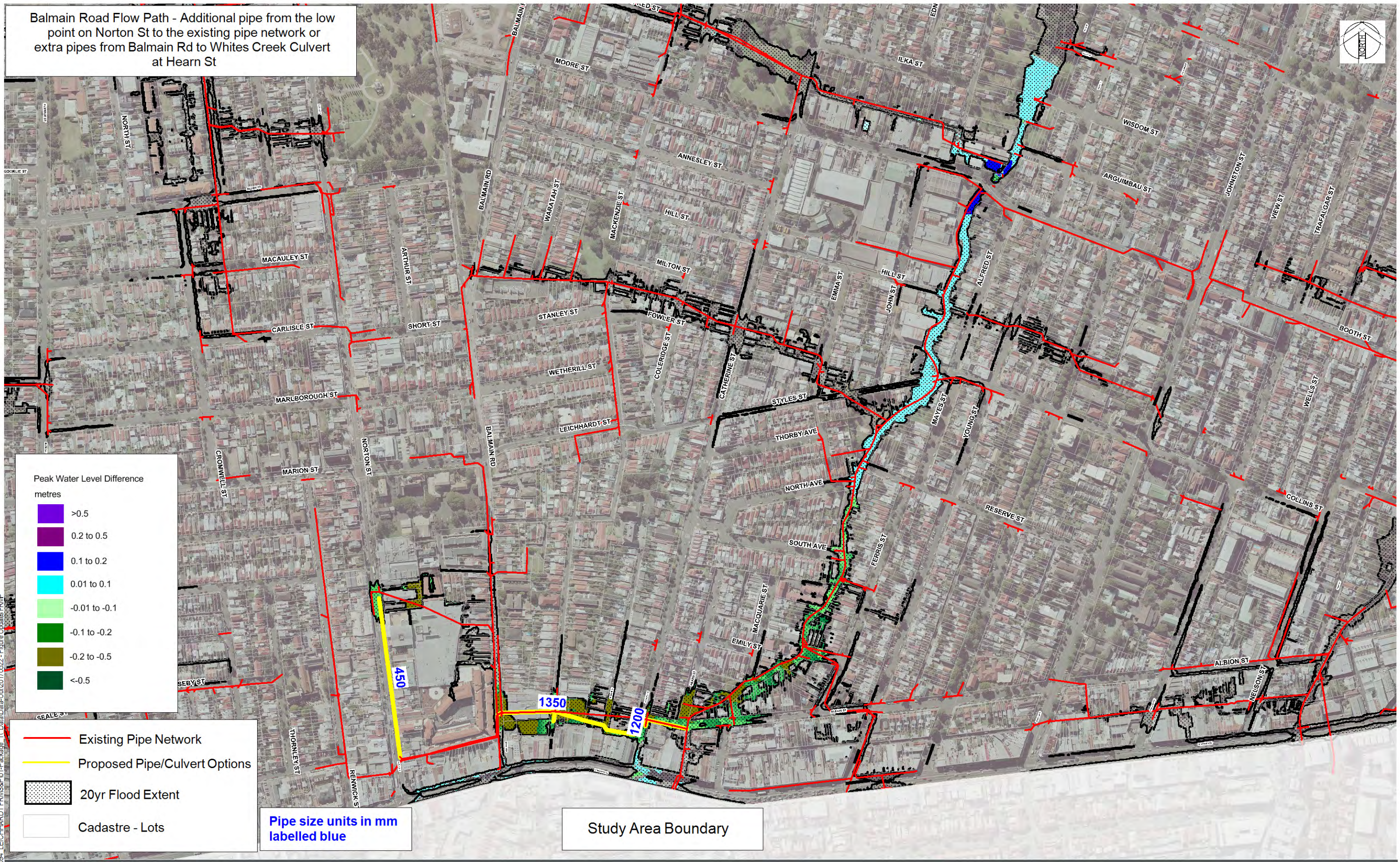
Date
05/2017

Leichhardt_Proposed_Option_Locations
Drawing Number

Size
A3

01
Revision

Balmain Road Flow Path - Additional pipe from the low point on Norton St to the existing pipe network or extra pipes from Balmain Rd to Whites Creek Culvert at Hearn St



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue

Study Area Boundary



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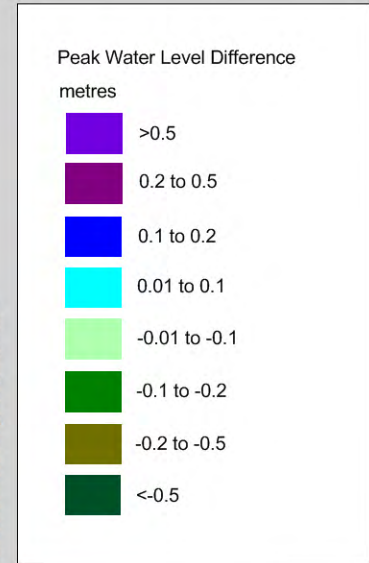
WC_FM3 20YR ARI WL DIFF
 MITIGATION LESS EXISTING
 FIG_4_2

WC_FM3_20yr_WIDiff
 Drawing Number

01
 Revision

DATE PLOTTED: May 2017
 FILE: N:\Projects\693\FY13\NA\693\3094_LEICHHARDT FRMS&P\01-Package_11_Data\Date-04\20170522-Figure_4\widiff_FRM.P

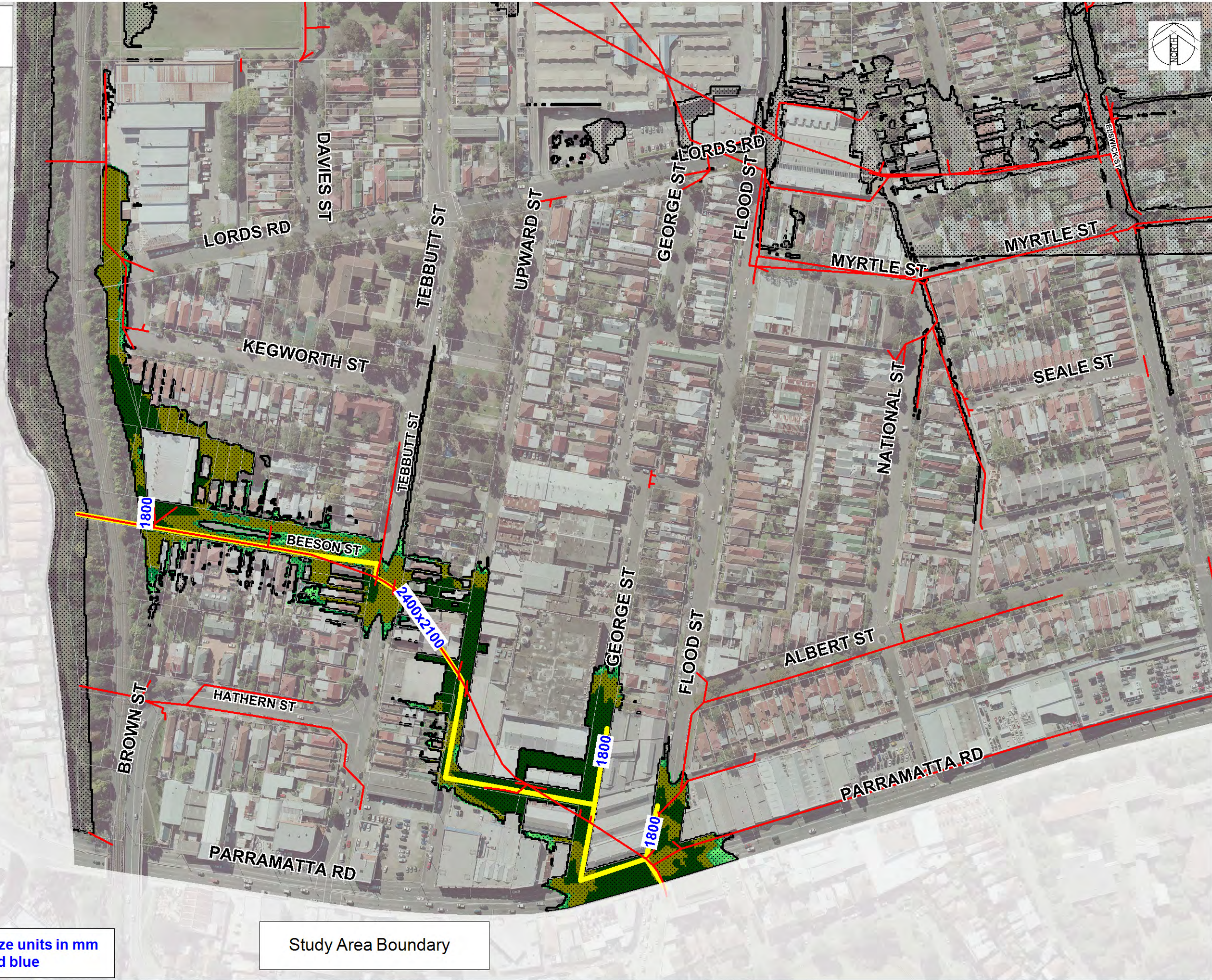
Additional pipes / culverts from Parramatta Road to Hawthorne Canal via Beeson St



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue

Study Area Boundary



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HC_FM1 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_3

Date
05/2017

HC_FM1_20yr_WIDiff
Drawing Number

Size
A3

01
Revision

Detention Basin at Mackenzie St (upstream at the intersection of Mackenzie and Milton St)



Peak Water Level Difference metres

- >0.5
- 0.2 to 0.5
- 0.1 to 0.2
- 0.01 to 0.1
- 0.01 to -0.1
- 0.1 to -0.2
- 0.2 to -0.5
- <-0.5

- Existing Pipe Network
- Proposed Basin
- 20yr Flood Extent
- Cadastre - Lots

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WC_FM5 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_4

Date
05/2017

WC_FM5_20yr_WIDiff
Drawing Number

Size
A3

01
Revision

Additional pipes/culverts from Elswick Street to Hawthorne Canal (via Regent Street and Darley Road.) Also extra pipes at Darley Road to reduce flood depths on the road.

Study Area Boundary

Existing Pipe Network

Proposed Pipe/Culvert Options

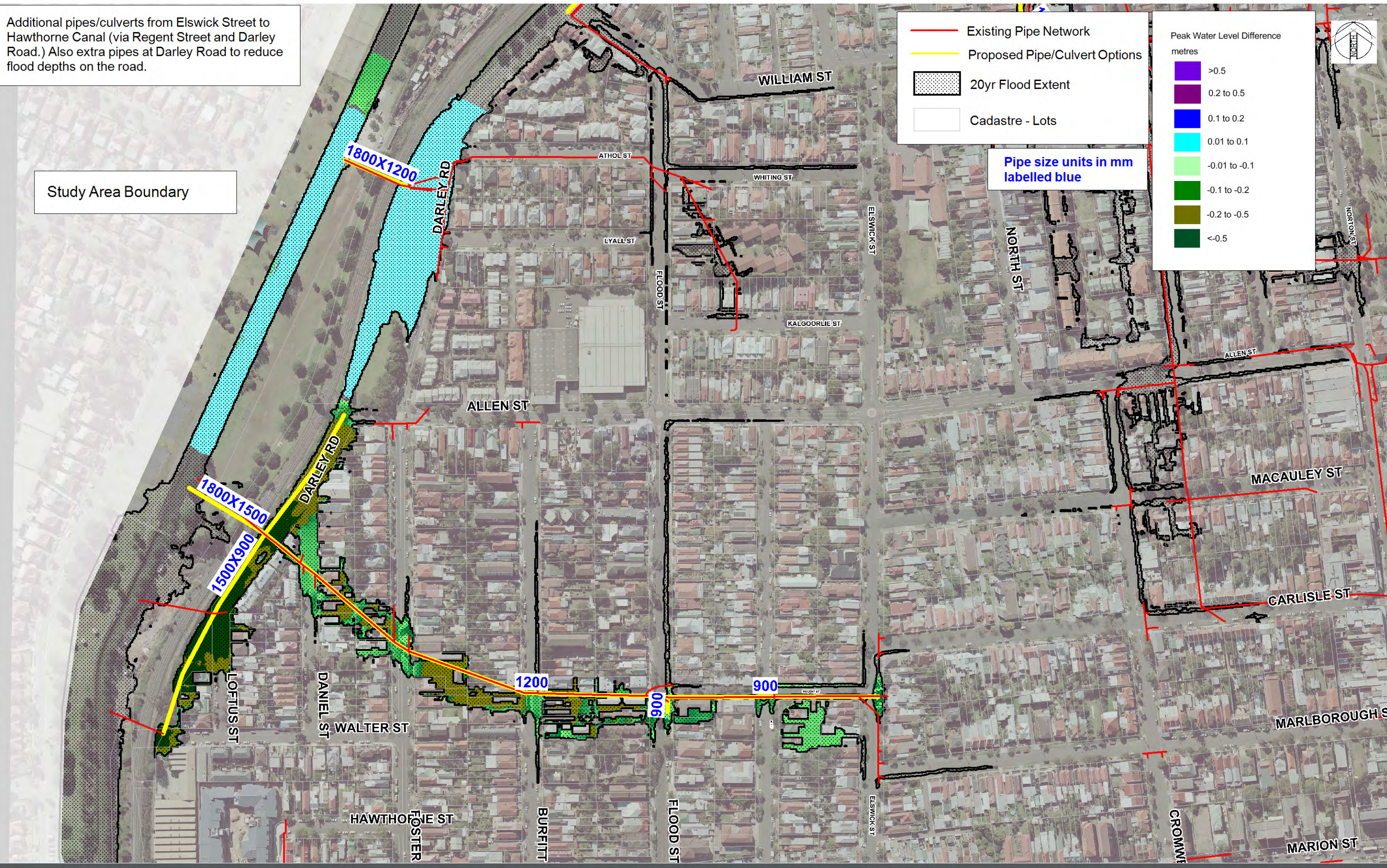
20yr Flood Extent

Cadastre - Lots

Pipe size units in mm labelled blue

Peak Water Level Difference metres

- >0.5
- 0.2 to 0.5
- 0.1 to 0.2
- 0.01 to 0.1
- 0.01 to -0.1
- 0.1 to -0.2
- 0.2 to -0.5
- <-0.5



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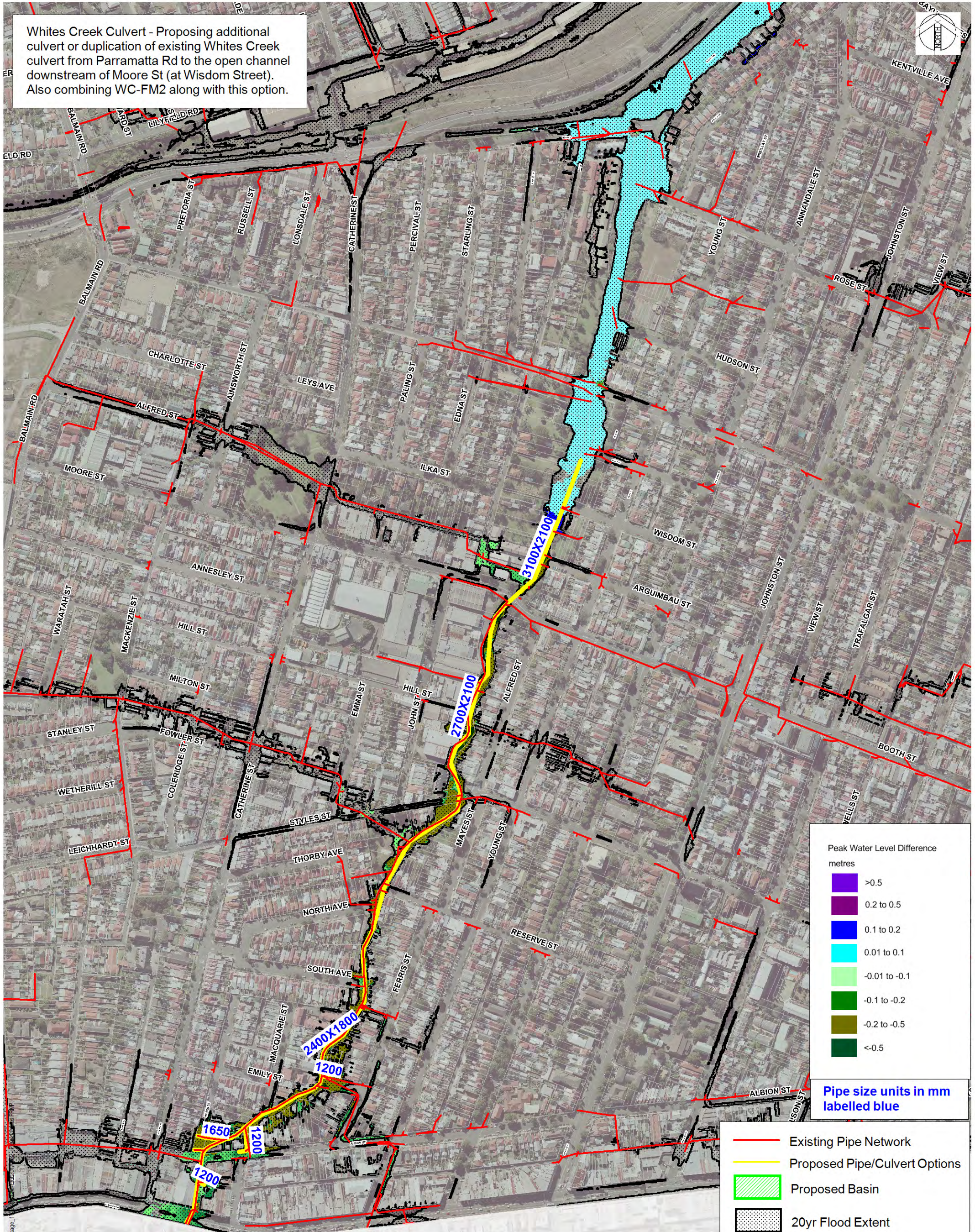
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HC_FM3 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_5

Date
05/2017
HC_FM3_20yr_WIDiff
Drawing Number

Size
A3
01
Revision

Whites Creek Culvert - Proposing additional culvert or duplication of existing Whites Creek culvert from Parramatta Rd to the open channel downstream of Moore St (at Wisdom Street). Also combining WC-FM2 along with this option.



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WC_FM1 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_6

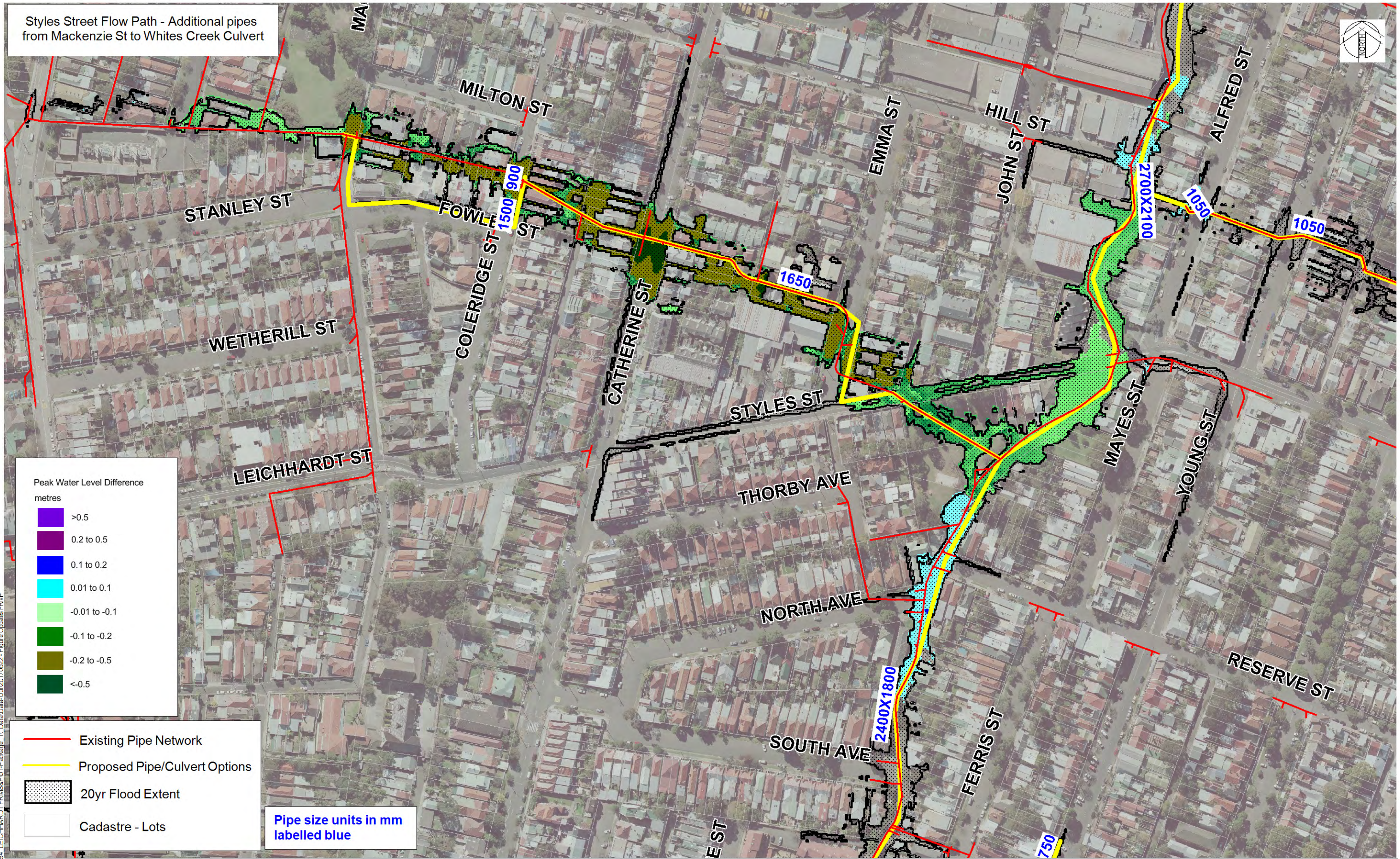
Date
05/2017

WC_FM1_20yr_WIDiff
Drawing Number

Size
A3

01
Revision

Styles Street Flow Path - Additional pipes from Mackenzie St to Whites Creek Culvert



Peak Water Level Difference metres

- >0.5
- 0.2 to 0.5
- 0.1 to 0.2
- 0.01 to 0.1
- 0.01 to -0.1
- 0.1 to -0.2
- 0.2 to -0.5
- <-0.5

- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue

DATE PLOTTED: May 2017
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Date
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Size
A3

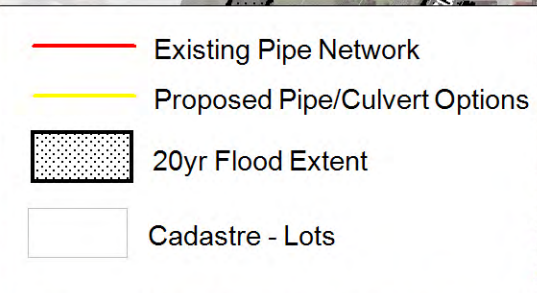
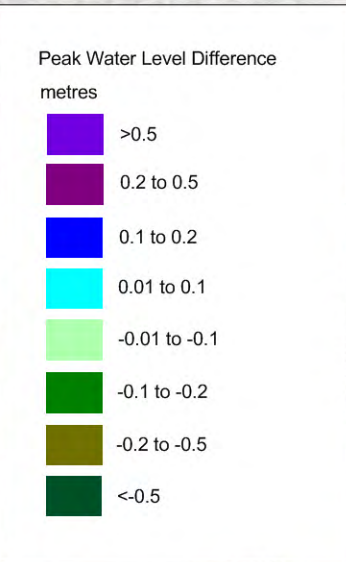
WC_FM6 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_7

WC_FM6_20yr_WIDiff
Drawing Number

01
Revision

Additional pipes/culverts from William Street to Hawthorne Canal via Hubert Street and Darley Road

Study Area Boundary



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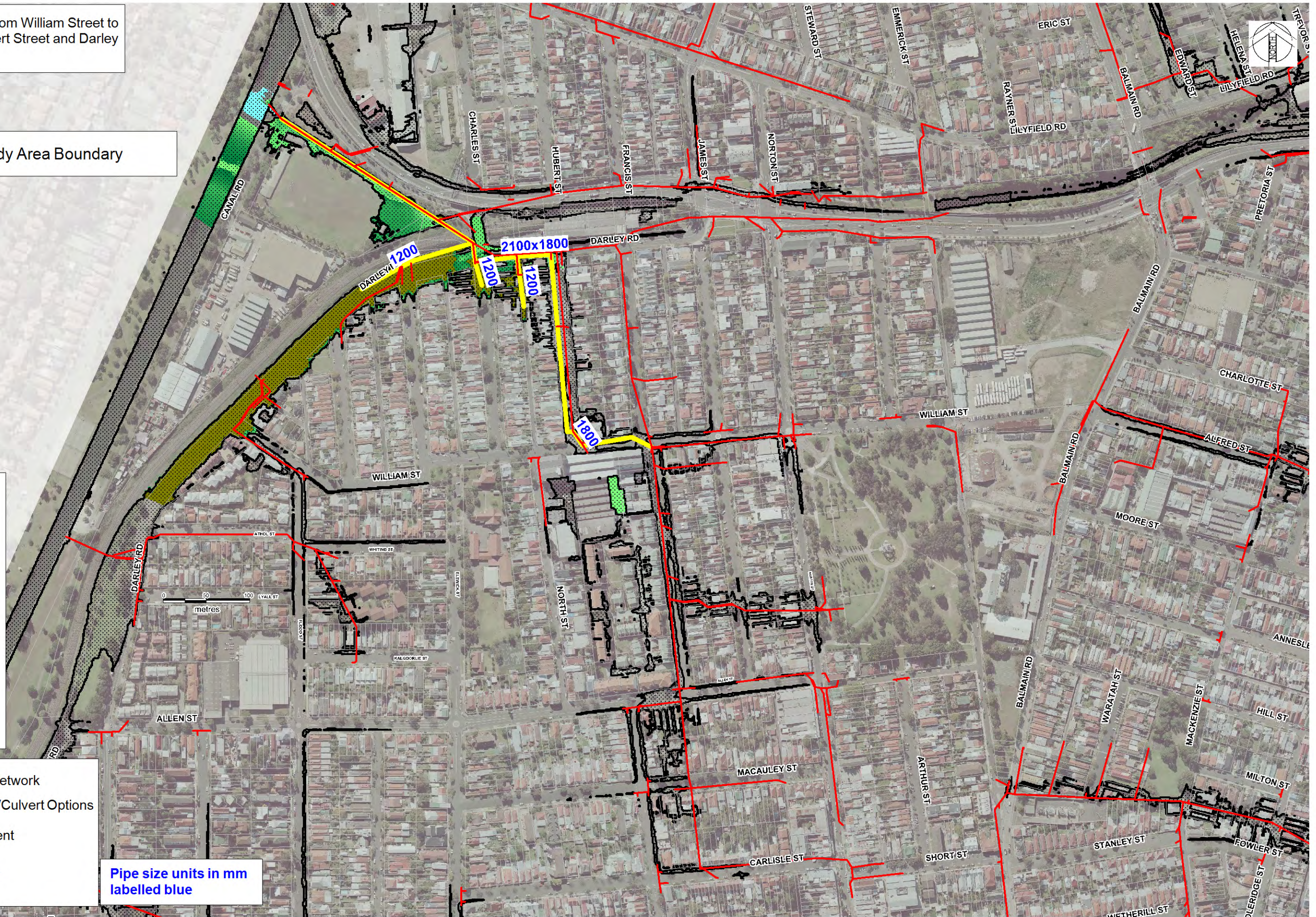
HC_FM4 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_8

Date
05/2017

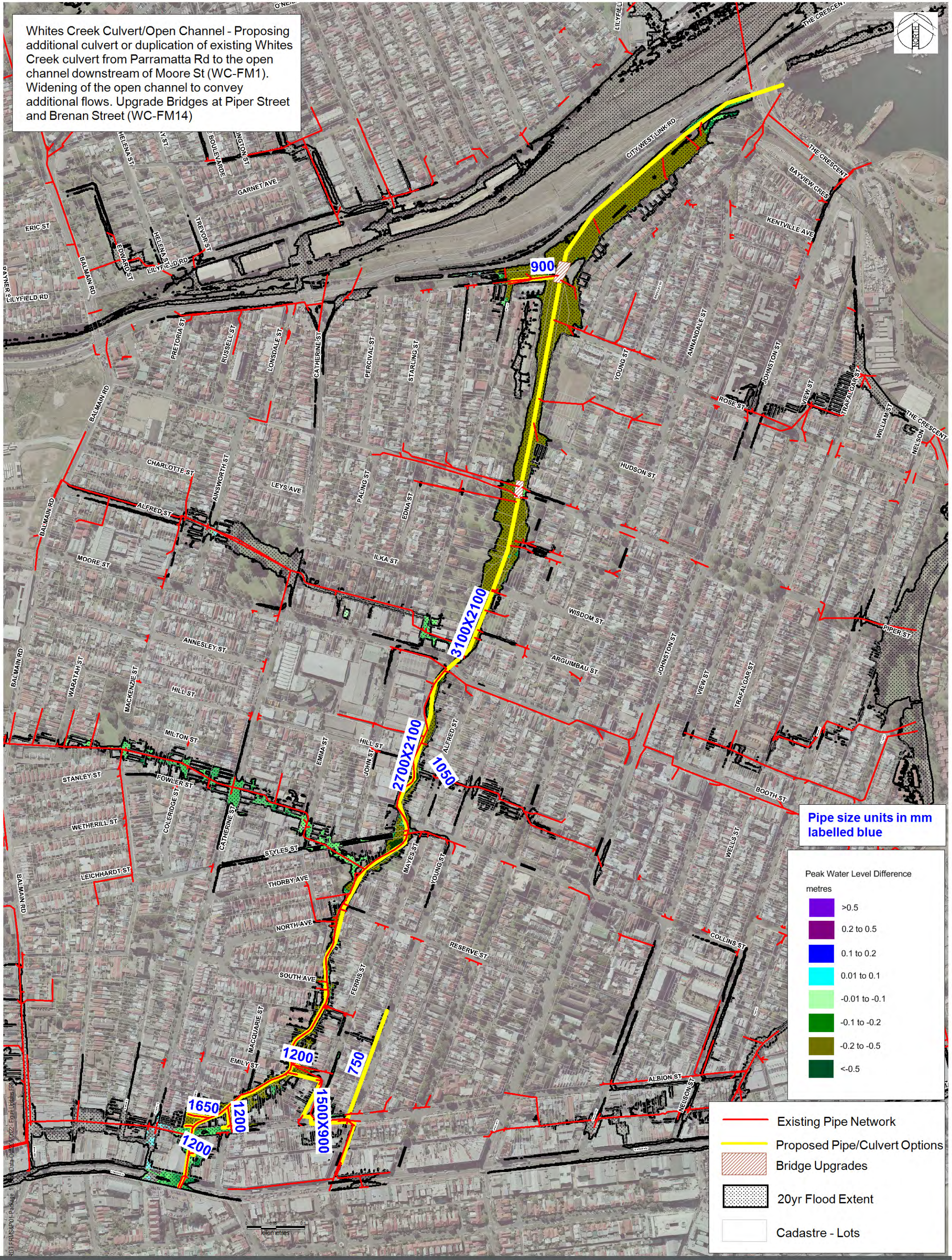
HC_FM4_20yr_WIDiff
Drawing Number

Size
A3

01
Revision



Whites Creek Culvert/Open Channel - Proposing additional culvert or duplication of existing Whites Creek culvert from Parramatta Rd to the open channel downstream of Moore St (WC-FM1). Widening of the open channel to convey additional flows. Upgrade Bridges at Piper Street and Brennan Street (WC-FM14)



Pipe size units in mm labelled blue

Peak Water Level Difference metres

- >0.5
- 0.2 to 0.5
- 0.1 to 0.2
- 0.01 to 0.1
- 0.01 to -0.1
- 0.1 to -0.2
- 0.2 to -0.5
- <-0.5

- Existing Pipe Network
- Proposed Pipe/Culvert Options
- Bridge Upgrades
- 20yr Flood Extent
- Cadastre - Lots

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Date
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Size
A3

WC_FM13 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_9

WC_FM13_20yr_WIDiff
Drawing Number

01
Revision

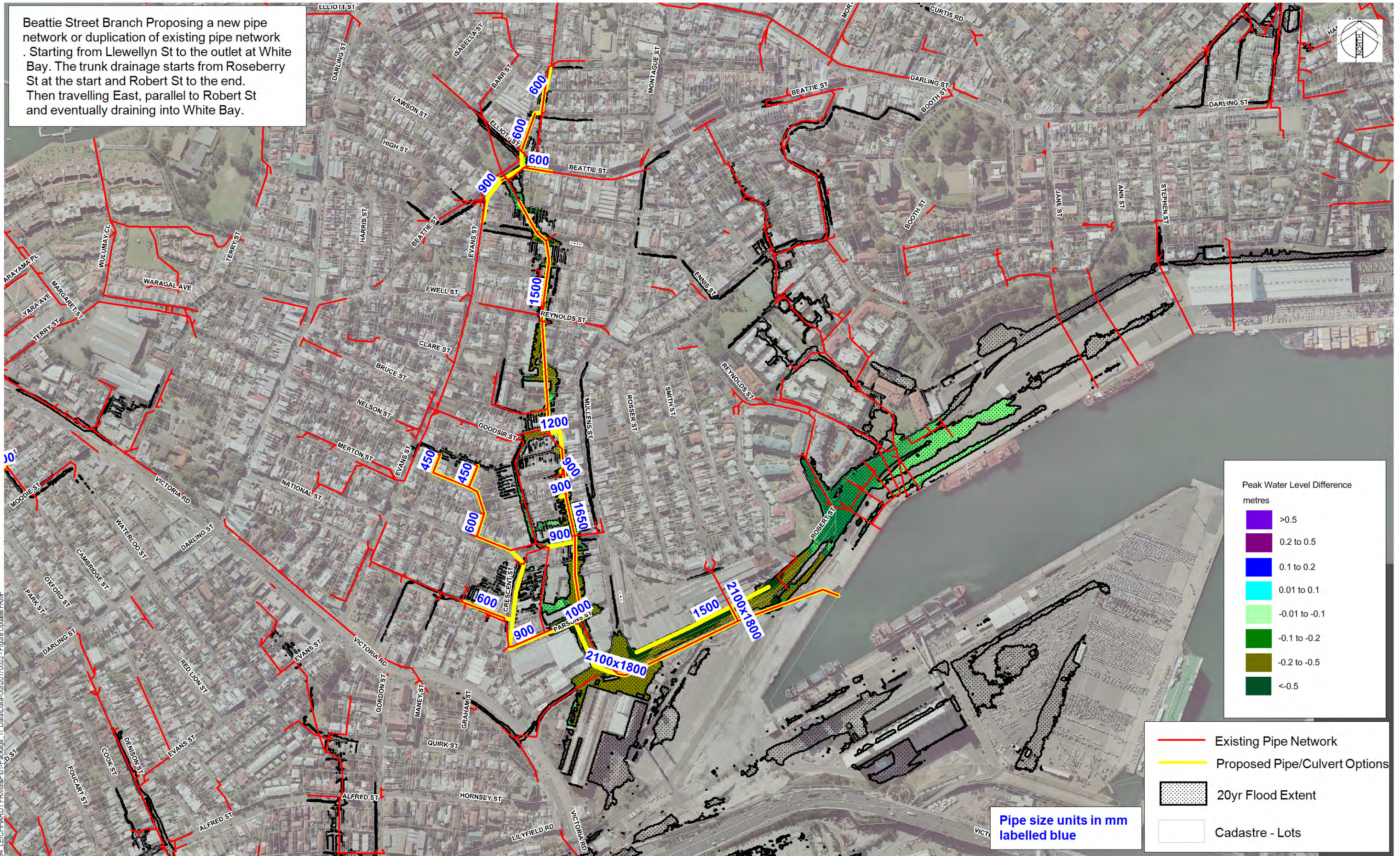
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Beattie Street Branch Proposing a new pipe network or duplication of existing pipe network . Starting from Llewellyn St to the outlet at White Bay. The trunk drainage starts from Roseberry St at the start and Robert St to the end. Then travelling East, parallel to Robert St and eventually draining into White Bay.



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WB_FM1 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_10

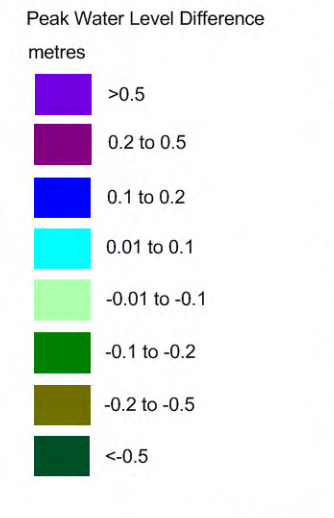
Date
05/2017

WB_FM1_20yr_WIDiff
Drawing Number

Size
A3

01
Revision

Additional pipes or duplication of existing network from Reuss Street to Hawthorne Canal via Elswick Street, Flood Street and Marion Street.



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue

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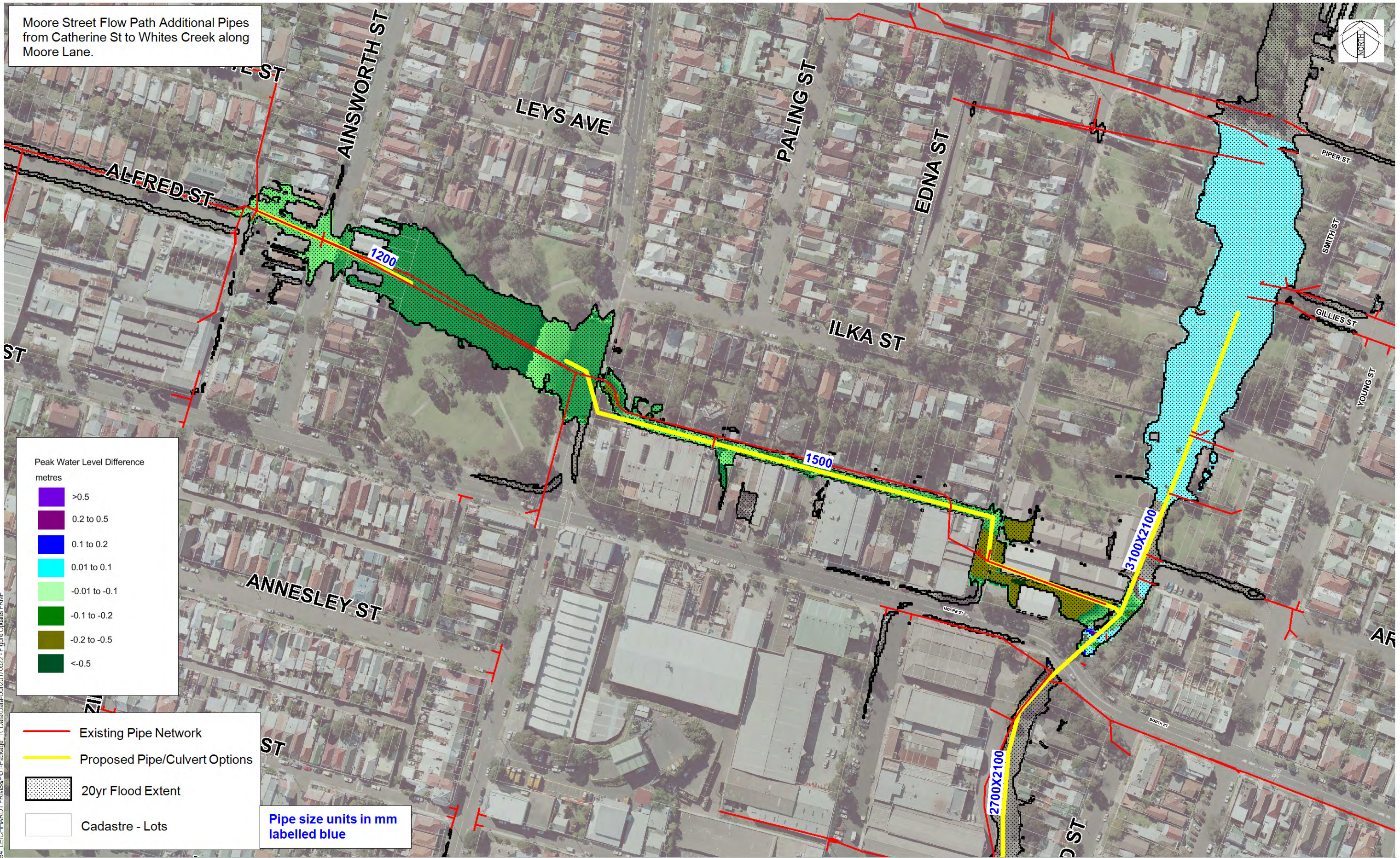
Size
A3

HC_FM2 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_11

HC_FM2_20yr_WIDiff
Drawing Number

01
Revision

Moore Street Flow Path Additional Pipes from Catherine St to Whites Creek along Moore Lane.



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WC_FM11 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_12

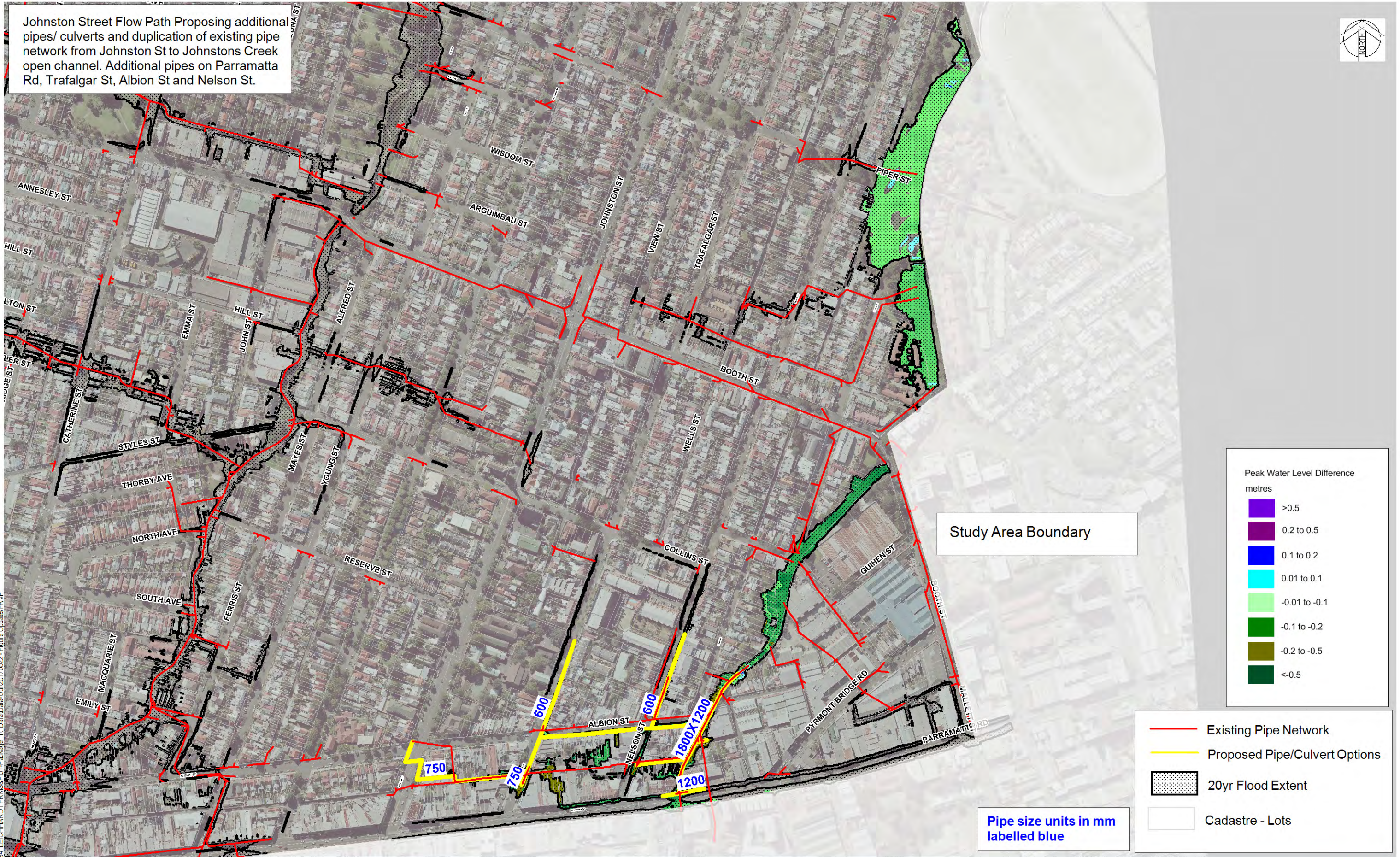
Date
05/2017

WC_FM11_20yr_WIDiff
Drawing Number

Size
A3

01
Revision

Johnston Street Flow Path Proposing additional pipes/ culverts and duplication of existing pipe network from Johnston St to Johnstons Creek open channel. Additional pipes on Parramatta Rd, Trafalgar St, Albion St and Nelson St.



Peak Water Level Difference metres

>0.5
0.2 to 0.5
0.1 to 0.2
0.01 to 0.1
-0.01 to -0.1
-0.1 to -0.2
-0.2 to -0.5
<-0.5

Study Area Boundary

Pipe size units in mm labelled blue

- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

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JC_FM1 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_13

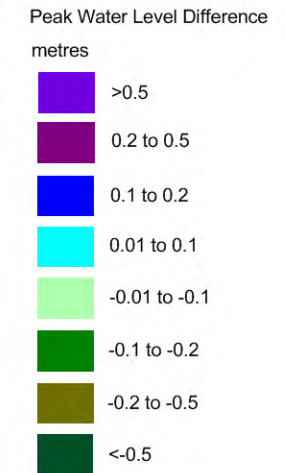
Date
05/2017

JC_FM1_20yr_WIDiff
Drawing Number

Size
A3

01
Revision

Wortley Street Branch Proposing additional pipes to be incorporated into the existing pipe network. Additions at Creek St, Wortley St, Foy St, Hyam St, Roseberry Place and eventually crossing Robert St to drain into White bay.



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

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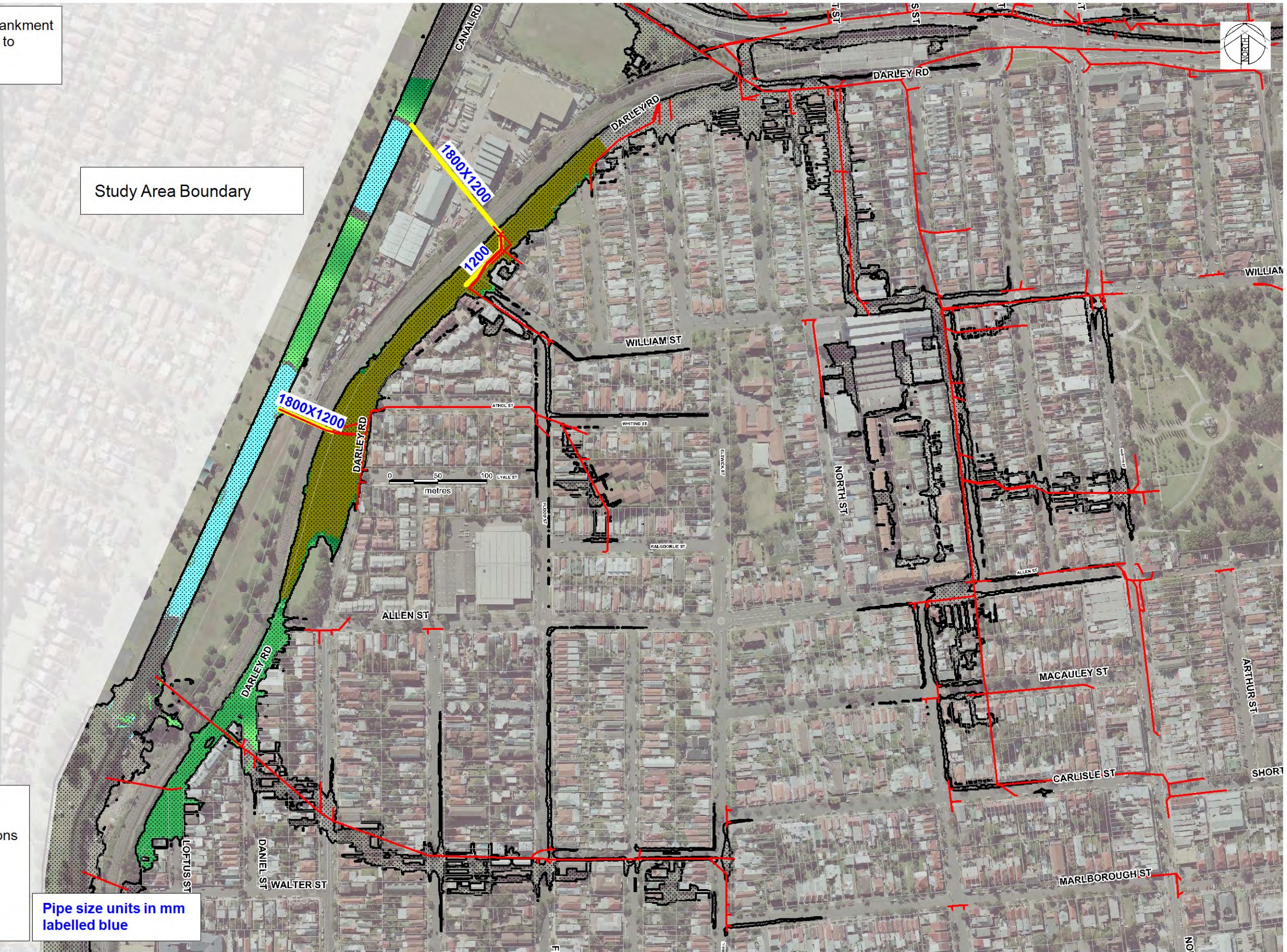
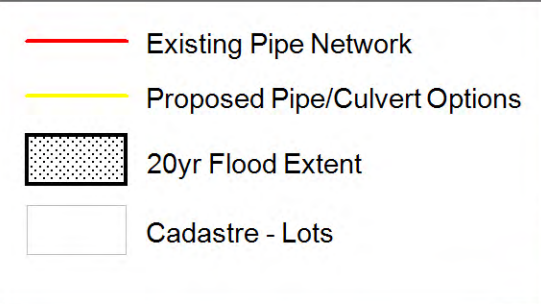
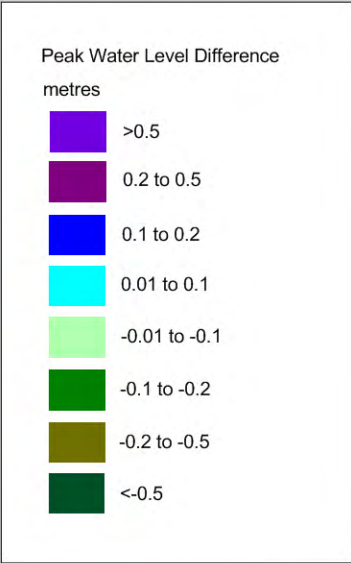
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LEICHHARDT FRMS&P
WB_FM2 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_14

Date
05/2017
WB_FM2_20yr_WIDiff
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Size
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Proposed culverts through the rail embankment to drain flood waters from Darley Road to Hawthorne Canal.

Study Area Boundary



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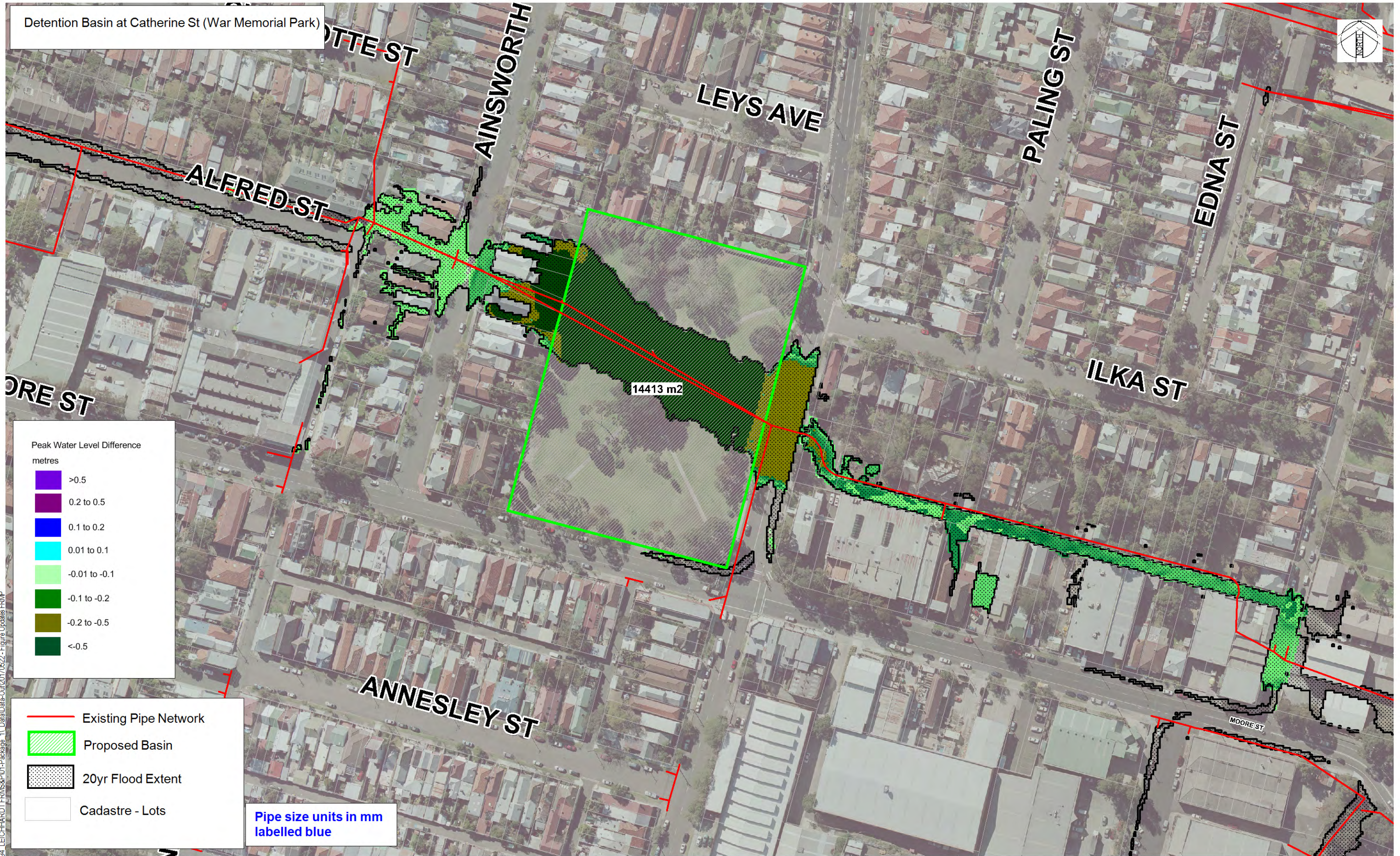
INNER WEST COUNCIL
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 HC_FM5 20YR ARI WL DIFF
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 FIG_4_15

Date
 05/2017
 HC_FM5_20yr_WIDiff
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Detention Basin at Catherine St (War Memorial Park)



Peak Water Level Difference metres

- >0.5
- 0.2 to 0.5
- 0.1 to 0.2
- 0.01 to 0.1
- 0.01 to -0.1
- 0.1 to -0.2
- 0.2 to -0.5
- <-0.5

- Existing Pipe Network
- Proposed Basin
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue

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WC_FM10 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_16

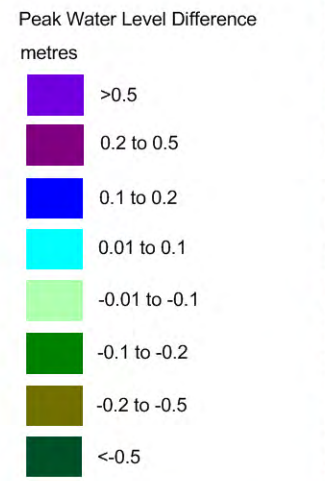
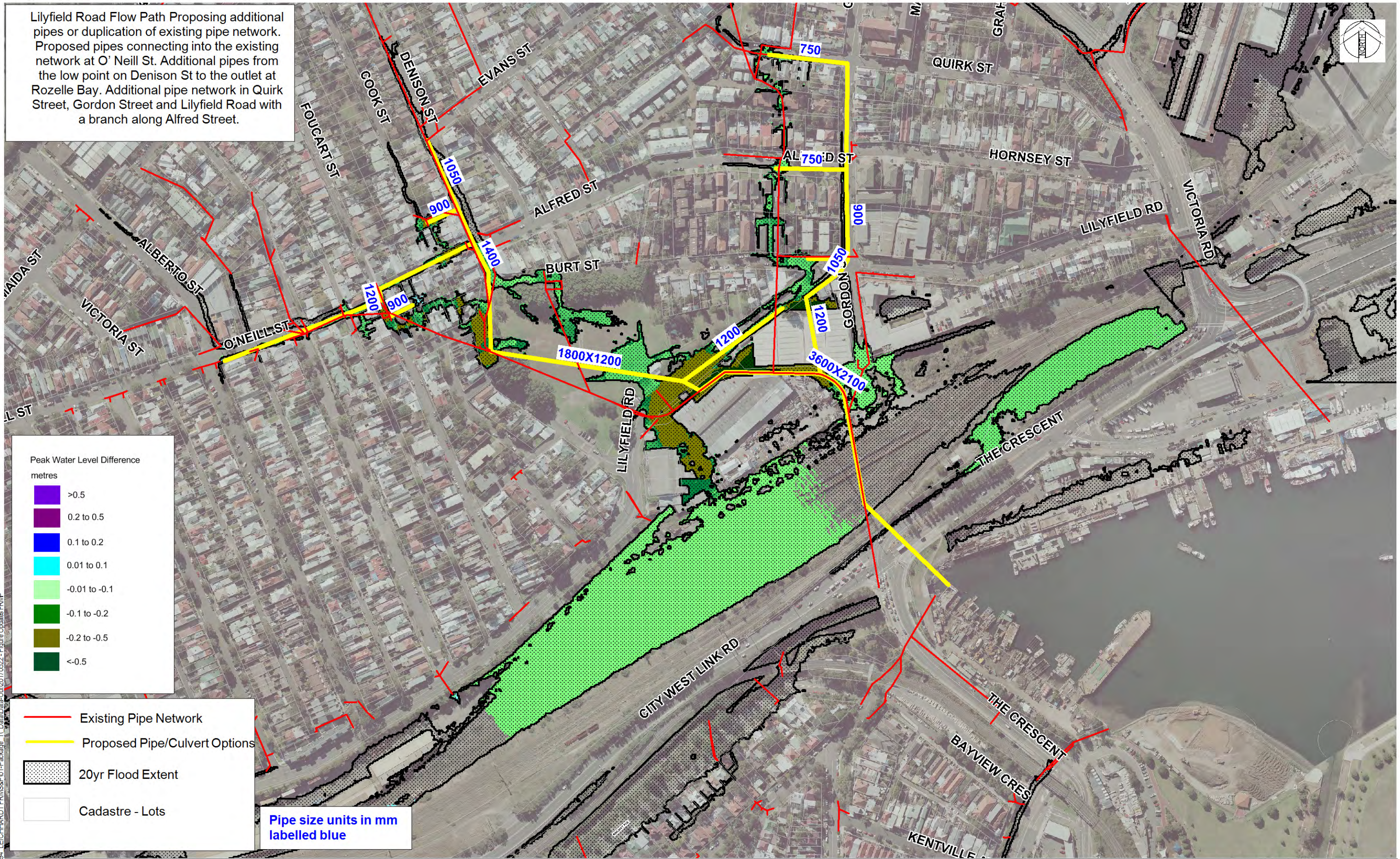
Date
05/2017

WC_FM10_20yr_WIDiff
Drawing Number

Size
A3

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Revision

Lilyfield Road Flow Path Proposing additional pipes or duplication of existing pipe network. Proposed pipes connecting into the existing network at O' Neill St. Additional pipes from the low point on Denison St to the outlet at Rozelle Bay. Additional pipe network in Quirk Street, Gordon Street and Lilyfield Road with a branch along Alfred Street.



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue

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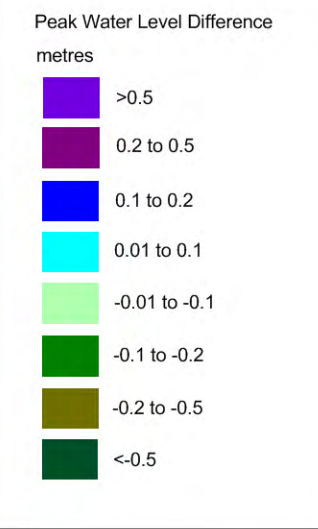
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INNER WEST COUNCIL
LEICHHARDT FRMS&P
RB_FM1 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_17

Date
05/2017
RB_FM1_20yr_WIDiff
Drawing Number

Size
A3
01
Revision

Pymont Bridge Road Flow Path Additional pipes or duplication of existing network from Parramatta Rd to Johnstons Creek via Pymont Bridge Rd.



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Study Area Boundary

Pipe size units in mm labelled blue

DATE PLOTTED: May 2017
FILE: N:\Projects\693\FY13\NA\693\3094 LEICHHARDT FRMS&P\01 - Package - 11 Data\Date-0\20170522 - Figure Updates\FRMP



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JC_FM2 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_18

Date
05/2017

JC_FM2_20yr_WIDiff
Drawing Number

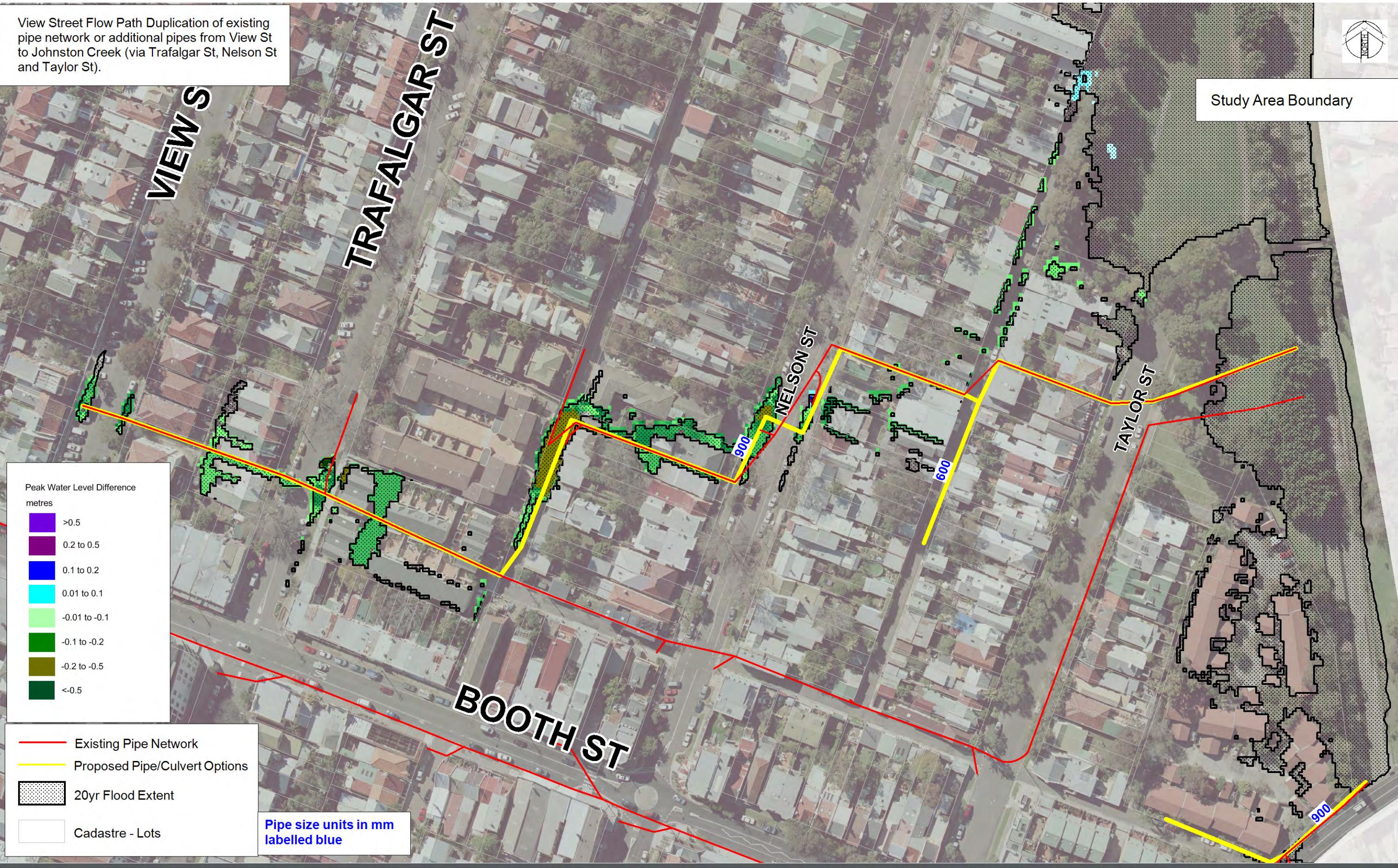
Size
A3

01
Revision

View Street Flow Path Duplication of existing pipe network or additional pipes from View St to Johnston Creek (via Trafalgar St, Nelson St and Taylor St).



Study Area Boundary



Peak Water Level Difference metres

- >0.5
- 0.2 to 0.5
- 0.1 to 0.2
- 0.01 to 0.1
- 0.01 to -0.1
- 0.1 to -0.2
- 0.2 to -0.5
- <-0.5

- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm
labelled blue

DATE PLOTTED: May 2017
FILE: N:\Projects\693\FY13\NA\693\3094_LEICHHARDT_FRMS&P\Package_11_Data\MapData-0\20170522-Figure Updates FRMP



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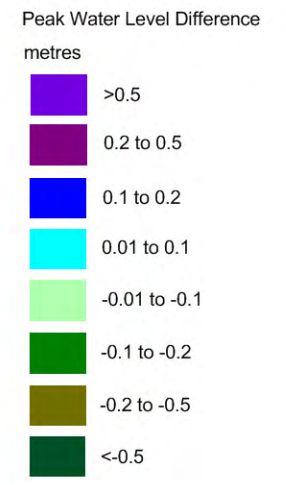
Size
A3

JC_FM3 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_19

JC_FM3_20yr_WIDiff
Drawing Number

01
Revision

Annandale Street Flow Path Duplication of existing pipe network or additional pipes from Annandale St to Whites Creek culvert.



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm
labelled blue

Study Area Boundary

DATE PLOTTED: May 2017
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Date
05/2017

Size
A3

WC_FM8 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_20

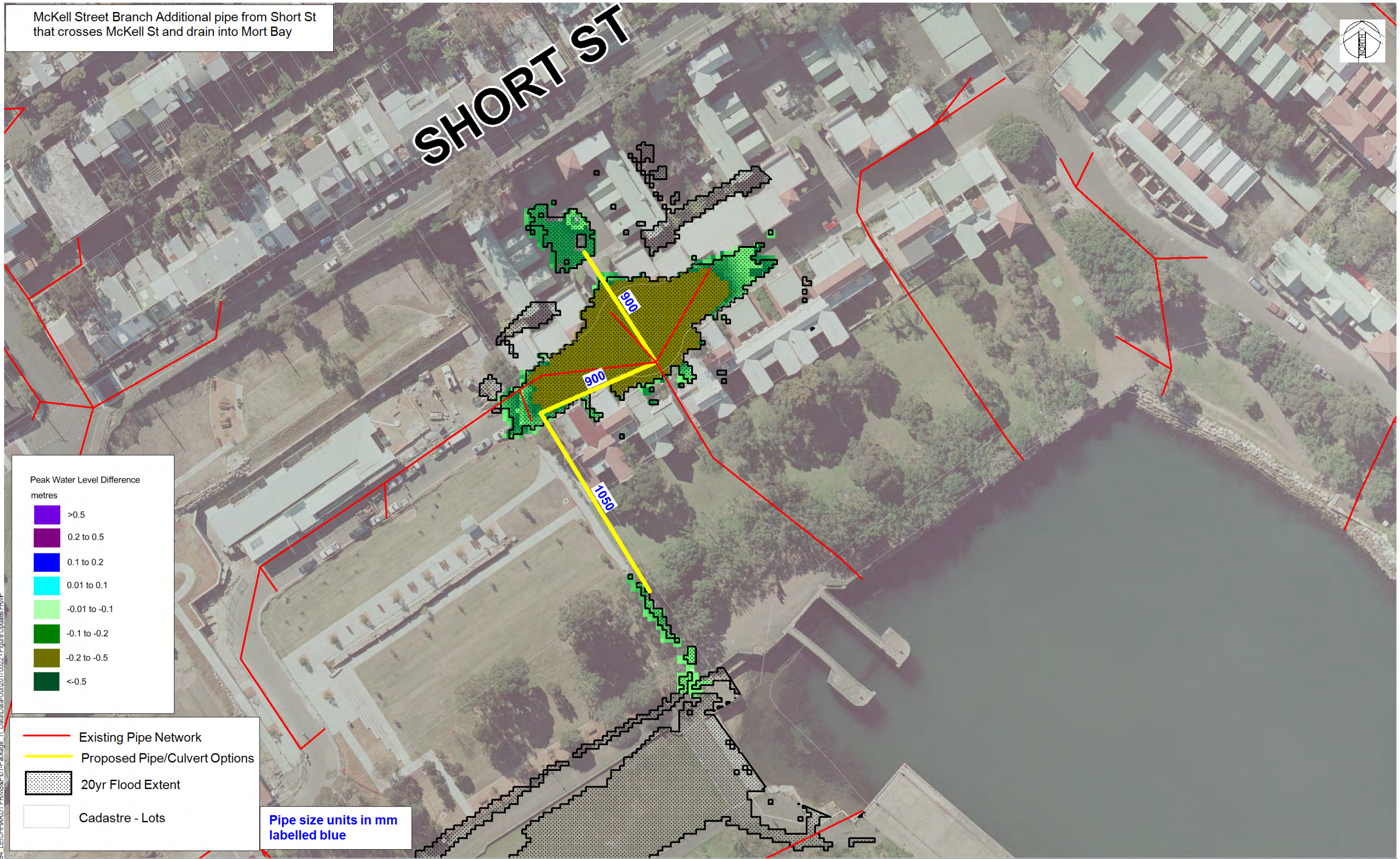
WC_FM8_20yr_WIDiff
Drawing Number

03
Revision

McKell Street Branch Additional pipe from Short St that crosses McKell St and drain into Mort Bay



SHORT ST



Peak Water Level Difference metres

- >0.5
- 0.2 to 0.5
- 0.1 to 0.2
- 0.01 to 0.1
- 0.01 to -0.1
- 0.1 to -0.2
- 0.2 to -0.5
- <-0.5

- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue

DATE PLOTTED: May 2017 FILE: N:\Projects\693\FY13\NA\693\3094_LEICHHARDT_FRMS&P\01-Package_11_Data\Date-0\20170522-Figure Updates FRMP



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Date
05/2017

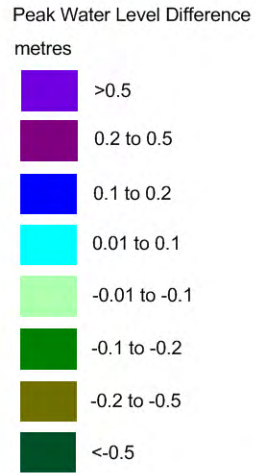
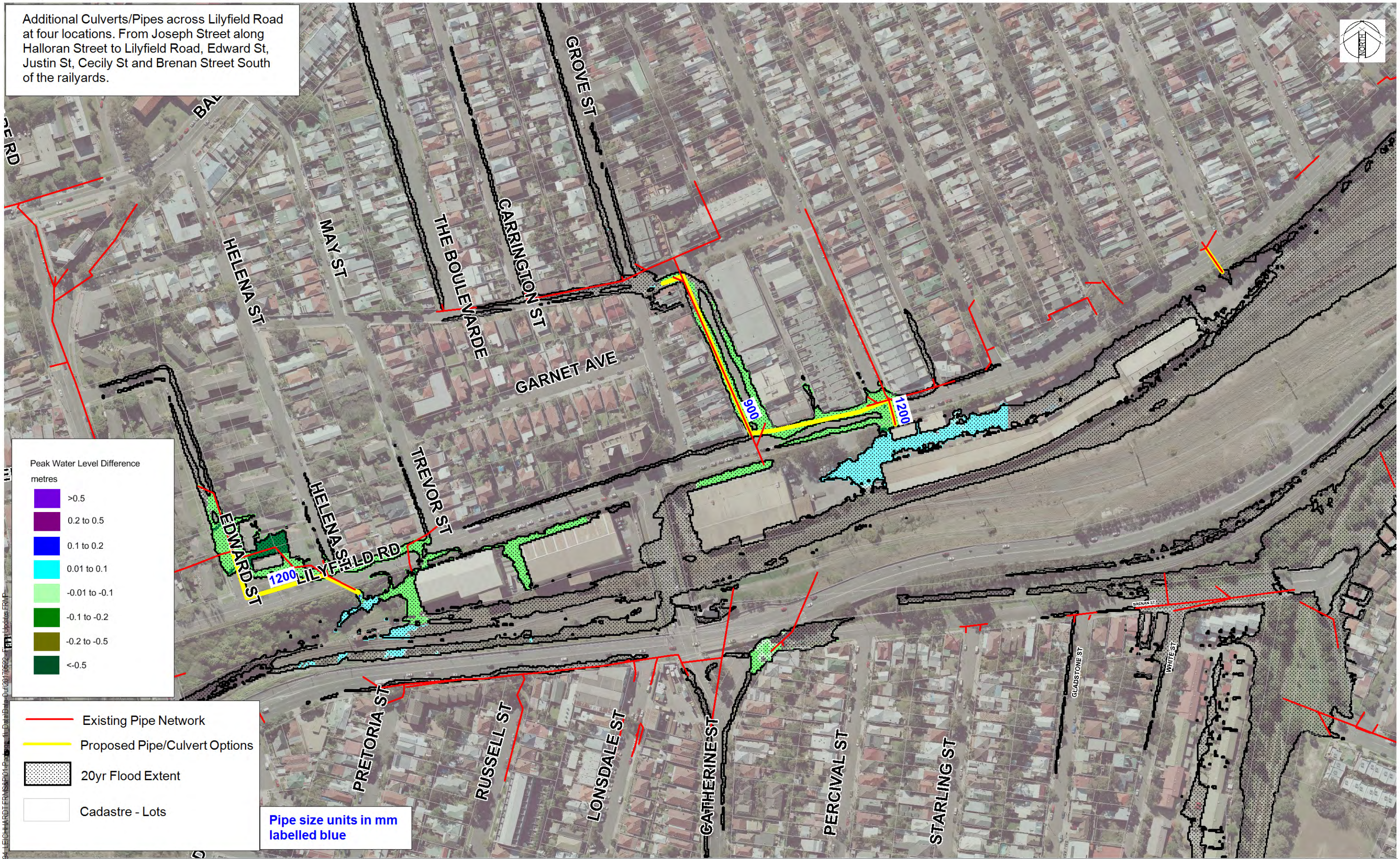
Size
A3

MB_FM5 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_21

MB_FM5_20yr_WIDiff
Drawing Number

01
Revision

Additional Culverts/Pipes across Lilyfield Road at four locations. From Joseph Street along Halloran Street to Lilyfield Road, Edward St, Justin St, Cecily St and Brenan Street South of the railyards.



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Pipe size units in mm labelled blue



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RB_FM2 20YR ARI WL DIFF
 MITIGATION LESS EXISTING
 FM_4_22

Date
 05/2017

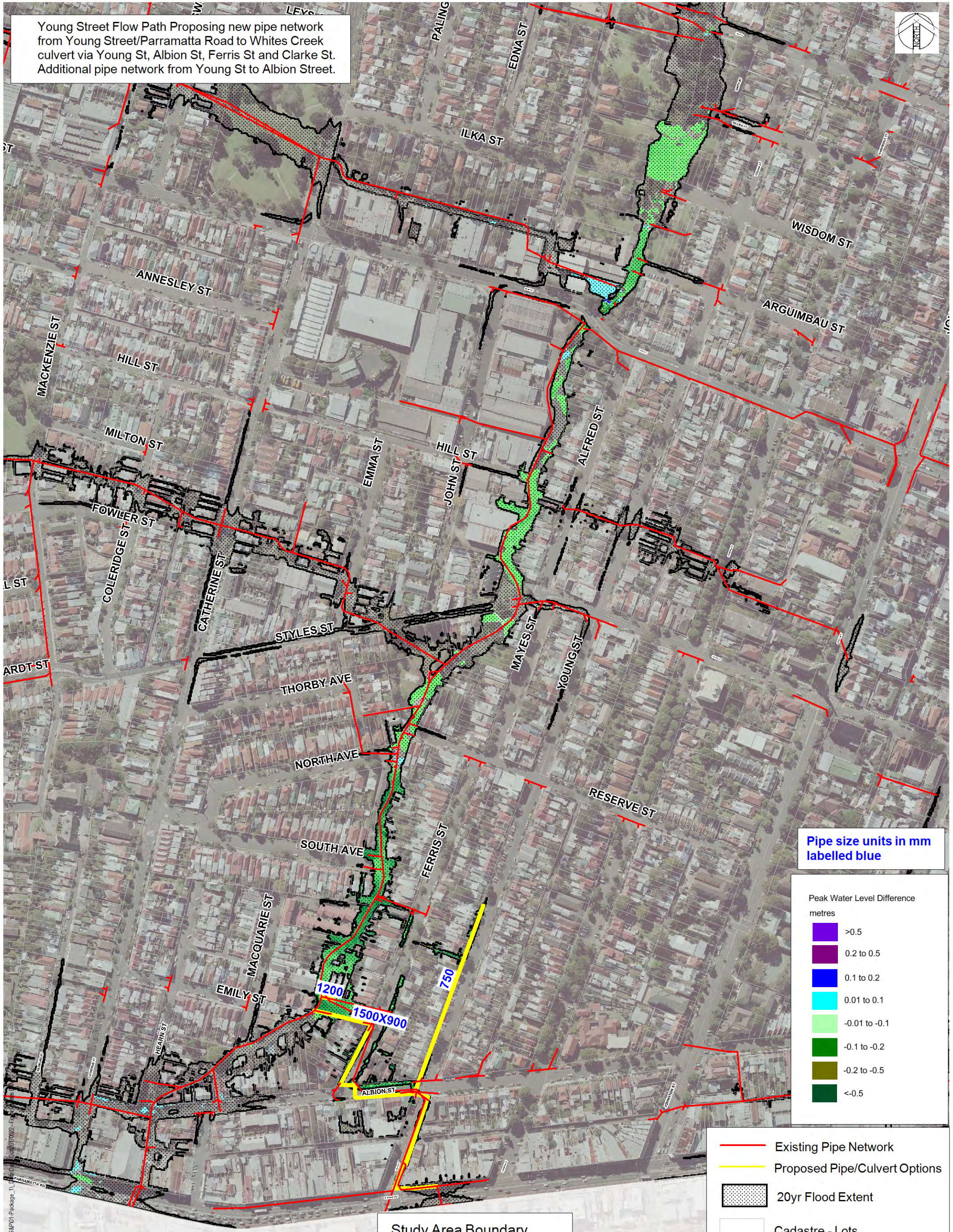
RB_FM2_20yr_WIDiff
 Drawing Number

Size
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01
 Revision

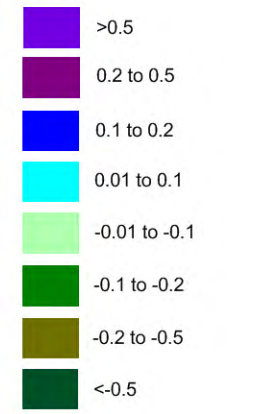
DATE PLOTTED: May 2017
 FILE: N:\Projects\6691\FY13\NA-6691\6691_Leichhardt_FRMS&P_01_Pipe.mxd

Young Street Flow Path Proposing new pipe network from Young Street/Parramatta Road to Whites Creek culvert via Young St, Albion St, Ferris St and Clarke St. Additional pipe network from Young St to Albion Street.



Pipe size units in mm labelled blue

Peak Water Level Difference metres



- Existing Pipe Network
- Proposed Pipe/Culvert Options
- 20yr Flood Extent
- Cadastre - Lots

Study Area Boundary

DATE PLOTTED: May 2017 FILE: N:\Projects\4591\3\NA45913094_LEICH...



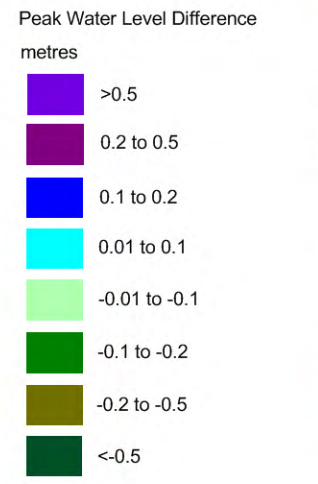
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INNER WEST COUNCIL
LEICHHARDT FRMS&P
WC_FM2 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_23

Date
05/2017
WC_FM2_20yr_WIDiff
Drawing Number

Size
A3
03
Revision

Rose Street Flow Path - Additional pipes from Rose St/Johnston St to Federal Park via View St and Trafalgar St. Proposed Easement downstream of The Crescent to drain flood waters from the low point of the Rd.



- Existing Pipe Network
 - Proposed Pipe/Culvert Options
 - 20yr Flood Extent
 - Cadastre - Lots
- Pipe size units in mm labelled blue

DATE PLOTTED: May 2017
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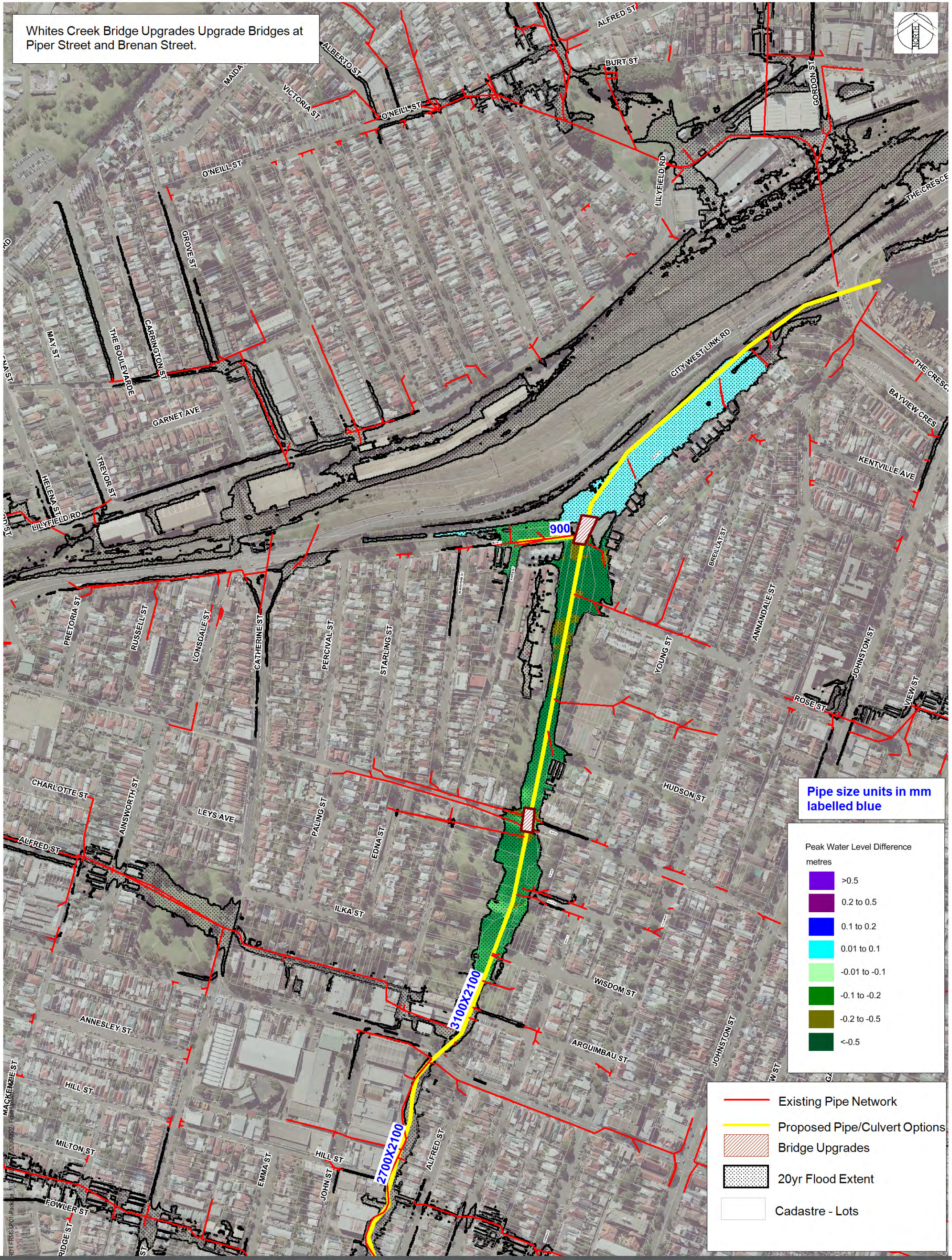
Size
A3

JC_FM4 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_24

JC_FM4_20yr_WIDiff
Drawing Number

01
Revision

Whites Creek Bridge Upgrades Upgrade Bridges at Piper Street and Brenan Street.



Pipe size units in mm
labelled blue

Peak Water Level Difference
metres

>0.5
0.2 to 0.5
0.1 to 0.2
0.01 to 0.1
-0.01 to -0.1
-0.1 to -0.2
-0.2 to -0.5
<-0.5

- Existing Pipe Network
- Proposed Pipe/Culvert Options
- Bridge Upgrades
- 20yr Flood Extent
- Cadastre - Lots

DATE PLOTTED: May 2017
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WC_FM14 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_25

Date
05/2017

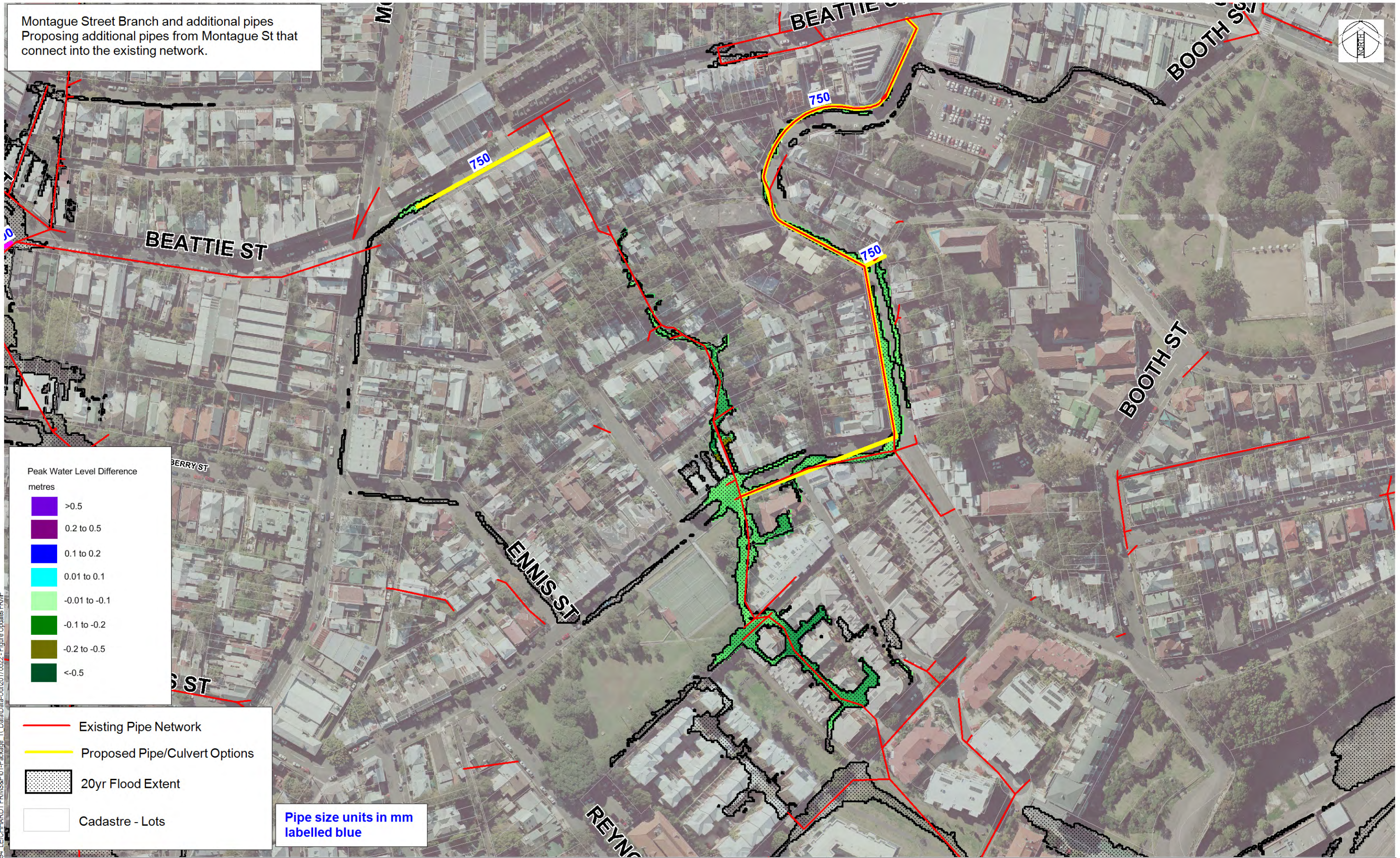
WC_FM14_20yr_WIDiff
Drawing Number

Size
A3

01
Revision

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Montague Street Branch and additional pipes
Proposing additional pipes from Montague St that
connect into the existing network.



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WB_FM4 20YR ARI WL DIFF
MITIGATION LESS EXISTING
FIG_4_26

Date
05/2017

WB_FM4_20yr_WIDiff
Drawing Number

Size
A3

01
Revision