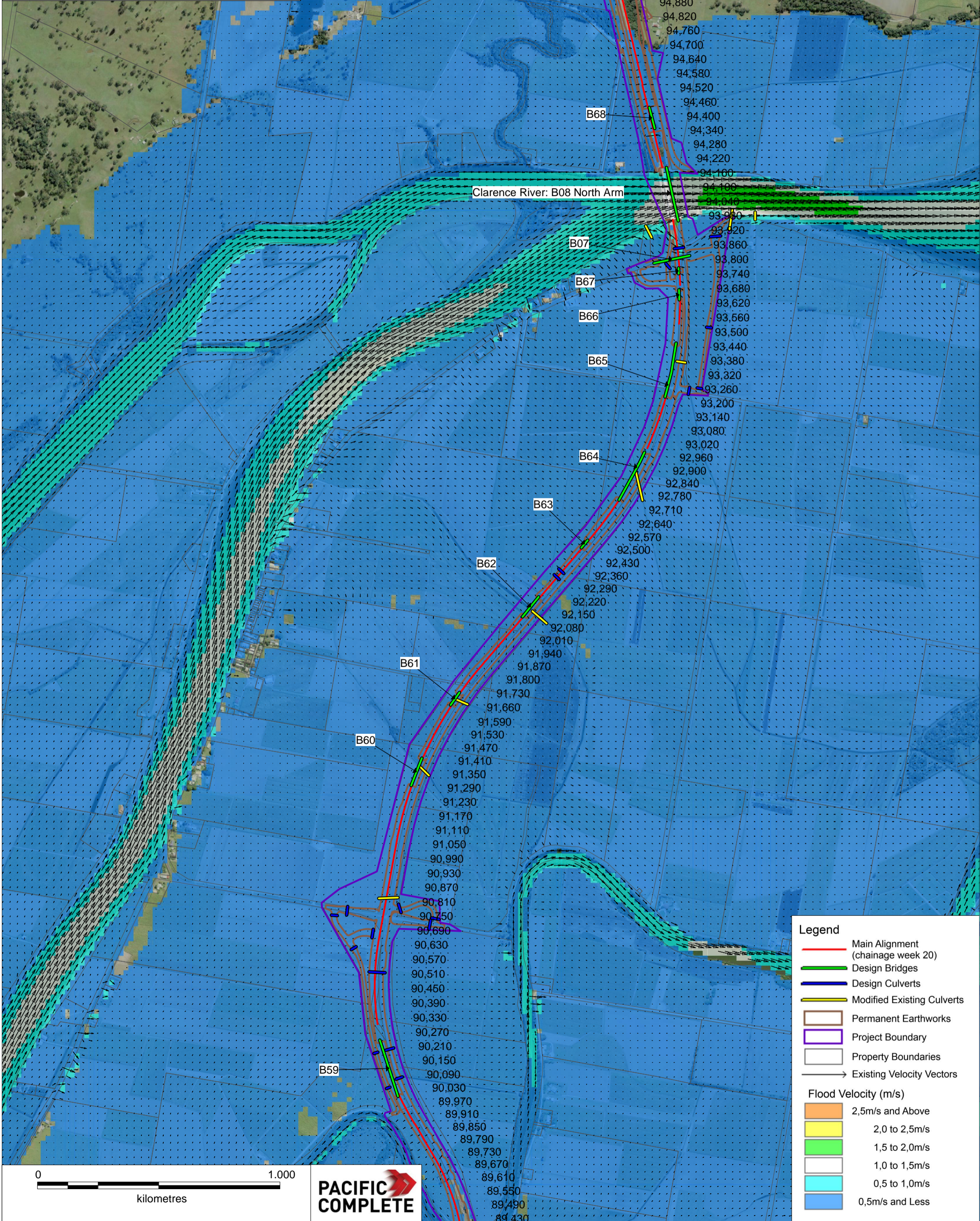


**Clarence River Regional Model
Existing Flood Velocity**

Map ID: B028
Revision: A - DRAFT
Portion/Section: B/5.2
Existing Case: PC_MOD_CLA_Exg_Q100_E07a
Event: 100 year 72hrs
Model Name: Clarence River
Modellers: Pacific Complete
Stage: Substantial Detailed Design
Date: 22/9/2016



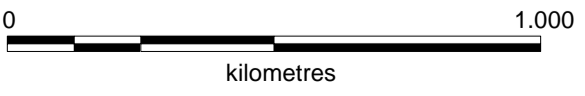
Clarence River: B08 North Arm

Legend

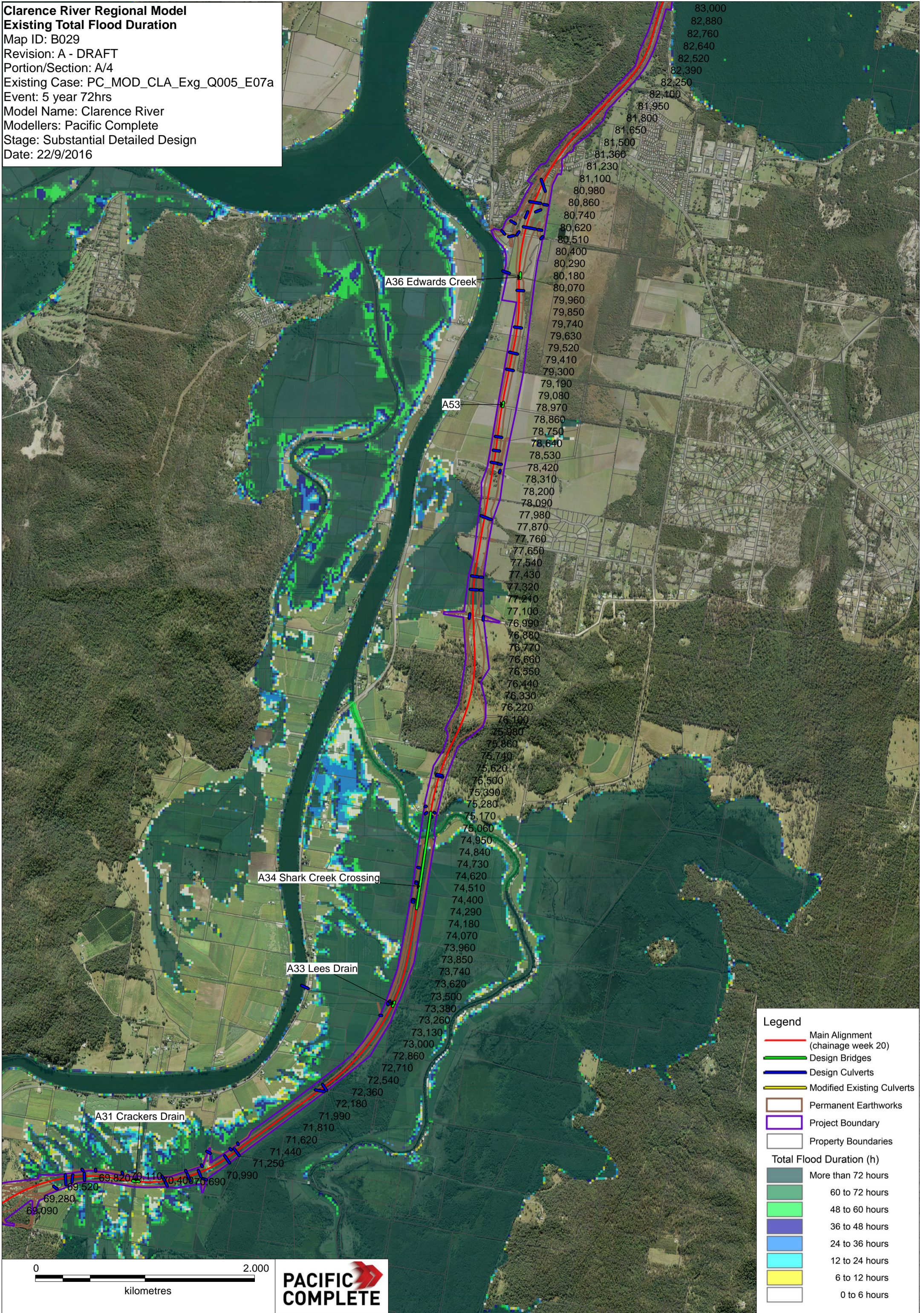
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries
- Existing Velocity Vectors

Flood Velocity (m/s)

- 2,5m/s and Above
- 2,0 to 2,5m/s
- 1,5 to 2,0m/s
- 1,0 to 1,5m/s
- 0,5 to 1,0m/s
- 0,5m/s and Less



Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B029
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exg_Q005_E07a
 Event: 5 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



A36 Edwards Creek

A53

A34 Shark Creek Crossing

A33 Lees Drain

A31 Crackers Drain

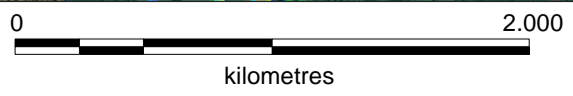
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- 82,880
- 82,760
- 82,640
- 82,520
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- 69,090

Legend

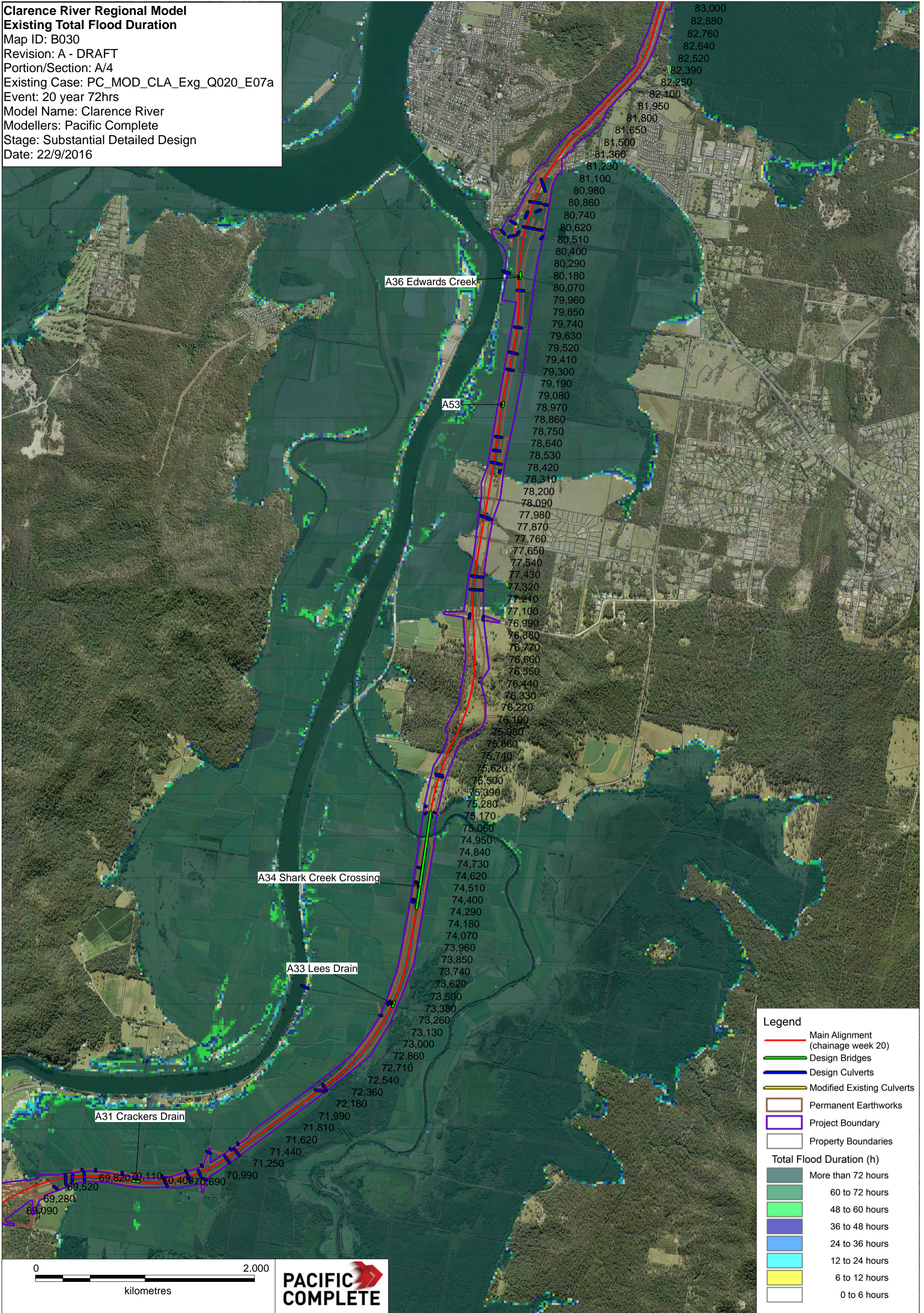
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours



Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B030
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exg_Q020_E07a
 Event: 20 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016

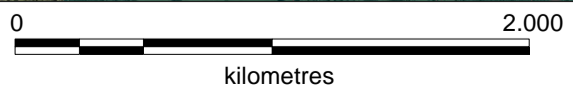


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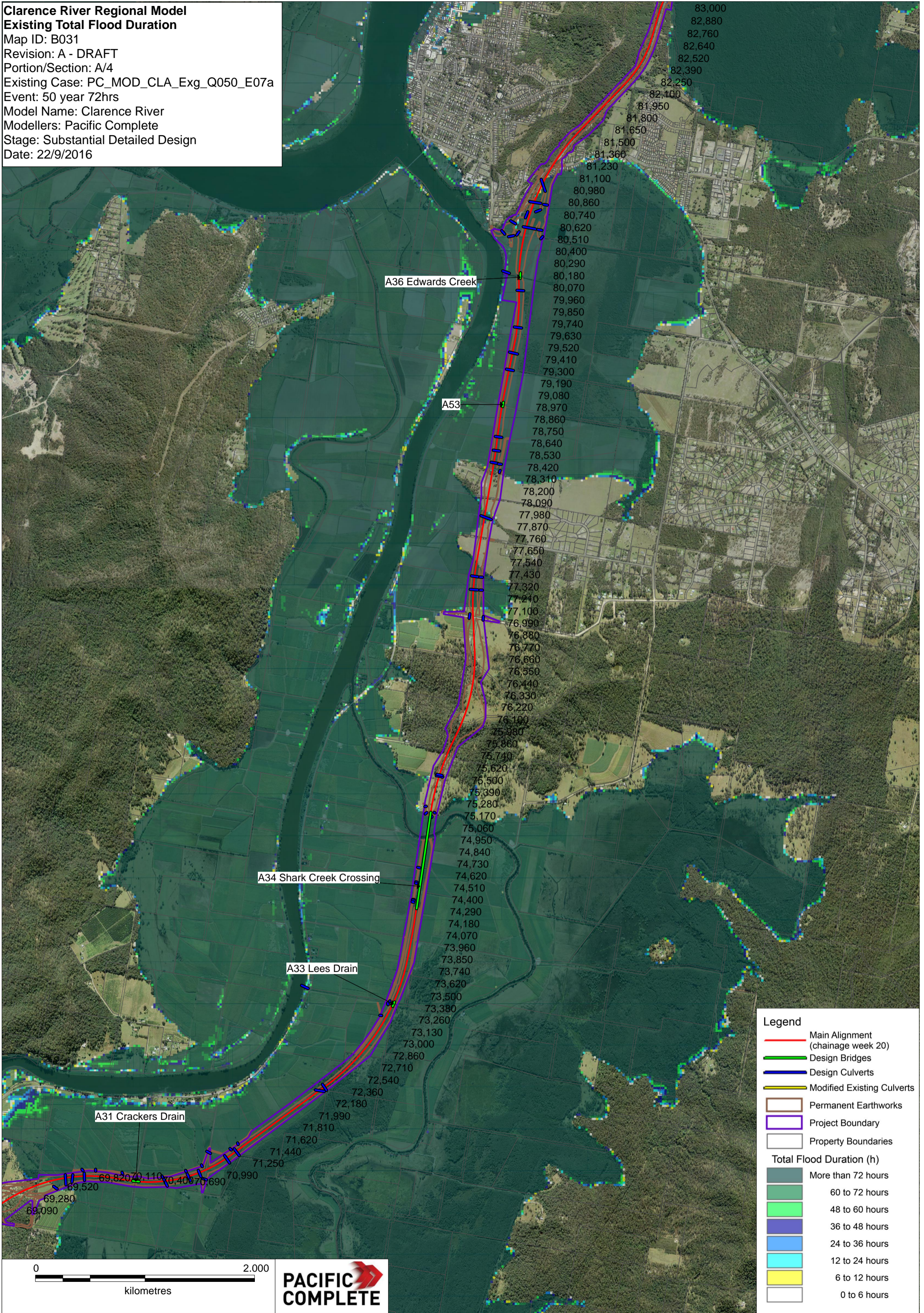
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours



Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B031
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exg_Q050_E07a
 Event: 50 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



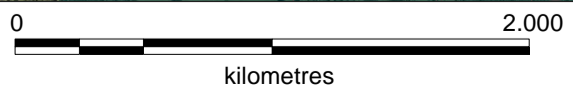
A36 Edwards Creek

A53

A34 Shark Creek Crossing

A33 Lees Drain

A31 Crackers Drain



Legend

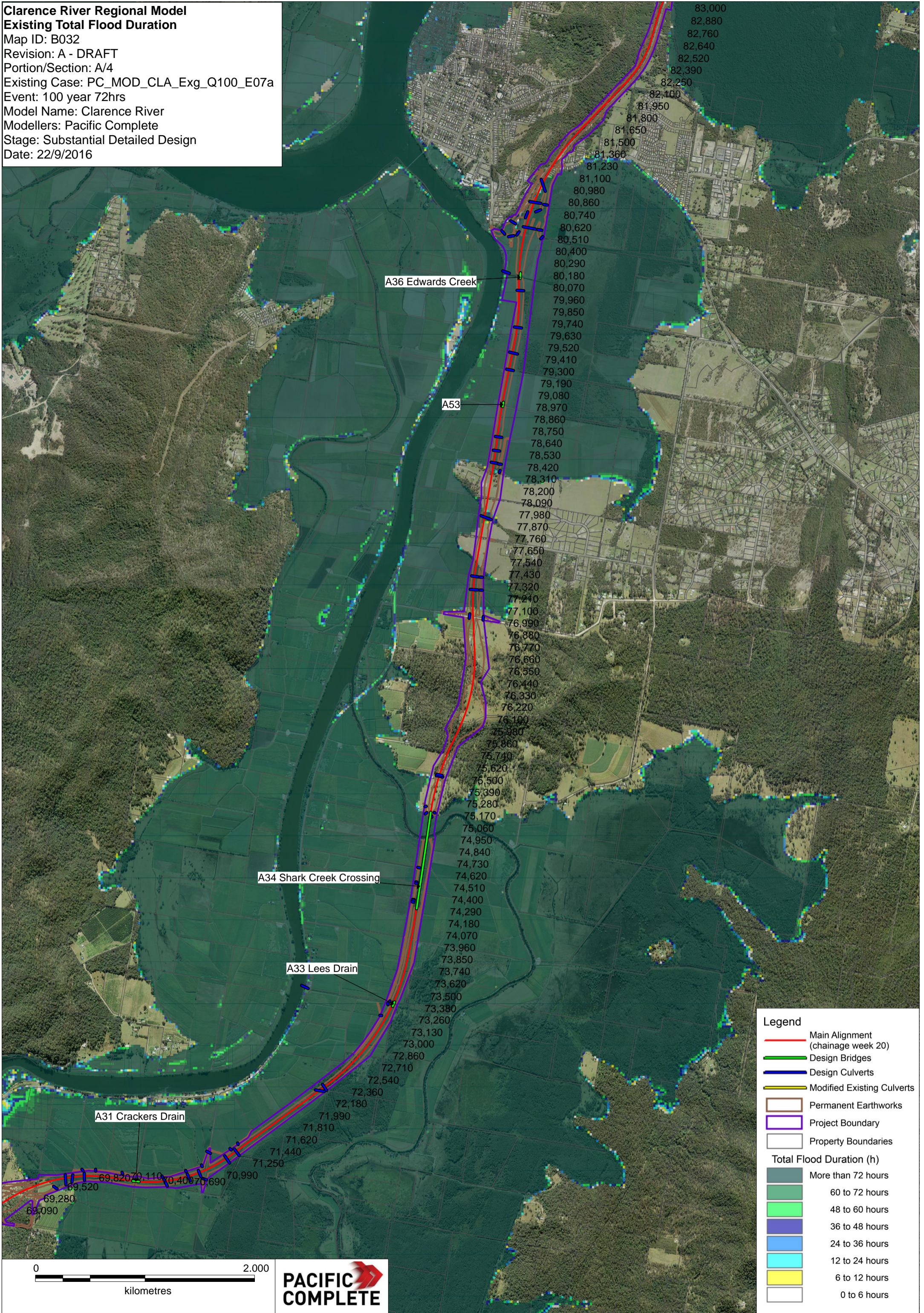
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours

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Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B032
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exg_Q100_E07a
 Event: 100 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



A36 Edwards Creek

A53

A34 Shark Creek Crossing

A33 Lees Drain

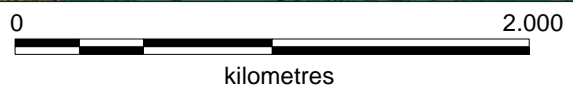
A31 Crackers Drain

Legend

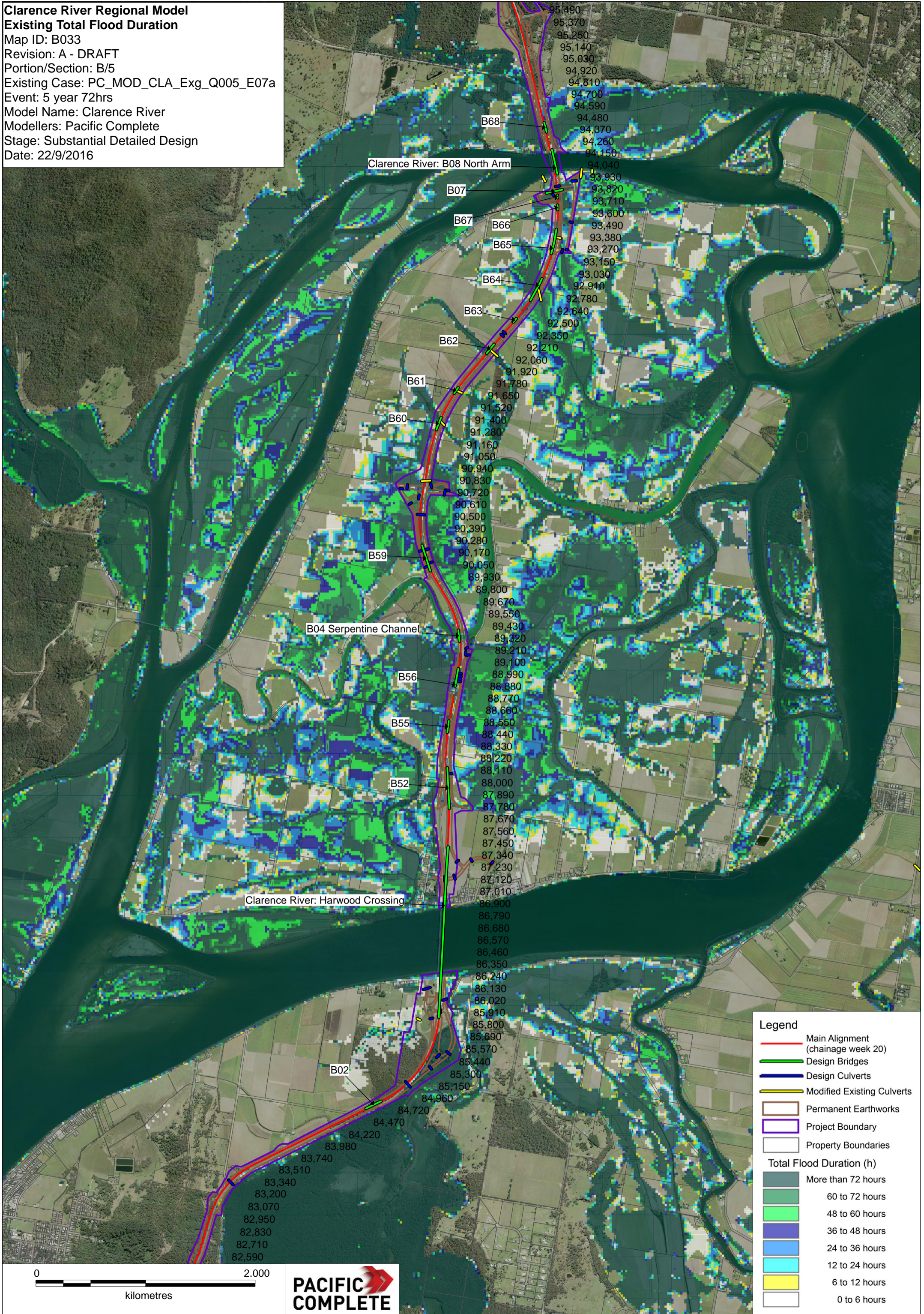
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours



Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B033
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q005_E07a
 Event: 5 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016

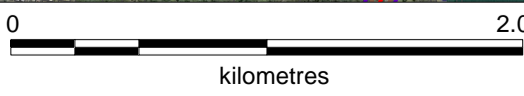


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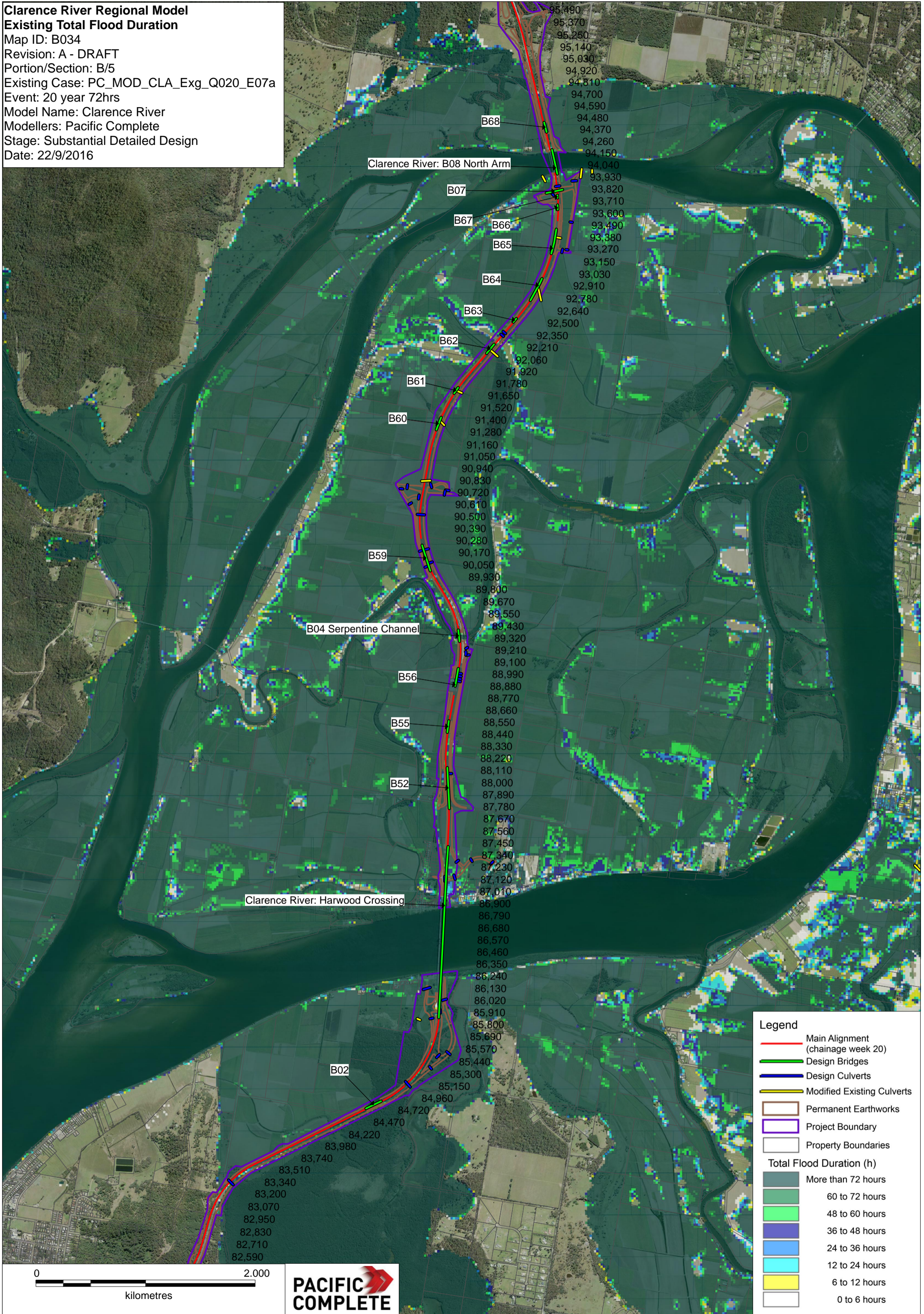
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours



Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B034
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q020_E07a
 Event: 20 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016

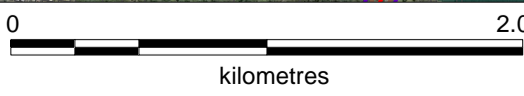


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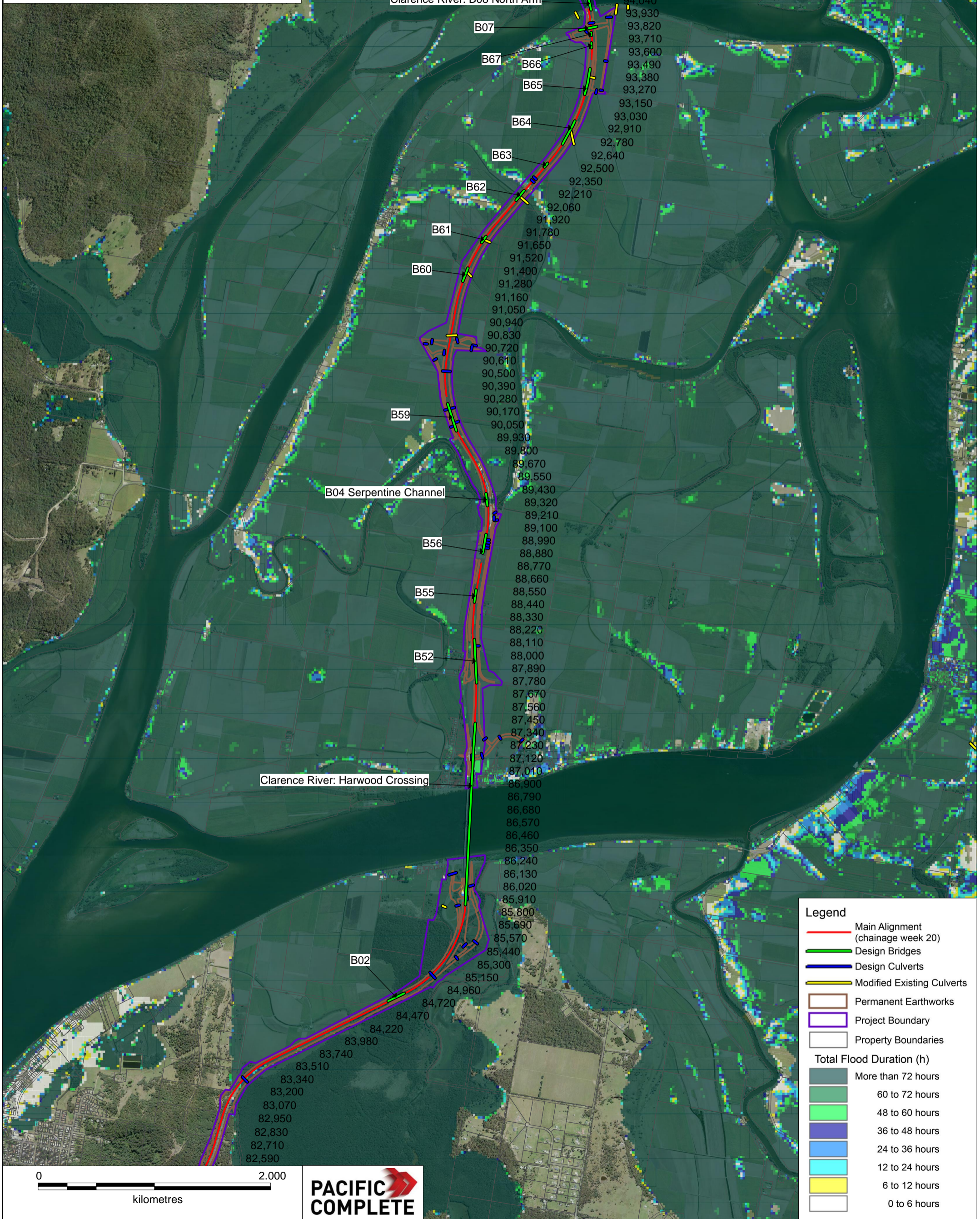
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours



Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B035
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q050_E07a
 Event: 50 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



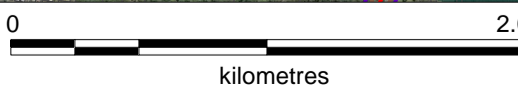
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Legend

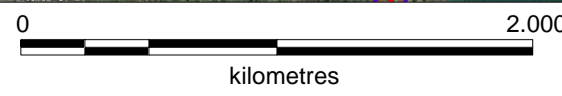
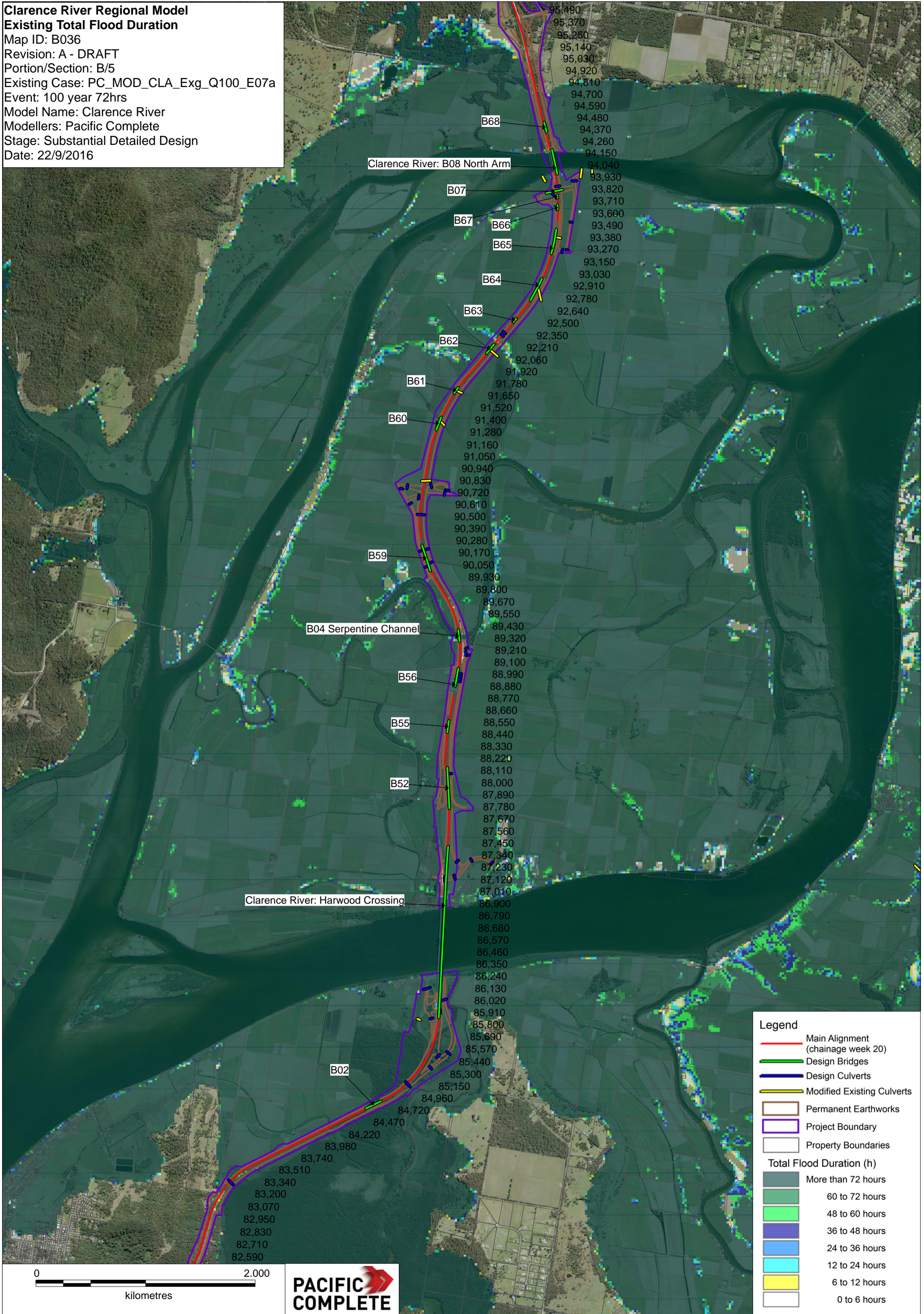
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours



Clarence River Regional Model
Existing Total Flood Duration
 Map ID: B036
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q100_E07a
 Event: 100 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



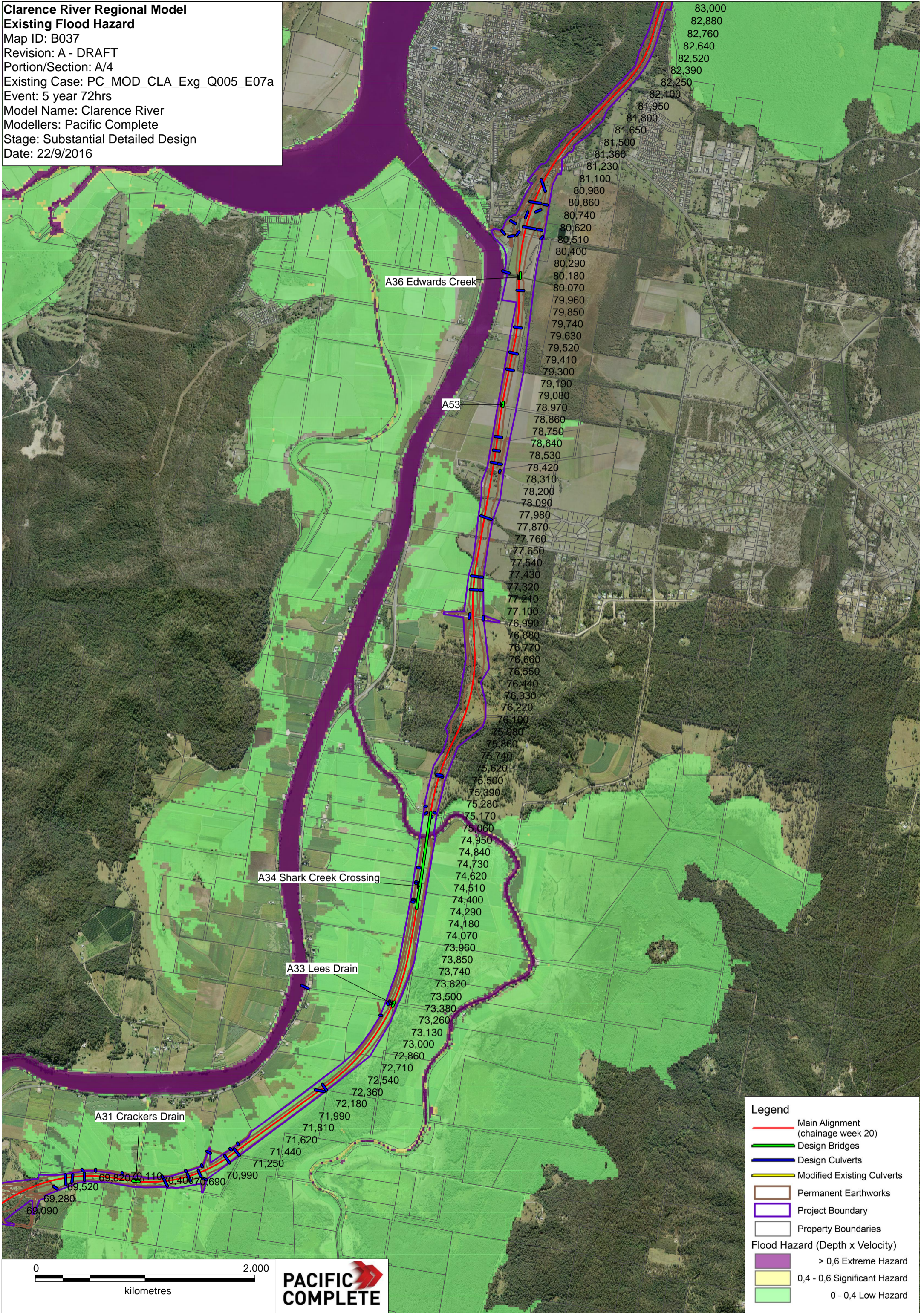
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Total Flood Duration (h)

- More than 72 hours
- 60 to 72 hours
- 48 to 60 hours
- 36 to 48 hours
- 24 to 36 hours
- 12 to 24 hours
- 6 to 12 hours
- 0 to 6 hours

Clarence River Regional Model
Existing Flood Hazard
 Map ID: B037
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exg_Q005_E07a
 Event: 5 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016

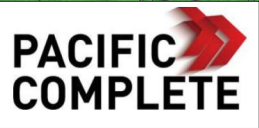


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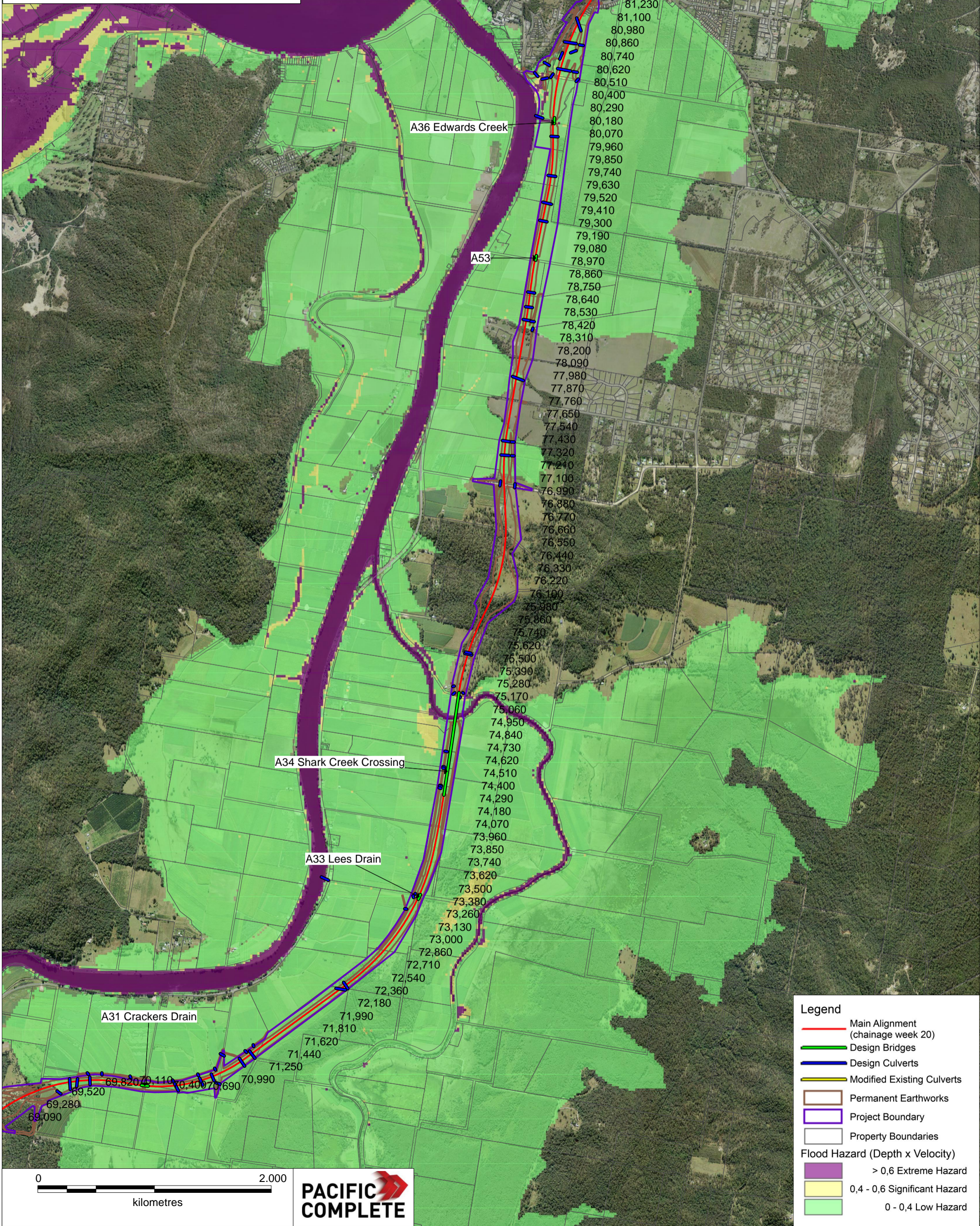
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard



Clarence River Regional Model
Existing Flood Hazard
 Map ID: B038
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exg_Q020_E07a
 Event: 20 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



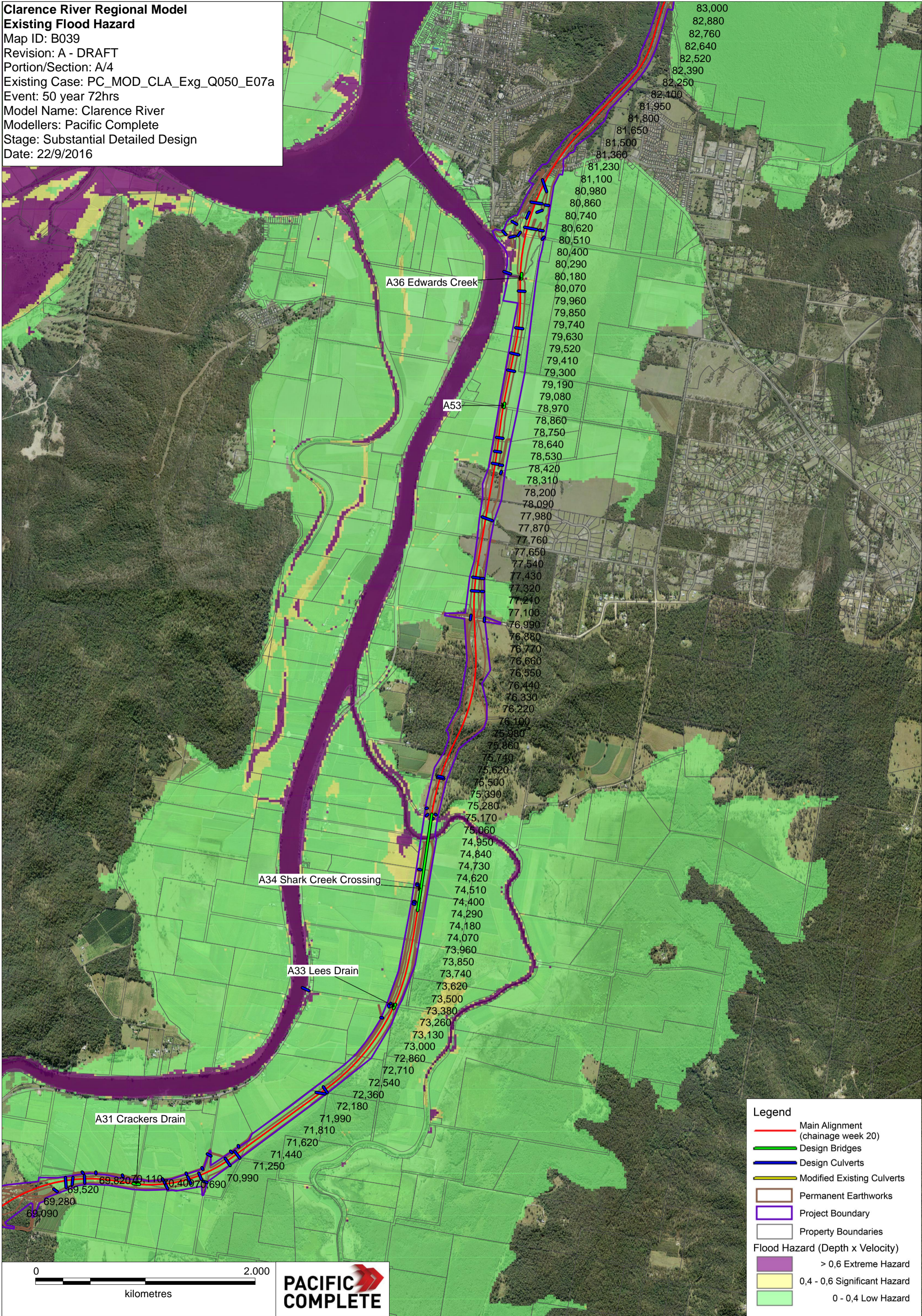
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

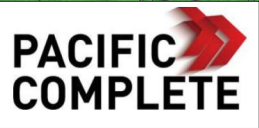
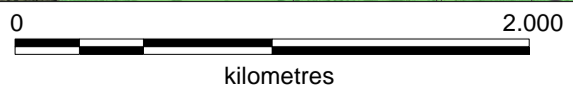
Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

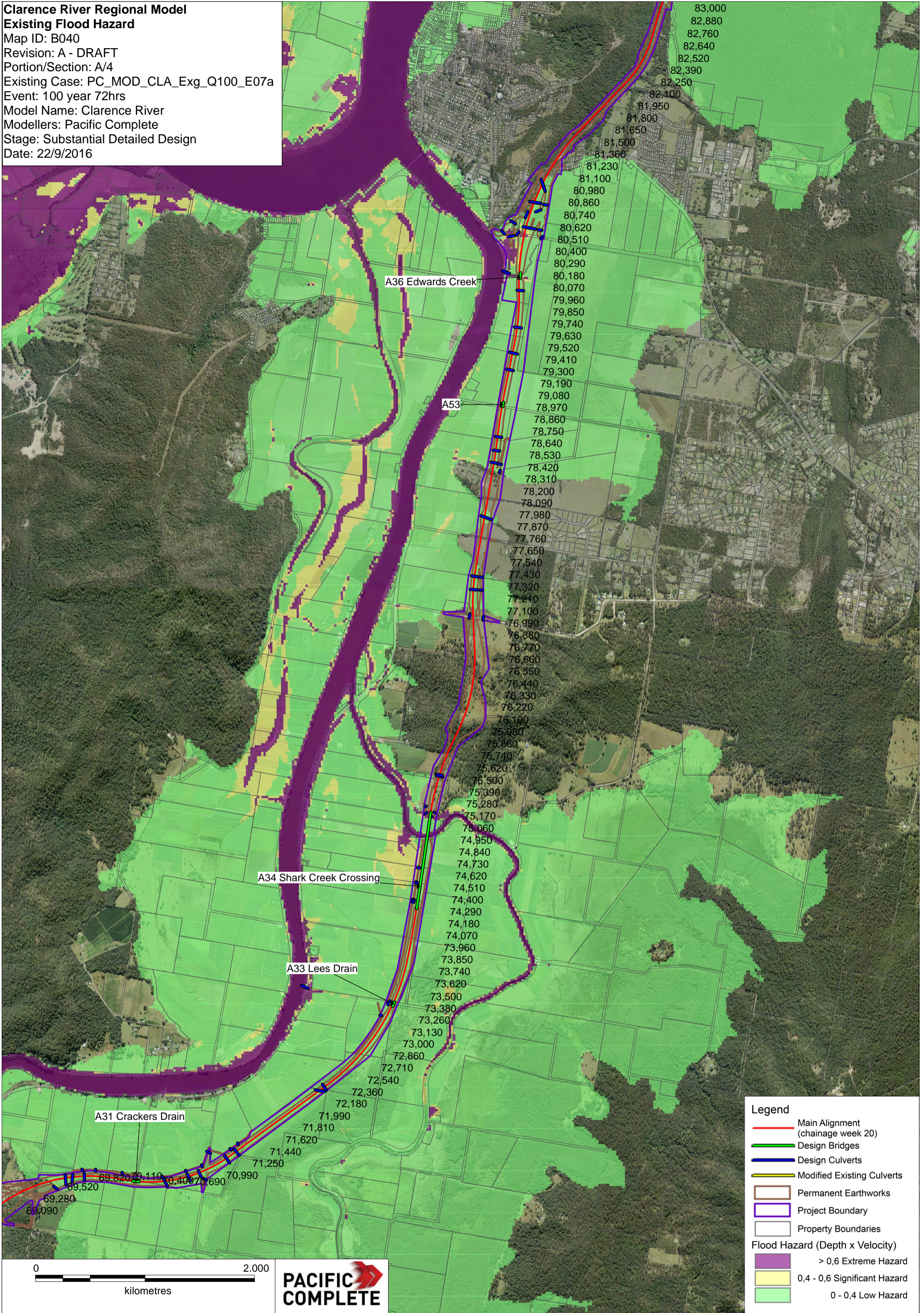
Clarence River Regional Model
Existing Flood Hazard
 Map ID: B039
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exp_Q050_E07a
 Event: 50 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



Legend	
	Main Alignment (chainage week 20)
	Design Bridges
	Design Culverts
	Modified Existing Culverts
	Permanent Earthworks
	Project Boundary
	Property Boundaries
Flood Hazard (Depth x Velocity)	
	> 0,6 Extreme Hazard
	0,4 - 0,6 Significant Hazard
	0 - 0,4 Low Hazard



Clarence River Regional Model
Existing Flood Hazard
 Map ID: B040
 Revision: A - DRAFT
 Portion/Section: A/4
 Existing Case: PC_MOD_CLA_Exg_Q100_E07a
 Event: 100 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



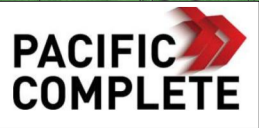
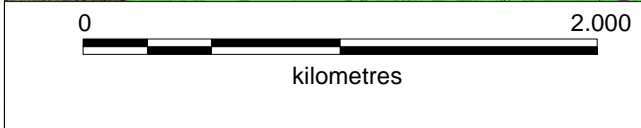
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Legend

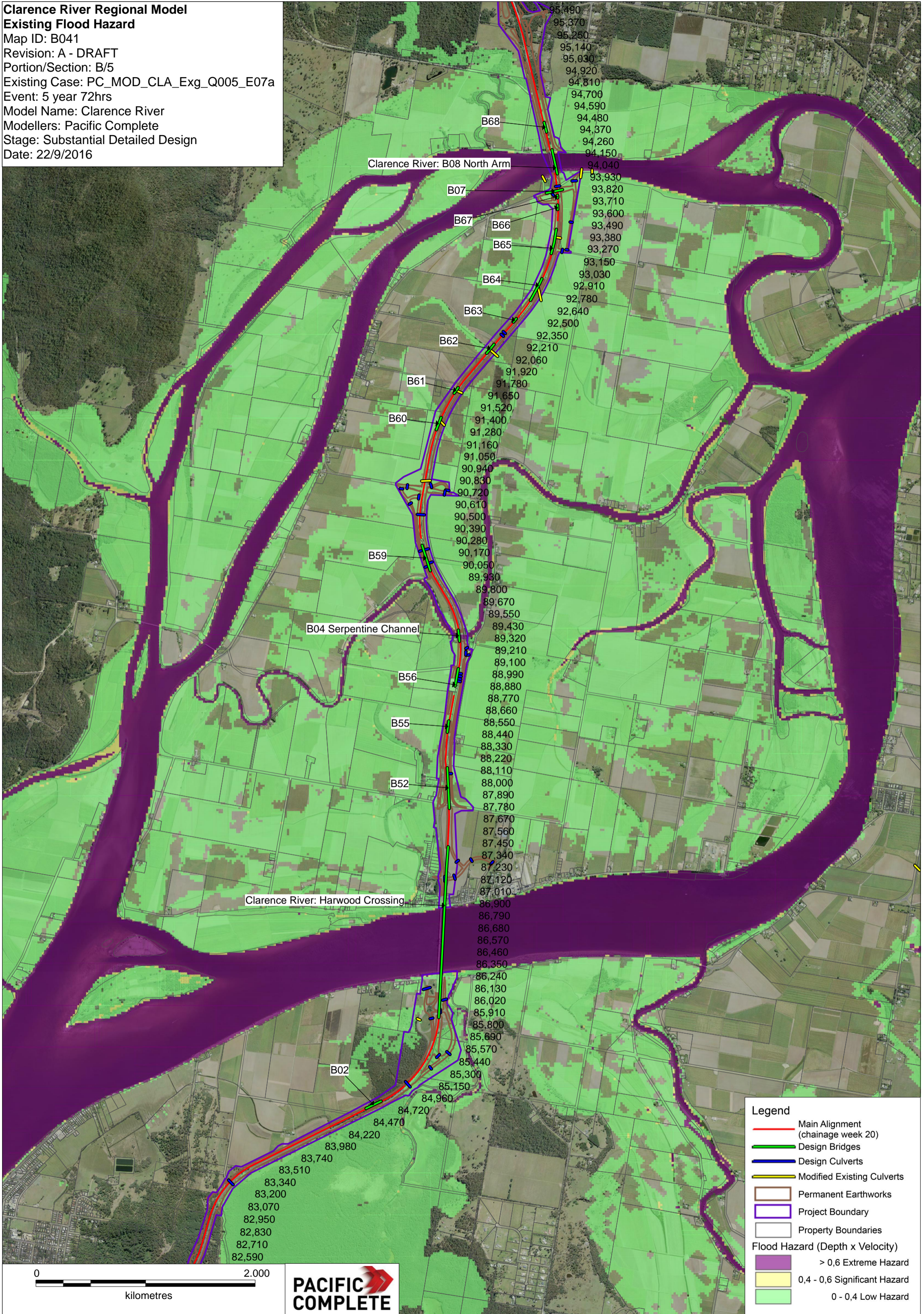
- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard



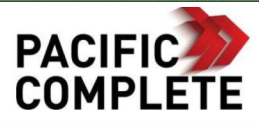
Clarence River Regional Model
Existing Flood Hazard
 Map ID: B041
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q005_E07a
 Event: 5 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



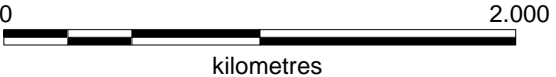
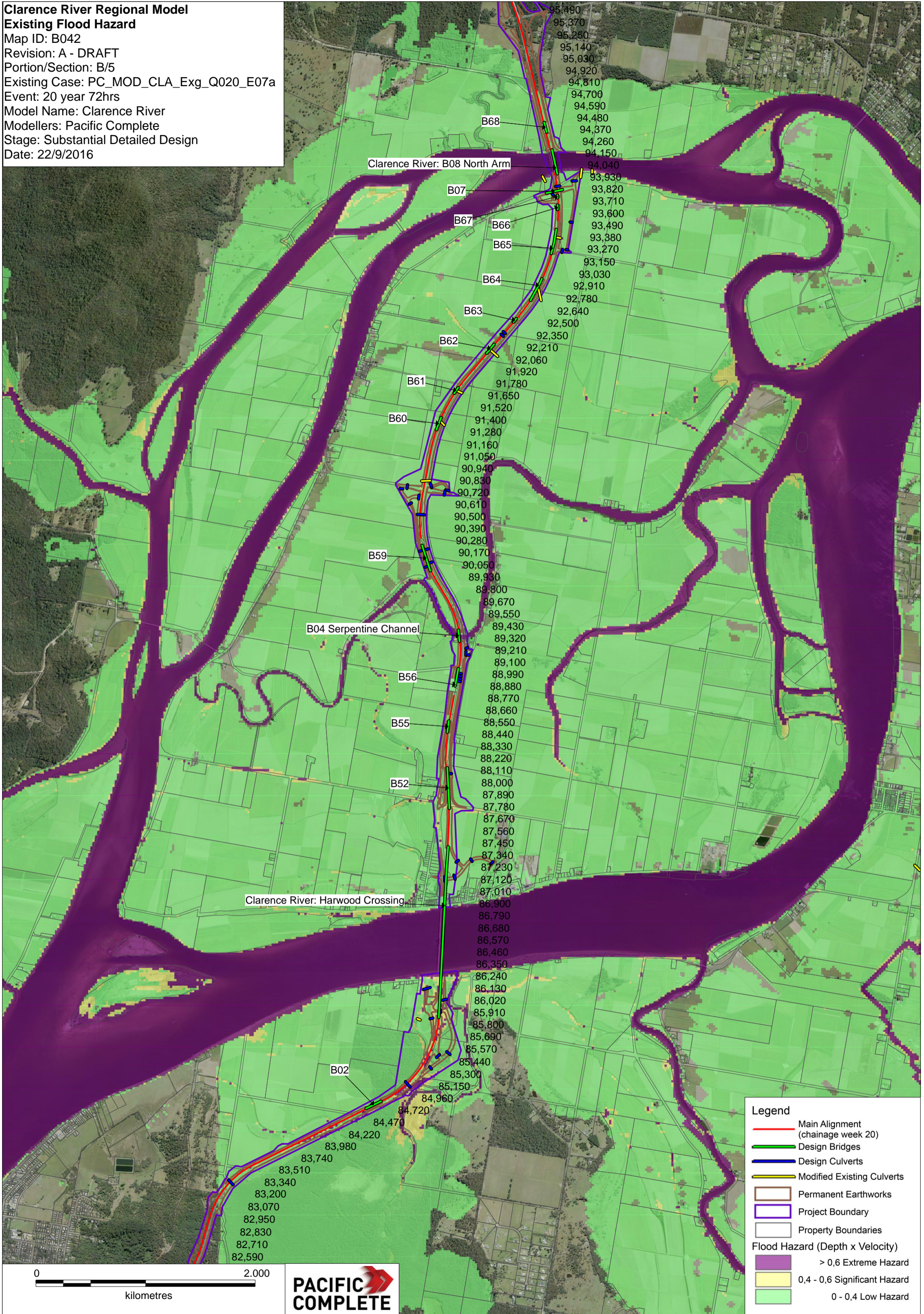
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 88,330
 88,220
 88,110
 88,000
 87,890
 87,780
 87,670
 87,560
 87,450
 87,340
 87,230
 87,120
 87,010
 86,900
 86,790
 86,680
 86,570
 86,460
 86,350
 86,240
 86,130
 86,020
 85,910
 85,800
 85,690
 85,570
 85,440
 85,300
 85,150
 84,960
 84,720
 84,470
 84,220
 83,980
 83,740
 83,510
 83,340
 83,200
 83,070
 82,950
 82,830
 82,710
 82,590

- Legend**
- Main Alignment (chainage week 20)
 - Design Bridges
 - Design Culverts
 - Modified Existing Culverts
 - Permanent Earthworks
 - Project Boundary
 - Property Boundaries
- Flood Hazard (Depth x Velocity)**
- > 0,6 Extreme Hazard
 - 0,4 - 0,6 Significant Hazard
 - 0 - 0,4 Low Hazard

0 2,000
 kilometres



Clarence River Regional Model
Existing Flood Hazard
 Map ID: B042
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q020_E07a
 Event: 20 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



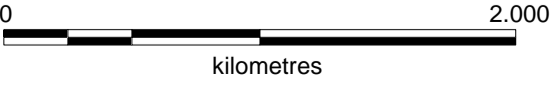
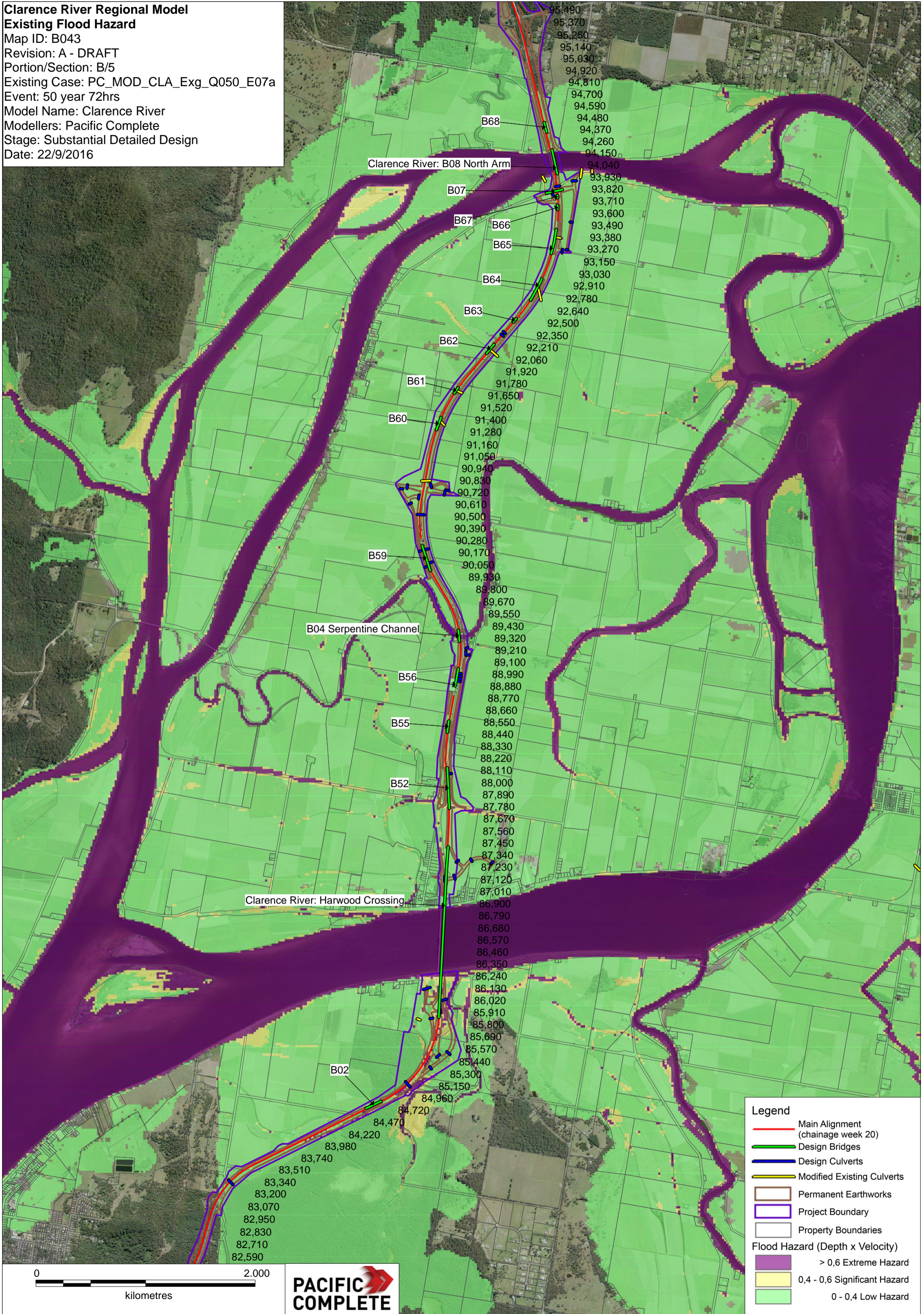
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

Clarence River Regional Model
Existing Flood Hazard
 Map ID: B043
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q050_E07a
 Event: 50 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016



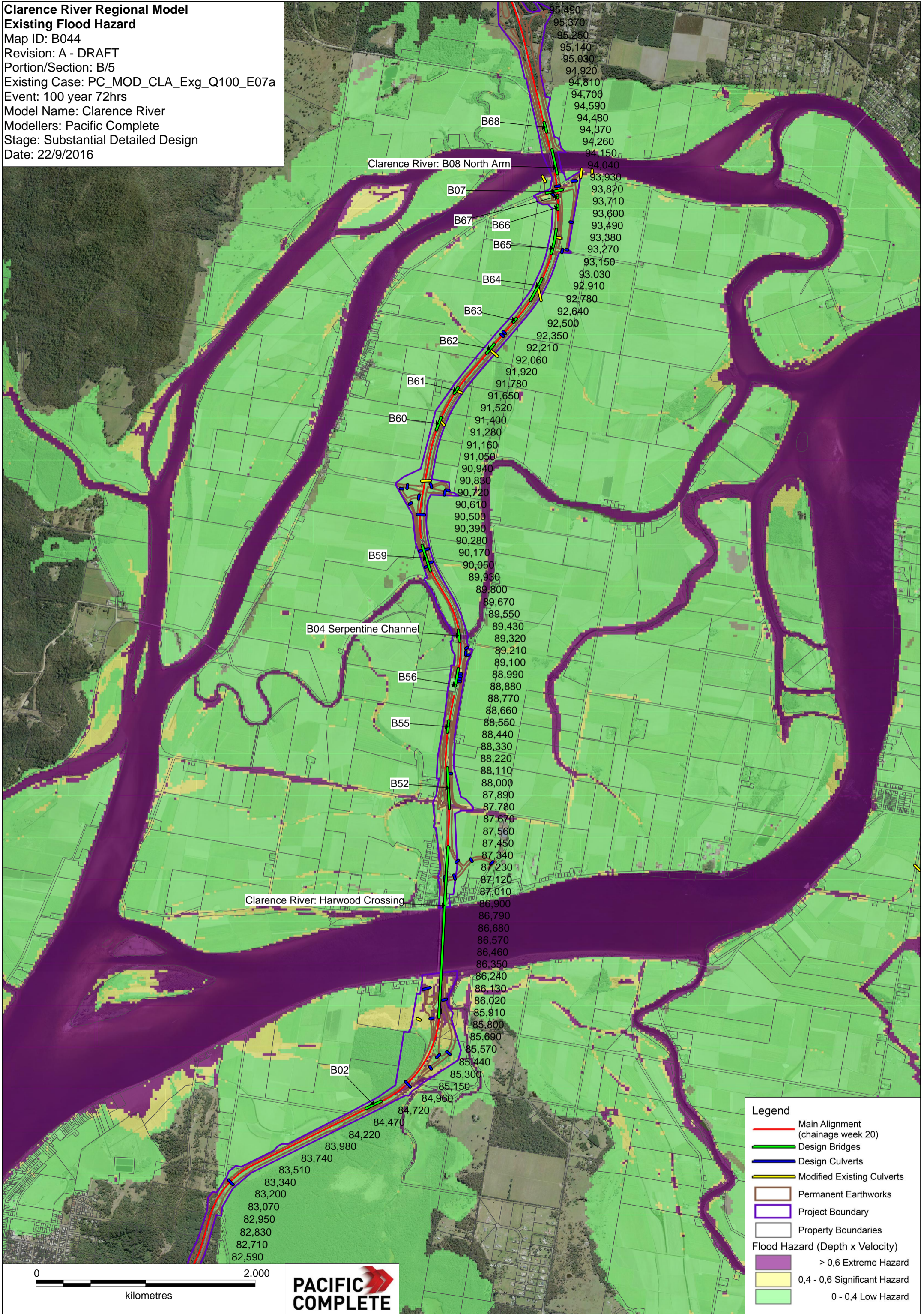
Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

Clarence River Regional Model
Existing Flood Hazard
 Map ID: B044
 Revision: A - DRAFT
 Portion/Section: B/5
 Existing Case: PC_MOD_CLA_Exg_Q100_E07a
 Event: 100 year 72hrs
 Model Name: Clarence River
 Modellers: Pacific Complete
 Stage: Substantial Detailed Design
 Date: 22/9/2016

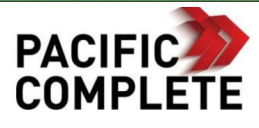


Clarence River: B08 North Arm

B04 Serpentine Channel

Clarence River: Harwood Crossing

0 2.000
kilometres



Legend

- Main Alignment (chainage week 20)
- Design Bridges
- Design Culverts
- Modified Existing Culverts
- Permanent Earthworks
- Project Boundary
- Property Boundaries

Flood Hazard (Depth x Velocity)

- > 0,6 Extreme Hazard
- 0,4 - 0,6 Significant Hazard
- 0 - 0,4 Low Hazard

95,490
95,370
95,250
95,140
95,030
94,920
94,810
94,700
94,590
94,480
94,370
94,260
94,150
94,040
93,930
93,820
93,710
93,600
93,490
93,380
93,270
93,150
93,030
92,910
92,780
92,640
92,500
92,350
92,210
92,060
91,920
91,780
91,650
91,520
91,400
91,280
91,160
91,050
90,940
90,830
90,720
90,610
90,500
90,390
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90,170
90,050
89,930
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89,670
89,550
89,430
89,320
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88,330
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