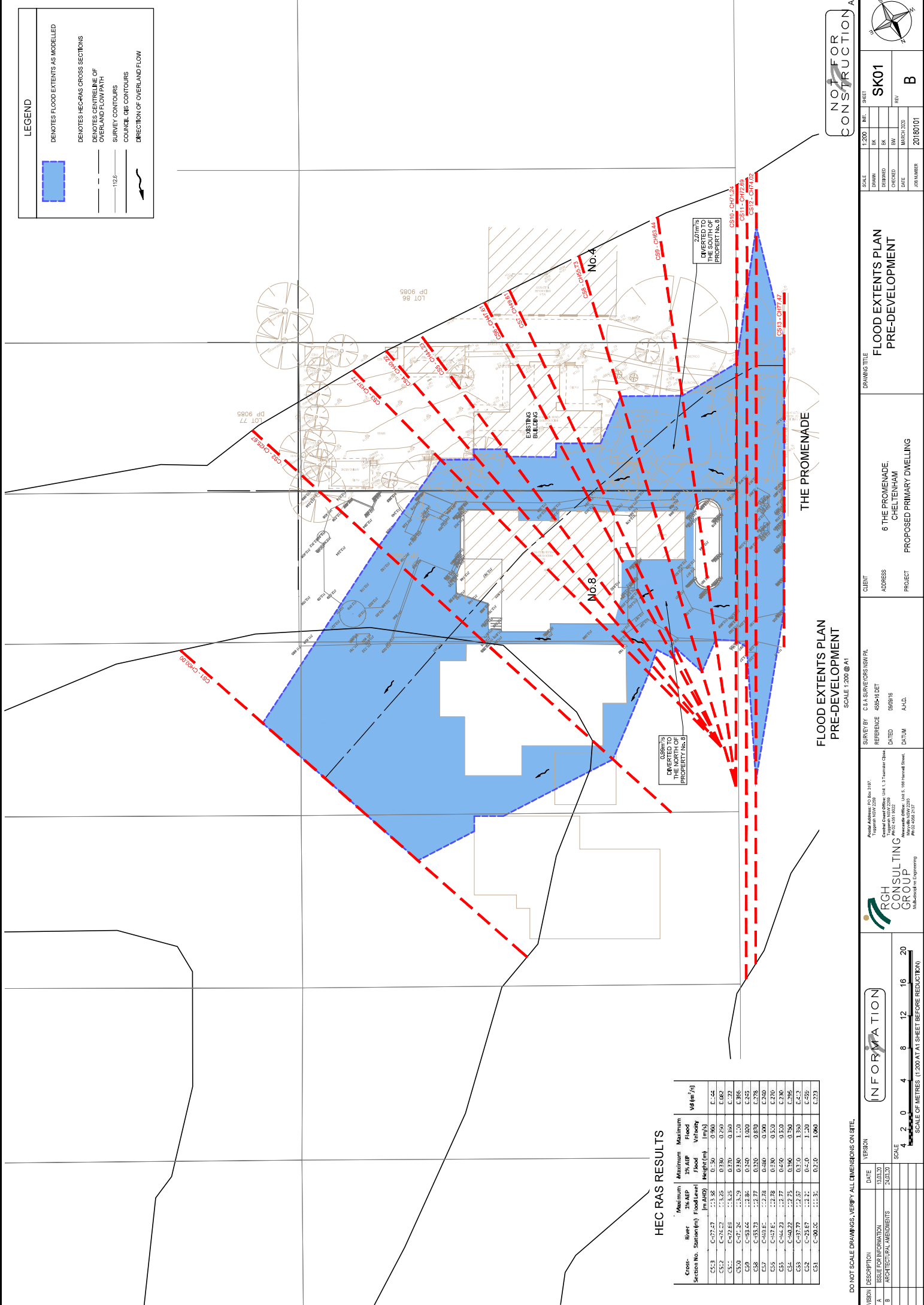


**LEGEND**

- Denotes Flood Extents as Modelled
- Denotes HEC-RAS Cross Sections
- Denotes Centreline of Overland Flow Path
- Survey Contours
- Council GIS Contours
- Direction of Overland Flow



**HEC RAS RESULTS**

| Cross-Section No. | River Station (m) | Maximum Flood Level (m AHD) | Minimum Flood Level (m AHD) | 1% AEP Flood Level (m AHD) | Maximum Flood Velocity (m/s) | Minimum Flood Velocity (m/s) |
|-------------------|-------------------|-----------------------------|-----------------------------|----------------------------|------------------------------|------------------------------|
| CS1               | C+572.47          | 115.36                      | 0.50                        | 0.900                      | 0.54                         | 0.62                         |
| CS2               | C+572.27          | 115.35                      | 0.330                       | 0.250                      | 0.22                         | 0.22                         |
| CS3               | C+572.85          | 115.25                      | 0.270                       | 0.150                      | 0.15                         | 0.15                         |
| CS4               | C+582.44          | 115.24                      | 0.150                       | 1.000                      | 0.52                         | 0.52                         |
| CS5               | C+582.23          | 115.27                      | 0.330                       | 0.800                      | 0.700                        | 0.700                        |
| CS6               | C+582.82          | 115.28                      | 0.580                       | 0.900                      | 0.740                        | 0.740                        |
| CS7               | C+587.42          | 115.28                      | 0.330                       | 0.330                      | 0.210                        | 0.210                        |
| CS8               | C+584.23          | 115.27                      | 0.450                       | 0.500                      | 0.230                        | 0.230                        |
| CS9               | C+590.22          | 115.27                      | 0.390                       | 0.750                      | 0.705                        | 0.705                        |
| CS10              | C+577.77          | 115.27                      | 0.330                       | 1.300                      | 0.573                        | 0.573                        |
| CS11              | C+585.87          | 115.27                      | 0.450                       | 1.200                      | 0.559                        | 0.559                        |
| CS12              | C+580.00          | 115.27                      | 0.210                       | 1.000                      | 0.523                        | 0.523                        |

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON-SITE.

**INFORMATION**

| REVISION | DESCRIPTION              | DATE     | VERSION |
|----------|--------------------------|----------|---------|
| A        | ISSUE FOR INFORMATION    | 13.03.20 |         |
| B        | ARCHITECTURAL AMENDMENTS | 23.03.20 |         |

SCALE OF METRES (1:200 AT A1 SHEET BEFORE REDUCTION)

SCALE: 1:200 @ A1

**RGH CONSULTING GROUP**  
 Multi-disciplinary Engineering

Project Address: PO Box 3127, Tupperan NSW 2256  
 Central Coast Office: PO Box 455, 9022  
 Newcastle Office: Unit 5, 168 Marshall Street, NSW 1608 3127

Surveyed by: C & A SURVEYORS NSW/PL  
 Reference: 4554-16-BET  
 Dated: 08/08/16  
 Datum: A.H.D.

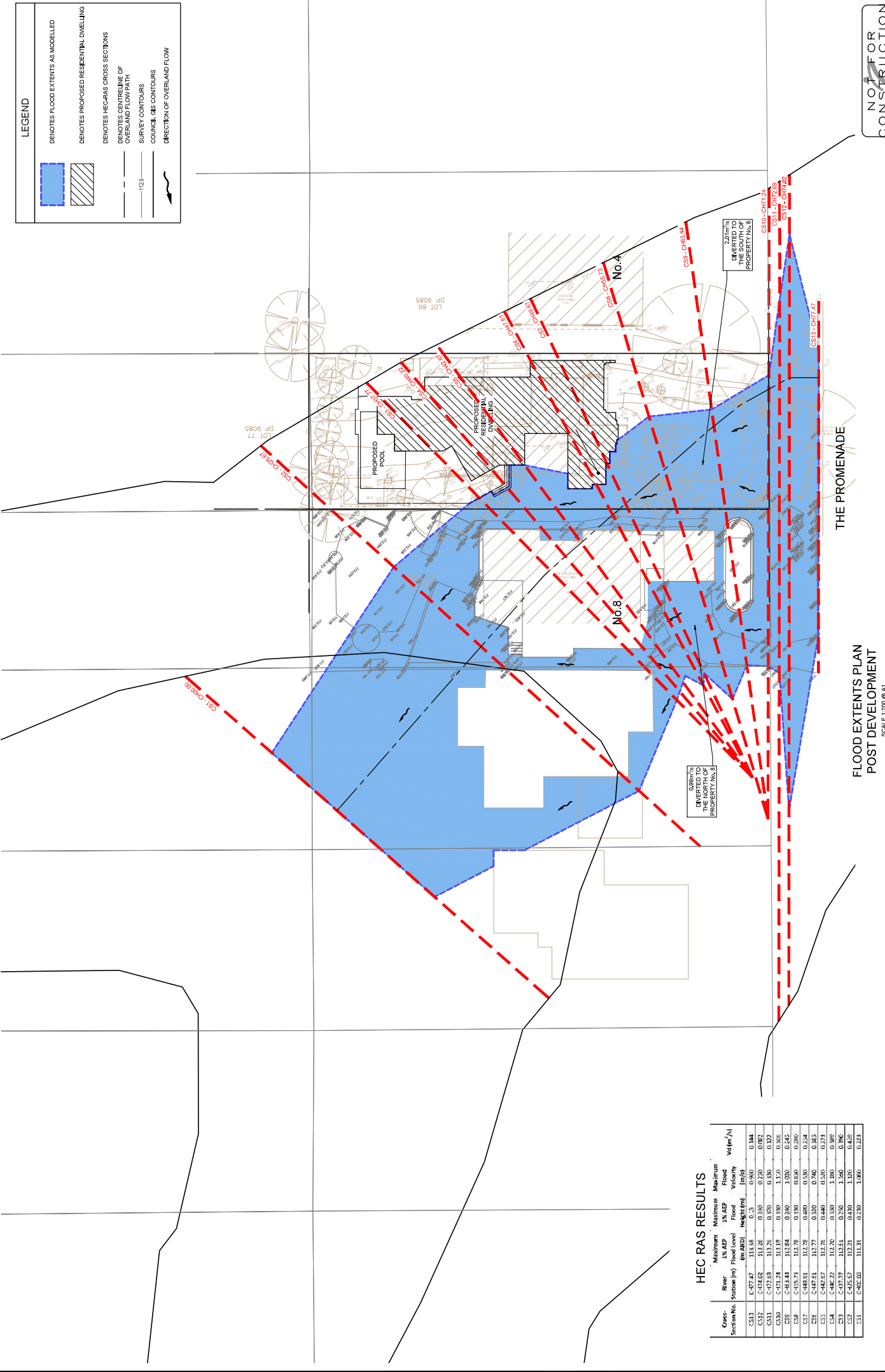
**CLIENT**  
 ADDRESS: 6 THE PROMENADE, CHELTENHAM  
 PROJECT: PROPOSED PRIMARY DWELLING

**DRAWING TITLE**  
 FLOOD EXTENTS PLAN PRE-DEVELOPMENT

**NOT FOR CONSTRUCTION A1**

| SCALE | DRAWN | CHECKED | DATE       | JOB NUMBER |
|-------|-------|---------|------------|------------|
| 1:200 | ML    | SK      | MARCH 2020 | 20180101   |

**SHEET SK01**  
**REV B**



HEC RAS RESULTS

| Cross Section No. | River Station (m) | Minimum Water Depth (m) | Maximum Water Depth (m) | Flow Velocity (m/s) | Flow Area (m <sup>2</sup> ) | Velocity (m/s) |
|-------------------|-------------------|-------------------------|-------------------------|---------------------|-----------------------------|----------------|
| C513              | C+677.47          | 113.38                  | 0.25                    | 0.850               | 0.144                       |                |
| C514              | C+678.02          | 112.26                  | 0.330                   | 0.250               | 0.082                       |                |
| C515              | C+678.57          | 112.26                  | 0.330                   | 0.330               | 0.122                       |                |
| C516              | C+679.12          | 112.26                  | 0.330                   | 1.110               | 0.306                       |                |
| C517              | C+679.67          | 112.26                  | 0.330                   | 1.000               | 0.245                       |                |
| C518              | C+679.73          | 112.26                  | 0.330                   | 0.330               | 0.296                       |                |
| C519              | C+679.79          | 112.26                  | 0.330                   | 0.330               | 0.344                       |                |
| C520              | C+679.85          | 112.26                  | 0.330                   | 0.330               | 0.374                       |                |
| C521              | C+679.91          | 112.26                  | 0.330                   | 1.860               | 0.300                       |                |
| C522              | C+679.97          | 112.26                  | 0.330                   | 1.560               | 0.300                       |                |
| C523              | C+679.97          | 112.26                  | 0.330                   | 1.560               | 0.300                       |                |
| C524              | C+679.97          | 112.26                  | 0.330                   | 1.560               | 0.300                       |                |
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| C531              | C+679.97          | 112.26                  | 0.330                   | 1.560               | 0.300                       |                |
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| C560              | C+679.97          | 112.26                  | 0.330                   | 1.560               | 0.300                       |                |
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| C562              | C+679.97          | 112.26                  | 0.330                   | 1.560               | 0.300                       |                |
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| C569              | C+679.97          | 112.26                  | 0.330                   | 1.560               | 0.300                       |                |
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**LEGEND**

- DENOTES FLOOD EXTENTS AS MODELLED
- DENOTES PROPOSED RESIDENTIAL DWELLING
- DENOTES HEC-RAS CROSS SECTIONS
- DENOTES CENTRELINE OF OVERLAND FLOW PATH
- SURVEY CONTOURS
- COUNCIL GIS CONTOURS
- DIRECTION OF OVERLAND FLOW