

Ingen Consulting  
Alstonville NSW 2477  
0417 264 987  
michiel@ingenconsulting.com.au  
www.ingenconsulting.com.au



Our Reference: J1250\_TMP RevB

General Manager  
Byron Shire Council  
PO Box 219  
Mullumbimby NSW 2482

2<sup>nd</sup> May 2023

**Re: Byron Writers Festival – Traffic Management Plan**

Dear Gray,

The Byron Writers Festival has engaged our services to prepare a Traffic Management Plan (TMP) for the Byron Writers Festival 2023, which will be held at the Bangalow Show Trouns from the 11<sup>th</sup> - 13<sup>th</sup> of August 2023.

**Byron Writers Festival contact**

Shien Chee - General Manager  
0411 079 882  
shien@byronwritersfestival.com

**Introduction**

The Byron Writers Festival 2023 will be held at Bangalow Showgrounds in Bangalow 2479.

This TMP includes traffic guidance schemes with traffic control devices (signs, delineation, and TC) to be implemented at Byron Street, Market St, Deacon St and Station St per TGS03. Variable Message Sign (VMS) will be erected in the three approaches of Bangalow (Bangalow Rd, Lismore Rd and Grannuaille Rd) before and during the event as per TGS01-02. A temporary bus bay will be set up with appropriate signs per TGS05 in Byron Street. The Vehicle Movement Plan shown in TGS04 is to provide a better understanding of the proposed shuttle bus service for this event.

The following section of this letter will explain in more detail how traffic control devices will be implemented.

### **Traffic Guidance Scheme design principles**

The TGSs have been designed according to the requirements stated in Transport for NSW Traffic Control at Worksites version 6 Technical Manual and Australian Standard 1742.

### **Roadworks speed limits**

For traffic controllers (TC) safety, the existing posted speed limit (50km/hr) will be reduced to 40km/hr roadworks in Byron Street and Deacon Street. These speed zones are depicted on the attached Traffic Guidance Schemes (TGS03).

### **Lane closure**

No lane closure will take place in this project.

### **Pedestrian management**

The existing Byron Street pedestrian crossing will be managed by TC, as shown in the TGS03.

All pedestrian traffic will be directed to and from the site via Station Lane.

### **Delineation**

Four cones placed at 4 meters spacing must be located immediately preceding the traffic controller's location at the centre of the road. Refer to TGS03.

### **Traffic Controller**

Seven traffic controllers would be located at the intersections of Byron Street / Market Street & Byron Street / Station Street, one on each approach, to direct and manage the traffic flow. Also, signage will inform the road users in advance and help traffic controllers to manage the traffic more safely. Enough sign distance is available at the proposed locations. Refer to TGS03 for more details.

As discussed above, four cones at 4 meters spacing must be placed before traffic approach the traffic controller. These traffic cones are used to highlight the traffic control position and where the vehicle stop.

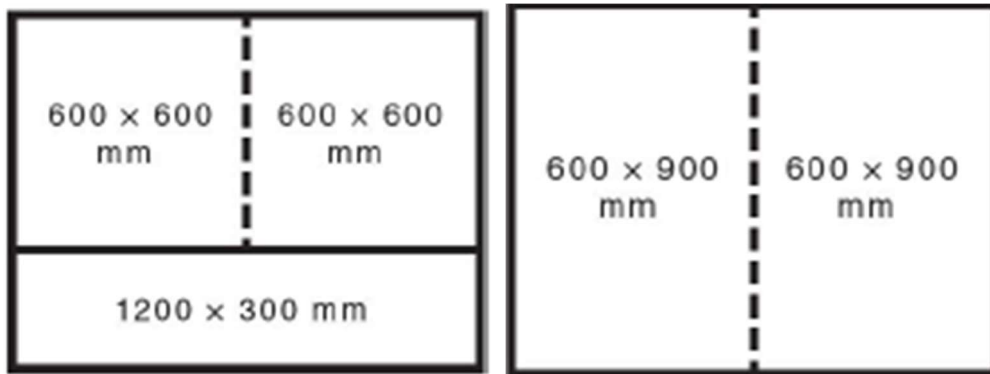
Also, the existing pedestrian crossing near the intersection of Byron Street and Station Street will have two spotters, one on each side, to manage the pedestrian flow.

Traffic controllers and spotters will be used at the contractor's discretion and may not be needed at all time.

## Signage

Signs will be used to inform road users of the presence of a traffic controller and to warn of the change of conditions.

The signs will be displayed as dual-sign frames and three-sign frames. Signs frames must have dimensions, as shown in Figure 1 below.



**Figure 1 | Three-sign frame and dual-sign frame dimensions, source: TNSW Traffic control at worksites version 6 Technical Manual**

Signs will be spaced as per the distance “D”, and in this TMP, we adopted the existing posted speed limit of 50km/hr. The location of each sign can be found in the attached TGSs, and a manifest is shown in **Table 1**.

**Table 1 | TGS Manifest**

TCP MANIFEST	
7 x	Multi Message (TC1257 Traffic Controller Symbolic, TC1173 Prepare To Stop, TM1-V100-2 (Y) Blank Yellow)
7 x	Traffic Controller
4 x	R4-1 (50) SPEED LIMIT 50
4 x	T2-17 END ROAD WORK
3 x	R4-212 (40) SPEED LIMIT 40 ROAD WORK
3 x	TM1-1A Roadwork Ahead
1 x	R5-20 (L) BUS ZONE LEFT
1 x	R5-20 (R) BUS ZONE RIGHT
1 x	R5-20 BUS ZONE

**Variable Message Sign (VMS)**

Variable Message Sign (VMS) will be placed on Bangalow Rd, Lismore Rd and Grannuaille Rd. Messenger will be “FESTIVAL 11-13 AUGUST – EXPECT DELAY” before the event from Friday 14/07 to Friday 11/08, and “FESTIVAL AHEAD – EXPECT DELAYS” during the event from Friday 11/08 to Sunday 13/08. The spacing and location of VMS boards are approximate only, and they should not be obscured by vegetation, and solar glare is not an issue. All VMS boards are to be tested before installation to ensure the proper functioning and adequate contrast on each display. Refer to TGS01-02 for VMSs GPS coordinates.

**Temporary Bus Bay**

A shuttle bus service will run between Byron Bay CBD and the festival site dropping passengers off near the intersection of Byron Street and Market Street. The main pick up point for this will be the Byron bus interchange. A second pick up will be at the Cavanbah Centre.

A temporary bus bay will be in operation between the intersections of Byron Street / Market Street & Byron Street / Station Street. It will have R5-20 “Bus Zone” sign erected along the northern verge. Refer to TGS05 for more details of this temporary bus bay and refer to TGS04 for the shuttle bus movement plan.

**School drop-off and pick-up**

Bangalow Public School is located at Market Street near the festival area. The school was consulted and the following plan for pick-up and drop-off is proposed:

- Monday 7 - Thursday 10 August, kiss & ride in Showgrounds remains operational. Entry via Market St with alternative exit route via gate beside A&I Hall, onto Station St. Staff parking onsite remains with access via Market St.
- Friday 11 August: no access to the site, alternative parking arrangements to be made, parents to walk children to school.

Market Street has existing no-parking and no-stopping arrangements which will facilitate the flow of traffic during peak arrival and departure periods.

### **On-site traffic management and parking**

The Byron Writers Festival engages a Parking Coordinator and a parking team. Signage, volunteers and communications plans will assist with the flow of traffic within the showground lands. An on-site vehicle movement plan is included in the attachments.

All on-site parking will be free, however a gold coin donation will be requested, as is traditional at the Byron Writers Festival. We estimate that approximately 519 cars can be parked on site, as per the attached car park layout

### **PWD access**

There will be an on-site PWD pick up and drop off area.

### **Traffic Guidance Schemes**

The attached traffic guidance schemes reflect the above descriptions. If you have any questions, please do not hesitate to contact our office.

Yours sincerely,



**Jordy Nasario da Silva**

*BEng (Civil), GradIEAust, AdvDipProjMgt*

*TCT1021878*

**Attachments:** Traffic Guidance Schemes  
Car park layout  
On-site vehicle movement plan





VMS board GPS coordinates.  
-28.681819945242367, 153.52388463259558

VMS board GPS coordinates.  
-28.6850779068715, 153.52936681505525

VMS board GPS coordinates.  
-28.688678702371675, 153.519649944501

- TGS NOTES:**
1. These Traffic Guidance Schemes (TGS's) are to be read in conjunction with the Traffic Management Plan (TMP) for this project.
  2. These TGS's are to be implemented only by TfNSW certified traffic control contractors.
  3. Installation of signs, barriers and other traffic control devices shall be in accordance with the AS1742 series and the TfNSW Traffic Control at Work Sites version 6.0.
  5. Contractor to contact our office in a timely fashion if any issues are encountered for setout or if changes are to be made. All changes to be noted and signed of prior to execution.
  6. All unnecessary signs are to be covered in between shifts.
  7. TGS type: long term work.
  8. Spacing and location of VMS boards is approximate only, placement of VMS boards it such that the displays are not obscured by vegetation, and solar glare is not an issue.
  9. All VMS boards are to be tested prior to installation to ensure proper functioning of and adequate contrast on each display.
  10. This TGS applies before the festival from Friday 14/07 - Friday 11/08

**Legend**

- Festival area
- VMS Board
- VMS location

1 : 5000 (1cm = 50m)



REV:	DESCRIPTION:	DATE:	DRAWN:	REVIEWED:	APPROVED:
0	For Construction	06/04/23	JN	MK	MK

**APPROVED BY:**  
Jordy Nasario,  
BEng (Civil), GradIEAust, AdvDipProjMgt  
TCT1021878

Signed: \_\_\_\_\_ Date: 06/04/23



**Ingen Consulting Pty Ltd**  
ACN: 623 948 112  
a: Alstonville, NSW  
p: +614 1726 4987  
e: michiel@ingenconsulting.com.au  
w: www.ingenconsulting.com.au

**CLIENT:**  
Byron Writers Festival  
PO Box 1846  
Byron Bay NSW 2481

**PROJECT:**  
Byron Writers Festival 2023  
Bangalow Showgrounds

<b>DRAWING TITLE:</b> Traffic Guidance Schemes - Variable Message Sign (VMS) Sheet 1 of 2	
<b>PROJECT NUMBER:</b> J1250	<b>ORIGINAL SIZE:</b> A3
<b>DRAWING NUMBER:</b> J1250_TGS01	<b>REVISION:</b> 0

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.





VMS board GPS coordinates.  
-28.681819945242367, 153.52388463259558

VMS board GPS coordinates.  
-28.6850779068715, 153.52936681505525

VMS board GPS coordinates.  
-28.688678702371675, 153.519649944501

- TGS NOTES:**
1. These Traffic Guidance Schemes (TGS's) are to be read in conjunction with the Traffic Management Plan (TMP) for this project.
  2. These TGS's are to be implemented only by TfNSW certified traffic control contractors.
  3. Installation of signs, barriers and other traffic control devices shall be in accordance with the AS1742 series and the TfNSW Traffic Control at Work Sites version 6.0.
  5. Contractor to contact our office in a timely fashion if any issues are encountered for setout or if changes are to be made. All changes to be noted and signed of prior to execution.
  6. All unnecessary signs are to be covered in between shifts.
  7. TGS type: long term work.
  8. Spacing and location of VMS boards is approximate only, placement of VMS boards it such that the displays are not obscured by vegetation, and solar glare is not an issue.
  9. All VMS boards are to be tested prior to installation to ensure proper functioning of and adequate contrast on each display.
  10. This TGS applies during the festival from Friday 11/08 - Sunday 13/08

**Legend**

- Festival area
- VMS Board
- VMS location

1 : 5000 (1cm = 50m)



REV:	DESCRIPTION:	DATE:	DRAWN:	REVIEWED:	APPROVED:
0	For Construction	06/04/23	JN	MK	MK

**APPROVED BY:**  
Jordy Nasario,  
BEng (Civil), GradIEAust, AdvDipProjMgt  
TCT1021878

Signed: \_\_\_\_\_ Date: 06/04/23



**Ingen Consulting Pty Ltd**  
ACN: 623 948 112  
a: Alstonville, NSW  
p: +614 1726 4987  
e: michiel@ingenconsulting.com.au  
w: www.ingenconsulting.com.au

**CLIENT:**  
Byron Writers Festival  
PO Box 1846  
Byron Bay NSW 2481

**PROJECT:**  
Byron Writers Festival 2023  
Bangalow Showgrounds

<b>DRAWING TITLE:</b> Traffic Guidance Schemes - Variable Message Sign (VMS) Sheet 2 of 2	
<b>PROJECT NUMBER:</b> J1250	<b>ORIGINAL SIZE:</b> A3
<b>DRAWING NUMBER:</b> J1250_TGS02	<b>REVISION:</b> 0

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.



**Legend**

- Four cones 4m spaced before TC
- Multi Message (TC1257 Traffic Controller Symbolic, TC1173 Prepare To Stop, TM1-V100-2 (Y) Blank Yellow)
- R4-1 (50) SPEED LIMIT 50
- R4-212 (40) SPEED LIMIT 40 ROAD WORK
- R5-20 (L) BUS ZONE LEFT
- R5-20 (R) BUS ZONE RIGHT
- R5-20 BUS ZONE
- T2-17 END ROAD WORK
- TM1-1A Roadwork Ahead
- Traffic Controller



**TGS NOTES:**

1. These Traffic Guidance Schemes (TGS's) are to be read in conjunction with the Traffic Management Plan (TMP) for this project.
2. These TGS's are to be implemented only by TfNSW certified traffic control contractors.
3. Installation of signs, barriers and other traffic control devices shall be in accordance with the AS1742 series and the TfNSW Traffic Control at Work Sites version 6.0.
5. Contractor to contact our office in a timely fashion if any issues are encountered for setout or if changes are to be made. All changes to be noted and signed of prior to execution.
6. All unnecessary signs are to be covered in between shifts.
7. TGS type: long term work.
9. This TGS is based on standard TGS's but with alterations to suit site specific conditions.
10. Traffic controllers are to be used at the discretion of the contractor

1 : 1000 (1cm = 10m)



REV:	DESCRIPTION:	DATE:	DRAWN:	REVIEWED:	APPROVED:
0	For Construction	04/04/03	JN	MK	MK

**APPROVED BY:**  
 Jordy Nasario,  
 BEng (Civil), GradIEAust, AdvDipProjMgt  
 TC11021878

Signed: \_\_\_\_\_ Date: 04/04/23



**Ingen Consulting Pty Ltd**  
 ACN: 623 948 112  
 a: Alstonville, NSW  
 p: +614 1726 4987  
 e: michiel@ingenconsulting.com.au  
 w: www.ingenconsulting.com.au

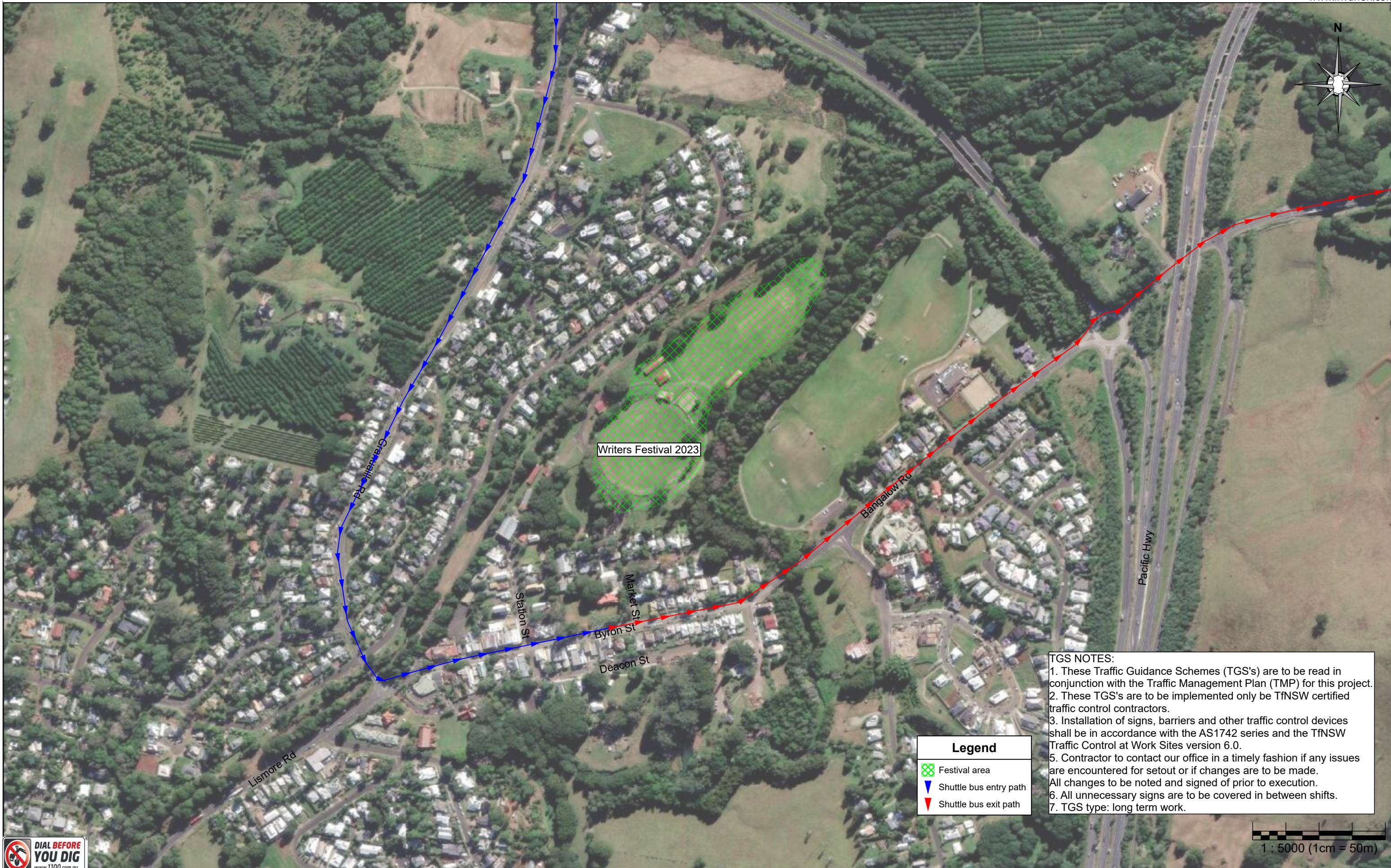
**CLIENT:**  
 Byron Writers Festival  
 PO Box 1846  
 Byron Bay NSW 2481

**PROJECT:**  
 Byron Writers Festival 2023  
 Bangalow Showgrounds

<b>DRAWING TITLE:</b> Traffic Guidance Schemes - Traffic control at intersections	
<b>PROJECT NUMBER:</b> J1250	<b>ORIGINAL SIZE:</b> A3
<b>DRAWING NUMBER:</b> J1250_TGS03	<b>REVISION:</b> 0

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.





**TGS NOTES:**

1. These Traffic Guidance Schemes (TGS's) are to be read in conjunction with the Traffic Management Plan (TMP) for this project.
2. These TGS's are to be implemented only by TfNSW certified traffic control contractors.
3. Installation of signs, barriers and other traffic control devices shall be in accordance with the AS1742 series and the TfNSW Traffic Control at Work Sites version 6.0.
5. Contractor to contact our office in a timely fashion if any issues are encountered for setout or if changes are to be made. All changes to be noted and signed off prior to execution.
6. All unnecessary signs are to be covered in between shifts.
7. TGS type: long term work.

**Legend**

- Festival area
- Shuttle bus entry path
- Shuttle bus exit path



REV:	DESCRIPTION:	DATE:	DRAWN:	REVIEWED:	APPROVED:
0	For Construction	06/04/23	JN	MK	MK

**APPROVED BY:**  
**Jordy Nasario,**  
 BEng (Civil), GradIEAust, AdvDipProjMgt  
 TCT1021878

Signed: \_\_\_\_\_ Date: 06/04/23



**Ingen Consulting Pty Ltd**  
 ACN: 623 948 112  
 a: Alstonville, NSW  
 p: +614 1726 4987  
 e: michiel@ingenconsulting.com.au  
 w: www.ingenconsulting.com.au

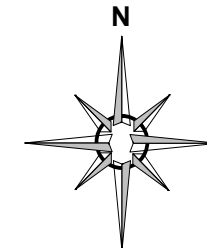
**CLIENT:**  
 Byron Writers Festival  
 PO Box 1846  
 Byron Bay NSW 2481

**PROJECT:**  
 Byron Writers Festival 2023  
 Bangalow Showgrounds

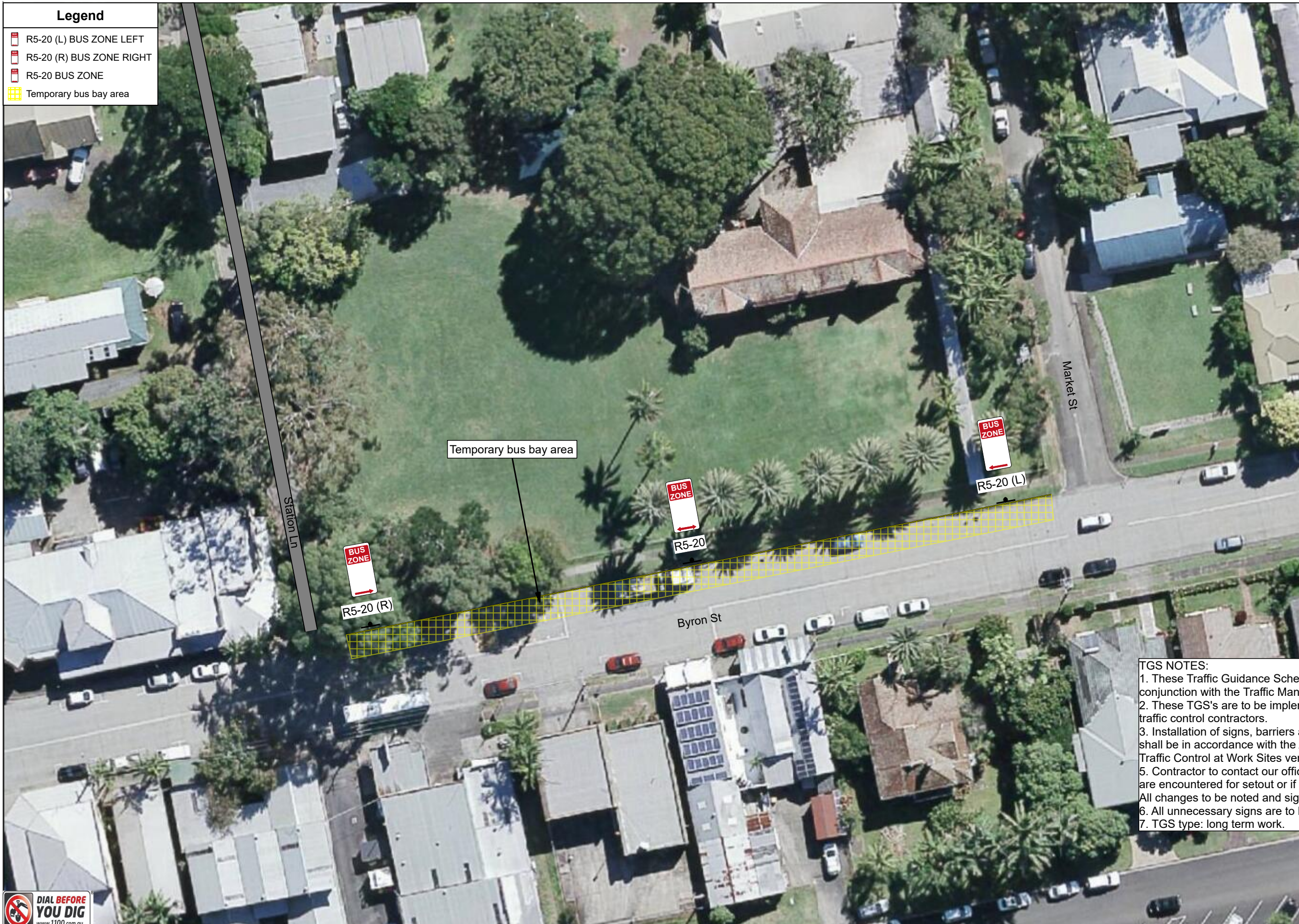
<b>DRAWING TITLE:</b> Traffic Guidance Schemes - Shuttle Bus Movement Plan	
<b>PROJECT NUMBER:</b> J1250	<b>ORIGINAL SIZE:</b> A3
<b>DRAWING NUMBER:</b> J1250_TGS04	<b>REVISION:</b> 0

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.



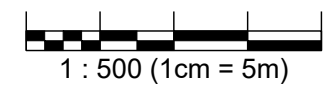


Legend	
	R5-20 (L) BUS ZONE LEFT
	R5-20 (R) BUS ZONE RIGHT
	R5-20 BUS ZONE
	Temporary bus bay area



**TGS NOTES:**

1. These Traffic Guidance Schemes (TGS's) are to be read in conjunction with the Traffic Management Plan (TMP) for this project.
2. These TGS's are to be implemented only by TfNSW certified traffic control contractors.
3. Installation of signs, barriers and other traffic control devices shall be in accordance with the AS1742 series and the TfNSW Traffic Control at Work Sites version 6.0.
5. Contractor to contact our office in a timely fashion if any issues are encountered for setout or if changes are to be made. All changes to be noted and signed of prior to execution.
6. All unnecessary signs are to be covered in between shifts.
7. TGS type: long term work.



REV:	DESCRIPTION:	DATE:	DRAWN:	REVIEWED:	APPROVED:
0	For Construction	15/03/03	JN	MK	MK

**APPROVED BY:**  
**Jordy Nasario,**  
 BEng (Civil), GradIEAust, AdvDipProjMgt  
 TCT1021878

Signed: \_\_\_\_\_ Date: 15/03/23



**Ingen Consulting Pty Ltd**  
 ACN: 623 948 112  
 a: Alstonville, NSW  
 p: +614 1726 4987  
 e: michiel@ingenconsulting.com.au  
 w: www.ingenconsulting.com.au

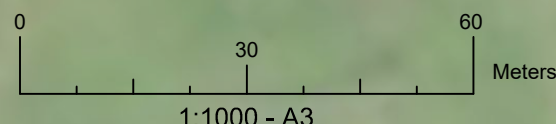
**CLIENT:**  
 Byron Writers Festival  
 PO Box 1846  
 Byron Bay NSW 2481

**PROJECT:**  
 Byron Writers Festival 2023  
 Bangalow Showgrounds

DRAWING TITLE:	
Traffic Guidance Schemes - Temporary bus bay	
PROJECT NUMBER:	ORIGINAL SIZE:
J1250	A3
DRAWING NUMBER:	REVISION:
J1250_TGS05	0

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.





REV:	DESCRIPTION:	DATE:	DRAWN:	REVIEWED:	APPROVED:
A	Draft For Review	04/04/23	JN	MK	MK

APPROVED BY:  
**Michiel Kamphorst,**  
 MSc, BSc, RPEng, RPEQ, NER

Signed: \_\_\_\_\_ Date: **04/04/23**



Ingen Consulting Pty Ltd  
 ACN: 623 948 112  
 a: Alstonville, NSW  
 p: +614 1726 4987  
 e: michiel@ingenconsulting.com.au  
 w: www.ingenconsulting.com.au

CLIENT:  
**Byron Writers Festival 2023, PO  
 Box 1846 Byron Bay NSW 2481**

PROJECT:  
**Byron Writers Festival 2023,  
 Bangalow Showgrounds**




DRAWING TITLE: <b>Car park layout</b>	
PROJECT NUMBER: <b>J1250</b>	ORIGINAL SIZE: <b>A3</b>
DRAWING NUMBER: <b>J1250_CP01</b>	REVISION: <b>A</b>

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.





**Legend**

-  Car park
-  Pedestrians path
-  Vehicles path



REV: 0	DESCRIPTION: For Construction	DATE: 02/05/23	DRAWN: JN	REVIEWED: MK	APPROVED: MK

**APPROVED BY:**  
**Jordy Nasario,**  
 BEng (Civil), GradIEAust, AdvDipProjMgt  
 TCT1021878

Signed: \_\_\_\_\_ Date: 02/05/23



**Ingen Consulting Pty Ltd**  
 ACN: 623 948 112  
 a: Alstonville, NSW  
 p: +614 1726 4987  
 e: michiel@ingenconsulting.com.au  
 w: www.ingenconsulting.com.au

**CLIENT:**  
 Byron Writers Festival  
 PO Box 1846  
 Byron Bay NSW 2481

**PROJECT:**  
 Byron Writers Festival 2023  
 Bangalow Showgrounds

<b>DRAWING TITLE:</b> On-site vehicle movement plan - Sheet 1 of 2	
<b>PROJECT NUMBER:</b> J1250	<b>ORIGINAL SIZE:</b> A3
<b>DRAWING NUMBER:</b> J1250_VMP01	<b>REVISION:</b> 0

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.





Car park - Refer to car park layout J1250\_CP01

Festival area

Car park - Refer to car park layout J1250\_CP01

Festival area

**Legend**

- Car park
- Pedestrians path
- Vehicles path

1 : 1000 (1cm = 10m)



REV:	DESCRIPTION:	DATE:	DRAWN:	REVIEWED:	APPROVED:
0	For Construction	02/05/23	JN	MK	MK

**APPROVED BY:**  
**Jordy Nasario,**  
 BEng (Civil), GradIEAust, AdvDipProjMgt  
 TCT1021878

Signed: \_\_\_\_\_ Date: 02/05/23



**Ingen Consulting Pty Ltd**  
 ACN: 623 948 112  
 a: Alstonville, NSW  
 p: +614 1726 4987  
 e: michiel@ingenconsulting.com.au  
 w: www.ingenconsulting.com.au

**CLIENT:**  
 Byron Writers Festival  
 PO Box 1846  
 Byron Bay NSW 2481

**PROJECT:**  
 Byron Writers Festival 2023  
 Bangalow Showgrounds

**DRAWING TITLE:**  
 On-site vehicle movement plan - Sheet 2 of 2

**PROJECT NUMBER:** J1250 **ORIGINAL SIZE:** A3

**DRAWING NUMBER:** J1250\_VMP02 **REVISION:** 0

Copyright in the drawings, information and data recorded in this document is the property of Ingen Consulting. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied, or reproduced in whole or in part for any purpose than that for which it was supplied by Ingen Consulting. This document shall only be used for construction if stamped and approved for construction.