

## UPDATED STAGE 4<sup>TH</sup> April 2024







Please see changes/additional info below in **red**.

Also updated overall project stage dates as per Construction Program V6:

Task Name	Applicable TGS as per TMP Rev D	Duration	Start	Finish
<b>Stage 1</b>	<b>SJTM 2291- 01</b>	<b>5 days</b>	<b>Sat 6/04/24</b>	<b>Thu 11/04/24</b>
<b>Stage 2</b>	<b>SJTM 2291- 02 &amp; SJTM 2291- 02a</b>	<b>70 days</b>	<b>Thu 11/04/24</b>	<b>Wed 3/07/24</b>
<b>Stage 3</b>	<b>SJT M2291- 03</b>	<b>23 days</b>	<b>Sat 8/06/24</b>	<b>Thu 4/07/24</b>
<b>Stage 4</b>	<b>SJTM 2291- 04</b>	<b>21 days</b>	<b>Wed 26/06/24</b>	<b>Sat 20/07/24</b>
<b>Stage 5</b>	<b>SJTM 2291- 05</b>	<b>29 days</b>	<b>Mon 15/07/24</b>	<b>Fri 16/08/24</b>
<b>Stage 6</b>	<b>SJTM 2291- 06</b>	<b>21 days</b>	<b>Wed 7/08/24</b>	<b>Sat 31/08/24</b>

**NOTE:** With the overlapping of stages, the previous stage's road will be opened to traffic, while the verge works i.e. landscaping and footpath construction is being completed. The next stage will then be fully closed while the verge works from the previous stage is being completed.

### Legend

-  Cone
-  Existing footpath
-  Safety Buffer
-  Temp Footpath
-  Water Filled Barrier
-  Work Area

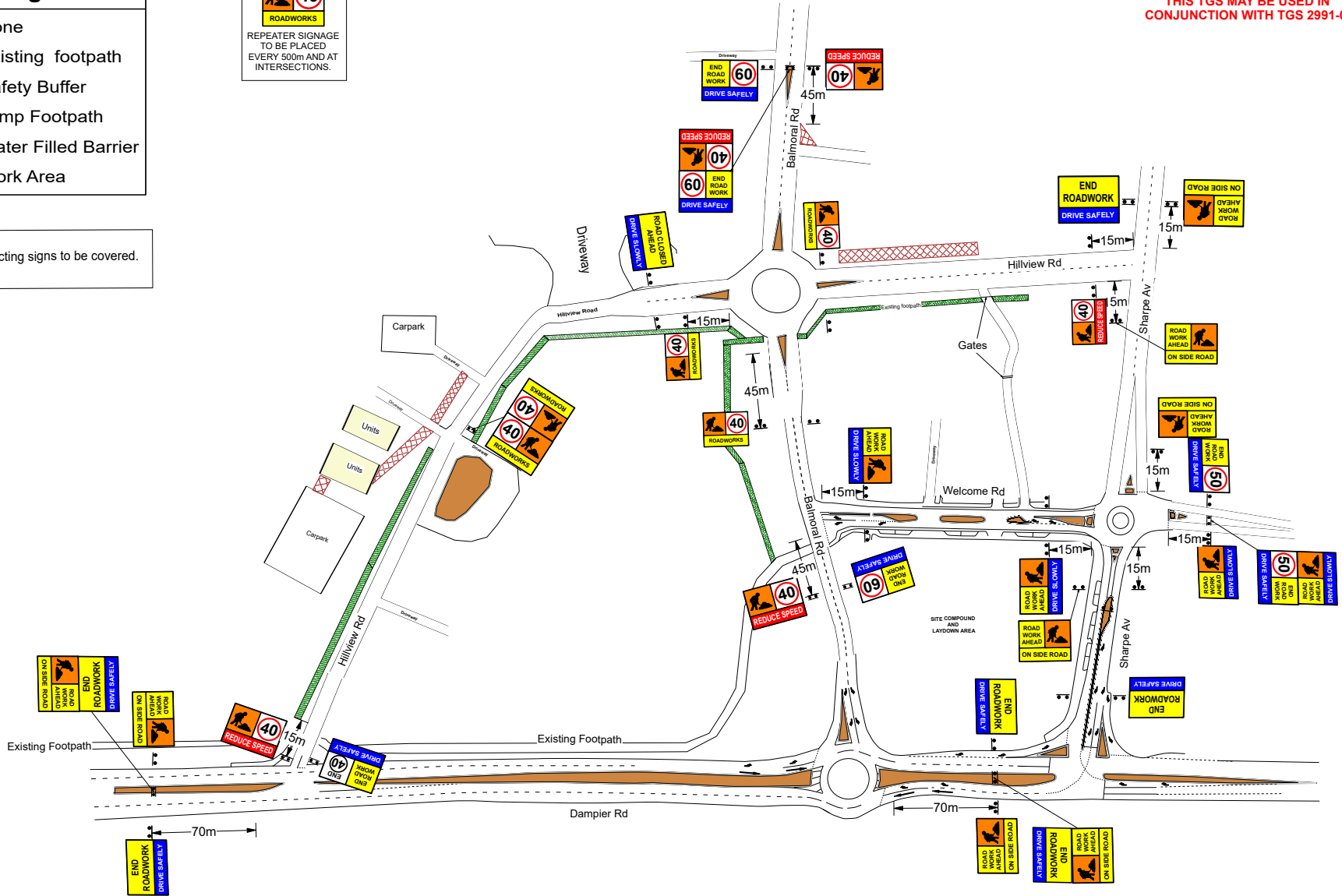
Notes:  
- All conflicting signs to be covered.




ROADWORKS  
40

REPEATER SIGNAGE TO BE PLACED EVERY 500m AND AT INTERSECTIONS.

THIS TGS MAY BE USED IN CONJUNCTION WITH TGS 2991-07






**Date:** 18/03/24 **Designed By:** Karen Bell AWTM 23-8589-02 **Signed:** *Karen Bell* **TGS:** SJTM 2291- 01

**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade **Posted Speed:** 40km/h- 70 km/h

**Work Stage:** Stage1 Light Pole Relocations, Establish Temporary vehicle access way, and Footpaths, road closure. **Temporary Speed:** 40km/h

**Location:** Hillview Rd and Balmoral Rd







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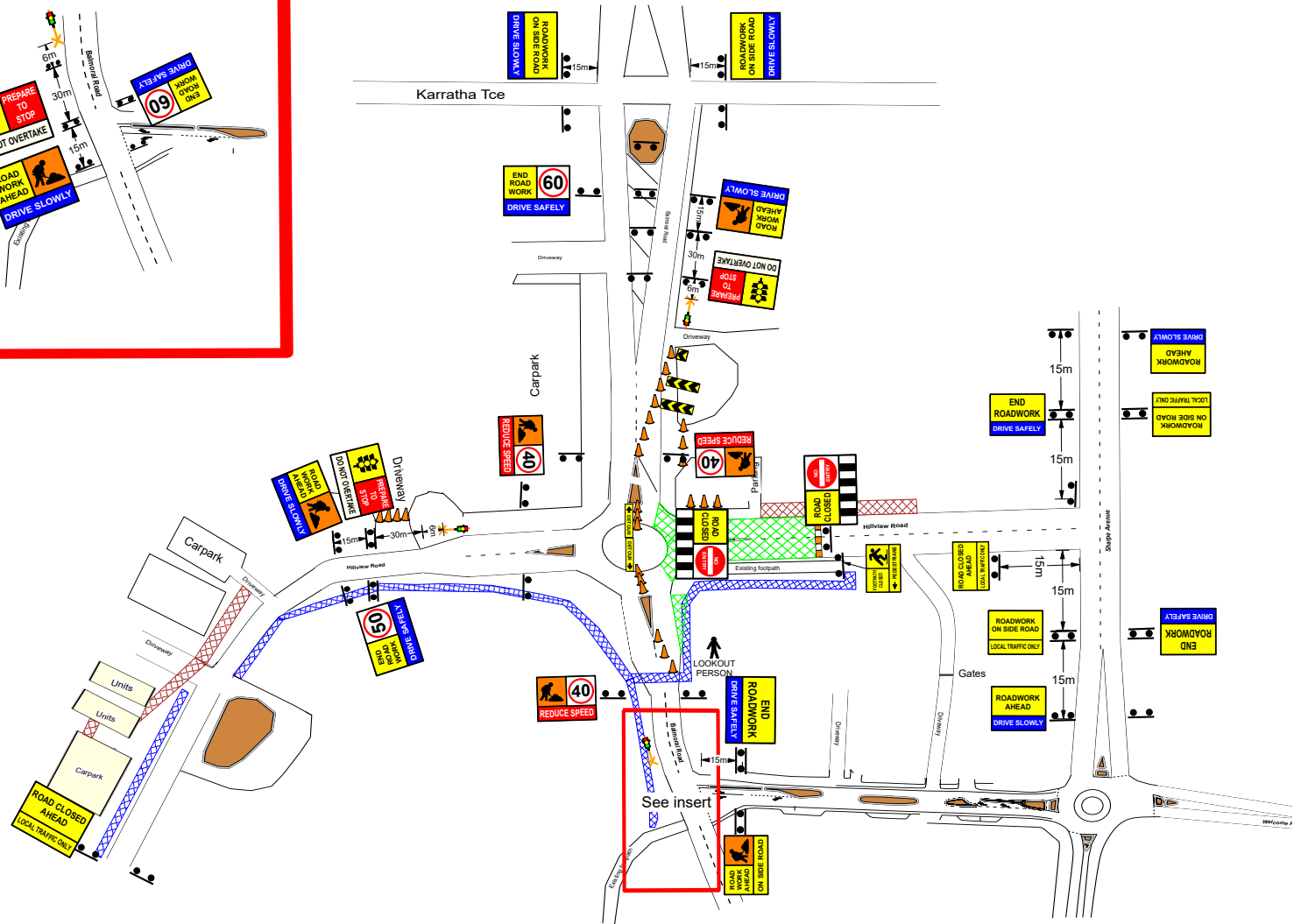
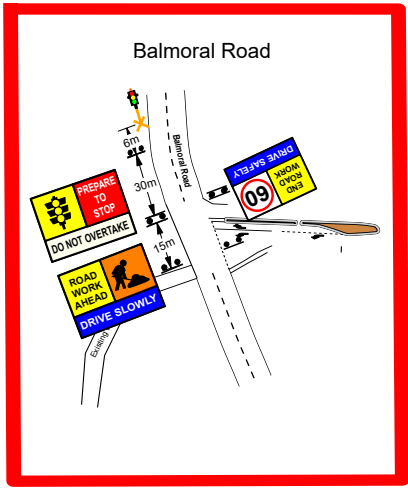


NOT TO SCALE

1. All sign locations are to be checked prior to setout and positions adjusted to allow for specific site constraints such as vegetation, other signs, roadside furniture and sufficient space on shoulders.
2. The positioning of signs, lengths of tapers or markings shall be:
  - a) Minimum 10% less than the distances or lengths given.
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3. This traffic guidance scheme shall be read in conjunction with the traffic management plan, AS1742.3 and Main Roads WA Traffic Management for Works on Roads Code of Practice

**Legend**

-  Cone
-  Existing footpath
-  Safety Buffer
-  Temp Footpath
-  Water Filled Barrier
-  Work Area



**Notes:**

- TC shall not stand within red.
- TC may stand within orange
- TC recommended to stand within green
- Stop bat shall be placed next to PTCD

**PTCD THRESHOLD**

4 cones 4m spacing

Cones may be placed along edge to reduce lane width to max 4m.



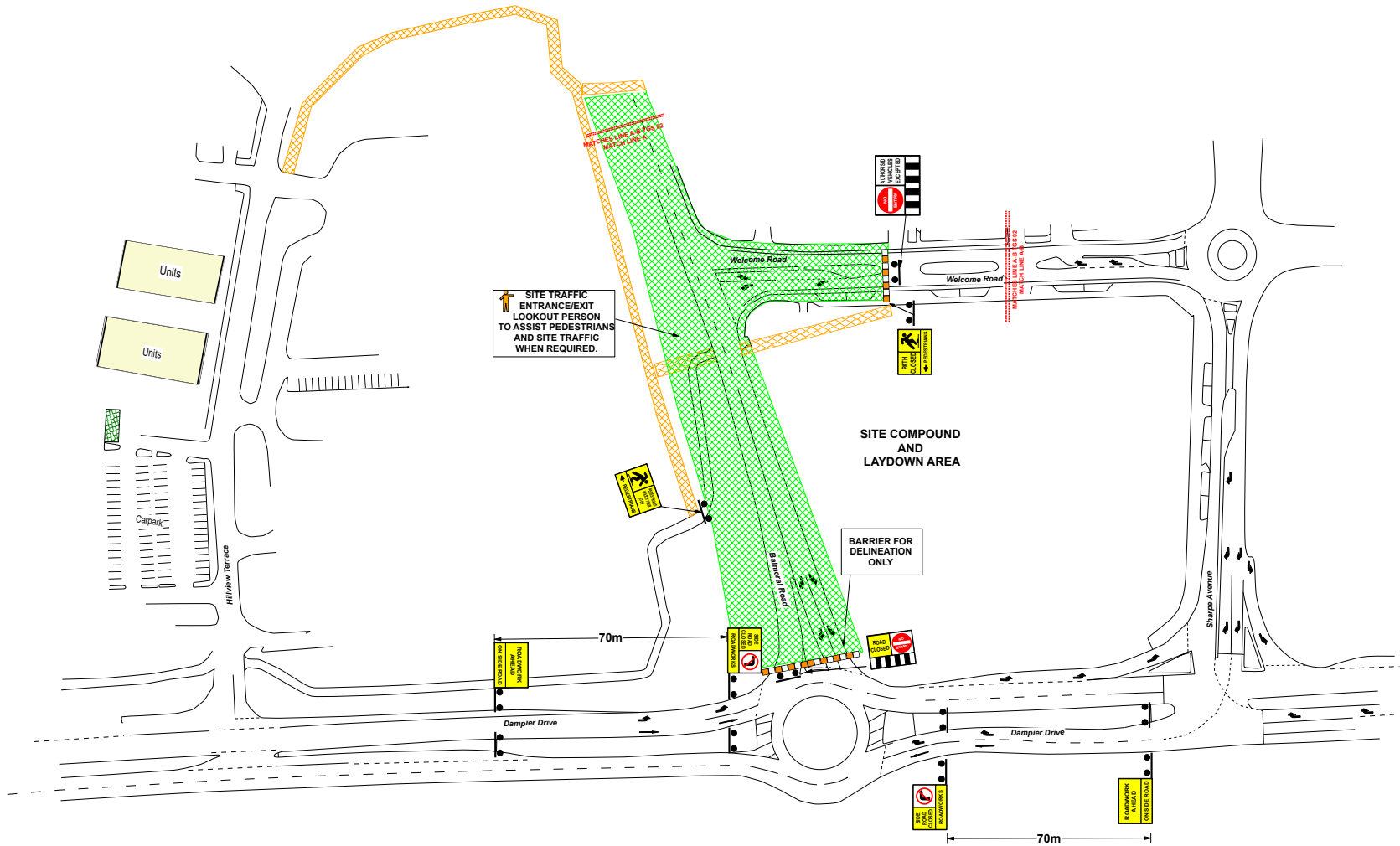
**Date:** 18/03/24 **Designed By:** Karen Bell AWTM 23-8589-02 **Signed:** *Karen Bell* **TGS:** SJTM 2291- 01a  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade **Posted Speed:** 40- 60km/h  
**Work Stage:** Stage 1b - Water Relocation - road closures - shuttle flow  
**Location:** Hillview Road and Balmoral Road Upgrade **Temporary Speed:** 40km/h  
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▲  
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Legend	
	Cone
	Existing footpath
	Safety Buffer
	Temp Footpath
	Water Filled Barrier
	Work Area




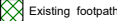

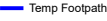


**Date:** 12/07/23 **Designed By:** Angela Anders AWTM 20-38305-06 **Signed:** *Angela Anders* **TGS:** SJTM 2291. 02a  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade  
**Work Stage:** Stage 2 - Construction with road closures.  
**Location:** Hillview Road and Balmoral Road Karatha  
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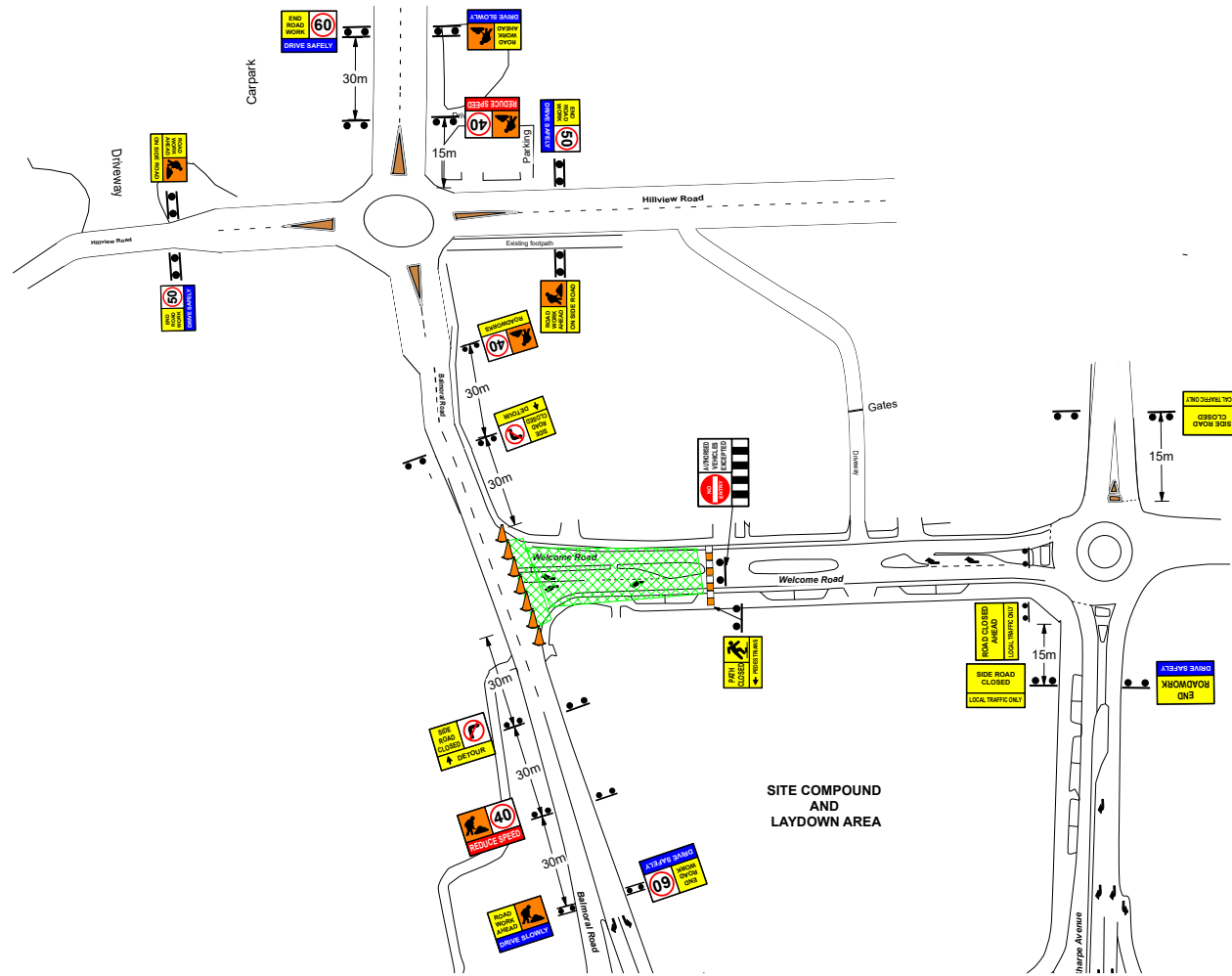
**Posted Speed:** 40km/h, 50km/h  
 60km/h, 70km/h  
**Temporary Speed:** N/A

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**Legend**

-  Cone
-  Existing footpath
-  Safety Buffer
-  Temp Footpath
-  Water Filled Barrier
-  Work Area



**Date:** 18/03/24 **Designed By:** Karen Bell AWTM 23-8589-02  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade  
**Work Stage:** Stage 2 Verge Works and Road closure  
**Location:** Hillview Road and Balmoral Road Upgrade  
**Disclaimer:**  
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**Signed:** Karen Bell TGS: SJTM 2291-02b  
**Posted Speed:** 60km/h  
**Temporary Speed:** 40km/h









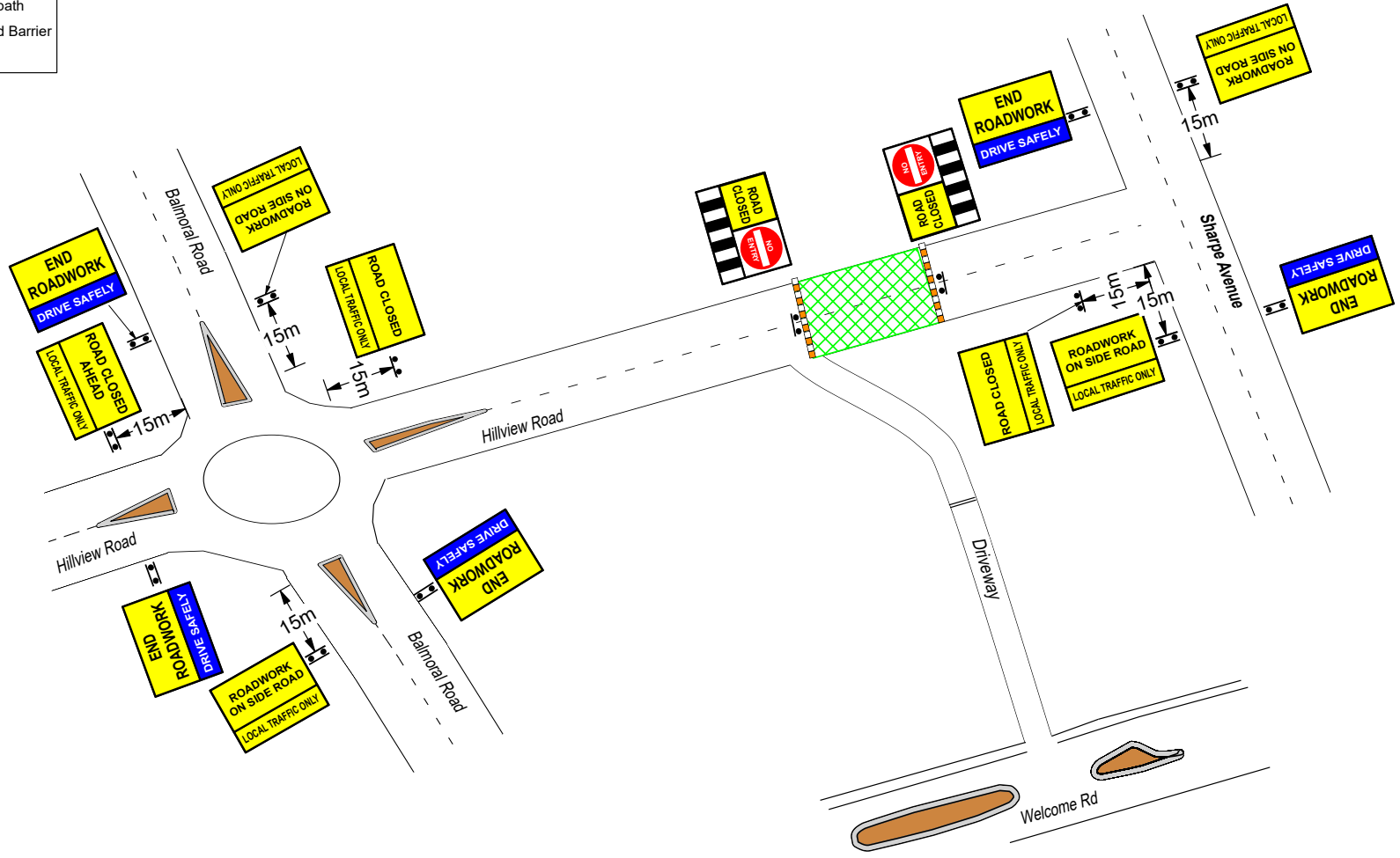
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Legend	
	Cone
	Existing footpath
	Safety Buffer
	Temp Footpath
	Water Filled Barrier
	Work Area



**Date:** 18/03/24 **Designed By:** Karen Bell AWTM 23-8589-02  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade  
**Work Stage:** Stage 4 Road closure  
**Location:** Hillview Road and Balmoral Road Karratha  
**Disclaimer:**

**Signed:** *Karen Bell* **TGS:** SJTM 2291- 04  
**Posted Speed:** 50km/h

**Temporary Speed:** N/A

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NOT TO SCALE

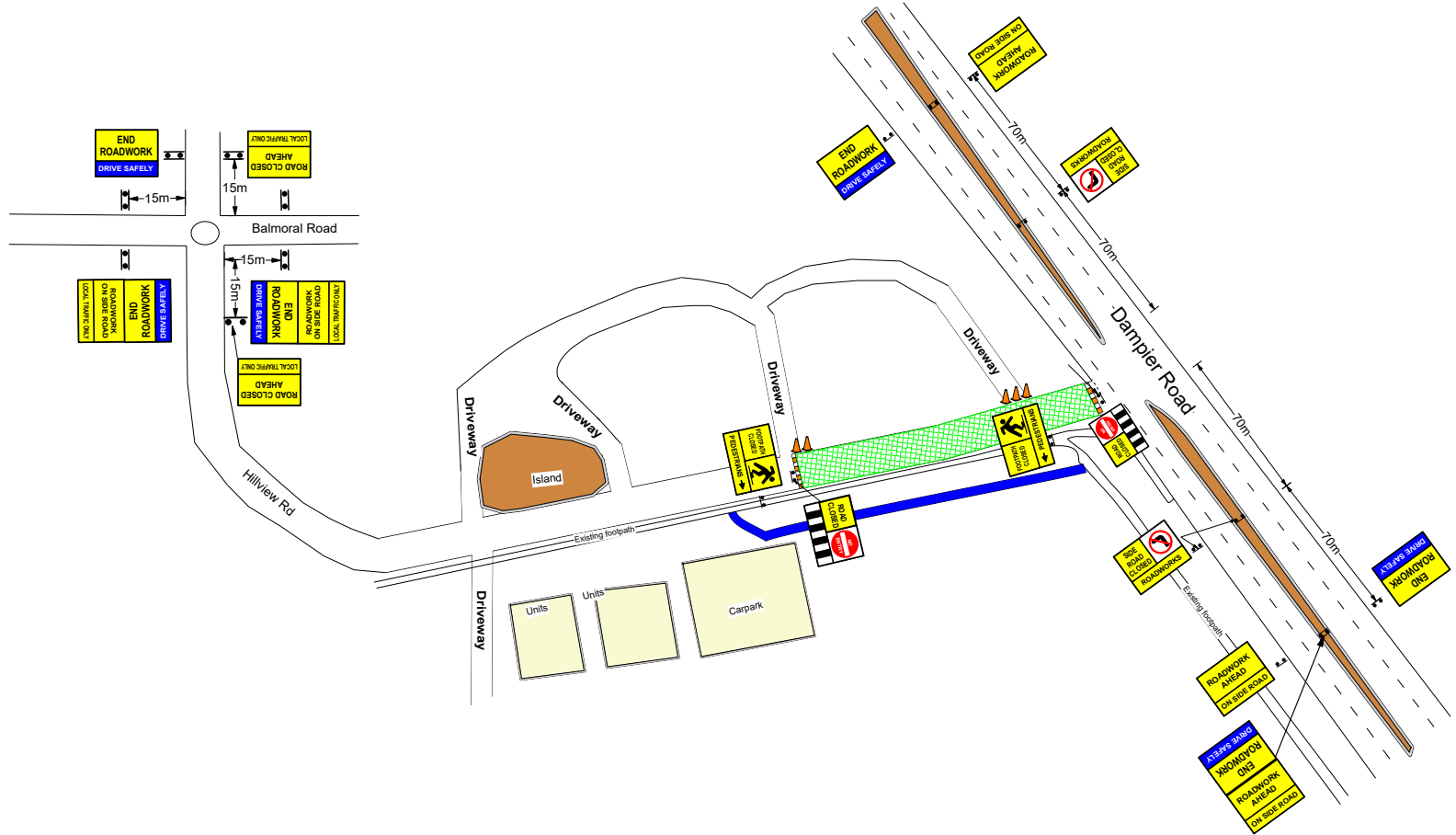
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**Legend**

-  Cone
-  Existing footpath
-  Safety Buffer
-  Temp Footpath
-  Water Filled Barrier
-  Work Area



**Date:** 18/03/24 **Designed By:** Karen Bell AWTM 23-8589-02  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade  
**Work Stage:** Stage 6 Road closure

**Signed:** *Karen Bell* **TGS:** SJTM 2291- 06  
**Posted Speed:** 50km/h 70km/h

**Location:** Hillview Road and Balmoral Road Karratha

**Temporary Speed:** N/A

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Legend	
	Cone
	Existing footpath
	Safety Buffer
	Temp Footpath
	Water Filled Barrier
	Work Area

ONLY TO BE USED WITH TGS 2291.01

**Notes:**

- TC must not stand within red.
- TC may stand within orange 3m from live traffic.
- TC recommended to stand within green 3m from live traffic.
- Stop bat shall be placed next to PTC

**PTCD THRESHOLD**

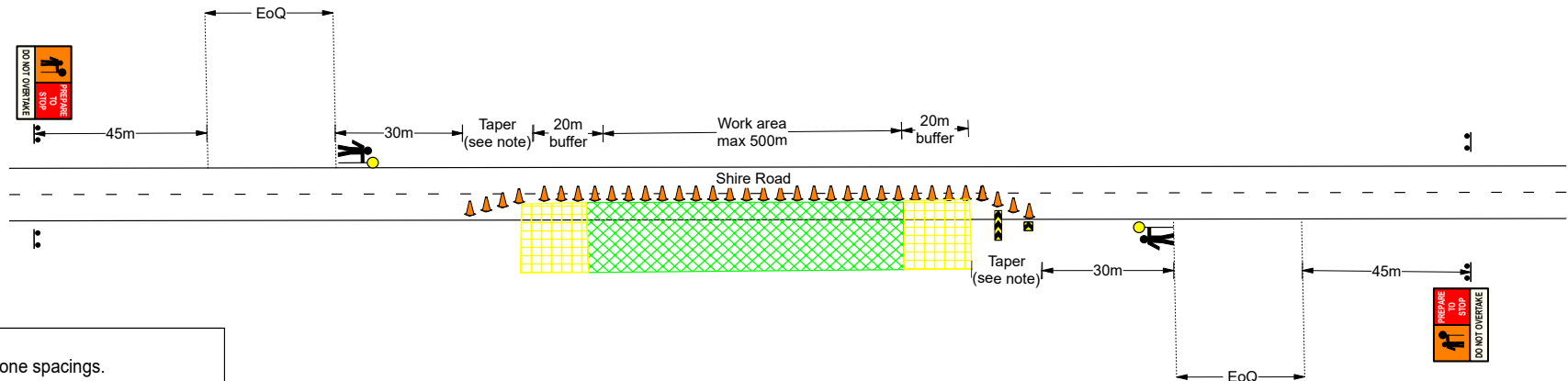
TRAFFIC CONTROLLER INTERCHANGEABLE WITH E STOP TRAFFIC LIGHTS.

OR

WHEN TRAFFIC CONTROLLER IS EXCHANGED WITH E STOP TRAFFIC LIGHTS. PREPARE TO STOP / BATMAN TO BE INTERCHANGED WITH PREPARE TO STOP TRAFFIC LIGHT.

Traffic Controller

TRAFFIC CONTROLLER THRESHOLD



**Notes:**


- 4m long line cone spacings.
- 4m taper cone spacings.
- All Conflicting signs to be covered.
- EoQ is to be monitored and determined on site and should not pass through roundabouts.
- Tapers for posted speeds 46km/h-55km/h shall have a taper length of 15m
- Tapers for posted speeds 56km/h-65km/h shall have a taper length of 30m


	<p><b>Date:</b> 18/03/24 <b>Designed By:</b> Karen Bell AWTM 23-8589-02 <b>Signed:</b> <i>Karen Bell</i> <b>TGS:</b> SJTM 2291- 07</p> <p><b>Client:</b> BCP Group <b>Project:</b> Hillview Road and Balmoral Road Upgrade <b>Posted Speed:</b> 40km/h- 60km/h</p> <p><b>Work Stage:</b> Shuttle flow</p> <p><b>Location:</b> Hillview Road and Balmoral Road Karratha <b>Temporary Speed:</b> N/A</p> <p><b>Disclaimer:</b></p>		<ol style="list-style-type: none"> <li>1. All sign locations are to be checked prior to setout and positions adjusted to allow for specific site constraints such as vegetation, other signs, roadside furniture and sufficient space on shoulders.</li> <li>2. The positioning of signs, lengths of tapers or markings shall be:                             <ol style="list-style-type: none"> <li>a) Minimum 10% less than the distances or lengths given.</li> <li>b) Maximum 25% more than the distances or lengths given.</li> </ol> </li> <li>3. This traffic guidance scheme shall be read in conjunction with the traffic management plan, AS1742.3 and Main Roads WA Traffic Management for Works on Roads Code of Practice</li> </ol>
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**Legend**

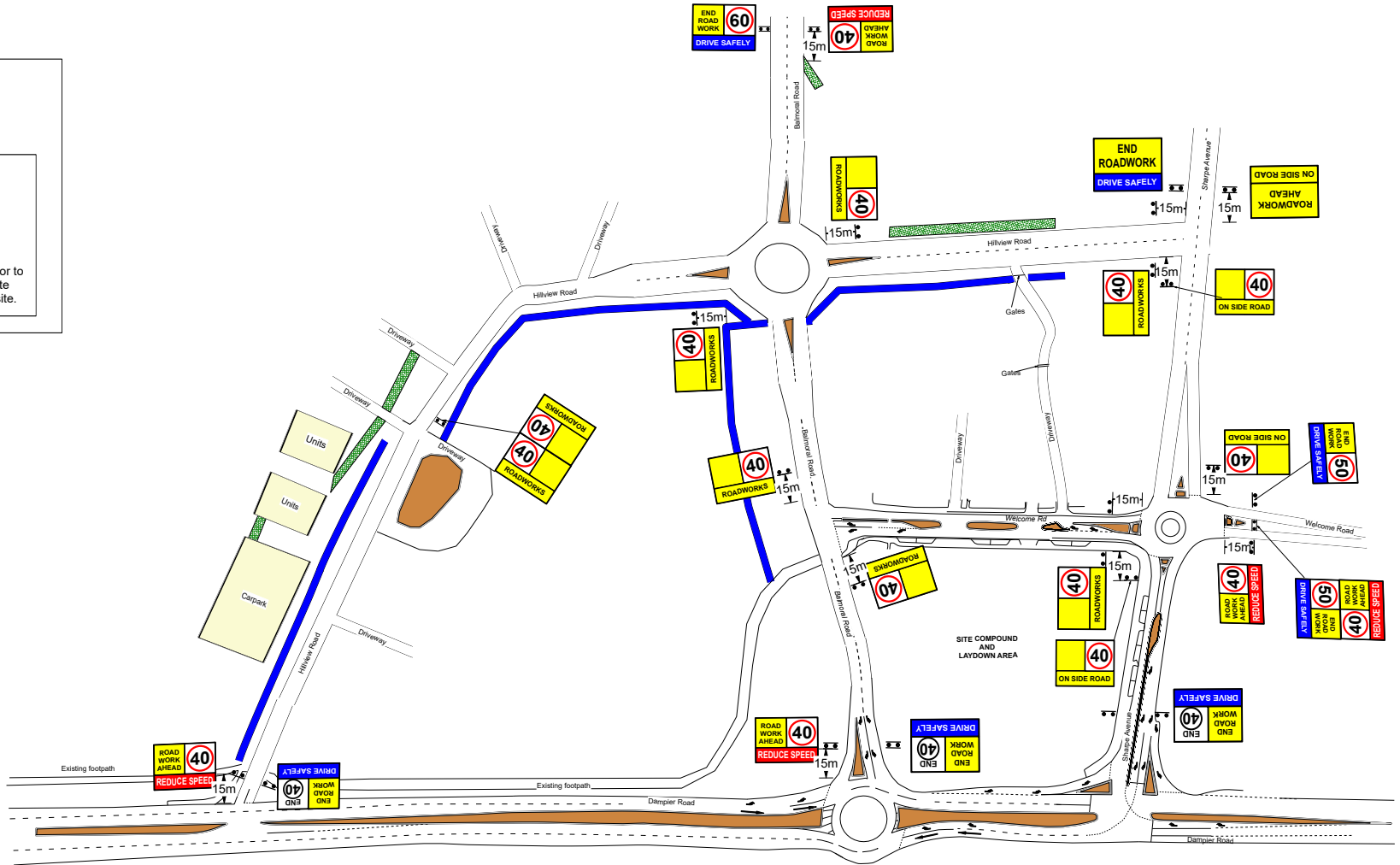
-  Cone
-  Existing footpath
-  Safety Buffer
-  Temp Footpath
-  Water Filled Barrier
-  Work Area

to be swapped out with aftercare.

  
SOFT EDGES

  
LOOSE SURFACE

WTM and site supervisor to determine appropriate corflute for aftercare site.



**Date:** 18/03/24 **Designed By:** Karen Bell AWTM 23-8589-02 **Signed:** *Karen Bell* **TGS:** SJTM 2291-08  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade **Posted Speed:** 40km/h, 70km/h  
**Work Stage:** Aftercare with Speed reduction **Temporary Speed:** 40km/h  
**Location:** Hillview Road and Balmoral Road Karratha  
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**Legend**

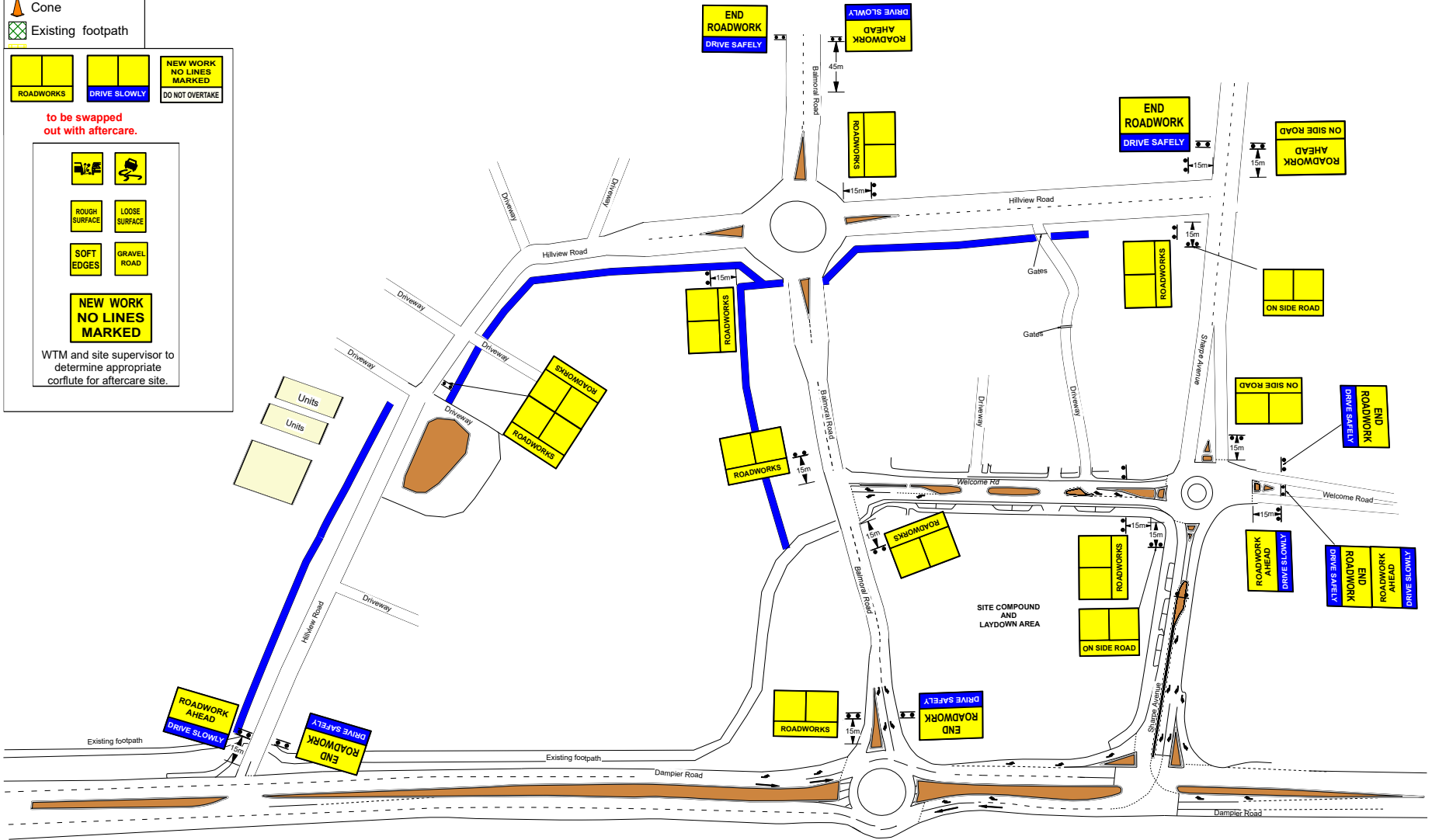
- Cone
- Existing footpath

ROADWORKS	DRIVE SLOWLY	NEW WORK NO LINES MARKED DO NOT OVERTAKE
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to be swapped out with aftercare.

ROUGH SURFACE	LOOSE SURFACE
SOFT EDGES	GRAVEL ROAD
NEW WORK NO LINES MARKED	

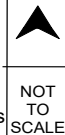
WTM and site supervisor to determine appropriate corflute for aftercare site.



**Date:** 18/03/24 **Designed By:** Karen Bell AWTM 23-8589-02  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade  
**Work Stage:** Aftercare with no Speed reduction  
**Location:** Hillview Road and Balmoral Road Karratha  
**Disclaimer:**

**Signed:** *Karen Bell* **TGS:** SJTM 2291- 09  
**Posted Speed:** 40km/h, 70km/h  
**Temporary Speed:** N/A

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**Stage 1,3,4 & 5**

**VMS MESSAGES**

<b>ROADWORKS AHEAD</b>	<b>05 APR - 30 AUG 7AM - 7PM</b>
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Date may be changed as required

**Stage 2**

**VMS MESSAGES**

<b>BALMORAL ROAD CLOSED</b>	<b>FIND ALTERNATIVE ROUTE</b>
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**VMS MESSAGES**

<b>BALMORAL ROAD CLOSED</b>	<b>FROM (DATE) (DATE)</b>
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Date may be changed as required

**Stage 6**

**VMS MESSAGES**

<b>HILLVIEW ROAD CLOSED</b>	<b>FIND ALTERNATIVE ROUTE</b>
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**VMS MESSAGES**

<b>HILLVIEW ROAD CLOSED</b>	<b>FROM (DATE) (DATE)</b>
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Date may be changed as required



**Date:** 19/07/23 **Designed By:** Karen Bell AWTM 23-8589-02  
**Client:** BCP Group **Project:** Hillview Road and Balmoral Road Upgrade  
**Work Stage:** VMB Placements  
**Location:** Dampier Road  
**Disclaimer:**

**Signed:** *Karen Bell* **TGS:** SJTM 2291- 10  
**Posted Speed:** 70 km/h  
**Temporary Speed:** N/A



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