

# FlexFence to MashFlex® WRSB Upgrade

Upgrade your FlexFence to new crash test standard MASH TL4

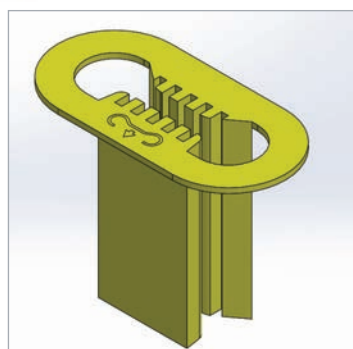
**MASH TL4 COMPLIANT**

Upgrade your existing FlexFence Wire Rope Safety Barrier (WRSB) system to the MASH TL4 compliant MashFlex WRSB in a cost-efficient way with a simple upgrade kit.

Existing runs of TL3 or TL4 Flexfence can be upgraded with the upgrade kit while reusing the existing cables, post footings and anchor blocks. The kit consists of a sleeve packer and stiffening insert, making the old post footing compliant. The standard MashFlex post and post-cap can then be installed into the old foundation

## Features & Benefits

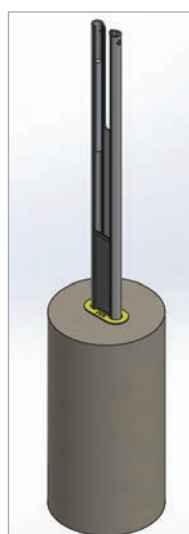
- **Extremely cost-efficient upgrade**  
Concrete installation and cables are a significant cost portion of a new WRSB install.
- **No need to pour new concrete footings**  
Existing FlexFence concrete post footings can be used to upgrade to the superior MashFlex system.
- **All standard components**  
After upgrade kit has been installed, the run will use all standard MashFlex components.
- **Reuse the existing FlexFence cable**  
Depending on age and condition, the FlexFence cables can be reused in the MashFlex install.
- **Reduce traffic control**  
Fast and efficient changeover means reduced traffic control measures - meaning reduced live traffic exposure for work crews and reduced traffic interruption.
- **Reduce installation costs**  
No new concrete required, no new wire rope required, fast changeover and less traffic control all results in less labour
- **Utilise your existing TL3 Terminals**  
No additional posts or anchor blocks required to update your FlexFence TL3 Terminal to MashFlex.



1. Plastic stiffening insert



2. Insert packer and stiffening insert before post



3. With upgrade kit, all standard MashFlex components can be used



# FlexFence to MashFlex® Upgrade

## MashFlex®

**MASH TL4 COMPLIANT**

### Flexfence to MashFlex Upgrade - Installation Checklist

Customer:

Project:

Fence ID:

Fence Length:

Ambient Temperature:

Tensioning Force:

Fence Length:

Signed:

Date:

#### End Anchors

Is the anchor block dimensions in accordance with Ingal drawings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Has the anchor cable locking bolt been installed with nuts tightened to snug	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Has each end fitting been secured with one washer and two nuts	<input type="checkbox"/> Yes	<input type="checkbox"/> No

#### End Terminal Posts

Have the posts been installed at the correct spacing (WR-STD-89)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Have the posts been installed with the correct orientation towards approaching traffic	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Have ground covers been attached to the posts	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Have steel spacers been inserted between each cable	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Has the stainless frame been inserted between the top and second from top cable	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Have post caps been attached to the posts	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Has delineation been attached to the post caps	<input type="checkbox"/> Yes	<input type="checkbox"/> No

#### Cable

If reusing existing cable, has the cable been examined for damage (Table 6 of MashFlex manual)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
--	------------------------------	-----------------------------

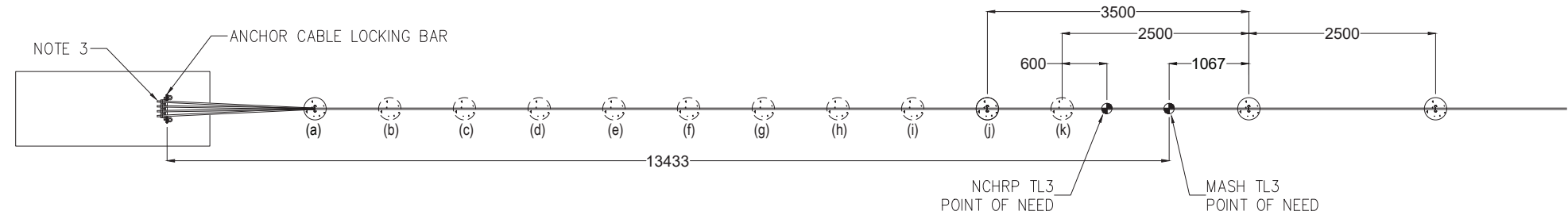
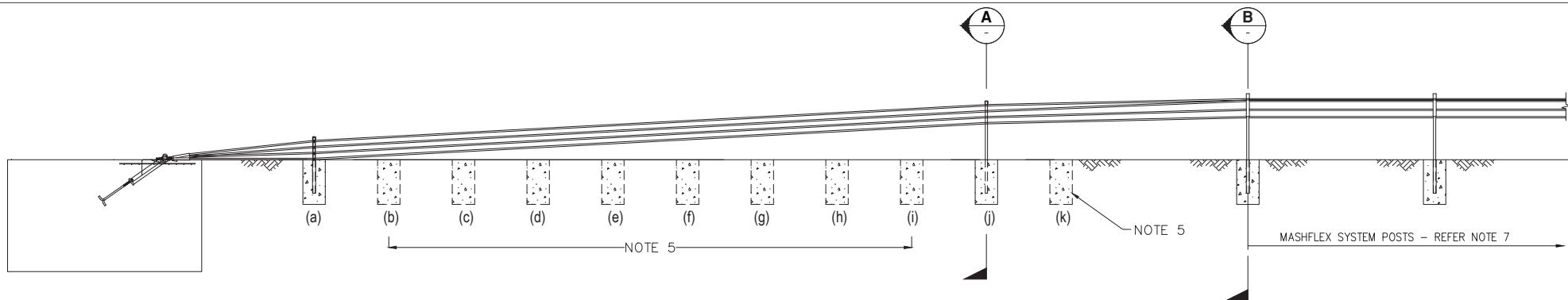
#### Tension Bays

Have tension bays been installed at not more than 150m from the end anchors	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Have tension Bays been installed at not more than 300m apart	<input type="checkbox"/> Yes	<input type="checkbox"/> No

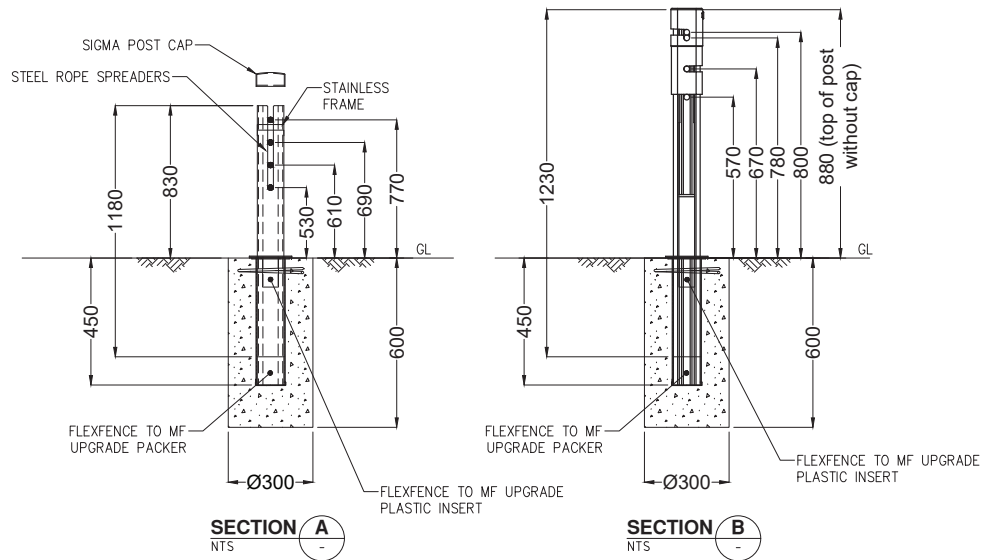
#### MashFlex Posts

Has a MashFlex plug been inserted into each cap	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the cable order consistent throughout the run	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Has the upgrade plastic insert been installed to ground level with all posts	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Has delineation been attached to the post caps	<input type="checkbox"/> Yes	<input type="checkbox"/> No






ITEM No.	POST LENGTH
a	700
j	1180



#### NOTES:

- DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE STATED.
- TO BE READ IN CONJUNCTION WITH THE MASHFLEX PRODUCT MANUAL
- BOTTOM CABLE TO BE INSERTED INTO ANCHOR BRACKET SLOT NEAREST TRAFFIC. REFER SECTION 6.6 OF MASHFLEX PRODUCT MANUAL
- CABLE LOCKING BAR TO BE INSERTED INTO ANCHOR BRACKET.
- NO POSTS TO BE INSTALLED AT LOCATIONS (b) THRU (i) AND (k).
- STEEL ROPE SPREADERS TO BE USED AT LOCATIONS (d) AND (j).
- FOR MASHFLEX POST ASSEMBLY, REFER DRAWING WR-MF-001.

REVISIONS						REFERENCES		NAME		DATE	 DRAWING AND CONTENTS ARE COPYRIGHT TO INGAL CIVIL PRODUCTS AND CAN ONLY BE USED WITH PRIOR WRITTEN CONSENT FROM INGAL CIVIL PRODUCTS 57-65 AIRDS ROAD MINTO, N.S.W 2566 PH. +61 2 9827 3333 www.ingalcivil.com.au	PROJECT	INGAL CIVIL PRODUCTS PART No.
REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED	DRAWING NUMBER	REFERENCE DRAWINGS	SCALE	N.T.S. @	A3		TITLE	DRAWING No.
1	08/08/2021	ADDED UPGRADE PACKER AND PLASTIC INSERT. NOTES UPDATED	VB	LG	LG							FLEXFENCE WRSB UPGRADE TO MASHFLEX GENERAL ARRANGEMENT	N/A

F:\ENGINEERING\SALES & MARKETING\DRAWINGS\FLEXFENCE ASSEMBLY\WR-STD-89 - FLEXFENCE MASH UPGRADE.DWG

www.ingalcivil.com.au  
sales@ingalcivil.com.au

• Sydney (02) 9827 3333  
• Melbourne (03) 9358 4100  
• Perth (08) 9452 9111

• Brisbane (07) 3489 9125  
• Adelaide/NT 0438 153 482  
• Local call 1300 446 425

• Wagga 0427 779 588  
• Newcastle 0400 235 883