



# South Morang to Mernda Station



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# Contents

## Overview

**Page 3** Map

**Page 4** Overview

## Legend

**Page 5**

## Route

**Page 6** South Morang Station

**Page 7** McDonalds Road

**Page 8** Middle Gorge Station

**Page 9** Hawkestone Station

**Page 10** The Parkway

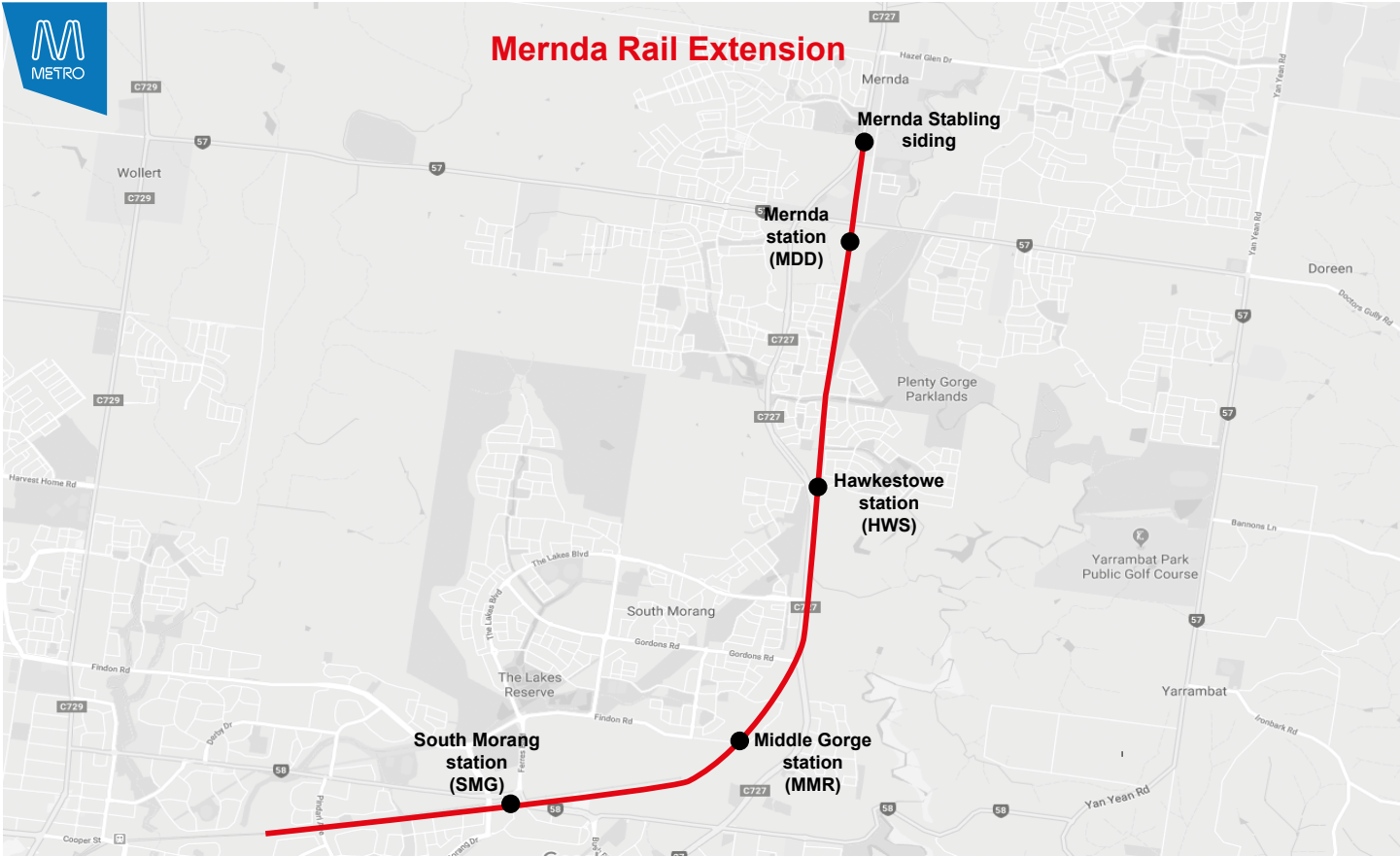
**Page 11** Mernda Station

## New Signals

**Page 12**



# Mernda Rail Extension



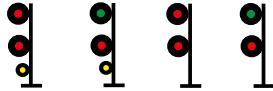
## Overview

- This new rail section is about 8km in length, with 3 new stations – Middle Gorge, Hawkstowe and Mernda
- There is a new stabling siding at the down of Mernda station. It holds 4 roads which can stable 2 6-cars sets each
- Safeworking for this new rail section is ABS
- Track speed – South Morang station to Mernda station: 80km/h; Mernda station to Mernda Stabling Siding: 40km/h; Mernda Stabling Siding: 15km/h
- The new gradients are mainly at 1:40. However the gradient at the down end of Middle Gorge station is 1:55, both up and down ends of The Lakes Boulevard are 1:50
- All new signals are LED type
- The elevated sections span over Hawkstowe Parade, Simon Creek & The Parkway and Bridge Inn Road
- Hawkstowe and Mernda have island platforms on the elevated section.
- Station canopies will be in various locations along different stations. This is to spread passengers loading in inclement weather.
- Axle counters are used from down end of South Morang
- Jumper cables will not be effective in Axle Counter territory
- This new rail section is controlled by Epping signal box.
- Primary communication with signalling panel / signal box is via DTRS. If needed, secondary communication is via phone
- Epping Signal Box phone number is 9610 5650

# Legend



Automatic signal



Home signal & low speed



Home signal & speed diverge indicator



Dwarf signal



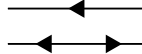
Buffer Stop Light



Start and end of axle counter area

25

Kilometre post



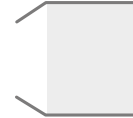
Running lines showing direction

80

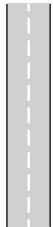
Line speed



Gradient



Cutting or rail under



Overpass



Underpass



Road



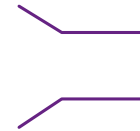
Pedestrian overpass

**Mernda (MND)**

Station name

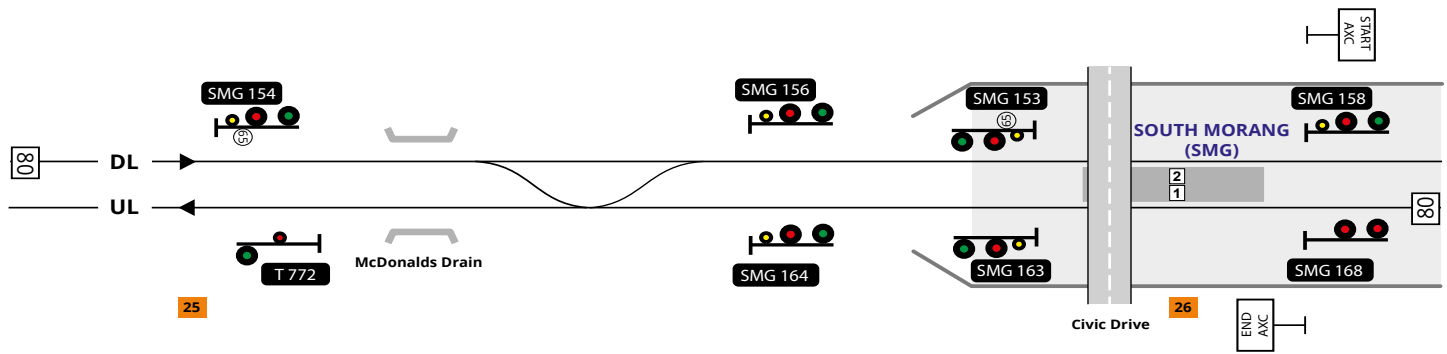


Platform

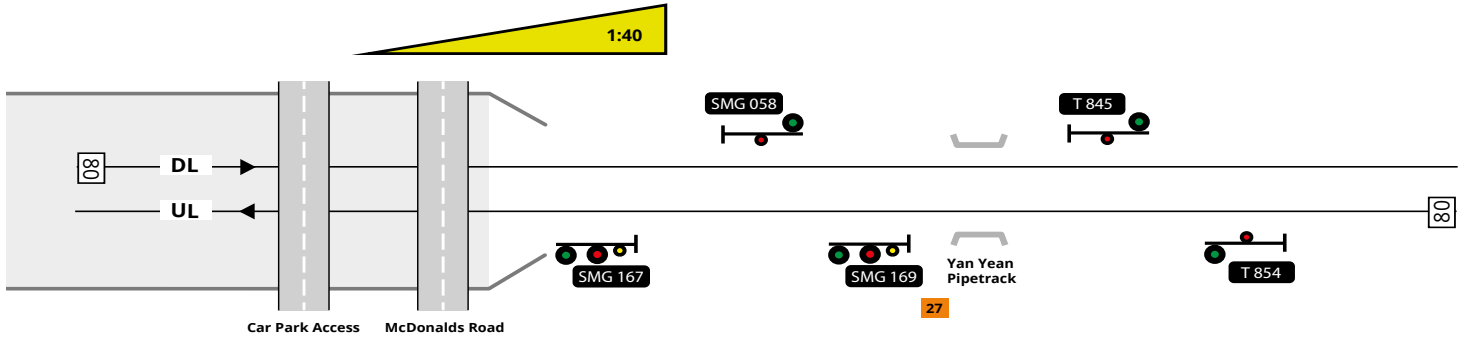


Viaduct of elevated rail track

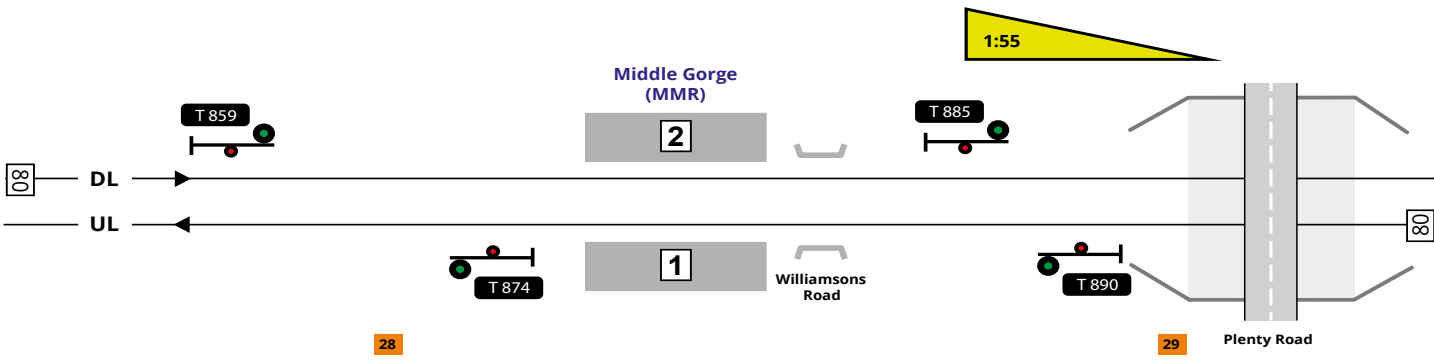
DL Down Line  
 UL Up Line



**DL** Down Line  
**UL** Up Line

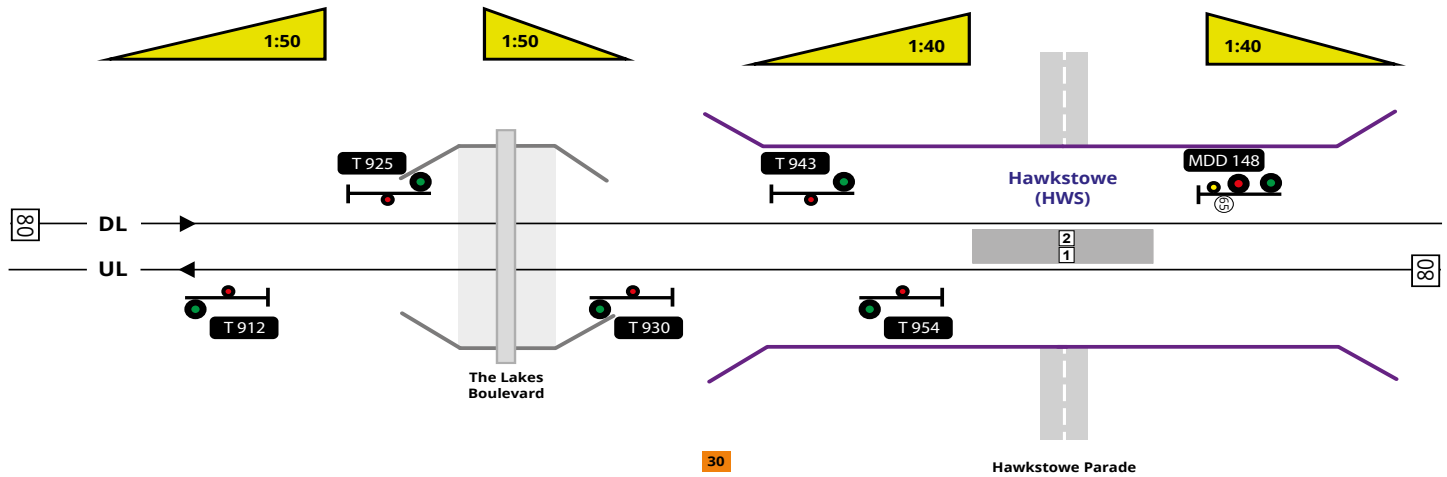


**DL** Down Line  
**UL** Up Line

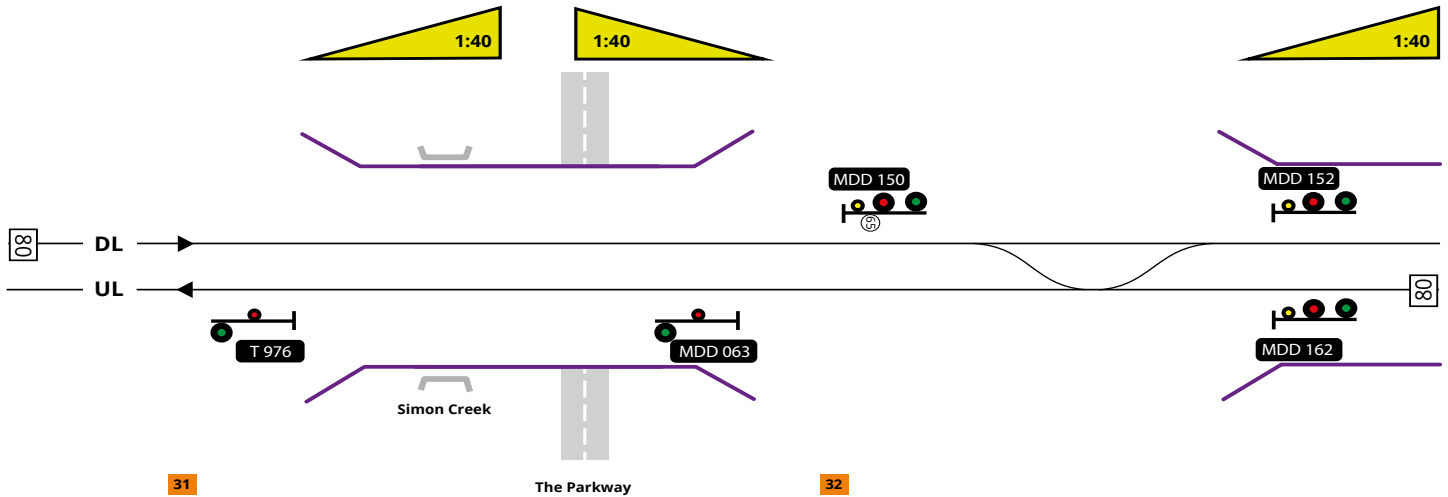




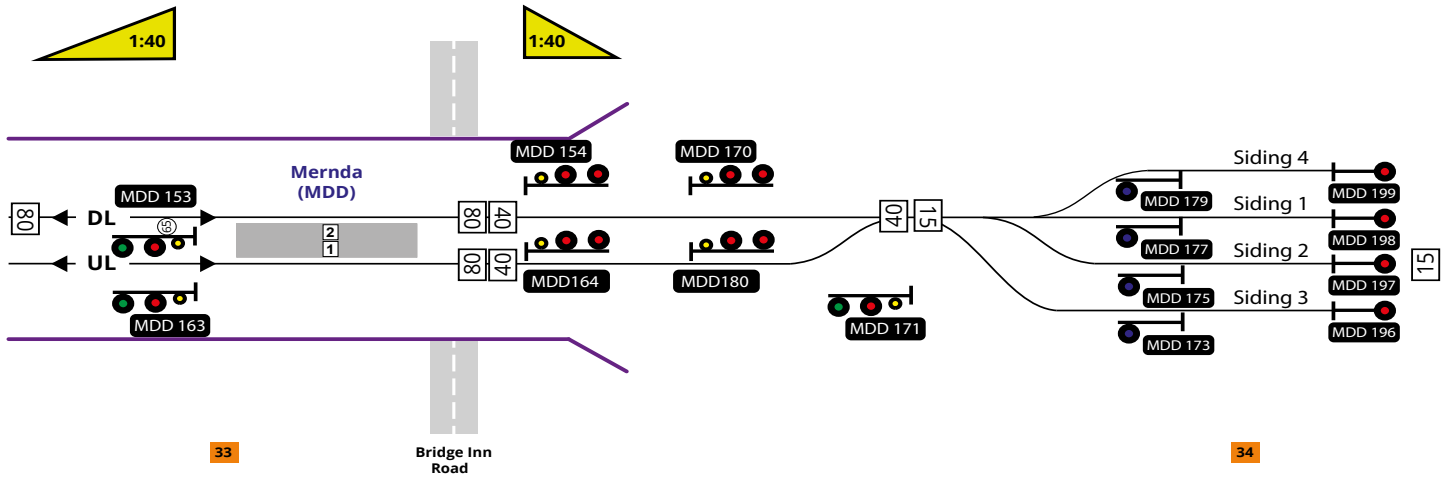
**DL** Down Line  
**UL** Up Line



**DL** Down Line  
**UL** Up Line



DL Down Line  
 UL Up Line



## Down direction

- Home **SMG156** down end of the cross over (parallel to SMG164)
- Home **SMG158** down end of Platform 2 at South Morang station
- Home **SMG168** down end of Platform 1 at South Morang station (Fixed Red)
- Automatic **SMG058** on the ascent from South Morang station
- Automatic **T845** on the top of the ascent after Yan Yean Pipetrack
- Automatic **T859** in the cutting, before the curve which leads to Middle Gorge station
- Automatic **T885** down end of Platform 2 at Middle Gorge station
- Automatic **T925** before The Lakes Boulevard Pedestrian Overpass
- Automatic **T943** at the bottom of the ascent which leads to Hawkstowe station
- Home **MDD148** down end of Platform 2 at Hawkstowe station
- Home **MDD150** at the bottom of the descent after Simon Creek elevated section
- Home **MDD152** down end of the crossover, before Mernda station
- Home **MDD154** down end of Platform 2 at Mernda station
- Home **MDD164** down end of Platform 1 at Mernda station
- Home **MDD170** bottom of the descent from Platform 2 at Mernda station, leads to Mernda Siding
- Home **MDD180** bottom of the descent from Platform 1 at Mernda station, leads to Mernda Siding

## Up direction

- Dwarf **MDD173** Mernda Siding Road 3, leads to MDD171
- Dwarf **MDD175** Mernda Siding Road 2, leads to MDD171
- Dwarf **MDD177** Mernda Siding Road 1, leads to MDD171
- Dwarf **MDD179** Mernda Siding Road 4, leads to MDD171
- Home **MDD171** at the exit to Mernda Siding
- Home **MDD163** up end of Platform 1 at Mernda station
- Home **MDD153** up end of Platform 2 at Mernda station
- Automatic **MDD063** bottom of the ascent to elevated section for Simon Creek
- Automatic **T976** bottom of the descent from elevated section for Simon Creek
- Automatic **T954** up end of Platform 1 at Hawkstowe station
- Automatic **T930** bottom of the ascent which leads to The Lakes Boulevard Pedestrian Overpass
- Automatic **T912** in the cutting, before Plenty Road overpass
- Automatic **T890** on the ascent before Middle Gorge station
- Automatic **T874** up end of Platform 1 at Middle Gorge station
- Automatic **T854** up end of the curve cutting from Middle Gorge station
- Home **SMG169** at the beginning of the descent cutting into South Morang station, after Yan Yean Pipetrack
- Home **SMG167** in the cutting, before McDonalds Road overpass, before entering South Morang station

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