

# ACT Government

## Engineering Advisory Note

EAN 17

### Traffic Control Device (TCD) – Linemarkings/new line types

#### Background

In April 2019 TCCS released the updated Municipal Infrastructure Standards for Traffic Control Devices (*MIS 13 Traffic Control Devices*). The Traffic Control Device (TCD) Grids and linemarking line types were updated to reflect the new standards and terminology. ACT Standard Drawing 3501 Revision 1 (ACTSD-3501-01) linked below depicts the TCCS standards and drawing requirements for pavement markings and linemarking types. To assist industry, a description of the linemarking changes has been described below and a reference drawing has been developed which highlights the linemarking changes. Consultants are required to use the updated TCD standard files for all new projects that commence after 01 March 2023. Projects that commenced before 01 March 2023 can be submitted to TCCS using the superseded TCD standard files during a 6-month transition/grace period. The transition/grace period expires on 31 August 2023.

The new line types are shown in [ACTSD-3501 Rev 1](#).

The updated TCD Grids and new TCD linemarking line types are available for download from the following ProjectWise locations:

- TCD standard files for new line types and Retroreflective Raised Pavement Markers (RRPM) blocks (Link: [TCD2020 new linetypes and RPM blocks](#)).
- TCD Grid base (individual grids) (Link: [GRIDS-Inventory\\_TCD2020 Linetypes](#)).
- TCD Inventory Grid (overall) (Link: [TCD Inventory Grid-All colour.dwg](#)).

A descriptive summary of the changes reflected in [Attachment A](#) are identified below.

## Summary of linemarking line type changes (refer to [Attachment A](#))

### 1. BARRIER LINES

- a. Crossing is permitted in one direction – updated from B4 & B4G to BS and change of line width
- b. Crossing is not permitted – updated from B5 to BB and change of line width

### 2. PARKING LINES (BARRIER LINES)

- a. Parking bay barrier line – updated from B2 to P1
- b. Special use space (reserved parking line, keep clear, accessible parking, loading zones) and DKE intersection treatment when combined with P3 – updated from B3 to P2
- c. Special use space (bus bay, loading zones and taxi ranks) and DKE intersection treatment when combined with P2 – updated from C2 to P3
- d. Parking bay – updated from C3 to P4
- e. DKE (Dynamic Kinematic Envelope) intersection treatment use at road/rail intersections to demarcate DKE – new: P2 on track side and P3 on road side

### 3. CONTINUITY LINES

- a. Merge and diverge, long tapers, acceleration and deceleration tapers – updated from M1 to C1
- b. Typically used to the left of a C1 line at a cycle stand up lane or where approved by Road Authority to provide guidance through signalised intersection – updated from M2 to C2

### 4. TRANSVERSE LINES

- a. Turn line – updated from C1 to T1 and change of line width
- b. Give way line – updated from HL1 to TB
- c. Controlled intersections, short tapers – updated from C1 to TB1
- d. Stop line at traffic signals and school crossings SL1 – change in line width
- e. Stop line at priority intersection – updated from SL2 to TF
- f. Rumble strip – updated from TB to RS
- g. White gore – updated from WG to E6
- h. Pedestrian crosswalk line – updated from XWL to PCW, change in line spacing and line type (solid line to dashed line) and increase in width to 3000 minimum (3600 desirable minimum)
- i. Transverse bicycle crossing with a new line type – TBC
- j. Zebra crossing – updated from ZC to PX and change in dimension length 3500 to 3000 min
- k. Road hump marking – with a new line type – RHM

5. PATH LINES (new)
  - a. Barrier line (tactile marking) – B2T
  - b. Path separation line and path edge line – SP1
  - c. Path separation line – SP2
  - d. Controlled intersections – TB2
  - e. Give way line controlled intersections – TB3
  - f. Stop line at priority intersections – SC2
  
6. SYMBOLS FOR RETRO REFLECTIVE RAISED PAVEMENT MARKER (RRPM)
  - a. Change in symbol of RPM\_YU
  - b. Change in symbol of RPM\_YB
  - c. Change in symbol of RPM\_YBD
  
7. LINE TYPE SCALE FACTOR
  - a. LTSCALE = 1

## Attachment A

Linemarking changes reference drawing.

## Administrative Arrangement

This Engineering Advisory Note will take effect from the latest date of endorsement by the Authorised person/s.

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**Endorsed by:**




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LINEMARKING GUIDE								
ACT LINE TYPE	RMS LINE TYPE	CAD CODE	LINE USE	LINE DIMENSION	LINE WIDTH	LINE COLOUR	TYPICAL RRPM SPACING	MATERIAL
<b>BARRIER LINES</b>								
B1	E4/E5	B1	BARRIER LINE (REFER ACTSD-3506)		150	WHITE	IF & AS SPECIFIED	PAINT
BS	BS	BS & BSG	CROSSING IS PERMITTED IN ONE DIRECTION		100, 100 GAP, 100	WHITE	* 12000 ** 24000	PAINT
BB	BB	BB	CROSSING IS NOT PERMITTED		100, 100 GAP, 100	WHITE	* 12000 ** 24000	PAINT
<b>PARKING LINES (BARRIER LINES)</b>								
P1	-	P1	PARKING BAY BARRIER LINE		80	WHITE	-	PAINT
P2	-	P2	SPECIAL USE SPACE (RESERVED PARKING LINE, KEEP CLEAR, ACCESSIBLE PARKING SPACES, LOADING ZONES) AND DKE INTERSECTION TREATMENT		80	YELLOW	-	PAINT
P3	-	P3	SPECIAL USE SPACE (BUS BAYS, LOADING ZONES AND TAXI RANKS) AND DKE INTERSECTION TREATMENT		150	YELLOW	-	LLM
P4	-	P4	PARKING BAY		80	WHITE	-	PAINT
P2 & P3	-	P2 & P3	DKE (DYNAMIC KINEMATIC ENVELOPE) INTERSECTION TREATMENT USE AT ROAD/RAIL INTERSECTIONS TO DEMARCAT DKE. P2 ON TRACK SIDE AND P3 ON ROAD SIDE		80, 150 GAP, 100	YELLOW	-	LLM
<b>CONTINUITY LINES</b>								
C1	C1	C1	MERGE AND DIVERGE SITUATIONS, LONG TAPERS, ACCELERATION & DECELERATION TAPERS		150	WHITE	8000	LLM
C2	C1	C2	TYPICALLY USED TO THE LEFT OF A C1 LINE AT A CYCLE STAND UP LANE OR WHERE APPROVED BY THE ROAD AUTHORITY TO PROVIDE GUIDANCE THROUGH SIGNALISED INTERSECTION		150	WHITE	-	LLM
<b>DIVIDING LINES</b>								
S1	S1	S1-24	(i) RURAL ROADS		100	WHITE	* 12000 ** 24000	PAINT
	S1	S1-12	(ii) ALL OTHER ROADS		100	WHITE	12000	PAINT
	S1	SLL	(iii) LOCAL ROADS WHERE RRPM DELINEATION IS NOT REQUIRED		100	WHITE	-	PAINT
S6	-	S6	RURAL ROAD CENTRELINE OR SPECIAL USE AT INTERSECTIONS (ONLY TO BE USED WHERE APPROVED BY THE ROAD AUTHORITY)		150	WHITE	12000	PAINT
<b>EDGE LINES</b>								
E1	-	E1	EDGE LINE LEFT HAND SIDE		150	WHITE	31000	PAINT
E3	-	E3	DIVIDED ROAD RIGHT HAND SIDE		150	WHITE	31000	PAINT
<b>LANE LINES</b>								
L1	L1	L1	RURAL ROADS AND ARTERIALS		100	WHITE	* 12000 ** 24000	PAINT
L4 (150 WIDE)	L4	L4	EXIT LANE MARKING ON ROUNDABOUT		150	WHITE	IF & AS SPECIFIED	LLM
L8	L1	L8	ARTERIAL		100	WHITE	* 12000 ** 24000	PAINT
L9	L1	L9	ARTERIAL SPECIAL CONDITIONS		100	WHITE	12000	LLM
<b>TRANSVERSE LINES</b>								
T1	T1	T1	TURN LINE		100	WHITE	-	LLM
TB	TB	TB	GIVE WAY LINE AT CONTROLLED INTERSECTIONS		300	WHITE	-	LLM
TB1	TB1	TB1	CONTROLLED INTERSECTIONS, SHORT TAPERS		150	WHITE	IF & AS SPECIFIED	LLM
SL1	-	SL1	STOP LINE AT TRAFFIC SIGNALS AND SCHOOL CROSSINGS		600	WHITE	-	LLM
TF	TF	TF	STOP LINE AT PRIORITY INTERSECTIONS		300	WHITE	IF & AS SPECIFIED	LLM
RS	-	RS	RUMBLE STRIP - SPEED REDUCTION MEASURE (ONLY TO BE USED WHERE APPROVED BY THE ROAD AUTHORITY)		600	WHITE	-	LLM
E6	E6	E6	WHITE GORE		-	WHITE	-	PAINT
PCW	PCW	PCW	PEDESTRIAN CROSSWALK LINE		150	WHITE	-	LLM
TBC	TBC	TBC	TRANSVERSE BICYCLE CROSSING		400	WHITE	IF & AS SPECIFIED	LLM
PX	PX	PX	ZEBRA CROSSING		600	WHITE	IF & AS SPECIFIED	LLM
RHM	RHM	RHM	ROAD HUMP MARKING		200	WHITE	-	LLM
<b>PATH LINES</b>								
B2T	-	B2T	BARRIER LINE (TACTILE MARKING)		150 150x150 SQ	WHITE	-	LLM
SP1	-	SP1	PATH SEPARATION LINE AND PATH EDGE LINE		80	WHITE	-	PAINT
SP2	-	SP2	PATH SEPARATION LINE		80	WHITE	-	PAINT
TB2	-	TB2	CONTROLLED INTERSECTIONS		100	WHITE	-	PAINT
TB3	-	TB3	GIVE WAY LINE CONTROLLED INTERSECTIONS		200	WHITE	-	PAINT
SC2	-	SC2	STOP LINE AT PRIORITY INTERSECTIONS		200	WHITE	-	PAINT

SYMBOLS FOR RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM)					
MARKER OR TERM	COLOUR	CAD CODE	SYMBOL	OLD SYMBOL	APPLICABLE STANDARD
RETRO-REFLECTIVE RAISED PAVEMENT MARKER (RRPM) UNIDIRECTIONAL	WHITE	RPM_WU			AUST STD
	YELLOW	RPM_YU			AUST STD
	RED	RPM_RU			AUST STD
	GREEN	RPM_GU			AUST STD
	GREEN SOLAR	RPM_GU_SOLAR			ACT SPECIFIC
BIDIRECTIONAL	WHITE	RPM_WB			AUST STD
	YELLOW	RPM_YB			AUST STD
	YELLOW	RPM_YBD			AUST STD
	BLUE	RPM_BB			ACT SPECIFIC

**NOTES:**


- THIS REFERENCE DOCUMENT IS AN APPENDIX TO ENGINEERING ADVISORY NOTICE 17. THIS REFERENCE IS TO ASSIST IN THE TRANSITION FROM DS9-01 TO ACTSD-3501.
- UPDATES AND ADDITIONS HAVE BEEN HIGHLIGHTED WITH REVISION CLOUDS(RevCloud).
- THIS DOCUMENT IS NOT A STANDARD DRAWING, PLEASE REFER TO THE LATEST STANDARD DRAWING.



**ACT Government**

**REFERENCE DRAWING**

**LINEMARKING CHANGES REFERENCE**

Authorised:  02 February 2023		
Latest Revision Details		
Rev	Amendment	Date
Drawing No. <b>EAN-17</b>		Revision