

15_14 Operating Instruction for 3-Centered Curve Module

Question:

At one time I think you all had instructions for how to use the 3-centered curve module on the net. I can't find it anymore. Do you still have them somewhere?

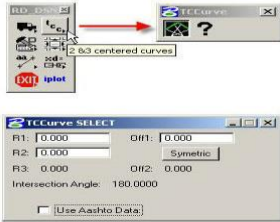
Answer:

The mentioned instructions for the Three Centered Curve MDL Application is for the previous version. The following updated set of operating instructions will be published on the Roadway Web Site. It is located under our **Index** and **Guidelines** links.

OPERATING INSTRUCTIONS:

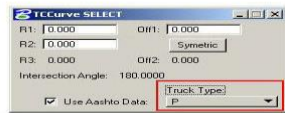
Step 1.

Load the Three Centered Curve Application by clicking RD_DSN ---> RD_MDLApps ---> TTCurve toolbox.



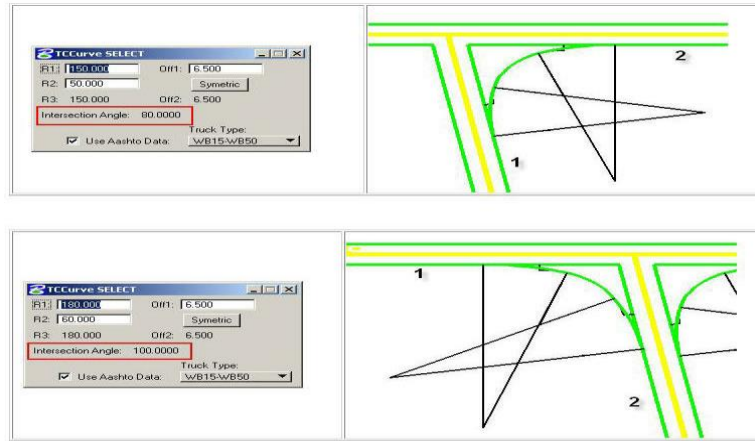
Step 2.

Check **Use AASHTO Data** and select the **Truck Type** to analyze.



Step 3.

Lastly, select the two EOT elements base on the order of traffic movement.



After selecting the second EOT element, note the intersection angle outlined in red. The Three Centered Curve MDL Application reference **Exhibit 9-2. Edge of Traveled Way for Turns at Intersection** in the 2004 AASHTO Manual. In the above examples, the intersection angle 90° will have a TTC WB-50 symmetrical dimension values of 150-50-50, Offset 6.5 because the intersection angle fall inbetween (90&W,2&C) 90°. In the second example, the intersection angle of 100° will have a TTC WB-50 symmetrical dimension values of 180-60-180 Offset 6 because the intersection angle fall inbetween (90&W,2&C) 90° to 105°. It

Angle of turn (degrees)	Design vehicle	Metric				Angle of turn (degrees)	Design vehicle	US Customary			
		3-centered compound Curve radii (m)	Symmetrical offset (m)	3-centered compound Curve radii (m)	Asymmetrical offset (m)			3-centered compound Curve radii (ft)	Symmetrical offset (ft)	3-centered compound Curve radii (ft)	Asymmetrical offset (ft)
75	SU	30-8-30	0.6	—	—	75	SU	100-25-100	2.0	—	—
	WB-12	36-14-36	1.5	36-14-60	0.6-2.0		WB-40	120-45-120	5.0	120-45-195	2.0-6.5
	WB-15	45-19-45	2.0	45-19-60	0.6-3.0		WB-50	150-60-150	6.5	150-60-225	2.0-10.0
	WB-19	134-23-134	4.5	43-30-165	1.5-3.6		WB-62	440-75-440	15.0	140-100-540	5.0-12.0
	WB-20	198-23-128	3.0	61-24-183	0.3-3.0		WB-67	425-75-420	10.0	200-80-600	1.0-10.0
	WB-30T	76-24-76	1.4	30-24-91	0.5-1.5		WB-100T	250-80-250	4.5	100-80-300	1.5-5.0
WB-33D	213-38-213	2.0	46-34-168	0.6-3.6	WB-109D	700-125-700	6.5	100-110-550	1.5-11.5		
90	P	30-6-30	0.6	—	—	90	P	100-20-100	2.5	—	—
	SU	36-12-36	0.6	—	—		SU	120-40-120	2.0	—	—
	WB-12	36-12-36	1.5	36-12-60	0.6-2.0		WB-40	120-40-120	5.0	120-40-200	2.0-6.5
	WB-15	55-18-55	2.0	36-12-60	0.6-3.0		WB-50	180-60-180	6.5	120-40-200	2.0-10.0
	WB-19	150-21-150	3.0	49-21-110	2.0-3.0		WB-62	400-70-450	10.0	160-70-360	6.0-10.0
	WB-20	134-20-134	3.0	61-21-183	0.3-3.4		WB-67	440-65-440	10.0	200-70-600	1.0-11.0
WB-30T	76-21-76	1.4	61-21-91	0.3-1.5	WB-100T	250-70-250	4.5	200-70-300	1.0-5.0		
WB-33D	213-34-213	2.0	30-29-168	0.6-3.5	WB-109D	700-110-700	6.5	100-95-550	2.0-11.5		
105	P	30-6-30	0.8	—	—	105	P	100-20-100	2.5	—	—
	SU	30-11-30	1.0	—	—		SU	100-35-100	3.0	—	—
	WB-12	30-11-30	1.5	30-17-60	0.6-2.5		WB-40	100-35-100	5.0	100-55-200	2.0-8.0
	WB-15	55-14-55	2.0	45-12-64	0.6-3.0		WB-50	180-45-180	6.5	150-40-210	2.0-10.0
	WB-19	160-15-160	4.5	110-23-180	1.2-3.2		WB-62	620-50-520	15.0	360-75-600	4.0-10.0
	WB-20	152-18-152	4.0	61-23-183	0.3-3.4		WB-67	500-50-500	13.0	200-65-600	1.0-11.0
WB-30T	76-18-76	1.5	30-18-91	0.5-1.8	WB-100T	250-60-250	5.0	100-60-300	1.3-6.0		
WB-33D	213-29-213	2.4	46-24-152	0.8-4.8	WB-109D	700-95-700	6.0	150-80-500	3.6-15.0		

Exhibit 9-20. Edge of Traveled Way for Turns at Intersections (Continued)