









Accidents Sta	atistics By I	Roundabou	nt Type & S	Speed Per	centade Bi	Acciden	t Type	
Roundabout Category	Operating Speeds (MPH)	Total # of Accidents	Avg Accident Rate	Entering / Circulating	Approach	Single Vehicle	Other	Ped
Small	30 - 40 50 - 70	497 150	37.1 28.7	72.2% 67.3%	6.6% 8.0%	7.5% 10.7%	9.7% 12.0%	4.0%
Conventional (No Flare)	30 - 40 50 – 70	146 193	21.2 28.7	16.4% 24.9%	18.6% 26.9%	37.6% 29.0%	19.2% 17.1%	8.2% 2.1%
Two-Lane	30 - 40 50 – 70	244 197	22.5 22.4	21.7% 16.8%	24.2% 29.9%	24.2% 32.5%	18.4% 17.8%	11.5% 3.0%

TABLE 4: Roundabout Accident Severity Crash Statistics By Roundabout Type & Speed									
Roundabout Category	Operating Speeds (MPH)	Numb Sites	er of: Junction Years	Fatal	Accid Serious	ents Slight	Total	Accident Frequency/ Junction/Yr	Severity %
0 "	30 - 40	25	113.4	2	86	409	497	4.38	18
Small	50 - 70	11	53	1	20	129	150	2.83	14
Conventional (No Flare)	30 - 40	11	61.9	3	37	106	146	2.36	27
	50 - 70	11	62.2	0	30	163	193	3.1	16
Two Lano	30 - 40	14	72.5	1	30	213	244	3.37	13
Two-Lane	50 - 70	12	68.3	0	22	175	197	2.88	11
Source: TRL,	LR 1120					RTE H	igh Spe	ed Approach 1	Tables.xls
Scott Ritchie, National Rou	Roundabou ndabout Cor	its & Traffic Inference, (: Engineer © RTE 20	ing 08			ww	W.ROUNDABO	OUTS.US











Back to Original Objectives
Objective 1: Evaluate Perceived Concern of High Speed Approaches at Roundabouts
Objective 2: Present Safety Statistics & Data of Roundabouts Worldwide with H.S.A.
Objective 3: Conduct Case Studies of Existing Roundabouts in N.America w/ H.S.A.
Objective 4: Demonstrate Geometric Design Treatments Currently Used for High Speed
Objective 5: Recommend Additional Design Treatments for H.S.A.
Scoli Kitchie, Koundabouts & Hanc Engineening

















 Make Rbt & Need to Slow Down Clear to Driver with Long Splitter Islands, Extended Curbing, & Striping
Make Rbt Visible with Foliage, Chevrons, and Striping
 Avoid Excessive Signing: Hinders Driver's Ability to See the Roundabout, Peds, & YIELD Make Davadebact Visible During Night with
 Make Roundabout Visible During Night with Illuminated Signs, Extended Chevrons, & Lighting
Add Side Friction with Planters, Curbing, Trees, Splitter Islands, Good Deflection PRIOR to Entry
 Ensure Proper Geometric Design: Deflection, Speeds, Fast Paths, Entry Radii, & Exit Radii (No Small Radii)
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