Shoulder Running Case Studies in U.S. - where 24/7 operation is possible or allowed

	inside/outside - facility						
Location	type	permanent / temporary	Priced?	Types of vehicles can use?	Times shoulder use allowed	In operation since:	Other Comments
							Buses can only go 15 miles faster than
							mainline - no faster than 35 mph on
Minnesota 290 mile network of		Interim - and some					shoulder. 10 foot minimum shoulder
Bus Only shoulders - Minneapolis St	1 ''	deployments have been			any time mainline traffic is less		running width. Facilities vary in length
Paul.	types of facilities	removed since inception	no	buses only	than 35 mph.	1992	from .3 mi to 9 miles
New Jersey - Mountainside Bus							
Route 22	outside - arterial	permanent	no	buses only	anytime traffic is congested	many years	1 mile long
					any time mainline traffic is less		Buses can only go 15 miles faster than
Georgia - Route 400 in Atlanta	outside - freeway	permanent	no	buses only	than 35 mph.	2005	mainline -12 mile long facility
							2.7 mile long - 13-14 foot shoulder -
Washington, Seattle bus service on							buses can travel at same speed as GP
SR 520	outside freeway	permanent	no	buses only and HOV 3+	24 /7	1970s	lanes
							Buses can go only 10 mph fster than
					any time mainline traffic id less		mainline. Shoulder is at least 10 ft wide
California - San Diego I-805/SR 52	outside interstate / SH	permanent	no	buses only	than 30 mph	2005	in all areas.
	·			·			
							intended to serve as a transit queue
Delaware - Wilmington US 202	outside - arterial US route	permanent	no	buses only	24/7	many years	jump for buses headed for I-95
		pormanent		Justin State Company		, years	Jamp 101 55000 1150 500 1151 500 1151 500 1151 500 1151 500 1151 500 1151 500 1151 500 1151 500 1151 500 1151
							Buses can go no faster than 35 mph on
Florida -Miami, Florida Turnpike, SR					any time maintline traffic is		shoulder. Shoulder is typically 10 foot
826, SR 836	outside - various types	permanent	no	buses only	"congested"	2005	wide / 12 foot in high volume areas.
Florida - Miami I-95 express Lanes							
converted existing single lane HOV		and a fundament		HOV 3+, transit, hybrids			UOT la constant at many and af
to a two lane HOT by reducing GP and HOT lane widths to 11 ft	inside - interstate	permanent part of UPA	VOS	motorcycles and toll paying SOVs	24/7	2008	HOT lanes can operate at max speeds of 55 mph. variable pricing
and not lane widths to 11 it	inside - interstate	project	yes	3078	24/7	2006	55 Hiph. Variable pricing
Minnosota Minnospalia I O4 in		temporary - due to bridge					
Minnesota - Minneapolis I-94in response to bridge collapse -		collapse was converted back to bus only in 2008 but					
conversion of bus only shoulders to		now under study for					11 foot travel lane with no additional
•	outside - interstate	shoulder HOT operation	no	all traffic	24/7	2007	shoulder on right side.
an remote streamen decess		January 110 1 Operation	ı <u>.</u>	13 3.31.110	<u></u>		and an ingrit order

					facility open 24/7 - tolled only		
Minnesota - I-35 W - Minneapolis					during peaks, except for		
conversion of bus only shoulder to		permanent - part of UPA		all vehicles - SOV pays	downtown are which is tolled at		17 -19 foot between median barrier and
HOT shoulder	inside - interstate	project	yes	dynamically set toll	all times.	2009	end of lane width. 14 mile long facility.