

# Appendix F: Strategy Applications Matrix

**Impact/Effectiveness Matrix**  
 ++ Significant Application  
 + Some Application  
 0 No Application  
 ? Unknown

Strategy	Speed	Capacity	Safety	Cost Effectiveness	Reduce CO Emissions	Reduce VMT (Trip Demand)	Promote HOV/Transit	Reduce Delay	Promote Bike/Pedestrians	Divert Trips from Congested Area or		
										Peak	Shift Peak	
<b>Strategies to reduce Vehicle Trips or Vehicle Miles Traveled</b>												
1.01 Congestion Pricing (MnPASS)	+	0	0	+	0	+	+	+	0	++	++	
1.02 Alternative Work Hours	+	0	0	+	+	0	0	+	0	+	+	
1.03 Telecommuting	+	0	0	+	+	+	0	+	0	0	+	
1.04 Guaranteed Ride Home Programs	0	0	0	+	0	0	+	0	0	0	0	
1.05 Alternative Mode Marketing and Education	0	0	0	+	0	0	+	0	0	0	0	
1.06 Safe Routes to School	0	0	0	0	0	0	0	0	+	0	0	
1.07 Preferential or Free Parking	0	0	0	+	+	+	+	0	+	+	+	
1.08 Event Transportation Management Plans	+	0	+	+	0	0	+	0	+	0	0	
1.09 Negotiated Demand Management Agreements	+	0	0	+	+	+	+	+	+	+	+	
1.10 Trip Reduction Ordinance	+	0	0	+	+	+	+	+	+	+	+	
1.11 Infill Developments	0	0	0	+	+	+	+	+	+	0	0	
1.12 Transit Oriented Developments	0	0	0	+	+	+	+	+	+	0	0	
1.13 Design Guidelines for Pedestrian-Oriented Development	0	0	0	+	+	+	+	+	+	0	0	
1.14 Mixed Use Development	0	0	0	+	+	+	+	+	+	0	0	
1.15 Long-Range Comprehensive Land Use Planning	0	0	0	+	+	+	+	+	+	0	0	
<b>Strategies to Shift Automobile Trips to Other Modes</b>												
2.01 Transit Capacity Expansion	+	+	0	?	+	+	++	+	+	0	0	
2.02 Increasing Bus Route Coverage and/or Frequencies	+	+	0	?	+	+	++	+	+	0	0	
2.03 Implementing Regional Transitways	+	+	0	0	+	+	+	+	0	+	0	
2.04 Providing Real-Time Information on Transit Routes	0	0	0	+	0	0	+	+	0	0	0	
2.05 Reducing Transit Fares	+	0	0	+	+	+	+	+	+	0	0	
2.06 Providing Transit Advantages	++	+	+	+	+	+	+	+	+	0	0	
2.07 Provide Transit Signal Priority	+	0	0	+	+	+	+	+	0	0	0	
2.08 Encourage Off-Board Fare Collection	+	0	0	?	+	+	+	+	0	0	0	
2.09 Monitor Shifting Freight Numbers	0	0	0	+	0	0	0	0	0	0	0	
2.10 New Sidewalk Connections	0	0	+	0	0	?	+	0	++	0	0	
2.11 Enhanced Pedestrian Crossings	0	0	+	0	0	?	+	0	++	0	0	
2.12 Designated Bicycle Facilities on Local Streets	0	+	+	?	+	+	0	0	++	?	0	
2.13 Improved Bicycle Facilities at Transit Stations and Other Trip Destinations	0	0	0	0	0	+	+	+	+	0	0	
2.14 Improved Safety of Existing Bicycle and Pedestrian Facilities	0	0	0	0	0	?	+	0	+	0	0	
2.15 Exclusive Non-Motorized ROW	0	0	+	?	0	+	0	+	+	0	0	
2.16 Complete Streets	+	0	+	?	0	0	0	+	+	0	0	
2.17 Preservation Projects with Multimodal Improvements	0	0	+	?	0	0	+	0	+	0	0	
2.18 Park-and-Ride Lots	0	0	0	+	+	+	+	+	+	+	0	
<b>Strategies to Shift Trips from SOV to HOV Auto/Van</b>												
3.01 Ridesharing (Carpools & Vanpools)	0	+	0	+	0	+	+	0	0	+	+	
3.02 Employer-Landlord Parking Agreements	0	+	0	+	+	+	+	0	+	+	+	
3.03 Parking Management	0	+	0	+	+	+	+	0	+	+	+	
<b>Strategies to Improve Roadway Operations</b>												
4.01 Dynamic Messaging	+	+	+	+	0	0	0	+	0	++	0	
4.02 Advanced Traveler Information Systems (ATIS)	+	+	+	+	0	0	+	+	0	++	+	
4.03 Integrated Corridor Management (ICM)	+	+	+	+	0	0	0	+	0	0	0	
4.04 Automated and Connected Vehicles	+	+	+	+	0	0	0	+	0	0	0	
4.05 Advanced Traffic Management System (ATMS)	+	+	+	+	0	0	0	+	0	0	0	
4.06 Traffic Signal Coordination	+	+	+	+	+	0	0	+	0	0	0	
4.07 Bottleneck Relief	+	+	+	+	0	0	0	+	0	0	0	
4.08 Changeable Lane Assignment/Dynamic Lane Control	+	+	0	+	+	0	0	+	0	+	0	
4.09 Vehicle Use Limitations and Restrictions	+	+	+	+	0	0	0	+	0	+	0	
4.10 Improved Signage	+	+	0	+	0	0	0	+	0	0	0	
4.11 Geometric Improvements for Transit	+	+	+	+	0	0	+	0	0	0	0	
4.12 Intermodal Enhancements	0	0	0	+	0	0	+	+	+	0	0	
4.13 Goods Movement Management	+	+	+	+	0	0	0	+	0	+	0	
4.14 Towing Improvements	+	+	+	+	+	0	0	+	0	0	0	
4.15 Shared Mobility	0	0	0	+	0	0	+	0	0	0	0	
4.16 Ramp Metering	+	+	+	+	0	0	0	0	0	+	+	
4.17 Freeway Auxiliary Lanes that are Shorter than One Mile	+	+	+	+	0	0	0	+	0	0	0	
4.18 Ramp Modifications	+	+	+	+	0	0	0	+	0	0	0	
4.19 Interchange Removal	+	+	+	+	0	0	0	0	0	0	0	
4.20 Signal Timing	+	+	+	+	+	0	0	+	0	0	0	
4.21 Parking Restrictions	+	+	+	+	+	0	0	+	0	0	0	
4.22 One-Way Conversions	+	+	+	+	+	0	0	+	0	0	0	
4.23 Network Management	+	+	+	+	+	0	0	+	0	+	0	
4.24 Superstreet Corridors	+	+	+	+	0	0	+	+	+	0	0	
4.25 Alternative Intersection Design	+	+	+	+	0	0	0	+	0	0	0	
4.26 Snow Removal	+	+	+	+	0	0	0	+	0	0	0	
4.27 Pavement and Bridge Deicing	+	+	+	+	0	0	0	+	0	0	0	
4.28 Incident Detection and Management Systems	+	+	+	+	0	0	0	+	0	0	0	
4.29 Dynamic Access Changes	+	+	+	+	0	0	0	0	0	+	0	
4.30 Access Management Policies	+	+	+	+	+	+	+	+	0	+	0	
4.31 Coordinated Preservation Projects	+	+	+	+	+	0	0	+	0	0	0	
4.32 CMP Safety Mitigation	0	0	+	+	0	0	0	+	0	0	0	
<b>Strategies to Add Capacity</b>												
5.01 Corridor Preservation	0	0	0	0	0	0	0	0	0	0	0	
5.02 Turn Lanes	+	+	++	+	+	0	0	+	0	0	0	
5.03 Reallocation of Current Right-of-Way Space	+	+	0	+	0	0	0	+	0	0	0	
5.04 Intersection Improvements	0	+	+	+	0	0	0	+	0	0	0	
5.05 High Occupancy Vehicle Lane Improvements	+	+	+	0	0	+	+	+	0	0	0	
5.06 Managed lanes	+	+	+	+	0	+	+	+	0	0	0	
5.07 Interchange Configuration Modification	+	+	+	+	+	0	0	+	0	0	0	
5.08 Additional General-Purpose Lanes	++	++	+	0	0	0	0	+	0	0	0	
5.09 New Roadway Facilities	+	+	+	0	0	0	0	+	0	+	0	