

RSA Recommendation List with TSC & Region Response

M-37, Traverse City, Grand Traverse County

Project # 210042
Date: 9/14/2022

PR # 993403, 993906
CS # 28052

Safety Concern	Location	Report Section(s)	Priority	Risk Grade	Countermeasure	TSC & Region Response		
						Implement with Project?	Justification	Assigned to
Sight Distance	Corridor Wide	6.1	Moderate	C	Regular vegetation trimming	Yes	Regular tree/vegetation trimming to be completed as needed, tree removals and heavy limbing to be considered with project.	Project Manager
	At N Peninsula Dr	6.1, 6.5	Moderate	C	"T" up intersection	Yes	Geometric changes to intersection to be evaluated during project design. Geometric changes to be coordinated with proposed signal modernization project and Regional Operations team.	Project Manager
					Convert from diagonal span to box span	No	Signal span layout to be evaluated with proposed signal modernization project and coordinated with Regional Operations team.	Region Operations
Bicycles and Pedestrians	Corridor Wide	6.2	Moderate	D	Provide ADA compliant crossings	Yes	Any non-ADA compliant crossings to be upgraded to meet ADA standards with project.	Project Manager
					Upgrade crosswalks to special emphasis markings	Yes	Existing crosswalk markings to be upgraded to special emphasis with annual pavement marking contract in 2023, all new crossings added with the project to be special emphasis.	TSC T&S Engineer, Project Manager
	At N Peninsula Dr	6.2	Moderate	D	Refuge island on north leg	Yes	Geometric changes to intersection to be evaluated during project design. Geometric changes to be coordinated with proposed signal modernization project and Regional Operations team.	Project Manager
					Pushbutton relocation/extension	Yes	Pushbutton relocation to be considered with geometric and ADA upgrades during project design. The signal modernization project may complete this work ahead of the project.	Project Manager, Region Operations
					Widen and/or restripe shoulders on SB Peninsula Dr (not M-37) to eliminate entrapment areas	Yes	Shoulder striping and width to be evaluated during project design. Pavement markings changes to be evaluated ahead of the project for possible early implementation.	TSC T&S Engineer, Project Manager
	Eastern Ave	6.2, 6.8	Moderate	D	Provide sidewalk between M-37 and Milliken Dr	No	Eastern Ave is a City owned street. TSC to provide support for connections to M-37 and install ADA compliant sidewalk ramps at M-37 with the project.	N/A
	At S Peninsula Dr	6.2	Moderate	D	Crosswalk on south leg to access Bryant Park	Yes	Crossing locations to be reviewed during project design.	TSC T&S Engineer, Project Manager
					Porkchop or "T" up intersection to shorten crossing	Yes	Geometric changes to intersection to be evaluated during project design.	Project Manager
M-37	6.2	Moderate	D	Provide sidewalk from US-31 to S Peninsula Dr intersection	Yes	Sidewalk installation to be evaluated during project design. Sidewalk to be installed on the east side of M-37 from US-31 to Anderson with another project.	Project Manager	
Shoulders vs. Bike Lanes	Corridor Wide	6.3	Moderate	D	Maintain 5 foot minimum paved shoulder (do not designate as bike lanes unless designated as bike route)	Yes	Shoulder, bike lane, and other non-motorized facility types to be evaluated during project design. TSC to coordinate with City's proposed trail project.	Project Manager
					Install bike-friendly catchbasin castings	Yes	Catchbasin castings to be evaluated during project design and replaced as needed based on proposed adjacent facility type.	Project Manager
					Replace existing sinking catchbasins	Yes	Catchbasins and other manholes/castings to be evaluated and replaced as needed.	Project Manager
Street Lighting	Corridor Wide	6.4	Moderate	C	Install additional lighting throughout corridor	No	Lighting is owned and operated by the City. TSC to work with the City to provide suggested improvements and revisions in coordination with the project.	N/A
	At N Peninsula Dr	6.4	Moderate	C	Address NB and SB traffic glare issues with vegetative buffer or other treatment	Yes	Geometric changes and glare treatments at intersection to be evaluated during project design.	Project Manager

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Traffic Signals	Corridor Wide	6.5	Moderate	D	Clear vegetation to maintain visibility of signal heads and warning signs	Yes	Regular tree/vegetation trimming to be completed as needed, tree removals and heavy limbing to be considered with project.	Project Manager
					Provide advance warning signal heads as needed for visibility	No	Signal span layout and supplemental signals to be evaluated with proposed signal modernization project and coordinated with Regional Operations team.	Region Operations
	At N Peninsula Dr	6.1, 6.5	Moderate	D	"T" up intersection	See "Sight Distance" Above		
					Modernize to box span			
At Eastern Ave	6.5	Moderate	D	Modernize to box span	No	Signal span layout to be evaluated with proposed signal modernization project and coordinated with Regional Operations team.	Region Operations	
Traffic Operations	At Eastern Ave	6.6, 6.8	Moderate	C	Consider school timing plan	No	Signal timing to be evaluated with signal modernization project. TSC to work with Region Operations to evaluate if signal timing changes are warranted ahead of the modernization project.	TSC T&S Engineer, Region Operations
	At US-31	6.6, 6.8	Moderate	C	Review signal timing, consider school timing plan	No	Signal is being constantly monitored and modified via the SCOOT system that is currently installed at this location.	N/A
	At S Peninsula Dr	6.6	Moderate	C	Consider Operational Study	No	An operational study was recently completed for the US-31 and M-37 intersection, which included recommendations for reducing cut thru traffic at the S Peninsula Dr intersection.	N/A
Geometrics	Corridor Wide	6.7	Moderate	D	Confirm proper curve radii and superelevations are provided	Yes	Curve radii and superelevations to be evaluated during project design.	Project Manager
					Widen shoulders to 5 foot minimum where able	Yes	Shoulder striping and width to be evaluated during project design.	Project Manager
					Review curves for advisory speed limit	Yes	Advisory speed limits to be evaluated during project design and ahead of project for early implementation.	TSC T&S Engineer, Project Manager
					Consider 11 foot lanes	Yes	Cross section and lane widths to be evaluated during project design.	Project Manager
School Traffic	Eastern Ave	6.2, 6.8	Moderate	D	Provide sidewalk between M-37 and Milliken Dr	See "Bicycles and Pedestrians" Above		
	At Eastern Ave	6.6, 6.8	Moderate	C	Consider school timing plan	See "Traffic Operations" Above		
		6.8	Low	A	Consider extending westbound Eastern Ave left turn lane at M-37	No	Eastern Ave is a City owned street. Regional Operations team to evaluate signal changes with modernization project to improve intersection safety and operations.	N/A
		6.2, 6.8	Moderate	D	Add ADA compliant ramps to Eastern Ave and M-37 intersection	Yes	Non-ADA compliant crossings to be upgraded to meet ADA standards with the project. To be coordinated with the proposed signal modernization project and Regional Operations team.	Project Manager
	Miliken Dr at US-31	6.8	Low	A	Consider extending southbound Milliken Dr left turn lane at US-31	No	Milliken Dr is a City owned street. TSC to provide support for connections to US-31.	N/A
	At US-31	6.6, 6.8	Moderate	C	Review signal timing, consider school timing plan	See "Traffic Operations" Above		