

HSIP Off-System GMatch List



WC	Safety Countermeasure Description	Definition	GMatch?
101	Install Warning/Guide Signs	Provide advance signing for unusual or unexpected roadway features where no signing existed previously.	Yes
107	Install Traffic Signal	Provide a traffic signal where none existed previously. This does not include the installation of flashing beacons.	Yes
108	Improve Traffic Signals	Improve existing intersection signals to current design standards.	Yes
109	Implement Leading Pedestrian Interval (LPI) Timing	Adjust signal timing to allow pedestrians to enter crosswalk at intersection before vehicles are given a green indication.	Yes
110	Install Pedestrian Signal	Provide a pedestrian signal at an existing signalized location where no pedestrian phase exists, but pedestrian crosswalks are existing, or in conjunction with Refer to W.Conditional. 403 for installation of pedestrian crosswalks.	Yes
111	Interconnect Signals	Provide a communication link between two or more adjacent signals in a corridor. Specify all signalized intersections to be included in the interconnection.	Yes
113	Install Delineators	Install post-mounted delineators to provide guidance.	No
114	Install School Zones	Place school zones to include flashers, signing and/or pavement markings where none existed previously. Refer to W.Conditional. 403 for pedestrian crosswalk markings.	Yes
115	Install Pedestrian Countdown Timer	Add pedestrian countdown timer to existing pedestrian signals.	Yes
118	Replace Flashing Beacon with a Traffic Signal	Replace an existing flashing beacon at an intersection with a traffic signal.	Yes
119	Install Overhead Signs	Install overhead advance regulatory, warning or guide signing for unusual or unexpected roadway features where no signing existed previously.	Yes
122	Install Advanced Warning Signals (Intersection - Existing Warning Signs)	Provide flasher units in advance of an intersection where none previously existed but where advance warning signs already exist.	Yes
123	Install Advanced Warning Signals (Curve- Existing Warning Signs)	Provide flasher units in advance of a curve where none previously existed. Advance warning signs already exist.	Yes
124	Install Advanced Warning Signals and Signs (Intersection)	Provide flasher units and signs in advance of an intersection where none previously existed.	Yes
125	Install Advanced Warning Signals and Signs (Curve)	Provide flasher units and signs in advance of a curve where none previously existed.	Yes
128	Install Advanced Warning Signs (Intersection)	Provide signs in advance of an intersection where none previously existed.	Yes
130	Install Advanced Warning Signs (Curve)	Provide signs in advance of a curve where none previously existed.	Yes
131	Improve Pedestrian Signals	Bring existing pedestrian signal units into conformance with current standards.	Yes
132	Install Advance Warning Signals and Signs	Provide flasher units and signs in advance of hazard where none previously existed.	Yes
133	Improve School Zone	Improve an existing school zone by upgrading signing, pavement markings or signals.	Yes
134	Install Advanced Crossing Signage	Install crossing signs in advance of a pedestrian crosswalk where none previously existed.	Yes

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136	Install LED Flashing Chevrons (Curve)	Install LED flashing chevrons on curve to provide guidance.	Yes
137	Install Chevrons (Curve)	Install chevrons on curve to provide guidance.	Yes
138	Install Flashing Yellow Arrow	Improve existing intersection signals by adding a flashing yellow arrow indication and install the LEFT TURN YIELD ON FLASHING YELLOW ARROW (R10-17T) sign. Refer to W.Conditional. 108 for improvement of traffic signal.	Yes
139	Install Surface Mounted Delineators on Centerline	Install surface mounted delineators on centerline.	Yes
140	Wrong Way Driver Warning Signs	Provide warning signs to warn wrong way drivers at freeway entrances. Systemic only.	Yes
141	Wrong Way Driver Warning Markings	Provide markings (lane direction arrows) to warn wrong way drivers at freeway entrances. Systemic only.	Yes
142	Wrong Way Driver Advanced Technologies	Provide advanced technologies to detect and warn wrong way drivers at freeway entrances. Systemic only.	No
143	Pedestrian Hybrid Beacon	Provide pedestrian hybrid beacon at established crosswalk or in conjunction with installation of new crosswalk (403). Requires TRF-P&S approval.	Yes
144	Install RRFB	Install pedestrian activated rectangular rapid flashing beacon (RRFB) at existing or in conjunction with installation of new crosswalk (403). Requires TRF-P&S approval. Systemic only.	Yes
145	Flashing or LED-embedded Stop Signs	Install LED stop signs or top-mounted flashers on existing stop signs at intersections where only standard stop signs are present.	Yes
150	Dynamic Speed Feedback Signs	Install permanent dynamic message speed display signs related to a regulatory speed limit or advisory speed for unexpected roadway features (curves, school zones, etc.).	Yes
201	Install Median Barrier	Construct a concrete or cable safety system median barrier where none existed previously.	No
203	Install Raised Median	Install a roadway divider using barrier curb	No
204	Flatten Side Slope	Provide an embankment side slope of 6:1 or flatter.	No
209	Safety Treat Fixed Objects	Remove, relocate, or safety treat all fixed objects including the installation of guardrail for safety treatment of a fixed object or drainage structures within the project limits, to include both point and continuous objects.	Conditional
217	Install Impact Attenuation System	Provide any of a variety of impact attenuators where none existed previously.	Yes
218	Widen Bridge	Provide additional width across an existing structure, either by rehabilitation or replacement. Specify existing bridge width, existing approach roadway width and roadway type (2 lane, 4 lane undivided, etc.)	No
220	Truck Parking Facilities	Construct, expand, upgrade, or re-purpose existing roadside facilities for truck parking that are eligible for funding under section 1401 of the MAP-21. Systemic only.	No

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225	Pedestrian Crossing Deterrent	Install attachments to existing concrete barrier systems to deter prohibited pedestrian crossings on divided highways. Systemic only.	No
303	Resurfacing	Provide a new roadway surface to increase pavement skid numbers on all the lanes.	No
304	Safety Lighting	Provide roadway lighting, either partial or continuous, where either none existed previously or major improvements are being made. Refer to W.Conditional. 305 for intersection lighting.	Yes
305	Safety Lighting at Intersection	Install lighting at an intersection where either none existed previously or major improvements are proposed. Refer to W.Conditional. 304 for general lighting.	Yes
401	Install Pavement Markings	Place complete pavement markings, excluding crosswalks, in accordance with the TMUTCD where either no markings or nonstandard markings exist. This work code includes items such as turn arrows, stop bars, lane markings, etc. Refer to W.Conditional. 402 for edge ma	Yes
402	Install Edge Marking	Place edge lines where none existed previously.	Yes
403	Install Pedestrian Crosswalk	Place pedestrian crosswalk markings where none existed previously. Refer to W.Conditional. 114 for school zones, and W.Conditional. 110 for pedestrian signal.	Yes
404	Install Centerline Striping	Provide centerline striping where either no markings or nonstandard markings existed previously. Refer to W.Conditional. 401 for complete pavement markings.	Yes
407	Install Sidewalks	Install sidewalks where none existed previously.	No
408	Add Shared Use Path	Provide a shared used path (sidepath) adjacent to roadway physically separated from motorized vehicular traffic.	No
409	Install Pedestrian Refuge Islands	Install pedestrian median or refuge island where none existed previously.	No
410	Install Dedicated Bicycle Lanes	Restripe existing pavement to provide dedicated space for bike lanes. If widening is needed use in combination with WCs 502-504	Conditional
502	Widen Lane(s)	Provide additional width to the lane(s). Refer to W.Conditional. 517 if adding a through lane.	No
503	Widen Paved Shoulder (to 5 ft. or less)	Extend the existing paved shoulder to achieve desirable shoulder width. Refer to W.Conditional. 504 or 537 for constructing a paved shoulder.	No
504	Construct Paved Shoulders (1-4 ft.)	Provide paved shoulders of 1- to 4-foot width where no shoulders existed previously. Refer to W.Conditional. 503 or 536 for widening paved shoulders.	No
505	Improve Vertical Alignment	Reconstruct the roadway to improve sight distance.	No
506	Improve Horizontal Alignment	Flatten existing curves. Refer to W.Conditional. 507 for providing superelevation, and W.Conditional. 508 for intersection realignment.	No

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507	Increase Superelevation	Provide increased superelevation on an existing curve.	No
508	Realign Intersection	Improve an existing intersection by partial or complete relocation of the roadway(s). Refer to W.Conditional. 509 for channelization, and W.Conditional. 506 for improving horizontal alignments.	No
509	Channelization	Install islands and/or pavement markings to control or prohibit vehicular movements. A sketch of the proposed channelization should be provided. Refer to W.Conditional. 508 for intersection realignment.	Conditional
510	Construct Turn Arounds	Provide turnarounds at an intersection where none existed previously.	No
514	Grade Separation	Construct vertical separation of intersecting roadways.	No
515	Construct Interchange	Construct vertical separation of intersecting roadways to include interconnecting ramps.	No
516	Close Crossover	Permanently close an existing crossover.	No
517	Add Through Lane	Provide an additional travel lane.	Conditional
518	Install Continuous Turn Lane	Provide a continuous two-way left turn lane where none existed previously.	No
519	Add Left Turn Lane	Provide an exclusive left turn lane where none existed previously. The affected intersection approaches must be specified.	No
520	Lengthen Left Turn Lane	Provide additional length to an existing exclusive left turn lane. Affected intersection approaches must be specified.	No
521	Add Right Turn Lane	Provide an exclusive right turn lane where none existed previously. Affected intersection approaches must be specified.	No
522	Lengthen Right Turn Lane	Provide additional length to an existing exclusive right turn lane. Affected intersection approaches must be specified.	No
523	Construct Pedestrian Over/Under Pass	Construct a pedestrian crossover where none existed previously.	No
524	Increase Turning Radius	Provide an increased turning radius at an existing intersection.	Conditional
525	Convert to One Way Frontage Roads	Convert two-way frontage roads to one-way operation.	Conditional
526	Positive Offset Left-turn Lanes	Add positive offset to existing left-turn lane(s) at an intersection.	No
532	Milled Edgeline Rumble Strips	Install continuous milled depressions (rumble stripes or rumble strips) along the edgeline. Stand-alone rumble strip project proposals will not be accepted.	Yes
533	Profile Edgeline Markings	Install profile edgeline markings. Stand-alone rumble strip project proposals will not be accepted.	Yes
534	Raised Edgeline Rumble Strips	Install non-reflective raised traffic buttons (yellow or white) along the edgeline. Stand-alone rumble strip project proposals will not be accepted.	Yes

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536	Widen Paved Shoulders (to >5 ft.)	Extend the existing paved shoulder to greater than 5 ft. Refer to W.Conditional. 504 or 537 for constructing a paved shoulder.	No
537	Construct Paved Shoulders (>= 5ft.)	Provide paved shoulders 5 feet or greater where no shoulders existed previously. Refer to W.Conditional. 503 or 536 for widening paved shoulders.	No
538	Convert 2 Lane Facility to 4 Lane Divided	Convert an existing 2-lane facility to a 4-lane divided facility.	Conditional
540	Install Passing Lanes on 2 Lane Road	Widen roadway to install passing lanes on a 2-lane roadway where none currently exist.	No
541	Provide Additional Paved Surface Width	Provide additional paved surface width with appropriate subsurface to each side of two lane, two-way roadways with existing paved surface width less than 24' to a maximum width of 28'.	No
542	Milled Centerline Rumble Strips	Install milled centerline rumble strips along the centerline. Stand-alone rumble strip project proposals will not be accepted.	Yes
543	Profile Centerline Markings	Install profile centerline markings and preformed thermoplastic strips along the centerline. Stand-alone centerline rumble strip project proposals will not be accepted.	Yes
544	Raised Centerline Rumble Strips	Install non-reflective raised traffic buttons (yellow or black) and preformed thermoplastic strips along the centerline. Stand-alone centerline rumble strip project proposals will not be accepted.	Yes
545	Transverse Rumble Strips	Install transverse or in-lane rumble strips in advance of a high incident and special geometric location.	No
547	Construct a Roundabout	Convert an existing intersection to a single lane roundabout design	Yes
550	Restricted Crossing U-Turn (RCUT)	Convert intersection to restricted crossing U-turn (RCUT) intersection.	No
551	Median U-Turn (MUT)	Convert intersection to median U-Turn (MUT) intersection that replaces direct left turns at an intersection with indirect left turns using a U-turn movement in a wide median. Refer to RDM Appendix E: Section 4	No

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Work Codes marked as "Yes" or "No" have been reviewed with the FHWA for eligibility. Projects whose scope includes Work Codes marked as "Conditional" for G-Match will be reviewed for eligibility under 23 USC 120:

(c) Increased Federal Share.-

(1) Certain safety projects.-The Federal share payable on account of any project for traffic control signalization, maintaining minimum levels of retroreflectivity of highway signs or pavement markings, traffic circles (also known as "roundabouts"), safety rest areas, pavement marking, shoulder and centerline rumble strips and stripes, commuter carpooling and vanpooling, rail-highway crossing closure, or installation of traffic signs, traffic lights, guardrails, impact attenuators, concrete barrier end treatments, breakaway utility poles, or priority control systems for emergency vehicles or transit vehicles at signalized intersections may amount to 100 percent of the cost of construction of such projects; except that not more than 10 percent of all sums apportioned for all the Federal-aid programs for any fiscal year in accordance with section 104 of this title shall be used under this subsection. In this subsection, the term "safety rest area" means an area where motor vehicle operators can park their vehicles and rest, where food, fuel, and lodging services are not available, and that is located on a segment of highway with respect to which the Secretary determines there is a shortage of public and private areas at which motor vehicle operators can park their vehicles and rest.