

Minor and Safety Type Project List

Project List Category	I.D.	Location	Project Type	Implementation Method	Deficiency Corrected	Ant.Cost	Potential Package	Project Description	Notes
		Corridor Wide							
Near Term as Package	1	Incident Management Plan	Planning	Project	Safety/Operations	\$100k	1	Specific documented plan to address incident response across multi-agencies. Could involve MOU on agreement	Initial effort to other potential incident response projects
Near Term	2	Reduced Speed Limit	Signing	Maintenance	Safety	\$25k		Resign 65 MPH throughout urban area (Continental to Nissler)	Requires legislative action
Near Term as Package	4	Variable Speed Limits	ITS	Project / Package	Safety	\$100k	2	Advisory or Enforceable speed limits tied to weather or events, requires additional RWIS	Requires legislative action
Near Term as Package	5	Speed Display Signs	ITS	Add-on / Package	Safety	\$50-75k each	2	Placed near curvature, bridges or steep grades	Requires legislative action
Near Term as Package	6	CCTV Applications	ITS	Package	Safety/Operations	\$10-20k each	1, 3	Closed Circuit Television applications - Support/enhance statewide systems	Potential for 9-10 CCTVs
Near Term as Package	7	DMS Applications	ITS	Package	Safety	\$100-150k each	1, 3	Digital Message Boards throughout corridor	Potential for 6-7 DMSs
Near Term as Package	8	Additional RWIS Data Collection	ITS	Package	Safety	\$40-60k each	1, 2, 3	Support/enhance statewide systems or other ITS applications	Potential for 5-6 RWIS Flash Beacons
Near Term as Package	9	Traveler Information Elements	ITS	Package	Safety	~\$40k for ea HAR, ~\$5k for ea Kiosk	3	HAR and Kiosks (at truck stops)	Potential for 3-4 HAR, 5-6 Kiosks
Add On	10	Landscape Elements	Landscape	Add-on	Aesthetics	\$20k to \$200k		Consider landscape elements for all future projects within corridor to improve aesthetics at interchanges	Costs have potential to vary significantly
		Rocker Interchange							
Add On & Near Term as Package	11	Install New DMS Sign west of I/C	ITS	Add-on / Package	Traveler Information	\$150k	4	Additional DMS sign tied to road closure gate project at Continental Drive	Cost may be higher depending on communication and poer requirements
Near Term	12	Town Pump property	Access	Add-on / Package	Access Control	\$60k	7	Provide curb/delineation to define specific access points	
Near Term as Package	13	Flying J property	Access	Add-on / Package	Access Control	\$30k	7	Provide curb/delineation to define specific access points	
Near Term as Package	14	Eastside of Rocker Rd	Sidewalk	Add-on / Package	Lack of Pedestrian facilities	\$80k	7	Construct a five foot sidewalk on the east side of Rocker Rd from Frontage Rd to Frontage Rd (include curb ramps and marked crossings)	
Near Term as Package & Add On	15	EB I-15/90 Bridge over Rocker	Guardrail	Maintenance / Package	Guardrail length	\$20k	5	Extend Guardrail on at bridge on inside lane	
Near Term as Package & Add On	16	WB I-15/90 Bridge over Rocker	Guardrail	Maintenance / Package	Guardrail length	\$20k	5	Extend Guardrail on at bridge on inside lane	
		Mainline Segment 1							
Near Term as Package & Add On	17	NB/EB I-15/90 (various locations)	Guardrail	Maintenance / Package	Clear Zone	\$20k	5	Extend Guardrail to cover non-recoverable sideslopes	
?	18	NB/EB I-15/90 (various locations)	Minor Earthwork	Package	Clear Zone	\$50k	6	Perform minor grading to flatten fill slopes	
Add On	19	Replace Bridges over abandoned RxR w/Culvert	Structure	Project / Add-on	Functionally Obsolete Structure	\$400k		Remove bridges and replace with large steel plate culvert. Maintaining rails to trail path	Included in WB1, WB2 and WB3
		West Butte Interchange							
Near Term	20	Reduced Speed Limit on I-115	Signing	Maintenance	Safety	\$10k		Reduce speed limit and sign for 55 MPH	Currently there are no signs until the speed reduction near Excelsior
Near Term as Package	21	EB I-115 off-ramp	Striping	Maintenance / Package	Ramp Geometry	\$25k	8	Restripe leftside exit ramp to a normal single lane width	
Near Term as Package	21	EB I-115 off-ramp	Signing	Maintenance / Package	Safety	\$20k	8	Install new overhead signs that are less confusing	
Near Term as Package	22	Ramps	Lighting	Package	Safety	\$100k	8	Install new lights to improve visibility of exit	
Near Term as Package & Add On	23	EB I-115 over WB/SB I-15/90	Guardrail	Maintenance / Package	Guardrail length	\$20k	5	Extend guardrail on both sides at bridge	
Add On	24	EB I-115 over WB/SB I-15/90	Bridge	Project / Add-on	Functionally Obsolete Structure	\$1,300k		Install new bridge to current standards	I-115 EB bridge over WB I-15/90
		Mainline Segment 2							
Near Term as Package & Add On	25	EB/NB and WB/SB I-15/90 @ Bridges & Curves	ITS	Package / Add-on	Functionally Obsolete Structure	\$200k	4	Install advisory warning signs with flashing beacons triggered by RWIS system	
Near Term as Package & Add On	26	EB/NB and WB/SB I-15/90 @ Bridges	Maintenance	Package / Add-on	Functionally Obsolete Structure	\$800k	10	Install anti-icing systems on each bridge	Requires new asphalt surface on bridge to embed nozzles
?	27	EB/NB I-15/90	Minor Earthwork	Package	Clear Zone	\$50k	6	Perform grading to increase runoff area to proper clear zone width	

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?	28	WB/SB I-15/90	Minor Earthwork	Package	Clear Zone	\$50k	6	Perform grading to increase runoff area to proper clear zone width	
Add On & Long Range	30	EB/NB and WB/SB I-15/90 Bridges (x2)	Bridges	Project	Functionally Obsolete Structure	\$7,600k		New bridge to current standards	
		Excelsior Avenue Interchange							
Near Term as Package & Add On	31	WB I-115 @ major drainage crossing	Guardrail	Maintenance	Guardrail length	\$30k	5	Extend guardrail on both sides at CBC	
Near Term as Package & Add On	32	EB I-115 @ major drainage crossing	Guardrail	Maintenance	Guardrail length	\$30k	5	Extend guardrail on both sides at CBC	
Add On	33	Eastside of Excelsior Road	Sidewalk	Project	Lack of Pedestrian facilities	\$150k		Construct a five foot sidewalk on the east side of Excelsior Rd from Access to residences (just west of EB Ramp Terminal to Platinum St)	Add-on to future pavement rehabilitation ?
		Montana Street Interchange							
Near Term as Package & Add On	34	EB off/on-ramps and WB on-ramp	Access	Package / Add-on	Safety	\$200k	9	Use curb to change/channelize shared frontage road and ramp, eliminating local access, modify business access as needed	
Near Term as Package & Add On	35	EB off/on-ramps and WB on-ramp	Access	Package / Add-on	Access Control	\$25k	9	Eliminate on street parking within Access Control line	
Near Term as Package & Add On	36	EB & WB off/on ramp terminals	Pedestrian	Package / Add-on	Safety	\$40k	9	Install ADA compatible curb ramps and cross walk markings	
Near Term as Package & Add On	37	EB/NB & WB/SB I-15/90 over Montana Street	Guardrail	Maintenance	Guardrail length	\$20k	5	Extend guardrail on both sides at bridge	
Add On or Long Range ?	39	EB/NB & WB/SB I-15/90 over Montana Street	Bridges	Project	Functionally Obsolete Structure	\$2,700k		Widen or install new bridge to current standards	
		Mainline Segment 3							
Near Term as Package & Add On	40	Median Barrier	Guardrail	Maintenance / Package	Safety	\$200k	5	Install a median barrier system	
Near Term as Package & Add On	41	EB/NB at Oregon Avenue	Guardrail	Maintenance / Package	Guardrail length	\$30k	5	Extend guardrail at bridge on outside lane to appropriate length	
Near Term as Package & Add On	42	WB/SB at Lexington Avenue	Guardrail	Maintenance / Package	Guardrail length	\$30k	5	Extend guardrail at bridge on outside lane to appropriate length	
Near Term as Package & Add On	43	WB/SB between Lexington Ave & Oregon Ave	Minor Earthwork	Package	Clear Zone	\$30k	6	Perform grading to increase runoff area to proper clear zone width	
		Harrison Avenue Interchange							
Near Term as Package & Add On	44	EB off-ramp & WB on-ramp (Loop ramps)	ITS	Package / Add-on	Ramp Geometry	\$100k	2	Install a Speed Reduction system	
Near Term as Package & Add On	45	EB on/off-ramps terminals at Harrison	Access	Package / Add-on	Ramp Geo/Turning Movements	\$100k	11	Remove/Change hotel sign and OH Sign and improve curb return radiuses, modify gas station access as needed.	With small piece of right of way
Add On	46	Harrison Avenue	Maintenance	Maintenance	Safety	\$10k		Trim bushes along Harrison Avenue to improve sight lines near the EB on/off-ramp	MDT or City Forces?
Long Range	47	Harrison Avenue & Amherst Avenue	Minor Roadway	Project	Safety	\$800k		Extend third through lane north from Cornell to Amherst as a right turn lane), modify parking lot of adjacent property as needed.	
Near Term as Package & Add On	48	Ramp Terminals and Intersections	Pedestrian	Package / Add-on	Safety	\$100k	11	Install ADA compatible curb ramps and cross walk markings	
Add On	49	WB/SB off-ramp near diverge	Maintenance	Maintenance	Safety	\$10k		Trim bushes near exit signs to improve visibility	
Near Term as Package & Add On	50	Restripe Harrison Avenue	Striping	Package / Add-on	Access/Safety	\$50k	11	Restripe Harrison back to 2-lanes with right turn lanes at specific locations. Improve turn radii with striping (Cornell to Mall entrance)	
Near Term as Package & Add On	51	EB/NB & WB/SB I-15/90 over Harrison Avenue	Guardrail	Maintenance / Package	Guardrail length	\$30k	5	Extend guardrail on both sides at bridge	
Add On or Long Range ?	52	EB/NB & WB/SB I-15/90 over Harrison Avenue	Bridges	Project	Functionally Obsolete Structure	\$3,400k		Widen or install new bridge to current standards	
		Mainline Segment 4							
Near Term as Package & Add On	53	Median Barrier	Guardrail	Maintenance / Package	Safety	\$200k	5	Install a median barrier system	
Near Term as Package & Add On	54	Median of I-15/90	Guardrail	Maintenance / Package	Guardrail length	\$50k	5	Improve Median Guardrail	
Near Term as Package & Add On	55	WB/SB at Sheridan Ave	Guardrail	Maintenance / Package	Guardrail length	\$30k	5	Extend guardrail at bridge on outside and inside lane to appropriate length	
Near Term as Package & Add On	56	WB/SB I-15/90 near drainage crossing	Guardrail	Maintenance / Package	Guardrail length	\$30k	5	Extend guardrail at bridge on outside and inside lane to appropriate length	

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Near Term as Package & Add On	57	WB/SB (west of Sheridan Avenue)	Guardrail	Maintenance / Package	Clear Zone	\$30k	5	Extend Guardrail to cover non-recoverable sideslopes	
? Develop Near Term project ?	58	WB/SB (west of Sheridan Avenue)	Minor Earthwork	Package	Clear Zone	\$150k	6	Perform grading to increase runoff area to proper clear zone width	Important area, fatality occurred on sideslope
Near Term as Package & Add On	59	EB/NB (west of Sheridan Ave to Continental)	Guardrail	Maintenance / Package	Clear Zone	\$	5	Extend Guardrail to cover non-recoverable sideslopes	
?	60	EB/NB (west of Sheridan Ave to Continental)	Minor Earthwork	Package	Clear Zone	\$150k	6	Perform grading to increase runoff area to proper clear zone width	
		East Butte Interchange							
Near Term as Package	61	SB I-15 off-ramp to EB I-90 (Loop ramp)	ITS	Package / Add-on	Ramp Geometry	\$60k	2, 4, 12	Install a Speed Reduction system	
Near Term as Package	62	SB I-15 off-ramp to EB I-90 (Loop) & Mainline	ITS	Package / Add-on	Safety	\$100k	2, 4, 12	Install advisory warning signs with flashing beacons triggered by RWIS system	
Near Term as Package	63	EB/NB and WB/SB I-15/90 @ Bridges	Maintenance	Package / Add-on	Safety	\$500k	10, 12	Install anti-icing systems on each bridge	
Near Term as Package & Add On	64	WB/SB at Continental	Guardrail	Maintenance / Package	Guardrail length	\$30k	5	Extend guardrail at bridge on outside lane to appropriate length	
Near Term as Package	65	Ramps	Lighting	Add-on / Package	Safety	\$250k	12	Install lights at ramp merge/diverge areas	
		Mainline Segment 5							
Near Term as Package & Add On	66	WB I-90 at Burlington St.	Guardrail	Maintenance / Package	Guardrail length	\$30k	5	Extend guardrail at bridge on outside and inside lane to appropriate length	
?	67	EB and WB I-90 (various locations)	Minor Earthwork	Package	Clear Zone	\$50k	6	Perform grading to increase runoff area to proper clear zone width	
		Continental Interchange							
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**Notes:**

- Project = *Individual Project*
- Add-on = *Add to other project (currently programmed or one of option designs)*
- Package = *Include with other minor project as part of a package*
- Maintenance = *Maintenance crews can complete*

**Potential Packages:**

- 1 Incident Management Support Project (Plan, DMS, CCTV, RWIS, HAR)
- 2 Traffic Management (variable speed limit, speed display signs, RWIS, active warning/speed reduction signs)
- 3 Traveler Information (DMS, CCTV, HAR, Kiosks, RWIS)
- 4 Site specific ITS projects (DMS at Rocker, speed reduction at loops)
- 5 *Guardrail Package of Improvements*
- 6 *Earthwork Package of Improvements*
- 7 Rocker Minor Improvement Project
- 8 West Butte Minor Improvements
- 9 Montana Street Minor Improvements
- 10 Bridge Anti-icing Systems
- 11 Harrison Minor Improvement Project
- 12 East Butte Minor Improvemeth Project