

2020 Maintenance List

Structure #	Priority (years)	Description of Work - Maintenance	Est. Cost
407.48	1	Repair wingwalls to retain ballast	\$4,000
	1	Repair footwalk	\$2,000
408.02	3	Replace fouled ballast	\$5,000
	1	Raise approaches	\$4,000
	3	Replace ties	\$5,000
	1	Repair northeast embankment	\$3,000
	1	Repair fence breach	\$500
408.84a	<1	Remove vegetation under all spans	\$2,000
	<1	Repair backwall and scour before next rainy season	\$10,000
	1	Raise approaches on both ends	\$4,000
	<1	Replace walkway	\$2,000
	<1	Repair handrail cable	\$2,000
408.84b	<1	Repair walkway	\$4,000
	<1	Repair handrail post	\$2,000
	1	Remove vegetation under bridge	\$2,000
	1	Repair undermining at pier 3	\$4,000
408.84c	<1	Remove vegetation under all spans	\$2,000
	1	Raise approaches on both ends	\$4,000
	<1	Replace walkway	\$2,000
	<1	Repair backwall and scour before next rainy season	\$10,000
409.74	1	Replace ballast	\$5,000
	1	Raise approaches	\$4,000
	<1	Remove bees	\$1,000
410.40	1	Remove vegetation from under and around bridge structure	\$5,000
	1	Raise approaches	\$4,000
	<1	Repair handrail and walkway	\$2,000
	1	J-Bolts need to be installed to prevent tie movement	\$1,000
	1	Repair west wingwall to prevent further ballast loss	\$5,000
411.97	<1	Repair handrail	\$1,000
	1	Raise approaches	\$4,000
412.25	<1	Remove vegetation from under and around bridge	\$3,000
	1	Clean debris from around bearings both ends	\$2,000
	1	Raise approaches both ends	\$4,000
	1	Replace guard timbers	\$2,000
	1	Replace split tie	\$1,000
	1	Add handrails	\$4,000
415.20	1	Raise approaches	\$4,000
	1	Excavate to allow inspection or replace with culvert	\$10,000
	3	Repair wingwalls	\$4,000
415.32	<1	Replace walkway grating	\$2,000
	1	Raise approaches	\$4,000
	1	Excavate to allow inspection or replace with culvert	\$10,000
415.59b	1	Clean bearings	\$2,000
	1	Remove material between inside guard rail and running rail both ends, both sides	\$4,000
	1	Remove vegetation from under and around bridge structure	\$3,000
	1	Repair fence breaches	\$1,000
415.69	1	Raise east approach	\$2,000
	<1	Replace failed deck planks	\$50,000
	<1	Replace failed/rotten/crushing stringers	\$150,000
	<1	Quarterly inspections until deck and stringer repairs are made	\$3,500
	1	Repair wingwalls	\$4,000
415.79	1	Repair ballast guard	\$1,000
	1	Add ballast to approaches	\$3,000
	1	Clean channel to allow inspection or replace with culverts	\$10,000
415.82	1	Repair wingwalls and headwall retainer, both ends	\$3,000
	1	Replace sway braces	\$3,000
	1	Raise ballast at approaches	\$3,000
	<1	Shim pier to provide bearing	\$1,000
415.92	1	Ballast planks beginning to fail. Monitor and replace if maintained as a bridge	\$25,000
	<1	Walkway has uneven surface and is a tripping hazard	\$2,000
	1	Shim helper bents to stringers noted in report	\$1,000
	<1	Replace failed and rotten stringers or replace with culverts	\$150,000
	1	Repair handrail	\$1,000
	<1	Quarterly inspections until deck and stringer repairs are made	\$3,500
1	Repair wingwalls	\$4,000	

Structure #	Priority (years)	Description of Work - Maintenance	Est. Cost
416.21	1	Grout Joints	\$2,000
	1	Fix gaps in fence	\$2,000
416.32	1	Raise and straighten both approaches	\$5,000
	<1	Bridge has silted in more, channel needs cleaning to prevent water from hitting stringers	\$10,000
416.63	1	Raise approaches	\$4,000
	1	Repair backwall locations that are leaking	\$5,000
417.24	<1	Remove vegetation under and around bridge	\$5,000
	<1	Replace bad track ties	\$2,000
	1	Clear boulders, trees & other debris from under bridge to allow max flow & prevent damage to pile	\$3,000
	2	Repair backwalls	\$20,000
	<1	Replace ballast planks with stringer replacement	\$35,000
	<1	Replace bad stringers.	\$150,000
	<1	Quarterly inspections until deck and stringer repairs are made	\$3,500
	1	Repair erosion around wingwalls	\$3,000
	1	Correct rail alignment	\$4,000
	1	Raise approaches	\$4,000
	1	Repair handrails	\$2,000
417.96	3	Level track across structure	\$5,000
	3	Replace loose block	\$500
418.02	1	Clear debris from under bridge	\$2,000
	1	Raise approaches both ends	\$4,000
	1	Replace failed deck planks	\$25,000
	2	Install ballast curbs to prevent ballast loss	\$3,000
419.42	<1	Remove overhead vegetation	\$2,000
	2	Repair scour and protect both abutments	\$30,000
	1	Raise approaches	\$4,000
	<1	Repair handrail both sides	\$2,000
419.92	<1	Protect Abutment #1 from further scour	\$10,000
	1	Raise approaches both ends	\$4,000
	1	Replace missing, rotted and broken bracing	\$5,000
	1	Replace rotten backwall planks	\$20,000
	1	Repair holes in ballast near both abutments	\$2,000
420.20	2	Increase height of SW ballast retainer to hold ballast	\$2,000
	1	Raise approaches	\$4,000
	<1	Shim temporary bents	\$1,000
	1	Add supplemental steel stringers to replace temporary bents	\$15,000
	1	Add handrail	\$5,000
	1	Repair ballast retainer and deck planks	\$20,000
	2	Repair sway bracing	\$3,000
420.46	3	Repair rotten backwall	\$20,000
	1	Raise approaches	\$4,000
	2	Repair abutment ballast retainer west end and add at east end	\$2,000
	2	Repair west backwall	\$10,000
	1	Replace broken bent 2 sway brace, attach bent 4 brace	\$4,000
421.05	1	Repair holes in deck planks	\$2,000
	1	Remove vegetation under and around bridge	\$2,000
	1	Clean silt from span 1	\$5,000
	1	Raise approaches both ends	\$4,000
421.23	2	Replace / Repair / Install ballast retainers at both ends on both sides	\$4,000
	1	Clean channel downstream	\$5,000
	1	Raise approaches both ends	\$4,000
	<1	Repair walkway	\$4,000
	<1	Repair handrail	\$2,000
	2	Replace stringers on span #1 & #2 . Monitor stringers if condition worsens and raise priority.	\$75,000
422.53	1	Increase ballast depth to 12 in minimum	\$3,000
	<1	Remove vegation around bridge	\$2,000
	1	Add j-bolts to attach ties to stringers along with guard timbers	\$2,000
422.89	1	Raise approaches on both ends	\$4,000
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	1	Replace fouled ballast	\$3,000
	1	Add ballast retainers	\$5,000

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423.28	1	Raise approaches	\$4,000
	<1	Repair handrail cable north side	\$2,000
	2	Clean bearings. Monitor condition and raise priority if necessary	\$2,000
423.44	1	Remove vegetation from under and around bridge	\$2,500
	1	Add ballast - ballast 3" below top of tie	\$5,000
	1	Raise west approach	\$2,000
	1	Remove debris from bents	\$5,000
	2	Add scour protection at Abutment 1	\$25,000
425.15	<1	Repair loose handrail cable	\$2,000
427.64	<1	Clear vegetation on north and south side of bridge	\$3,000
	<1	Clear channel	\$5,000
	1	Raise approaches both ends	\$4,000
	1	Replace ties	\$3,000
	<1	Clean debris from stringers	\$2,000
	1	Repair backwalls	\$5,000
429.79b	2	Raise both approaches	\$4,000
	1	Clear abutments, center pier and bearings of silt and debris	\$5,000
<b>Total Maintenance Costs 2020=</b>			<b>\$1,264,000</b>