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Basic Information				42-22-08 =	071-03-37 = -
Massachusetts [25] Suffolk County [0)25]	Boston [07000]	AT CHAS RIV NR BOS GARDEN	42.368889	71.060278
B1601637KMUNNBI Highway a	gency district 6	Owner City or Municipal	Highway Agency [04] Maintenance	responsibility City or Municipal I	Highway Agency [04]
Route 0 H	WY N WSHNGTN ST	Toll On free	e road [3] Features intersed	water charles river	
Design - main Steel continuous [4] Truss - Thru [10]	Design - approach 0 Other	[00]	Skew angle 0 Structure F	constructed 1956 lared s eligible for the NRHP. [2]	
Total length 73.5 m = 241.2 ft	Length of maximum spa	36.3 m = 119.1 ft		I.1 ft Bridge roadway width, curb-to-0	20.1 m = 65.9 ft
Inventory Route, Total Horizontal Cleara	ance 6.7 m = 22.0 ft	Curb or sidewalk wid	3 m = 9.8 ft	Curb or sidewalk width - right	2.8 m = 9.2 ft
Deck structure type	Open Grating [3]				
Type of wearing surface	Other [9]				
Deck protection					
Type of membrane/wearing surface					
Weight Limits					
	termine inventory rating	Load Factor(LF) [1]	Inventory rating	21 metric ton = 23.1 tons	
0.3 km = 0.2 mi Method to de	termine operating rating	Load Factor(LF) [1]	Operating rating	35.1 metric ton = 38.6 tons	
Bridge postin	g Equal to or above le	gal loads [5]	Design Load MS	18 / HS 20 [5]	

Functional Details	
Average Daily Traffic 38400 Average daily tru	uck traffi 10 % Year 2008 Future average daily traffic 60645 Year 2031
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 6 Approach roadway width 24.4 m = 80.1 ft
Type of service on bridge Highway-pedestrian [5]	Direction of traffic 2 - way traffic [2] Bridge median Closed median with non-mountable bar
Parallel structure designation No parallel structure	exists. [N]
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control Navigation control on waterway (bridge permit required). [1]
Navigation vertical clearanc 7 m = 23.0 ft	Navigation horizontal clearance 15.2 m = 49.9 ft
Minimum navigation vertical clearance, vertical lift brid	dge 0 m = 0.0 ft Minimum vertical clearance over bridge roadway 4.34 m = 14.2 ft
Minimum lateral underclearance reference feature Fe	ature not a highway or railroad [N]
Minimum lateral underclearance on right 0 = N/A	Minimum lateral underclearance on left 0 = N/A
Minimum Vertical Underclearance 0 = N/A	Minimum vertical underclearance reference feature Feature not a highway or railroad [N]
Appraisal ratings - underclearances N/A [N]	
Repair and Replacement Plans	
Type of work to be performed	Work done by Work to be done by contract [1]
Replacement of bridge or other structure because of substandard load carrying capacity or substantial	Bridge improvement cost 10642000 Roadway improvement cost 1065000
bridge roadway geometry. [31]	Length of structure improvement 84 m = 275.6 ft Total project cost 15964000
	Year of improvement cost estimate 2011
	Border bridge - state Border bridge - percent responsibility of other state
	Border bridge - structure number

Inspection and Sufficient	iency								
	pen, would bemporary sho	be posted or closed exoring [D]		ppraisal ratings - ructural	Basically	Basically intolerable requiring high priority of replacement [2]			
Condition ratings - supe	erstructur	Critical [2]		ppraisal ratings - padway alignment	Somewhat is [5]	Somewhat better than minimum adequacy to tolerate being left in place a is [5]			
Condition ratings - subs	structure	Fair [5]	Д	Appraisal ratings -					
Condition ratings - deck	ck	Good [7]	d	leck geometry					
Scour Bridge with "unknown" founda				that has not been ev	valuated for s	cour. [U]			
Channel and channel protection Bank protection is being erochannel. [5]				River control devices	and/or emba	ankment have major c	damage. Trees and rush restrict the		
Appraisal ratings - water	Appraisal ratings - water adequacy Superior to present desirable			criteria [9] Status evaluation Structurally deficient [1]			Structurally deficient [1]		
Pier or abutment protect	ection	In place and fun	ctioning [2]		Sufficiency rating 6				
Culverts Not applicat	ıble. Used if	structure is not a culve	ert. [N]						
Traffic safety features	s - railings								
Traffic safety features	s - transitions	S							
Traffic safety features	guardrail								
Traffic safety features	guardrail ends	Inpected feature r	meets currently acce	ptable stand	ards. [1]				
Inspection date August 2010 [0810] Designated inspection frequency					V	Months			
Underwater inspection Every year [Y12]				Underwater inspec	ction date	September 201	0 [0910]		
Fracture critical inspection Not needed [N]				Fracture critical ins	spection date	;			
Other special inspection Unknown [Y06]				Other special insp	ection date	March 2011 [03	11]		

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Basic Information								42-22-10 =	071-03-39 = -
Massachusetts [25] Su	ffolk County [025]		Boston [07000]	AT CHAS	AT CHAS RIV NR BOS GARDEN			42.369444	71.060833
B1601637HMUNNBI	Highway agend	cy district 6	Owner City or	ner City or Municipal Highway Agency [04] Maintenance responsibility			City or Municipal	Highway Agency [04]	
Route 0	HWY	N WSHNGTN ST	То	On free road [3]	Fe	atures intersed	ted WATER CH	IARLES RIVER	
Design - Steel [3] main 5 Girder and floo	rbeam system [03	Design - approach 0 Other	[00]	Kilometer Year buil Skew and Historica	t #Num!	Structure F	constructed 195 lared s eligible for the		
Total length 129.2 m = 4	123.9 ft Ler	gth of maximum sp	an 25.9 m = 85.0 f		· ·				-curb 22.6 m = 74.2 ft
Inventory Route, Total Ho	rizontal Clearance	12.2 m = 40.0 ft	Curb or si	dewalk width - left	2.6 m = 8.5	ft	Curb or side	ewalk width - right	2.3 m = 7.5 ft
Deck structure type	C	oncrete Cast-in-Pla	ce [1]						
Type of wearing surface	В	ituminous [6]							
Deck protection									
Type of membrane/wearing	ng surface O	ther [9]							
Weight Limits									
Bypass, detour length	Method to determ	ine inventory rating	Load Facto	r(LF) [1]	Inve	ntory rating	22.7 metric ton	= 25.0 tons	
0.3 km = 0.2 mi	Method to determ	ine operating rating	Load Facto	r(LF) [1]	Ope	rating rating	37.9 metric ton	= 41.7 tons	
	Bridge posting	Equal to or above le	egal loads [5]		Des	ign Load MS	18 / HS 20 [5]		

Functional Details	
Average Daily Traffic 38400 Average daily to	uck traffi 10 % Year 2010 Future average daily traffic 60645 Year 2031
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 6 Approach roadway width 24.4 m = 80.1 ft
Type of service on bridge Highway-pedestrian [5]	Direction of traffic 2 - way traffic [2] Bridge median Closed median (no barriers) [2]
Parallel structure designation No parallel structure	e exists. [N]
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A
Minimum navigation vertical clearance, vertical lift bri	dge 0 m = 0.0 ft Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft
Minimum lateral underclearance reference feature F	eature not a highway or railroad [N]
Minimum lateral underclearance on right $0 = N/A$	Minimum lateral underclearance on left 0 = N/A
Minimum Vertical Underclearance 0 = N/A	Minimum vertical underclearance reference feature Feature not a highway or railroad [N]
Appraisal ratings - underclearances N/A [N]	
Repair and Replacement Plans	
Type of work to be performed	Work done by Work to be done by contract [1]
Replacement of bridge or other structure because of substandard load carrying capacity or substantial	Bridge improvement cost 16344000 Roadway improvement cost 1635000
bridge roadway geometry. [31]	Length of structure improvement 138 m = 452.8 ft Total project cost 24517000
	Year of improvement cost estimate 2011
	Border bridge - state Border bridge - percent responsibility of other state
	Border bridge - structure number

Inspection and Suf	fficiency									
Structure status	Open, would temporary sh		ed or closed except for]	Appraisal ratings - structural	Meets m	Meets minimum tolerable limits to be left in place as is [4]				
Condition ratings -	superstructur	Poor [4]]	Appraisal ratings - roadway alignment						
Condition ratings -	substructure	Fair [5]		Appraisal ratings -	Meets minimum tolerable limits to be left in place as is [4]					
Condition ratings -	deck	Satisfac	ctory [6]	deck geometry						
Scour	Scour Bridge with "unknown" founda			ndation that has not been	evaluated for	scour. [U]				
Channel and channel protection Bank protection is being ero channel. [5]				roded. River control devic	es and/or emb	ankment have major o	damage. Trees and rush restrict the			
Appraisal ratings -	Appraisal ratings - water adequacy Superior to present desirable			ble criteria [9]		Structurally deficient [1]				
Pier or abutment pr	rotection					Sufficiency rating 43.7				
Culverts Not app	licable. Used	if structur	re is not a culvert. [N]							
Traffic safety featu	ıres - railings									
Traffic safety featu	ıres - transitior	ns								
Traffic safety featu	ıres - approacl	h guardra	ail							
Traffic safety features - approach guardrail ends										
Inspection date August 2010 [0810] Designated inspe				spection frequency	12	Months				
Underwater inspe	ection	Every ye	ear [Y12]	Underwater insp	pection date	September 201	0 [0910]			
Fracture critical inspection Not needed [N]				Fracture critical inspection date						
Other special inspection Every year [Y12]				Other special in	spection date	August 2010 [08	810]			

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Basic Information							42-22-06 =	071-03-35 = -
Massachusetts [25] Su	uffolk County [025	j]	Boston [07000]	AT CHAS R	IV NR BOS GARDEN	R BOS GARDEN		71.059722
B1601637MMUNNBI	Highway age	ncy district 6	Owner City or M	unicipal Highway Ag	ency [04] Maintenance	eresponsibility	City or Municipal H	Highway Agency [04]
Route 0	HW	/ N WSHNGTN S	Toll	On free road [3]	Features intersed	cted WATER CHA	ARLES RIVER	
Design - steel [3] main 5 Girder and floor	orbeam system [0	Design - approach 3] 0 Other	er [00]	Year built Skew angle Historical si	#Num! Year red O Structure F	constructed 1956 lared s eligible for the NF	RHP. [2]	
Total length 129.2 m = 4	423.9 ft Le	ength of maximum s	pan 25.9 m = 85.0 ft		n, out-to-out 30.8 m = 10°			24.4 m = 80.1 ft
Inventory Route, Total Ho	orizontal Clearand	e 24.4 m = 80.1 f	Curb or side	walk width - left	2.6 m = 8.5 ft	Curb or sidev	valk width - right	2.3 m = 7.5 ft
Deck structure type		Concrete Cast-in-P	ace [1]					
Type of wearing surface		Bituminous [6]						
Deck protection								
Type of membrane/wearing	ng surface	Other [9]						
Weight Limits								
Bypass, detour length 0.3 km = 0.2 mi		mine inventory ratin			Inventory rating	21.1 metric ton =		
	Method to deter Bridge posting	mine operating ratir Equal to or above		_F) [1]	Operating rating Design Load	35.3 metric ton =	38.8 tons	

Functional Details	
Average Daily Traffic 38400 Average daily tru	uck traffi 10 % Year 2010 Future average daily traffic 60645 Year 2031
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 6 Approach roadway width 24.4 m = 80.1 ft
Type of service on bridge Highway-pedestrian [5]	Direction of traffic 2 - way traffic [2] Bridge median
Parallel structure designation No parallel structure	e exists. [N]
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A
Minimum navigation vertical clearance, vertical lift brid	dge 0 m = 0.0 ft Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft
Minimum lateral underclearance reference feature Fe	eature not a highway or railroad [N]
Minimum lateral underclearance on right $0 = N/A$	Minimum lateral underclearance on left 0 = N/A
Minimum Vertical Underclearance 0 = N/A	Minimum vertical underclearance reference feature Feature not a highway or railroad [N]
Appraisal ratings - underclearances N/A [N]	
Repair and Replacement Plans	
Type of work to be performed	Work done by Work to be done by contract [1]
Replacement of bridge or other structure because of substandard load carrying capacity or substantial	Bridge improvement cost 15525000 Roadway improvement cost 1553000
bridge roadway geometry. [31]	Length of structure improvement 138 m = 452.8 ft Total project cost 23288000
	Year of improvement cost estimate 2011
	Border bridge - state Border bridge - percent responsibility of other state
	Border bridge - structure number

Inspection and Suf	fficiency									
Structure status	Open, would temporary sh		or closed except for	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]					
Condition ratings - s	superstructur	Poor [4]		Appraisal ratings - roadway alignment	isal ratings - ay alignment Somewhat better than minimum adequacy to tolerate being left in place is [5]					
Condition ratings - s	substructure	Fair [5]		Appraisal ratings -	Appraisal ratings - Somewhat better than minimum adequacy to tolerate being left in place as					
Condition ratings - (ition ratings - deck Satisfactory [6]			deck geometry	is [5]					
Scour Bridge with "unknown" foundate				lation that has not been ev	aluated for so	our. [U]				
Channel and channel protection Bank protection is being erochannel. [5]				ded. River control devices	and/or emba	nkment have major d	lamage. Trees and rush restrict the			
Appraisal ratings - \	Appraisal ratings - water adequacy Superior to present desirable			e criteria [9]	eria [9] Status evaluation Structurally deficien					
Pier or abutment pr	Pier or abutment protection				Sufficiency rating 48.1					
Culverts Not appl	licable. Used	if structure i	is not a culvert. [N]							
Traffic safety featu	ıres - railings									
Traffic safety featu	ıres - transitior	ns								
Traffic safety featu	ıres - approacl	h guardrail								
Traffic safety features - approach guardrail ends										
Inspection date August 2010 [0810] Designated inspe				ection frequency 12	М	onths				
Underwater inspe	Underwater inspection Every year [Y12]			Underwater inspec	ction date	September 201	0 [0910]			
Fracture critical in	Fracture critical inspection Not needed [N]			Fracture critical ins	Fracture critical inspection date					
Other special inspection Every year [Y12]				Other special insp	Other special inspection date August 2010 [0810]					