

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.  
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**Basic Information**

Ohio [39]	Cuyahoga County [035]	Cleveland [16000]	.57 MI. E. OF JCT. I-71	41-29-00 = 41.483333	081-41-29 = - 81.691389
1809393	Highway agency district 12	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 90	I-90	Toll On free road [3]	Features intersected	CUY. RIV VALLEY-RTA45	
Design - main Steel [3]	Design - approach Steel continuous [4]	Kilometerpoint 2454 km = 1521.5 mi	Year built 1959	Year reconstructed N/A [0000]	
9	Truss - Deck [09]	33	Stringer/Multi-beam or girder [02]	Skew angle 0	Structure Flared Yes, flared [1]
		Historical significance Bridge is not eligible for the NRHP. [5]			
Total length 1547.8 m = 5078.3 ft	Length of maximum span 121.9 m = 400.0 ft	Deck width, out-to-out 35.5 m = 116.5 ft	Bridge roadway width, curb-to-curb 33.5 m = 109.9 ft		
Inventory Route, Total Horizontal Clearance 15.9 m = 52.2 ft	Curb or sidewalk width - left 0.9 m = 3.0 ft	Curb or sidewalk width - right 0.9 m = 3.0 ft			
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Other [9]				
Deck protection					
Type of membrane/wearing surface					

**Weight Limits**

Bypass, detour length 0.3 km = 0.2 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	14.3 metric ton = 15.7 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	18.8 metric ton = 20.7 tons
Bridge posting	Equal to or above legal loads [5]		Design Load	MS 18+Mod / HS 20+Mod [6]

### Functional Details

Average Daily Traffic  Average daily truck traffi  % Year  Future average daily traffic  Year

Road classification  Lanes on structure  Approach roadway width

Type of service on bridge  Direction of traffic  Bridge median

Parallel structure designation

Type of service under bridge  Lanes under structure  Navigation control

Navigation vertical clearanc  Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge  Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right  Minimum lateral underclearance on left

Minimum Vertical Underclearance  Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

### Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost  Roadway improvement cost

Length of structure improvement  Total project cost

Year of improvement cost estimate

Border bridge - state  Border bridge - percent responsibility of other state

Border bridge - structure number

## Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations (including piles) on dry land well above flood water elevations. [9]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	19
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	November 2010 [1110]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	November 2010 [1110]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**  
Structure File Number **1809393**  
Sufficiency Rating: **19.0 SD**

**Bridge Inventory Information**  
Inventory Bridge Number: **CUY 00090 1524**  
**ON CUY. RIV VALLEY-RTA45**

Report Date **09/18/2012** **BM-191** Page: 1 of 2  
**BR. Type STEEL / TRUSS / DECK**  
Date of Last Inventory Update: **09/02/2011**

District: **12** County **CUYAHOGA** (101) Location: **.57 MI. E. OF JCT. I-71** (102) Facility Carried: **I-90**  
(2) FIPS Code: **CLEVELAND** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**  
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **Y** (12) Parallel: **N**  
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY/WATERWAY/RAI**

**Inventory Route Data**  
(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY** (63) Main Spans Number: **9** Type: **STEEL / TRUSS / DECK**  
Route No.: **00090** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **33** Type: **STEEL / BEAM / CONTINUOUS**  
Total Spans: **42** (65) Max Span: **400 Ft** (66) Overall Leng: **5078 Ft**

(4) Feature Intersected: **CUY. RIV VALLEY-RTA45** (70) Substructure (71) Foundation and Scour Information  
(5) County: **CUY** Mileage: **1524** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **STUB GRAVITY** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**  
(6) Avg. Daily Traffic(ADT): **132,090** (7) ADT Year: **2010** Abut-Fwd Matl: **CONCRETE** Type: **STUB GRAVITY** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**  
(8) Truck Traf: **5,990** (14) NHS: **YES - N** (15) Corridor: **Y** Pier-Pred Matl: **CONCRETE** Type: **CAPPED COLUMN** Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**  
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate** Pier-Other Matl: **CONCRETE** Type: **CELLULAR OR "U"** Fnd: **STEEL H PILES (OTHER SIZE)**

**Intersected Route Data**  
(22) Route On/Under: **UNDER** Hwy Sys: **U.S. NUMBERED HIGHWAY** No of Piers Predominate: **18** Other: **10** Other: **NN**  
Route No.: **00422** Dir: Des: **1** Pref: (86) Stream Velocity: **005.2** (74) Scour: **FND/PILES ABOVE FLOOD WATER ELEVATIONS**  
(23) Feature Intersected: **IR-90** (189) Dive: **N Freq: 0** Probe: **N Freq: 0** (75) Chan Prot: **SHEET PILING**  
(24) County: **CUY** Mileage: **0065** Special Desig: (189) Date of last Dive Insp: (152) Drainage Area: **UUU Sq Mi**

(27) Truck Traf: **940** (28) NHS: **YES - H** (29) Corridor: **N**  
(30) Functional Class: **OTHER PRINCIPAL ARTERIAL-URBAN** (36) Strahnt: **Interstate**  
**Clearance Under the Bridge**  
(156) Min. Horiz Under Clear: NC: **83.0 Ft** Card: **79.2 Ft**  
(157) Prac Max Vrt Under Clear: **15.6 Ft**  
(77) Min Vert Under Clear: NC: **15.6 Ft** Card: **14.5 Ft**  
(78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**

**Clearance On the Bridge**  
(154) Min Hriz on Bridge: NC: **52.0 Ft** Card: **52.0 Ft**  
(155) Prac Max Vert On Brg: **9999.9 Ft**  
(67) Min Vrt Clr On Brg: NC: **0.0 Ft** Card: **9999.9 Ft**  
(80) Min Latl Clr: NC: **1.7 / 1.7 Ft** Card: **1.7 / 1.7 Ft**  
(81) Vrt Clr Lft: **0.0 Ft**

**Structure Information**  
(38) Bypass Length: **02 Miles**  
(39) Latitude: **41 Deg 29.0 Min** Longitude: **81 Deg 41.5 Min**  
(40) Toll: **ON FREE ROAD**  
(41) Date Built: **07/01/1959** (42) Major Rehabilitation:  
(43) No. Lanes On: **8** No. Lanes Under: **20**  
(44) Horiz Curve: **01 Deg. D30M Min.** (45) Skew: **0 Deg**  
(49) App. Rdw Width: **110 Ft** (50) Brg. Rdw Width: **110.0 Ft**  
(51) Deck Width: **116.3 Ft** Deck Area: **590739 Sq. Ft**

(52) Median Type: **RAISED MED / CONCRETE B / OPEN JOINT**  
(53) Bridge Median: **CLOSED MEDIAN WITH NONMOUNTABLE BARRIERS**  
(54) Sidewalks: (left) **3 Ft** (right) **3 Ft**  
(55) Type Curb or Sidewalks:  
(Left) Matl: **STEEL** Type: **SIDEWALK(>2')**  
(Right) Matl: **STEEL** Type: **SIDEWALK(>2')**  
(56) Flared: **Y** (57) Composite: **non-composite**  
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)**  
(59) Deck Drainage: **DRN TROUGH UNDR OPEN JNTS**  
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST)**  
(61) Deck Protection: External: **NONE**  
Internal: **NONE**  
(62) Wearing Surface: **SUPERPLASTICIZED DENSE CONCRETE (SDC) OV**  
Thickness: **2.0 in** (119) Date of Wearing Surface:  
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

**Load Rating Information** (88-89) Appraisal  
(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING** (Including calculated Items)  
(83) Operating: **21 Ton**  
Inventory: **16 Ton**  
Ohio Percent of Legal Load **100** (88) Waterway Adequacy **9**  
Year of Rating: **2009** (89) Approach Alignment **8**  
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **3**  
(85) Rate Soft: **SAP/STAAD, OTHER** Analyzed by: **REL** Calc Deck Geometry: **4**  
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **3**

**Approach Information**  
(109) Approach Guardrail: **STEEL BEAM**  
(110) Approach Pavement: **BITUMINOUS** (111) Grade: **FAIR**

**Culvert Information**  
(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0 Ft**  
(129) Depth of Fill: **0.0 Ft** (130) Headwalls: **NONE**

**General Information**  
(121) Main Member **RIVETED BUILT-UP STEEL** (122) Moment Plate: **RIVETED OR BOLTED**  
(169) Expansion Joint: **METAL FINGER**  
(124) Bearing Devices: **OTHER/NONE**  
(126) Navigation: **Control- N** Vert Clr: **0.0 Ft** Horiz Clear: **0.0 Ft**  
(193) Spec Insp: **N** Freq: **0** Date:  
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2010-11-05**  
(138) Long Member: **THREE OR MORE TRUSSES (RIVETED)** (135) Hinges: **PINS AND HANGERS**  
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**  
Railing: **UNKNOWN**  
Paint: **PAINT SYSTEM A WITH INTERMED. TIE**  
Pay Wt: **45,389,352 pounds** Prime Loc: **FIELD**  
Bridge Dedicated Name:

Unit of Measure: **English**  
 Structure File Number **1809393**  
 Sufficiency Rating: **19.0 SD**

**Bridge Inventory Information**  
 Inventory Bridge Number: **CUY 00090 1524**  
**ON CUY. RIV VALLEY-RTA45**

Report Date **09/18/2012** **BM-191** Page: 2 of 2  
**BR. Type STEEL/TRUSS/DECK**  
 Date of Last Inventory Update: **09/02/2011**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NOT HISTORIC</b>		(69) NBIS: <b>Y</b>		(142) Fabricator:			
(---) Hist Builder: <b>HOWARD NEEDLES TAMMEN &amp; BERGENDOFF</b>		Hist Build Year: <b>1959</b>		(143) Contractor: <b>HORVITZ CO.</b>			
(69) Hist Type: <b>CANITLEVER</b>				(144) Ohio Original Construction Project No.: <b>046154</b>			
(161) Special Features (see below):				(---) Microfilm Reel: <b>CUY016</b>			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
				Aperture Cards: Orig: <b>Y</b> Repair: <b>Y</b> Fabr: <b>Y</b>			
Proposed Improvements		Programming Info		Plan Information Available: <b>1PLAN INFORMATION AVAILABLE</b>			
(90) Type Work: <b>33 - BRG/STR WIDENING W/O DECK REHAB OR REPL</b>		PID Number: <b>24166</b>		(153) Repair Projects			
(90) Length: Ft		PID Status: <b>IA-OTHER</b>		1. / <b>020</b>	2. <b>720546 / 044</b>	3. <b>770201 / 099</b>	
(90) Bridge Cost (\$1000s): <b>0</b>		PID Date: <b>06/12/2003</b>		4. <b>780828 / 044</b>	5. <b>790121 / 044</b>	6. <b>820407 / 044</b>	
(90) Roadway Cost (\$1000s): <b>0</b>				7. <b>830588 / 040</b>	8. / <b>020</b>	9. / <b>020</b>	
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		10. / <b>020</b>			
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2029</b>					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>5</b>	Railings: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	(I-32) Superstructure: <b>3</b>	Transitions: <b>1 MEETS CURRENT STANDARDS</b>	(46) Electric: <b>U</b>	(161) Lighting: <b>Y</b>		
(I-42) Substructure: <b>6</b>	Guardrail: <b>1 MEETS CURRENT STANDARDS</b>	(I-50) Culvert: <b>6</b>	Rail Ends: <b>1 MEETS CURRENT STANDARDS</b>	Gas: <b>U</b>	Fencing: <b>N</b>		
(I-54) Channel: <b>7</b>	In Depth: <b>N NONE N/A</b>	(I-60) Approaches: <b>6</b>	Fracture Critical: <b>N NONE N/A</b>	Sanitary Sewer: <b>U</b>	Glare-Screen: <b>N</b>		
(I-66) Operational Status: <b>A</b>	Critical Findings: <b>N NONE N/A</b>	(I-66) General Appraisal: <b>3</b>	Scour Critical: <b>N NONE N/A</b>	Telephone: <b>U</b>	Splash-Guard: <b>N</b>		
Inspection Date: <b>10/14/2011</b>	Insp. Update Date: <b>02/16/2012</b>	(I-66) Operational Status: <b>A</b>	Critical Findings: <b>N NONE N/A</b>	TV Cable: <b>U</b>	Catwalks: <b>N</b>		
(94) Desig Insp Freq: <b>12 Months</b>				Water: <b>U</b>	Other-Feat: <b>U</b>		
				Other: <b>U</b>	(184) Signs-on: <b>Y</b>		
					Signs-Under: <b>N</b>		
					(162) Fence-Ht: <b>0.0 Ft</b>		
					(163) Noise Barr: <b>N</b>		
SFNs Replacing this retired bridge:	-						
SFNs That where replaced by this bridge:	-						
This bridge was retired and copied to:				INV Field Bridge Marker:	<b>CUY-00090-1524 -</b>		
The bridge was copied from:				INT Field Bridge Marker:	<b>CUY-00422-0065 -</b>		

**PONTIS CoRe elements and Condition States**

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	100	0
131	PAINTED STEEL DECK TRUSS	10154	LF	0	100	0	0	0
215	REINFORCED CONC ABUTMENT	233	LF	0	0	100	0	0
234	REINFORCED CONC CAP	2093	LF	0	100	0	0	0
303	ASSEMBLY JOINT/SEAL	233	LF	0	0	100	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	100	0	0	0
330	METAL BRIDGE RAILING	20308	LF	0	0	0	100	0

(\*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
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1	8	0	9	3	9	3
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Bridge Number **CUY 00090 1524** CLEVELAND  
CO ROUTE UNIT

Date Built **07/01/1959**

District **12** Bridge Type **STEEL/TRUSS/DECK**

Type Service **1 18 CUY. RIV VALLEY-RTA45**

**CUY**

<b>DECK</b>		Out/Out 116.3	2	THCK = 2.0		2
1. Floor	1-REINF CONCRT (PRESTRSD	8	2	2. Wearing Surface	A-SUPERPLASTICIZED DENSE	41
		2-STEEL	2	W.S. Date =		2
3. Curbs, Sidewalks, Walkways	2-STEEL	9	2	4. Median		42
5. Railing	6-STEEL POST & STEEL PAN	10	2	6. Drainage	5-DRN TROUGH UNDR OPEN J	43
7. Expansion Joints	1-METAL FINGER	11	2	<b>8. Summary</b>		44
<b>SUPERSTRUCTURE</b>		MAX.SPAN=400	2			3
9. Alignment		12	2	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL	45
		TOT.LGTH=5078	2			3
11. Diaphragms or Crossframes		13	2	12. Joists/Stringers		46
13. Floor Beams		14	3	14. Floor Beam Connections		47
15. Verticals		15	3	16. Diagonals		48
17. End Posts		16	2	18. Top Chord		49
19. Lower Chord		17	2	20. Lower Lateral Bracing		50
21. Top Lateral Bracing		18		22. Sway Bracing		51
23. Portals		19		24. Bearing Devices	0-OTHER N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 8-PAINT SYSTEM A WITH IN DATE = 01/01/1986	54
29. Pins/Hangers/Hinges		22	3	30. Fatigue Prone Connections		55
31. Live Load Response		23	S	<b>32. Summary</b>		56
<b>SUBSTRUCTURE</b>		2-CONCRETE	2	PIERS=28 SPANS = 9		2
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57
35. Piers	TYPE = 2-CONCRETE	25	2	36. Pier Seats		58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=CIP REI / CIP REI	59
39. Fenders and Dolphins		27		40. Scour	9-FND/PILES ABOVE FLOOD	60
41. Slope Protection	1-CONCRETE (CAST)	28	1	<b>42. Summary</b>		62
				DIVE DT=N/A		6
<b>CULVERTS</b>						
43. General		29		44. Alignment		63
45. Shape		30		46. Seams		64
47. Headwalls or Endwalls		31		48. Scour		65
49.		32		50. Summary		66
<b>CHANNEL</b>				3-SHEET PILING		2
51. Alignment		33	1	52. Protection		67
53. Waterway Adequacy		34	1	<b>54. Summary</b>		68
<b>APPROACHES</b>						
55. Pavement	2-BITUMINOUS	35	1	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	1	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=110.0	37	2	<b>60. Summary</b>		71
				PCT.LEGAL=100		6
<b>GENERAL</b>				ROUTINE.RESP: 1-OHIO TRAN DEPT		1
61. Navigation Lights		38	4	62. Warning Signs	MAINT.RESP: 1-OHIO TRAN DEPT	72
		MVC ON=9999 UND=14.5	3			3
63. Sign Supports		39	3	64. Utilities		73
65. Vertical Clearance		40	1	<b>66. General Appraisal &amp; Operational Status</b>		74
						COND 3 STAT A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

6	8	1	7	7
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76 PE

A	G
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78 INITIALS

SIGNED

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81 PE

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83 INITIALS

DOT 2852

DECK AREA 590,739

Date

1	0	1	4	1	1
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86

91

0	1	1	1	N	N	N	N
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92

69 Survey

99

Date

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100

105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
**BRIDGE INSPECTION REPORT**

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1	8	0	9	3	9	3
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1 Structure File Number 7

Bridge Number **CUY** **00090** **1524**  
CO ROUTE UNIT

**Date Built 07/01/1959**

District **12** Bridge Type **STEEL/TRUSS/DECK**

Type Service **1 18**

**CUY. RIV VALLEY-RTA45**

Deck FLOOR: The floor is in fair condition. The only portions of the floor that are visible are located at both approaches. The truss portion is covered by stay in place forms which have surface corrosion. At the East Approach, there are random locations of spalling with exposed rebar. Most of the heavier spalling occurs along the fascia and cantilever portions. The West Approach has abundant spalling with exposed rebar as well as random locations of hairline transverse cracks with efflorescence. Majority of the spalling occurs at the cantilever portion between the two bridges (EB & WB).

Deck WEARING SURFACE: The wearing surface is in generally fair condition with some transverse and map cracking, isolated pot holes, and breaking up areas near joint armor that are periodically repaired. There are also minor failures of a few patches.

Deck CURBS, SIDEWALKS AND WALKWAYS: There are multiple cracked welds in the metal walkway and access hatch cover supports.

Deck RAILING: The median barrier has vertical cracks and some staining across the entire structure. There are also a few minor spalls with rebar showing. A portable concrete barrier has been placed in the north shoulder of the east approach and appears to serve no purpose. There are multiple cracks and missing bolts in the railing curb and the edge railing. Most of the deterioration for the edge railing occurs at the light pole supports which act as railing post. The railing curb has cracked and broken welds and is no longer continuous in some areas.

Deck DRAINAGE: Some scuppers in the approach spans need to be cleared out. The scuppers in the truss spans were generally clear with a few containing minor amounts of debris. A few downspouts and collectors are clogged. Several of the drains at ground level are clogged. One drainpipe at the west approach is broken. Water does effectively drain from the roadway, but leaks all over the truss. Some of the drain coverings on the deck are loose and make a loud noise (see the 2011 Routine Bridge Inspection Report for exact locations).

Deck EXPANSION JOINTS: The vertical offset of the west end pier joints was found to be <1". The damage to the fingers at that location is still present. The finger joint between Pier#s 1 and 2 have a vertical offset of #". Only the finger joint between Pier 5 and Pier 6 was found to be horizontally offset. The joints in the approach spans are filling with debris.

Deck CONTRACTION JOINTS: About 25% of these joints were not level. Predominately those were also adjacent to a deck drain. Most have at least minor debris. About 30% have some gland damage. Minor to sever spalls were found at every joint location. Five joints were missing portions of their armor and four had snow plow damage.

Deck ABUTMENT JOINTS: The abutment joints are in fair to good condition.

Superstructure BEAMS/GIRDERS: The girders are in fair condition. Previously noted cracks have holes drilled to arrest the crack growth. No cracks extended beyond the drilled holes. The girders in Span 3E2 have fire damage. Span 5E1 has a homeless camp set up underneath making inspection of the area difficult. New cracks have been found in a few girders that need holes drilled to stop the crack growth (see the 2011 Routine Bridge Inspection Report for exact locations).

Superstructure JOINTS/STRINGERS: Typically, the stringers have light surface corrosion except where the drains and expansion





Superstructure	rollers) at both approaches. Typically the expansion
Superstructure	rollers have laminating corrosion with section loss. Pack
Superstructure	rust has also formed where the tooth fits into the bar
Superstructure	groove. The expansion rollers at the on-ramp from W 14th St
Superstructure	are overly rotated, especially the roller at Girder S. The
Superstructure	East Approach has pins and hangers located in Span 2E2.
Superstructure	There is pack rust between the linkage members and the
Superstructure	girders.
Superstructure	FATIGUE PRONE CONNECTIONS: Multiple areas where tack welds
Superstructure	were used to hold plates together prior to riveting.
Superstructure	Crossbracing and stiffener attachments to beams.
Superstructure	LIVE LOAD RESPONSE: The excessive movement seen during the
Superstructure	previous inspections was not witnessed during the 2011
Superstructure	routine inspection.
Substructure	ABUTMENT SEATS: Minor spalls; water, dirt, and debris.
Substructure	PIERS: The west approach piers have minor isolated
Substructure	delaminations. Pier 6R (located under the expansion joint)
Substructure	has extensive delaminated areas. The east approach piers
Substructure	have minor isolated delaminations. The columns of Piers 7B,
Substructure	8B, and 9B have been wrapped. Piers 8B and 9B were more
Substructure	severely delaminated. The main truss piers have some
Substructure	delaminated areas. Some have extensive delaminated areas.
Substructure	The north column of Pier 5 has sections of missing concrete
Substructure	with exposed, rusting reinforcement at the top. The north
Substructure	column of Pier 7 has missing concrete and exposed
Substructure	reinforcement at one corner at the top.
Substructure	PIER SEATS: Most pier seats have spalls and deterioration
Substructure	with most spalling occurring between the outside bearing and
Substructure	the edge of the pier.
Substructure	BACKWALLS: Backwalls are wet when it rains and have some
Substructure	scaling. The forward abutment under the #3 and #4 lanes
Substructure	eastbound is in poor condition, with a large open
Substructure	construction joint between the #3 and #2 lanes eastbound.
Channel	PROTECTION: There is some section loss on the east side,
Channel	but the west side is in good condition.
Approaches	PAVEMENT: There are cracks in the asphalt adjacent to the
Approaches	expansion joints in some locations. The pavement away from
Approaches	the joints is in good condition.
Approaches	APPROACH SLABS: The approach slabs that do not have an
Approaches	overlay are in good condition.
Approaches	GUARDRAIL: The crash attenuator at the Broadway exit ramp
Approaches	is damaged.
Approaches	EMBANKMENT: Erosion at north end of Forward Abutment and
Approaches	south end of Piers 1E-2 and 2E-1.
General	NAVIGATION LIGHTS: All six lights are burned out or
General	extremely dim. The navigation light in Span 2 on the south
General	truss is not attached. Currently, it is sitting on top of
General	the lower chord.
General	SIGN SUPPORTS: There is heavy corrosion on the sign support
General	with section loss. There is also debris build-up on the
General	horizontal surfaces.
General	UTILITIES: One of the light posts in Span 9 is attached to
General	railing that is heavily corroded. The railing has corrosion
General	holes. New electric conduit broken in some locations and
General	the old conduit and wiring are deteriorated & falling.
General	There are several light posts and junction boxes are missing
General	covers.