CUY-90-14.90

PID 77332/85531

APPENDIX ST-05

Bridge Inventory and Inspection Data
(Reference Document)

State of Ohio
Department of Transportation
Jolene M. Molitoris, Director

Innerbelt Bridge
Construction Contract Group 1 (CCG1)

Revision Date: October 19, 2009

District: **12** County **CUYAHOGA** (101) Location: **.27 MI. N 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: **1-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **Y** (12)Parallel: **L**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **STARKWEATHER AVE**
(5) County: **CUY** Mileage: **1490** Special Desig: **L**
(6) Avg. Daily Traffic(ADT): **59,710** (7) ADT Year: **2007**
(8) Truck Traf: **4,885** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **SKWTR** Dir: Des: **1** Pref:
(23) Feature Intersected: **I-90 WB (ONLY)**
(24) County: **CUY** Mileage: **0000** Special Desig:
(25) Avg. Daily Traffic(ADT): **100** (26) ADT Year: **1970**
(27) Truck Traf: **0** (28) NHS: **NO** - **X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **38.0** 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: **4.7 / 8.7** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **01** Miles
(39) Latitude: **41 Deg 28.7 Min** Longitude: **81 Deg 41.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1968** (42) Major Rehabilitation:
(43) No. Lanes On: **2** No. Lanes Under: **3**
(44) Horiz Curve: **01 Deg. 28 Min.** (45) Skew: **1** Deg
(49) App. Rdw Width: **36** Ft (50) Brg. Rdw Width: **38.0** Ft
(51) Deck Width: **42.0** Ft Deck Area: **6975** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINFORCED CONCRETE PARAPET**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **DENSE CONCRETE (IOWA SYSTEM) OVERLAY**
Thickness: **1.2** in (119) Date of Wearing Surface: **10/31/2004**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **3** Type: **STEEL** / **BEAM** / **CONTINUOUS**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **3** (65) Max Span: **67** Ft (66) Overall Leng: **166** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **52.0** Ft
(157) Prac Max Vrt Under Clear: **16.8** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **16.8** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **6.0 / 6.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1973**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **7**
Calc Deck Geometry: **6**
Calc Underclearance: **4**

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 **ROLLED STEEL** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **21572**
PID Status: **PROGRAM**
PID Date: **11/16/2000**

Original Plans Information

(142) Fabricator: **MUNSTER STEEL**
(143) Contractor: **HORVITZ CO.**
(144) Ohio Original Construction Project No.: **018365**
(---) Microfilm Reel: **CUY031**
(151) Standard Drawing: **SD-1-63**
Aperture Cards: Orig: **Y** Repair: **Y** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **780828 / 044**	3. **/**
4. **/ 049**	5. **/ 049**	6. **/ 059**
7. **/ 039**	8. **/ 004**	9.
10.		

Inspection Summary

(I-8) Deck:	**6**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**7**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**7**
(I-66) General Appraisial:	**7**
(I-66) Operational Status:	**A**
Inspection Date:	**11/13/2008**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**1 MEETS CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**02/17/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1490 -L**
INT Field Bridge Marker: **CUY-SKWTR-0000 -**

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	0	0
215	REINFORCED CONC ABUTMENT	84	LF	0	0	0	0	0
234	REINFORCED CONC CAP	84	LF	0	0	0	0	0
304	OPEN EXPANSION JOINT	84	LF	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
331	CONCRETE BRIDGE RAILING	332	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 8 0 9 3 4 2
1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1490** (UNIT) **L** **CLEVELAND** **Date Built 07/01/1968**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 STARKWEATHER AVE** **CUY**

DECK Out/Out 42.0			2. Wearing Surface THCK = 1.2 4-DENSE CONCRETE (IOWA S 41	2	1
1. Floor 1-REINF CONCRT (PRESTRSD 8	2				
3. Curbs, Sidewalks, Walkways N-NONE N-NONE 9			4. Median W.S. Date = 10/31/2004 42		
5. Railing 1-REINFORCED CONCRETE PA 10	1		6. Drainage 3-SCUPPERS & DWNSPTS 43	2	2
7. Expansion Joints 2-SLIDING METAL PLATE AN 11	2		**8. Summary** 44		6
SUPERSTRUCTURE MAX.SPAN=67					
9. Alignment 12	1		10. Beams/Girders/Slab 1-ROLLED STEEL 45	1	1
TOT.LGTH=166					
11. Diaphragms or Crossframes 13	1		12. Joists/Stringers 46		
13. Floor Beams 14			14. Floor Beam Connections 47		
15. Verticals 15			16. Diagonals 48		
17. End Posts 16			18. Top Chord 49		
19. Lower Chord 17			20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
23. Portals 19			24. Bearing Devices 2-ROCKERS N-NONE 52	1	
25. Arch 20			26. Arch Columns or Hangers 53		
27. Spandrel Walls 21			28. Protective Coating System TYPE = 5-PAINT SYSTEM OZEU DATE = 08/01/1994 54	8	
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		
31. Live Load Response 23	S		**32. Summary** 56	7	
SUBSTRUCTURE 2-CONCRETE			PIERS=2 SPANS = 3		
33. Abutments 2-CONCRETE 24	1		34. Abutment Seats 57	1	
35. Piers TYPE = 2-CONCRETE 25	1		36. Pier Seats 58	1	
37. Backwalls 26	1		ABUTMENT:=CIP REI / CIP REI 38. Wingwalls 59	1	
39. Fenders and Dolphins 27			40. Scour N-BRIDGE NOT OVER WATERW 60		
41. Slope Protection 1-CONCRETE (CAST) 28	1		**42. Summary** DIVE DT=N/A 62	7	
CULVERTS					
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		
CHANNEL			X-N/A		
51. Alignment 33			52. Protection 67		
53. Waterway Adequacy 34			**54. Summary** 68		
APPROACHES					
55. Pavement 2-BITUMINOUS 35	1		56. Approach Slabs 69	1	
57. Guardrail 1-STEEL BEAM 36	1		58. Relief Joints 70	1	
59. Embankment BRDG.WIDTH=38.0 37	1		**60. Summary** PCT.LEGAL=150 71	7	
GENERAL			ROUTINE.RESP: 1-OHIO TRAN DEPT		
61. Navigation Lights 38			62. Warning Signs MAINT.RESP: 1-OHIO TRAN DEPT 72		
MVC ON=9999 UND=0000					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40	1		**66. General Appraisal & Operational Status** 74	COND 7	STAT A

67. INSPECTED BY

SIGNED

76 PE

K J B
78 INITIALS

68. REVIEWED BY

SIGNED

6 0 0 0 4 8
81 PE

M J M
83 INITIALS

DOT 2852

DECK AREA 6,975

Date 1 1 1 3 0 8
86 91

1 1 1 1 1 N N N
92 69 Survey 99

Date 0 2 1 7 0 9
100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	9	3	4	2

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1490** (UNIT) **L**

Date Built 07/01/1968

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **1** **1**

STARKWEATHER AVE

Deck	FL: TRANSVERSE CRACKS @ 15' SPACING. SOME AREAS WITH MAP
Deck	CRACKS. AREAS OF EFFLORESCENCE. 5-10% MOTTLED. MINOR
Deck	DELAMS. 5-10% DETERIORATED.
Deck	WS: A FEW CRACKS. <1% DETERIORATED.
Deck	RAILING: RUST STAINED VERTICAL CRACKS.
Deck	DRAINAGE: PARTIALLY PLUGGED SCUPPERS.
Deck	EXJTS: 10 LF OF 1" WIDE START (NORTH) JOINT ARMOR IS MISSING
Deck	LANE #1. A FEW GOUGES. AREAS OF WATER LEAKING.
Superstructure	BEAMS: MINOR RUSTED SECTION LOSS NEAR ABUTMENTS.
Superstructure	XFRAMES: MINOR ENDFRAME RUSTED SECTION LOSS.
Superstructure	PCS: MINOR RUST. <1% DETERIORATED.
Substructure	BACKWALLS: CRACKS. A FEW SPALLS AND DELAMINATIONS.
Approaches	PAVEMENT: NEW AT FINISH. START; CRACKS. MINOR POTHOLES AND
Approaches	ASPHALT PATCHES.

District: **12** County **CUYAHOGA**
(2)FIPS Code: **CLEVELAND**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA**

(101) Location: **.27 MI. N OF JCT I-71**
(103) Route On Bridge: **STATE (ODOT)**
(11)Truck Network: **Y**
(100) Type Serv: (On): **HIGHWAY**

(102) Facility Carried: **I-90 AND I-71**
(104) Route Under Bridge: **MUNICIPAL**
(12)Parallel: **R**
(Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **STARKWEATHER AVE**
(5) County: **CUY** Mileage: **1490** Special Desig: **R**
(6) Avg. Daily Traffic(ADT): **59,710** (7) ADT Year: **2004**
(8) Truck Traf: **4,885** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **SKWTR** Dir: Des: **1** Pref:
(23) Feature Intersected: **I-90 EB (ONLY)**
(24) County: **CUY** Mileage: **0000** Special Desig:
(25) Avg. Daily Traffic(ADT): **100** (26) ADT Year: **1970**
(27) Truck Traf: **0** (28) NHS: **NO** - **X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **52.5** Ft Card: **86.5** 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: **4.7 / 8.7** Ft Card: **4.7 / 8.7** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **01** Miles
(39) Latitude: **41 Deg 28.7 Min** Longitude: **81 Deg 41.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1968** (42) Major Rehabilitation:
(43) No. Lanes On: **5** No. Lanes Under: **3**
(44) Horiz Curve: **01 Deg. 28 Min.** (45) Skew: **10** Deg
(49) App. Rdw Width: **137** Ft (50) Brg. Rdw Width: **139.0** Ft
(51) Deck Width: **144.0** Ft Deck Area: **23907** Sq. Ft
(52) Median Type: **RAISED MED / STEEL BARR / OPEN JOINT**
(53) Bridge Median: **OPEN MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINFORCED CONCRETE PARAPET**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **DENSE CONCRETE (IOWA SYSTEM) OVERLAY**
Thickness: **1.2** in (119) Date of Wearing Surface: **10/31/2004**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **3** Type: **STEEL / BEAM / CONTINUOUS**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **67** Ft (66) Overall Leng: **166** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **52.0** Ft
(157) Prac Max Vrt Under Clear: **18.3** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **18.3** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **6.0 / 6.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1973**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **7**
Calc Deck Geometry: **9**
Calc Underclearance: **4**

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 **ROLLED STEEL** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **21572**
PID Status: **PROGRAM**
PID Date: **11/16/2000**

Original Plans Information

(142) Fabricator: **MUNSTER STEEL**
(143) Contractor: **HORVITZ CO.**
(144) Ohio Original Construction Project No.: **018365**
(---) Microfilm Reel: **CUY031**
(151) Standard Drawing: **SD-1-63**
Aperture Cards: Orig: **Y** Repair: **Y** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **780828 / 044**	3. **/**
4. **/ 049**	5. **/ 059**	6. **/ 039**
7. **/ 004**	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**6**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**7**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**6**
(I-66) General Appraisial:	**7**
(I-66) Operational Status:	**A**
Inspection Date:	**11/13/2008**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**0 DOES NOT MEET CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**0 DOES NOT MEET CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**01/26/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1490 -R**
INT Field Bridge Marker: **CUY-SKWTR-0000 -**

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	0	0
215	REINFORCED CONC ABUTMENT	292	LF	0	0	0	0	0
234	REINFORCED CONC CAP	292	LF	0	0	0	0	0
304	OPEN EXPANSION JOINT	292	LF	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
331	CONCRETE BRIDGE RAILING	664	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	6	2	5

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1490** (UNIT) **R** **CLEVELAND** **Date Built 07/01/1968**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 STARKWEATHER AVE** **CUY**

DECK Out/Out 144.0		2	2. Wearing Surface THCK = 1.2 4-DENSE CONCRETE (IOWA S 41		1
1. Floor 1-REINF CONCRT (PRESTRSD 8					
3. Curbs, Sidewalks, Walkways N-NONE N-NONE 9			4. Median W.S. Date = 10/31/2004 42		2
5. Railing 1-REINFORCED CONCRETE PA 10		1	6. Drainage 3-SCUPPERS & DWNSPTS 43		1
7. Expansion Joints 2-SLIDING METAL PLATE AN 11		1	**8. Summary** 44		6
SUPERSTRUCTURE MAX.SPAN=67					
9. Alignment 12		1	10. Beams/Girders/Slab 1-ROLLED STEEL 45		1
TOT.LGTH=166					
11. Diaphragms or Crossframes 13		1	12. Joists/Stringers 46		
13. Floor Beams 14			14. Floor Beam Connections 47		
15. Verticals 15			16. Diagonals 48		
17. End Posts 16			18. Top Chord 49		
19. Lower Chord 17			20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
23. Portals 19			24. Bearing Devices 2-ROCKERS N-NONE 52		2
25. Arch 20			26. Arch Columns or Hangers 53		
27. Spandrel Walls 21			28. Protective Coating System TYPE = 5-PAINT SYSTEM OZEU DATE = 08/01/1994 54		8
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		
31. Live Load Response 23		S	**32. Summary** 56		7
SUBSTRUCTURE 2-CONCRETE			PIERS=2 SPANS = 3		
33. Abutments 2-CONCRETE 24		1	34. Abutment Seats 57		1
35. Piers TYPE = 2-CONCRETE 25		1	36. Pier Seats 58		1
37. Backwalls 26		1	38. Wingwalls ABUTMENT:=CIP REI / CIP REI 59		1
39. Fenders and Dolphins 27			40. Scour N-BRIDGE NOT OVER WATERW 60		
41. Slope Protection 1-CONCRETE (CAST) 28		1	**42. Summary** DIVE DT=N/A 62		7
CULVERTS					
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		
CHANNEL			X-N/A		
51. Alignment 33			52. Protection 67		
53. Waterway Adequacy 34			**54. Summary** 68		
APPROACHES					
55. Pavement 2-BITUMINOUS 35		2	56. Approach Slabs 69		2
57. Guardrail 1-STEEL BEAM 36		1	58. Relief Joints 70		1
59. Embankment BRDG.WIDTH=139.0 37		2	**60. Summary** PCT.LEGAL=150 71		6
GENERAL			ROUTINE.RESP: 1-OHIO TRAN DEPT		
61. Navigation Lights 38			62. Warning Signs MAINT.RESP: 1-OHIO TRAN DEPT 72		
MVC ON=9999 UND=0000					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40		1	**66. General Appraisal & Operational Status** 74	COND 7	STAT A

67. INSPECTED BY 68. REVIEWED BY

SIGNED 76 PE K J B 78 INITIALS SIGNED 81 PE 6 0 0 4 8 M J M 83 INITIALS

DOT 2852 DECK AREA 23,907 Date 1 1 1 3 0 8 (86–91) 1 0 1 0 1 N N N (92 69 Survey 99) Date 0 1 2 6 0 9 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	6	2	5

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1490** (UNIT) **R**

Date Built 07/01/1968

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS**

Type Service **1** **1 1**

STARKWEATHER AVE

Deck	FL: TRANSVERSE CRACKS @ 15' SPACING. STALACTITES. DELAMS.
Deck	15% MOTTLED. 30 SF OF SPALLS MOSTLY ALONG MEDIAN. 5-10%
Deck	DETERIORATED. SPALL FORMING OVER TRAFFIC; SEE ATTACHED
Deck	WO# 240 2009 14.
Deck	WS: CRACKS. <1% DETERIORATED.
Deck	MEDIAN: CRACKS. SPALLS. DELAMS.
Deck	RAILING: CRACKS.
Deck	DRAINAGE: PARTIALLY PLUGGED SCUPPERS. 2" LOOSE DEBRIS IN SB
Deck	GUTTER.
Deck	EXJT: AREAS OF RISER BAR MISSING. WATER LEAKS AT SEVERAL
Deck	AREAS.
Superstructure	BEAMS: MINOR RUSTED SECTION LOSS.
Superstructure	XFRAMES: MINOR ENDFRAME RUSTED SECTION LOSS.
Superstructure	BEARINGS: LOOSE ABUTMENT ROCKERS: START (S) ROCKERS 11,15,
Superstructure	AND 16. FINISH ROCKERS 3,4 AND 10. MOST START ROCKERS
Superstructure	TIPPED IN. PIER #1 ROCKERS 1 THRU 7 TIPPED IN @ 45
Superstructure	DEGREES F.
Superstructure	PCS: MINOR RUST. <1% DETERIORATED.
Substructure	ABUTMENTS: A FEW SPALLS. CRACKS. DELAMINATIONS.
Substructure	PIERS: CAP DELAMINATIONS.
Substructure	BACKWALLS: SPALLS. CRACKS. AND DELAMINATIONS.
Approaches	PAVEMENT: CRACKS. ASPHALT PATCHES. ASPHALT BREAK-UP NEAR
Approaches	EXJT'S.
Approaches	APPROACH SLAB: SLIGHT BOUNCE ONTO BRIDGE FINISH ABUTMENT IN
Approaches	71 SOUTHBOUND LANES, THIS CAUSES A LOAD
Approaches	RUMBLE NOISE BELOW.
Approaches	EMBANKMENT: EROSION AT FINISH-RIGHT, WINGWALL IS UNDERMINED
Approaches	HERE; L=4', T=22", V=3.5"; SEE ATTACHED PHOTO 1
Approaches	DATED 11/13/08.

District: **12** County **CUYAHOGA**
(2)FIPS Code: **CLEVELAND**
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA**

(101) Location: **.39 MI. N. OF JCT. I-71**
(103) Route On Bridge: **STATE (ODOT)**
(11)Truck Network: **Y**
(100) Type Serv: (On): **HIGHWAY**

(102) Facility Carried: **I-90**
(104) Route Under Bridge: **MUNICIPAL**
(12)Parallel: **N**
(Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **KENILWORTH AVE**
(5) County: **CUY** Mileage: **1506** Special Desig:
(6) Avg. Daily Traffic(ADT): **119,420** (7) ADT Year: **2004**
(8) Truck Traf: **9,770** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **KNLWH** Dir: Des: **1** Pref:
(23) Feature Intersected: **IR 90**
(24) County: **CUY** Mileage: **0000** Special Desig:
(25) Avg. Daily Traffic(ADT): **100** (26) ADT Year: **1970**
(27) Truck Traf: **0** (28) NHS: **NO** - **X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **64.4** Ft Card: **64.4** 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: **4.7 / 8.7** Ft Card: **4.7 / 8.7** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **02** Miles
(39) Latitude: **41 Deg 28.8 Min** Longitude: **81 Deg 41.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1967** (42) Major Rehabilitation:
(43) No. Lanes On: **8** No. Lanes Under: **4**
(44) Horiz Curve: **01 Deg. 28 Min.** (45) Skew: **12** Deg
(49) App. Rdw Width: **135** Ft (50) Brg. Rdw Width: **135.0** Ft
(51) Deck Width: **139.3** Ft Deck Area: **23692** Sq. Ft
(52) Median Type: **RAISED MED / STEEL BARR / OPEN JOINT**
(53) Bridge Median: **OPEN MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINFORCED CONCRETE PARAPET**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **DENSE CONCRETE (IOWA SYSTEM) OVERLAY**
Thickness: **1.2** in (119) Date of Wearing Surface: **10/31/2004**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **3** Type: **STEEL / BEAM / CONTINUOUS**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **69** Ft (66) Overall Leng: **170** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **52.0** Ft
(157) Prac Max Vrt Under Clear: **14.5** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **14.5** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **6.0 / 6.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1973**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **9**
Calc Underclearance: **4**

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 **ROLLED STEEL** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **22737**
PID Status: **IA-OTHER**
PID Date: **06/13/2002**

Original Plans Information

(142) Fabricator: **MUNSTER STEEL**
(143) Contractor: **HORVITZ CO.**
(144) Ohio Original Construction Project No.: **018365**
(---) Microfilm Reel: **CUY031**
(151) Standard Drawing:
Aperture Cards: Orig: **Y** Repair: **Y** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **780828 / 044**	3. **920725 / 041**
4. **920955 / 041**	5. **/**	6. **/ 049**
7. **/ 039**	8. **/ 040**	9. **/ 004**
10. **/ 049**		

Inspection Summary

(I-8) Deck:	**6**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**6**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**A**
Inspection Date:	**05/18/2009**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**0 DOES NOT MEET CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**0 DOES NOT MEET CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**10/12/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1506 -**
INT Field Bridge Marker: **CUY-KNLWH-0000 -**

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	0	0
215	REINFORCED CONC ABUTMENT	285	LF	0	0	0	0	0
234	REINFORCED CONC CAP	285	LF	0	0	0	0	0
304	OPEN EXPANSION JOINT	285	LF	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
331	CONCRETE BRIDGE RAILING	680	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 8 0 7 6 8 4
1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1506** (UNIT) **CLEVELAND** **Date Built 07/01/1967**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 KENILWORTH AVE** **CUY**

DECK Out/Out 139.3		2	THCK = 1.2		1
1. Floor 8	1-REINF CONCRT (PRESTRSD		2. Wearing Surface 41	4-DENSE CONCRETE (IOWA S	
N-NONE			W.S. Date = 10/31/2004		2
3. Curbs, Sidewalks, Walkways 9	N-NONE		4. Median 42		
5. Railing 10	1-REINFORCED CONCRETE PA	1	6. Drainage 43	3-SCUPPERS & DWNSPTS	1
7. Expansion Joints 11	2-SLIDING METAL PLATE AN	1	**8. Summary** 44		6
SUPERSTRUCTURE MAX.SPAN=69		1			1
9. Alignment 12			10. Beams/Girders/Slab 45	1-ROLLED STEEL	
TOT.LGTH=170		1			
11. Diaphragms or Crossframes 13			12. Joists/Stringers 46		
13. Floor Beams 14			14. Floor Beam Connections 47		
15. Verticals 15			16. Diagonals 48		
17. End Posts 16			18. Top Chord 49		
19. Lower Chord 17			20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
			2-ROCKERS		2
23. Portals 19			24. Bearing Devices 52	N-NONE	
25. Arch 20			26. Arch Columns or Hangers 53		
			TYPE = 5-PAINT SYSTEM OZEU		7
27. Spandrel Walls 21			28. Protective Coating System 54	DATE = 01/01/1994	
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		
31. Live Load Response 23		S	**32. Summary** 56		7
SUBSTRUCTURE 2-CONCRETE		1	PIERS=2	SPANS = 3	1
33. Abutments 24	2-CONCRETE		34. Abutment Seats 57		
35. Piers 25	TYPE = 2-CONCRETE	1	36. Pier Seats 58		1
		2	ABUTMENT:=CIP REI / CIP REI		1
37. Backwalls 26			38. Wingwalls 59		
39. Fenders and Dolphins 27			40. Scour 60	N-BRIDGE NOT OVER WATERW	
41. Slope Protection 28	1-CONCRETE (CAST)	1	**42. Summary** 62	DIVE DT=N/A	6
CULVERTS					
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		
CHANNEL				X-N/A	
51. Alignment 33			52. Protection 67		
53. Waterway Adequacy 34			**54. Summary** 68		
APPROACHES		2			1
55. Pavement 35	2-BITUMINOUS		56. Approach Slabs 69		
57. Guardrail 36	1-STEEL BEAM	1	58. Relief Joints 70		
59. Embankment 37	BRDG.WIDTH=135.0	1	**60. Summary** 71	PCT.LEGAL=150	6
GENERAL			ROUTINE.RESP: 1-OHIO TRAN DEPT		
61. Navigation Lights 38			62. Warning Signs 72	MAINT.RESP: 1-OHIO TRAN DEPT	
MVC ON=9999 UND=0000					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40		1	**66. General Appraisal & Operational Status** 74	COND: 6 STAT: A	

67. INSPECTED BY

SIGNED _____ 76 PE _____ 78 INITIALS M J S

68. REVIEWED BY

SIGNED _____ 81 PE 6 0 0 0 4 8 83 INITIALS M J M

DOT 2852

DECK AREA 23,692

Date 0 5 1 8 0 9 (86–91)

1 0 1 0 1 N N N (92 — 69 Survey — 99)

Date 1 0 1 2 0 9 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	6	8	4

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1506** (UNIT)

Date Built 07/01/1967

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **1** **1**

KENILWORTH AVE

Deck	FL: LEACHING CRACKS. LARGE MOTTLED AREAS WITH STALACTITES
Deck	UNDER WESTBOUND LANES. RUST STAINS. 20 SF OF SPALLS.
Deck	SEE ATTACHED PHOTO 2 DATED 9/18/08. 35-40% DET. SPALLS
Deck	FORMING OVER TRAFFIC. SEE ATTACHED WO # 240 2009 13.
Deck	WS: A FEW CRACKS. <1% DETERIORATED.
Deck	MEDIAN: SPALLS. CRACKS. DELAMS. HEAVY DETERIORATION TO SOUTH
Deck	END OF WESTBOUND MEDIAN. SEE ATTACHED PHOTO 1 DATED
Deck	9/18/08.
Deck	RAILINGS: LEACHED CRACKS. SPALL TO RIGHT OUTSIDE RAIL.
Deck	DRAINAGE: RUST THRU HOLE IN DOWNSPOUT NEAR FINISH IN BAY 1.
Superstructure	BEAMS: RUSTED SECTION LOSS TO FASCIA AND MEDIAN BAY BEAMS.
Superstructure	XFRAMES: RUSTED SECTION LOSS TO ENDFRAMES.
Superstructure	BEARINGS: FINISH ROCKER #7 IS LOOSE AND FINISH ROCKER 5 IS
Superstructure	TIPPED OUT AT 60 DEGREES F.
Superstructure	PCS: 1% RUST. MINOR PEELING. 1-5% DETERIORATED.
Substructure	ABUTMENTS: 1/16" WIDE THRU CRACK AT BAY #1 IN START
Substructure	ABUTMENT WHICH EXTENDS THRU BACKWALL.
Substructure	PIERS: MINOR CAP DELAMINATIONS.
Substructure	BACKWALLS: CRACKS. DELAMINATIONS. SHALLOW SPALLS.
Approaches	PAVEMENT: CRACKS, SHALLOW SPALLS & MINOR BREAK-UP OF EB
Approaches	CONCRETE APPROACH SLABS. CRACKS AND A FEW POTHOLES
Approaches	IN ASPHALT PAVEMENT OF WB APPROACHES.

District: **12** County **CUYAHOGA** (101) Location: **.11 MI. E. OF JCT. I-77** (102) Facility Carried: **I-90**
(2)FIPS Code: **CLEVELAND** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **1-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, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00077** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **EAST 14TH ST**
(5) County: **CUY** Mileage: **1597** Special Desig: **L**
(6) Avg. Daily Traffic(ADT): **21,630** (7) ADT Year: **2001**
(8) Truck Traf: **2,120** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **E14TH** Dir: Des: **1** Pref:
(23) Feature Intersected: **IR 77 SB MAINLINE**
(24) County: **CUY** Mileage: **2038** Special Desig:
(25) Avg. Daily Traffic(ADT): **1,000** (26) ADT Year: **1973**
(27) Truck Traf: **0** (28) NHS: **NO** - **X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **35.8** 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: **2.9 / 8.5** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **01** Miles
(39) Latitude: **41 Deg 29.8 Min** Longitude: **81 Deg 40.6 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1963** (42) Major Rehabilitation:
(43) No. Lanes On: **1** No. Lanes Under: **6**
(44) Horiz Curve: **01 Deg. 30 Min.** (45) Skew: **99** Deg
(49) App. Rdw Width: **36** Ft (50) Brg. Rdw Width: **35.8** Ft
(51) Deck Width: **40.5** Ft Deck Area: **11625** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(Right) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINF CONCR SAFETY CURB&PRPT W.ALUM RAIL**
(59) Deck Drainage: **INLETS W/DRN PIPES**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **OTHER**
Internal: **NONE**
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY**
Thickness: **2.2** in (119) Date of Wearing Surface: **11/15/2000**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **4** Type: **STEEL** / **BEAM** / **CONTINUOUS**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **4** (65) Max Span: **100** Ft (66) Overall Leng: **287** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **03**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **50.0** Ft Card: **42.0** Ft
(157) Prac Max Vrt Under Clear: **18.8** Ft
(77) Min Vert Under Clear: NC: **15.2** Ft Card: **18.8** Ft
(78) Min Lat Under Clear: NC: **17.0 / 10.0** Ft Card: **17.0 / 10.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1986**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **4**
Calc Underclearance: **6**

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 **WELDED BUILT-UP STEEL** (122) Moment Plate: **RIVETED OR BOLTED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(69) NBIS: **Y**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **24169**
PID Status: **IA-OTHER**
PID Date: **04/03/2003**

Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No.: **006860**
(---) Microfilm Reel: **CUY021**
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **Y** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **860277 / 020**	3. **920725 / 041**
4. **/**	5. **/ 004**	6. **/ 040**
7. **/ 059**	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**5**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**6**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**A**
Inspection Date:	**07/09/2008**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**1 MEETS CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**01/28/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00077-1597 -L**
INT Field Bridge Marker: **CUY-E14TH-2038 -**

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	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	574	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	9	1	9

1 Structure File Number 7

Bridge Number **CUY** (CO) **00077** (ROUTE) **1597** (UNIT) **L** **CLEVELAND** **Date Built 07/01/1963**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 EAST 14TH ST** **CUY**

DECK Out/Out 40.5		2		THCK = 2.2	2
1. Floor	1-REINF CONCRT (PRESTRSD 8		2. Wearing Surface	C-MICROSILICA MODIFIED C 41	
	1-CONCRETE	2		W.S. Date = 11/15/2000	
3. Curbs, Sidewalks, Walkways	1-CONCRETE 9		4. Median	42	
5. Railing	3-REINF CONCR SAFETY CUR 10	2	6. Drainage	4-INLETS W/DRN PIPES 43	2
7. Expansion Joints	2-SLIDING METAL PLATE AN 11	1	**8. Summary**	44	5
SUPERSTRUCTURE MAX.SPAN=100		1			1
9. Alignment	12		10. Beams/Girders/Slab	3-WELDED BUILT-UP STEEL 45	
TOT.LGTH=287		1			
11. Diaphragms or Crossframes	13		12. Joists/Stringers	46	
13. Floor Beams	14		14. Floor Beam Connections	47	
15. Verticals	15		16. Diagonals	48	
17. End Posts	16		18. Top Chord	49	
19. Lower Chord	17		20. Lower Lateral Bracing	50	
21. Top Lateral Bracing	18		22. Sway Bracing	51	
23. Portals	19		24. Bearing Devices	2-ROCKERS N-NONE 52	1
25. Arch	20		26. Arch Columns or Hangers	53	
27. Spandrel Walls	21		28. Protective Coating System	TYPE = 5-PAINT SYSTEM OZEU DATE = 01/01/1986 54	7
29. Pins/Hangers/Hinges	22		30. Fatigue Prone Connections	55	
31. Live Load Response	23	S	**32. Summary**	56	7
SUBSTRUCTURE 2-CONCRETE		2	PIERS=3	SPANS = 4	1
33. Abutments	2-CONCRETE 24		34. Abutment Seats	57	
35. Piers	TYPE = 2-CONCRETE 25	2	36. Pier Seats	58	1
37. Backwalls	26	2	38. Wingwalls	ABUTMENT:=CIP REI / CIP REI 59	1
39. Fenders and Dolphins	27		40. Scour	N-BRIDGE NOT OVER WATERW 60	
41. Slope Protection	1-CONCRETE (CAST) 28	1	**42. Summary**	DIVE DT=N/A 62	6
CULVERTS					
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	
CHANNEL				X-N/A	
51. Alignment	33		52. Protection	67	
53. Waterway Adequacy	34		**54. Summary**	68	
APPROACHES					
55. Pavement	2-BITUMINOUS 35	2	56. Approach Slabs	69	
57. Guardrail	1-STEEL BEAM 36	1	58. Relief Joints	70	
59. Embankment	BRDG.WIDTH=35.8 37	1	**60. Summary**	PCT.LEGAL=150 71	6
GENERAL					
61. Navigation Lights	38		62. Warning Signs	ROUTINE.RESP: 1-OHIO TRAN DEPT MAINT.RESP: 1-OHIO TRAN DEPT 72	
MVC ON=9999 UND=15.2					
63. Sign Supports	39		64. Utilities	73	
65. Vertical Clearance	40	1	**66. General Appraisal & Operational Status**	74 COND 6 STAT A	

67. INSPECTED BY

SIGNED

76 PE

D E E 78 INITIALS

68. REVIEWED BY

SIGNED

6 0 0 0 4 8 81 PE

M J M 83 INITIALS

DOT 2852

DECK AREA 11,625

Date 0 7 0 9 0 8 (86–91)

1 1 1 1 1 N N N (92 69 Survey 99)

Date 0 1 2 8 0 9 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	9	1	9

1 Structure File Number 7

Bridge Number **CUY** (CO) **00077** (ROUTE) **1597** (UNIT) **L**

Date Built 07/01/1963

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **1** **1**

EAST 14TH ST

Deck	FLOOR: TIMBER-SUBDECKED OVER TRAFFIC. CRACKS.
Deck	AT LEAST 15% MOTTLED. 100 SF SPALLED.
Deck	30 LF OF REBAR HAS FALLEN OFF THE LEFT DECK EDGE IN
Deck	SPAN #1. DECK IS 4 INCHES THICK AT OPEN JOINT
Deck	BETWEEN WB I-90 BRIDGE NEAR START ABUTMENT DUE TO
Deck	SPALLING OF EDGE (TRAFFIC RUNS ACROSS JOINT); SEE
Deck	ATTACHED PHOTO #1 DATED 5/02/06. 360 DEGREE EXPOSURE
Deck	OF REBARS ALONG OPEN LONGITUDINAL JOINT.
Deck	FLOOR IS 10-15% DET.
Deck	WS: WIDE CRACKS. 20 SF OF CONCRETE PATCHES.
Deck	WS IS 1-5% DET.
Deck	CURBS: CRACKS. SPALLS.
Deck	BRAILS: CRACKS. A FEW SPALLS. COLLISION DAMAGE TO STEEL
Deck	PANELS OF BOTH BRAILS. BRAIL SPALL FORMING OVER
Deck	TRAFFIC; SEE ATTACHED WORK ORDER 240 2009 5.
Deck	DRAINAGE: DEBRIS AND DIRT AS THICK AS 4 INCHES IN RIGHT
Deck	BERM.
Superstructure	BEARINGS: HEAVY RUSTING. SOME ROCKERS ARE PARTIALLY
Superstructure	ENGULFED IN DIRT AND DEBRIS.
Superstructure	PAINT: 1% RUST. PAINT 1-5% DET.
Substructure	ABUTMENTS: HEAVY DEBRIS ON START ABUTMENT SEAT.
Substructure	DELAMINATIONS. ONE SF SPALL OF FINISH ABUTMENT
Substructure	BELOW BAY #1.
Substructure	PIERS: DELAMINATIONS AND SPALLS OF PIER CAP #1.
Substructure	BACKWALLS: SPALL IN FINISH BACKWALL BEHIND GIRDER #1 WITH
Substructure	ONE LF OF 360 DEGREE REBAR EXPOSURE; LTV OF SPALL
Substructure	IS (6 INCHES, 22 INCHES, 10 INCHES).
Substructure	PLYWOOD FORMWORK IN BAY #4 AT START BACKWALL.
Approaches	PAVEMENT: WIDE LONGITUDINAL CRACKS IN START APPROACH
Approaches	PAVEMENT.

District: **12** County **CUYAHOGA** (101) Location: **.12 MI. W. OF JCT I-77** (102) Facility Carried: **RAMP EN**
(2)FIPS Code: **CLEVELAND** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **1-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, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **RAMP OR WYE** Pref:
(4) Feature Intersected: **EAST 9TH ST**
(5) County: **CUY** Mileage: **1628** Special Desig: **EW**
(6) Avg. Daily Traffic(ADT): **6,090** (7) ADT Year: **2001**
(8) Truck Traf: **560** (14) NHS: **YES - N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **0E9TH** Dir: Des: **1** Pref:
(23) Feature Intersected: **E9TH TOGO 90WB**
(24) County: **CUY** Mileage: **0002** Special Desig:
(25) Avg. Daily Traffic(ADT): **100** (26) ADT Year: **1970**
(27) Truck Traf: **0** (28) NHS: **NO - X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **18.4** 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: **2.7 / 6.5** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **02** Miles
(39) Latitude: **41 Deg 29.7 Min** Longitude: **81 Deg 40.9 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1962** (42) Major Rehabilitation:
(43) No. Lanes On: **1** No. Lanes Under: **8**
(44) Horiz Curve: **02 Deg. 00 Min.** (45) Skew: **99** Deg
(49) App. Rdw Width: **18** Ft (50) Brg. Rdw Width: **18.4** Ft
(51) Deck Width: **20.7** Ft Deck Area: **4779** Sq. Ft
(52) Median Type: **NONE / NON BARRIE / NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(Right) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINFORCED CONCRETE & STEEL**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **OTHER**
Internal: **NONE**
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY**
Thickness: **2.2** in (119) Date of Wearing Surface: **11/15/2000**

(63) Main Spans Number: **3** Type: **STEEL / BEAM / CONTINUOUS**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **87** Ft (66) Overall Leng: **231** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **24.0** Ft Card: **35.0** Ft
(157) Prac Max Vrt Under Clear: **15.3** Ft
(77) Min Vert Under Clear: NC: **15.3** Ft Card: **15.2** Ft
(78) Min Lat Under Clear: NC: **1.0 / 10.0** Ft Card: **1.0 / 10.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **33** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1986**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **4**
Calc Underclearance: **6**

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 **ROLLED STEEL** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **EEU**
Bridge Dedicated Name:

Slope Protection: **CONCRETE (CAST-IN-PLACE)**

Unit of Measure: **English**
Structure File Number **1807552**
Sufficiency Rating: **90.6 SD**

Bridge Inventory Information
Inventory Bridge Number:**CUY 00090 1628 EW**
ON EAST 9TH ST

Report Date 10/15/2009 BM-191 Page: 2 of **2**
BR. Type STEEL/BEAM/CONTINUOUS
Date of Last Inventory Update: 01/26/2009

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **24169**
PID Status: **IA-OTHER**
PID Date: **04/03/2003**

Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No.: **006860**
(---) Microfilm Reel: **CUY016**
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **/ 020**	3. **/**
4. **/ 040**	5. **/ 004**	6. **/ 040**
7. **/ 059**	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**4**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**7**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**A**
Inspection Date:	**04/24/2009**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**1 MEETS CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**10/12/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1628 -EW**
INT Field Bridge Marker: **CUY-0E9TH-0002 -**

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	462	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 8 0 7 5 5 2
1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1628** (UNIT) **EW** **CLEVELAND**

Date Built 07/01/1962

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS**

Type Service **1** **11 EAST 9TH ST** **CUY**

DECK Out/Out 20.7				THCK = 2.2	
1. Floor 1-REINF CONCRT (PRESTRSD 8	3	2. Wearing Surface C-MICROSILICA MODIFIED C 41	2
1-CONCRETE		W.S. Date = 11/15/2000	
3. Curbs, Sidewalks, Walkways 1-CONCRETE 9	2	4. Median 42	
5. Railing 2-REINFORCED CONCRETE & 10	1	6. Drainage 3-SCUPPERS & DWNSPTS 43	1
7. Expansion Joints 2-SLIDING METAL PLATE AN 11	1	**8. Summary** 44	4
SUPERSTRUCTURE MAX.SPAN=87			
9. Alignment 12	1	10. Beams/Girders/Slab 1-ROLLED STEEL 45	1
TOT.LGTH=231			
11. Diaphragms or Crossframes 13	2	12. Joists/Stringers 46	
13. Floor Beams 14		14. Floor Beam Connections 47	
15. Verticals 15		16. Diagonals 48	
17. End Posts 16		18. Top Chord 49	
19. Lower Chord 17		20. Lower Lateral Bracing 50	
21. Top Lateral Bracing 18		22. Sway Bracing 51	
		2-ROCKERS	
23. Portals 19		24. Bearing Devices N-NONE 52	1
25. Arch 20		26. Arch Columns or Hangers 53	
		TYPE = A-EEU	
27. Spandrel Walls 21		28. Protective Coating System DATE = 05/01/1985 54	6
29. Pins/Hangers/Hinges 22		30. Fatigue Prone Connections 55	1
31. Live Load Response 23	S	**32. Summary** 56	7
SUBSTRUCTURE 2-CONCRETE		PIERS=2 SPANS = 3	
33. Abutments 2-CONCRETE 24	2	34. Abutment Seats 57	1
35. Piers TYPE = 2-CONCRETE 25	1	36. Pier Seats 58	1
		ABUTMENT:=CIP REI / CIP REI	
37. Backwalls 26	1	38. Wingwalls 59	1
39. Fenders and Dolphins 27		40. Scour N-BRIDGE NOT OVER WATERW 60	
41. Slope Protection 1-CONCRETE (CAST) 28	1	**42. Summary** DIVE DT=N/A 62	6
CULVERTS			
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	
CHANNEL		X-N/A	
51. Alignment 33		52. Protection 67	
53. Waterway Adequacy 34		**54. Summary** 68	
APPROACHES			
55. Pavement 2-BITUMINOUS 35	2	56. Approach Slabs 69	1
57. Guardrail 1-STEEL BEAM 36	1	58. Relief Joints 70	
59. Embankment BRDG.WIDTH=18.4 37	1	**60. Summary** PCT.LEGAL=150 71	7
GENERAL		ROUTINE.RESP: 1-OHIO TRAN DEPT	
61. Navigation Lights 38		62. Warning Signs MAINT.RESP: 1-OHIO TRAN DEPT 72	
MVC ON=9999 UND=15.2			
63. Sign Supports 39		64. Utilities 73	
65. Vertical Clearance 40	1	**66. General Appraisal & Operational Status** 74	COND 6 STAT A

67. INSPECTED BY

SIGNED

76 PE

M J S
78 INITIALS

68. REVIEWED BY

SIGNED

6 0 0 0 4 8
81 PE

M J M
83 INITIALS

DOT 2852

DECK AREA 4,779

Date 0 4 2 4 0 9
86 91

1 1 1 1 1 N N N
92 69 Survey 99

Date 1 0 1 2 0 9
100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	5	5	2

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1628** (UNIT) **EW**

Date Built 07/01/1962

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS**

Type Service **1** **1** **1**

EAST 9TH ST

Deck	FL: TIMBER SUB-DECKED. 25% MOTTLED. 120 SF SPALLED. LEACHING
Deck	MAP CRACKS. 6" DEEP DETERIORATION OF LEFT DECK EDGE
Deck	NEAR FINISH (WEST) ABUTMENT WITH EXPOSED REBAR. FLOOR IS
Deck	30 TO 40 % DETERIORATED.
Deck	WS: AREAS OF MAP CRACKING. TRANSVERSE & LONGITUDINAL CRACKS.
Deck	MINOR DELAMINATIONS. 1-5% DETERIORATED.
Deck	CURBS: CRACKS. SPALLS WITH 2' OF 360 DEGREE REBAR EXPOSED
Deck	AT FINISH, BY MERGE.
Deck	RAILING: MINOR DELAMINATIONS & SPALLS.
Superstructure	BEAMS: RUSTING SECTION LOSS NEAR ABUTMENTS.
Superstructure	XFRAMES: HEAVY ENDFRAME RUSTING SECTION LOSS.
Superstructure	BEARINGS: FINISH ABUTMENT ROCKER 1 IS TIPPED OUT TO MAX
Superstructure	@ 65 DEGREES F.
Superstructure	PCS: 1% RUST. PAINT FAILING AT BEAM ENDS. FADED PAINT. 5-10%
Superstructure	DET. SEE ITEM BEAMS ABOVE.
Superstructure	FPC: ENDS OF WELDED COVER PLATES ON BOTTOM FLANGES ARE IN
Superstructure	POSITIVE MOMENT AREAS.
Substructure	ABUTMENTS: SPALLS. CRACKS. SCALING. DELAMINATIONS. SEE
Substructure	ATTACHED PHOTO DATED 04/24/09.
Substructure	ABUTMENT SEATS: SPALLS & DELAMINATIONS. DIRT AND DEBRIS ON
Substructure	BOTH SEATS.
Substructure	BACKWALLS: CRACKS. MINOR DELAMINATIONS. LARGE SPALL BEHIND
Substructure	BEAM 1R AT START (EAST). MINOR SPALLS AT FINISH.
Substructure	SLOPE PROTECTION: CRACKS.
Approaches	PAVEMENT: ASPHALT PATCHES. MINOR POTHOLES @ FINISH.
Approaches	GUARDRAIL: MINOR COLLISION DAMAGE TO START-LEFT AND
Approaches	START-RIGHT GUARDRAIL.
General	CLAB

District: **12** County **CUYAHOGA**
(101) Location: **.12 MI W. OF JCT I-77** (102) Facility Carried: **I-90 WB.**
(2)FIPS Code: **CLEVELAND** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **1-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **Y** (12)Parallel: **L**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **EAST 9TH ST (NORTH HALF)**
(5) County: **CUY** Mileage: **1628** Special Desig: **L**
(6) Avg. Daily Traffic(ADT): **49,860** (7) ADT Year: **2007**
(8) Truck Traf: **4,215** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **0E9TH** Dir: Des: **1** Pref:
(23) Feature Intersected: **IR 90**
(24) County: **CUY** Mileage: **0001** Special Desig:
(25) Avg. Daily Traffic(ADT): **100** (26) ADT Year: **1970**
(27) Truck Traf: **0** (28) NHS: **NO** - **X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **47.8** 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: **2.7 / 8.5** Ft Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **02** Miles
(39) Latitude: **41 Deg 29.7 Min** Longitude: **81 Deg 40.9 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1962** (42) Major Rehabilitation:
(43) No. Lanes On: **3** No. Lanes Under: **8**
(44) Horiz Curve: **02 Deg. 00 Min.** (45) Skew: **99** Deg
(49) App. Rdw Width: **48** Ft (50) Brg. Rdw Width: **47.8** Ft
(51) Deck Width: **51.8** Ft Deck Area: **12228** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(Right) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINFORCED CONCRETE & STEEL**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **OTHER**
Internal: **NONE**
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY**
Thickness: **2.2** in (119) Date of Wearing Surface: **11/15/2000**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **3** Type: **STEEL** / **BEAM** / **CONTINUOUS**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **3** (65) Max Span: **89** Ft (66) Overall Leng: **236** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **24.0** Ft Card: **35.0** Ft
(157) Prac Max Vrt Under Clear: **15.4** Ft
(77) Min Vert Under Clear: NC: **15.4** Ft Card: **15.3** Ft
(78) Min Lat Under Clear: NC: **1.0 / 10.0** Ft Card: **1.0 / 10.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **35** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1986**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **4**
Calc Underclearance: **6**

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 **ROLLED STEEL** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **EEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **24169**
PID Status: **IA-OTHER**
PID Date: **04/03/2003**

Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No.: **006860**
(---) Microfilm Reel: **CUY016**
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **N** Fabr: **Y**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **/ 020**	3. **920725 / 041**
4. **/**	5. **/ 049**	6. **/ 040**
7. **/ 004**	8. **/ 040**	9. **/ 059**
10.		

Inspection Summary

(I-8) Deck:	**4**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**7**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**A**
Inspection Date:	**04/24/2009**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**1 MEETS CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**10/12/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1628 -L**
INT Field Bridge Marker: **CUY-0E9TH-0001 -**

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	470	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 8 0 7 4 9 8
1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1628** (UNIT) **L** **CLEVELAND** **Date Built 07/01/1962**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 EAST 9TH ST (NORTH HALF)** **CUY**

DECK Out/Out 51.8			2. Wearing Surface THCK = 2.2 C-MICROSILICA MODIFIED C 41	1	
1. Floor 1-REINF CONCRT (PRESTRSD 8	3				
3. Curbs, Sidewalks, Walkways 1-CONCRETE 1-CONCRETE 9	2		4. Median W.S. Date = 11/15/2000 42		
5. Railing 2-REINFORCED CONCRETE & 10	1		6. Drainage 3-SCUPPERS & DWNSPTS 43	2	
7. Expansion Joints 2-SLIDING METAL PLATE AN 11	1		**8. Summary** 44		4
SUPERSTRUCTURE MAX.SPAN=89					
9. Alignment 12	1		10. Beams/Girders/Slab 1-ROLLED STEEL 45	1	
TOT.LGTH=236					
11. Diaphragms or Crossframes 13	2		12. Joists/Stringers 46		
13. Floor Beams 14			14. Floor Beam Connections 47		
15. Verticals 15			16. Diagonals 48		
17. End Posts 16			18. Top Chord 49		
19. Lower Chord 17			20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
23. Portals 19			24. Bearing Devices 2-ROCKERS N-NONE 52	2	
25. Arch 20			26. Arch Columns or Hangers 53		
27. Spandrel Walls 21			28. Protective Coating System TYPE = A-EEU DATE = 01/01/1985 54	6	
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55	1	
31. Live Load Response 23	S		**32. Summary** 56	7	
SUBSTRUCTURE 2-CONCRETE			PIERS=2 SPANS = 3		
33. Abutments 2-CONCRETE 24	2		34. Abutment Seats 57	1	
35. Piers TYPE = 2-CONCRETE 25	2		36. Pier Seats 58	1	
37. Backwalls 26	2		38. Wingwalls ABUTMENT:=CIP REI / CIP REI 59	1	
39. Fenders and Dolphins 27			40. Scour N-BRIDGE NOT OVER WATERW 60		
41. Slope Protection 1-CONCRETE (CAST) 28	1		**42. Summary** DIVE DT=N/A 62	6	
CULVERTS					
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		
CHANNEL			X-N/A		
51. Alignment 33			52. Protection 67		
53. Waterway Adequacy 34			**54. Summary** 68		
APPROACHES					
55. Pavement 2-BITUMINOUS 35	1		56. Approach Slabs 69	1	
57. Guardrail 1-STEEL BEAM 36	1		58. Relief Joints 70		
59. Embankment BRDG.WIDTH=47.8 37	1		**60. Summary** PCT.LEGAL=150 71	7	
GENERAL			ROUTINE.RESP: 1-OHIO TRAN DEPT		
61. Navigation Lights 38			62. Warning Signs MAINT.RESP: 1-OHIO TRAN DEPT 72		
MVC ON=9999 UND=15.3					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40	1		**66. General Appraisal & Operational Status** 74	COND 6	STAT A

67. INSPECTED BY

SIGNED

76 PE

M J S
78 INITIALS

68. REVIEWED BY

SIGNED

6 0 0 0 4 8
81 PE

M J M
83 INITIALS

DOT 2852

DECK AREA 12,228

Date 0 4 2 4 0 9
86 91

1 1 1 1 1 N N N
92 69 Survey 99

Date 1 0 1 2 0 9
100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	4	9	8

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1628** (UNIT) **L**

Date Built 07/01/1962

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **1** **1**

EAST 9TH ST (NORTH HALF)

Deck	FL: TIMBER SUB-DECKED. LEACHING MAP CRACKS. EPOXY INJECTED
Deck	AREAS. 35% MOTTLED. STALACTITES AS LONG AS 8". 20 SF OF
Deck	SPALLS. 6" DETERIORATION ALONG RIGHT DECK EDGE NEAR
Deck	FINISH ABUTMENT. 25 TO 40% DETERIORATED.
Deck	WS: CRACKS. 120 SF OF CONCRETE PATCHES. A FEW LONGITUDINAL
Deck	CRACKS. 1 TO 5% DETERIORATED.
Deck	CURBS: CRACKS AND SPALLS. 1' OF 360~ REBAR EXPOSURE.
Deck	RAILING: CRACKS AND SPALLS. SOME RUST STAINS. PATCHED AREA
Deck	IN LEFT PARAPET.
Deck	DRAINAGE: DOWNSPOUT AT P2C1 IS PLUGGED.
Deck	EXJT: MISSING RISER BARS AT START AND FINISH ARE ASPHALTED
Deck	OVER.
Superstructure	BEAMS: RUSTING SECTION LOSS NEAR ABUTMENTS. 1/16" GAP
Superstructure	BETWEEN TOP FLANGE OF SEVERAL START BEAM ENDS AND
Superstructure	CONCRETE DECK.
Superstructure	XFRAMES: ENDFRAME RUSTING SECTION LOSS.
Superstructure	BEARINGS: RUSTING SECTION LOSS. ROCKER 1 @ FINISH TIPPED OUT
Superstructure	@ 65 DEGREES F.
Superstructure	PCS: 1% RUST. PAINT FAILING AT BEAM ENDS. FADED PAINT.
Superstructure	5-10% DETERIORATED.
Superstructure	FPC: ENDS OF WELDED COVER PLATES ON BOTTOM FLANGES ARE IN
Superstructure	POSITIVE MOMENT AREAS.
Substructure	ABUTMENTS: A FEW SPALLS & DELAMINATIONS AT FINISH. LONG
Substructure	HORIZONTAL CRACK 8" BELOW FINISH ABUTMENT SEAT.
Substructure	ABUTMENT SEAT: CRACKS. SPALLS. DELAMINATIONS. 4" THICK DIRT
Substructure	AND DEBRIS ON SEATS.
Substructure	PIERS: SPALLS TO LEFT END OF BOTH PIER CAPS. DELAMS TO CAPS.
Substructure	DELAMINATED COLUMN AREA ON P2C1.
Substructure	BACKWALLS: DELAMINATIONS. SOME SPALLS.
Substructure	SLOPE PROTECTION: CRACKS.
Approaches	PAVEMENT: NEW IN 2008.
General	CLAB

District: **12** County **CUYAHOGA** (101) Location: **.12 MI. W. OF JCT I-77** (102) Facility Carried: **I-90 EB.**
(2)FIPS Code: **CLEVELAND** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **1-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **Y** (12)Parallel: **R**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **EAST 9TH ST**
(5) County: **CUY** Mileage: **1628** Special Desig: **R**
(6) Avg. Daily Traffic(ADT): **49,860** (7) ADT Year: **2004**
(8) Truck Traf: **4,215** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **E9TH** Dir: Des: **1** Pref:
(23) Feature Intersected: **IR 90**
(24) County: **CUY** Mileage: **0000** Special Desig:
(25) Avg. Daily Traffic(ADT): **100** (26) ADT Year: **1970**
(27) Truck Traf: **0** (28) NHS: **NO** - **X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **59.8** 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: **0.0 / 0.0** Ft Card: **2.7 / 8.5** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **02** Miles
(39) Latitude: **41 Deg 29.7 Min** Longitude: **81 Deg 40.9 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1962** (42) Major Rehabilitation:
(43) No. Lanes On: **4** No. Lanes Under: **8**
(44) Horiz Curve: **02 Deg. 00 Min.** (45) Skew: **99** Deg
(49) App. Rdw Width: **60** Ft (50) Brg. Rdw Width: **59.8** Ft
(51) Deck Width: **65.1** Ft Deck Area: **15360** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINF CONCR POST & STEEL PANEL**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **OTHER**
Internal: **NONE**
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY**
Thickness: **2.2** in (119) Date of Wearing Surface: **11/15/2000**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **3** Type: **STEEL** / **BEAM** / **CONTINUOUS**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **3** (65) Max Span: **89** Ft (66) Overall Leng: **236** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **24.0** Ft Card: **35.0** Ft
(157) Prac Max Vrt Under Clear: **15.4** Ft
(77) Min Vert Under Clear: NC: **15.4** Ft Card: **15.3** Ft
(78) Min Lat Under Clear: NC: **1.0 / 10.0** Ft Card: **1.0 / 10.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1973**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **4**
Calc Underclearance: **6**

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 **ROLLED STEEL** (122) Moment Plate: **WELDED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **24169**
PID Status: **IA-OTHER**
PID Date: **04/03/2003**

Original Plans Information

(142) Fabricator: **AMER. BRIDGE**
(143) Contractor: **HORVITZ CO.**
(144) Ohio Original Construction Project No.: **006860**
(---) Microfilm Reel: **CUY016**
(151) Standard Drawing:
Aperture Cards: Orig: **Y** Repair: **N** Fabr: **Y**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **/ 020**	3. **920725 / 041**
4. **/**	5. **/ 040**	6. **/ 004**
7. **/ 040**	8. **/ 059**	9.
10.		

Inspection Summary

(I-8) Deck:	**4**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**6**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**A**
Inspection Date:	**04/24/2009**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**1 MEETS CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**10/12/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1628 -R**
INT Field Bridge Marker: **CUY-E9TH -0000 -**

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	470	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1 8 0 7 7 1 4
1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1628** (UNIT) **R** **CLEVELAND** **Date Built 07/01/1962**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 EAST 9TH ST** **CUY**

DECK	Out/Out 65.1			THCK = 2.2	
1. Floor	1-REINF CONCRT (PRESTRSD 8	3	2. Wearing Surface	C-MICROSILICA MODIFIED C 41	1
	N-NONE			W.S. Date = 11/15/2000	
3. Curbs, Sidewalks, Walkways	N-NONE 9		4. Median	42	
5. Railing	4-REINF CONCR POST & STE 10	2	6. Drainage	3-SCUPPERS & DWNSPTS 43	3
7. Expansion Joints	2-SLIDING METAL PLATE AN 11	1	**8. Summary**	44	4
SUPERSTRUCTURE	MAX.SPAN=89				
9. Alignment	12	1	10. Beams/Girders/Slab	1-ROLLED STEEL 45	1
	TOT.LGTH=236				
11. Diaphragms or Crossframes	13	1	12. Joists/Stringers	46	
13. Floor Beams	14		14. Floor Beam Connections	47	
15. Verticals	15		16. Diagonals	48	
17. End Posts	16		18. Top Chord	49	
19. Lower Chord	17		20. Lower Lateral Bracing	50	
21. Top Lateral Bracing	18		22. Sway Bracing	51	
				2-ROCKERS	
23. Portals	19		24. Bearing Devices	N-NONE 52	1
25. Arch	20		26. Arch Columns or Hangers	53	
				TYPE = 5-PAINT SYSTEM OZEU	
27. Spandrel Walls	21		28. Protective Coating System	DATE = 01/01/1985 54	7
29. Pins/Hangers/Hinges	22		30. Fatigue Prone Connections	55	1
31. Live Load Response	23	S	**32. Summary**	56	7
SUBSTRUCTURE	2-CONCRETE		PIERS=2	SPANS = 3	
33. Abutments	2-CONCRETE 24	2	34. Abutment Seats	57	1
35. Piers	TYPE = 2-CONCRETE 25	2	36. Pier Seats	58	1
				ABUTMENT:=CIP REI / CIP REI	
37. Backwalls	26	1	38. Wingwalls	59	1
39. Fenders and Dolphins	27		40. Scour	N-BRIDGE NOT OVER WATERW 60	
41. Slope Protection	1-CONCRETE (CAST) 28	1	**42. Summary**	DIVE DT=N/A 62	6
CULVERTS					
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	
CHANNEL				X-N/A	
51. Alignment	33		52. Protection	67	
53. Waterway Adequacy	34		**54. Summary**	68	
APPROACHES					
55. Pavement	2-BITUMINOUS 35	1	56. Approach Slabs	69	1
57. Guardrail	1-STEEL BEAM 36	2	58. Relief Joints	70	
59. Embankment	BRDG.WIDTH=59.8 37	3	**60. Summary**	PCT.LEGAL=150 71	6
GENERAL				ROUTINE.RESP: 1-OHIO TRAN DEPT	
61. Navigation Lights	38		62. Warning Signs	MAINT.RESP: 1-OHIO TRAN DEPT 72	
	MVC ON=9999 UND=15.3				
63. Sign Supports	39		64. Utilities	73	
65. Vertical Clearance	40	1	**66. General Appraisal & Operational Status**	74 COND 6 STAT A	

67. INSPECTED BY

SIGNED _____ 76 PE _____ 78 INITIALS M J S

68. REVIEWED BY

SIGNED _____ 81 PE 6 0 0 0 4 8 83 INITIALS M J M

DOT 2852

DECK AREA 15,360

Date 0 4 2 4 0 9 (86–91)

1 1 1 1 1 N N N (92 — 69 Survey — 99)

Date 1 0 1 2 0 9 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	7	1	4

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1628** (UNIT) **R**

Date Built 07/01/1962

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **1** **1**

EAST 9TH ST

Deck	FL: 12 SF SPALLED. EPOXY INJECTED AREAS. 20% MOTTLED.
Deck	LEACHING CRACKS. STALACTITES. TIMBER SUB-DECKED. FLOOR
Deck	IS 20-25% DETERIORATED.
Deck	WS: CRACKS. 30 SF OF CONCRETE PATCHES. 2 SF ASPHALT PATCH.
Deck	<1% DET.
Deck	RAILINGS: CRACKS. RUST STAINS. SPALLS.
Deck	DRAINAGE: 3 OF 4 SCUPPERS AND DOWNSPOUT ARE PLUGGED IN
Deck	BAY 1R AT START. 1" RUSTING THRU HOLE AND 1/4"
Deck	SAW CUT NEAR ELBOW OF BAY 1R DOWNSPOUT. DOWNSPOUT
Deck	AND SCUPPER ARE PLUGGED AT PIER 1. SEE EMBANKMENT.
Deck	EXJT: MISSING RISER BARS @ START & FINISH.
Superstructure	BEAMS: RUSTING SECTION LOSS AT BEAM ENDS. SLIGHT GAP BETWEEN
Superstructure	TOP FLANGE OF FINISH BEAM ENDS 3 AND 4 AND DECK.
Superstructure	XFRAMES: ENDFRAME RUSTING SECTION LOSS.
Superstructure	BEARINGS: RUSTING SECTION LOSS. DEBRIS ENGULFED ROCKERS.
Superstructure	PCS: 1% RUST. PAINT FAILING AT BEAM ENDS AND ALONG EDGES
Superstructure	OF LOWER FLANGES. 1-5% DETERIORATED.
Superstructure	FPC: ENDS OF WELDED COVER PLATES ON BOTTOM FLANGES ARE IN
Superstructure	POSITIVE MOMENT AREAS.
Substructure	ABUTMENTS: SPALLS. CRACKS. DELAMINATIONS.
Substructure	ABUTMENT SEATS: SPALLS. SOME DELAMINATIONS. SPALL NEAR EDGE
Substructure	OF MASONRY PLATE OF ROCKER 2R AT FINISH.
Substructure	4" THICK DIRT AND DEBRIS ON SEATS.
Substructure	PIERS: 3 SF SPALL P2C1. CAP CRACKS, SPALLS & DELAMS.
Substructure	BACKWALLS: MINOR SPALLS @ START. MINOR DELAMS. FAILED PATCH
Substructure	IN FINISH BAY 4.
Substructure	SLOPE PROTECTION: CRACKS.
Approaches	GUARDRAIL: EROSION EXPOSES GUARDRAIL POST AT START-RIGHT.
Approaches	EMBANKMENT: 8' WIDE AND 4' DEEP WASHOUT AT START-RIGHT
Approaches	EXTENDS 24" UNDER APPROACH SLAB. SEE ATTACHED
Approaches	PHOTOS DATED 04/24/09.
General	CLAB

District: **12** County **CUYAHOGA** (101) Location: **JCT. I-77** (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): **THIRD LEVEL (INTERCH** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **IR 77 SB MAINLINE**
(5) County: **CUY** Mileage: **1640** Special Desig:
(6) Avg. Daily Traffic(ADT): **99,720** (7) ADT Year: **2007**
(8) Truck Traf: **8,430** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00077** Dir: Des: **1** Pref:
(23) Feature Intersected: **IR 90**
(24) County: **CUY** Mileage: **1593** Special Desig: **L**
(25) Avg. Daily Traffic(ADT): **39,740** (26) ADT Year: **2007**
(27) Truck Traf: **2,690** (28) NHS: **YES** - **N** (29) Corridor: **Y**
(30) Functional Class: **INTERSTATE-URBAN** (36) Strahnt: **Interstate**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **48.0** Ft Card: **48.0** 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: **2.7 / 8.5** Ft Card: **2.7 / 8.5** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **01** Miles
(39) Latitude: **41 Deg 29.7 Min** Longitude: **81 Deg 40.8 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1962** (42) Major Rehabilitation:
(43) No. Lanes On: **6** No. Lanes Under: **2**
(44) Horiz Curve: **01 Deg. 30 Min.** (45) Skew: **99** Deg
(49) App. Rdw Width: **102** Ft (50) Brg. Rdw Width: **102.0** Ft
(51) Deck Width: **104.3** Ft Deck Area: **32238** Sq. Ft
(52) Median Type: **RAISED MED / STEEL BARR / OPEN JOINT**
(53) Bridge Median: **OPEN MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(Right) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **REINF CONCR POST & STEEL PANEL**
(59) Deck Drainage: **SCUPPERS & DWNSPTS**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **OTHER**
Internal: **NONE**
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY**
Thickness: **2.2** in (119) Date of Wearing Surface: **04/11/2005**
Slope Protection: **STONE (NO.1 AGGREGATE)**

(63) Main Spans Number: **3** Type: **STEEL / BEAM / CONTINUOUS**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **3** (65) Max Span: **124** Ft (66) Overall Leng: **309** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **02**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **39.0** Ft
(157) Prac Max Vrt Under Clear: **15.8** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **15.8** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **5.0 / 6.7** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1973**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **9**
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 **WELDED BUILT-UP STEEL** (122) Moment Plate: **RIVETED OR BOLTED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **20578**
PID Status: **PROGRAM**
PID Date: **06/01/2000**

Original Plans Information

(142) Fabricator: **AMER. BRIDGE**
(143) Contractor: **HORVITZ CO.**
(144) Ohio Original Construction Project No.: **006860**
(---) Microfilm Reel: **CUY021**
(151) Standard Drawing:
Aperture Cards: Orig: **Y** Repair: **Y** Fabr: **Y**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **860277 / 020**	3. **920725 / 041**
4. **/**	5. **/ 004**	6. **/ 040**
7.	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**5**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**8**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**A**
Inspection Date:	**12/04/2008**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**1 MEETS CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**03/03/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1640 -**
INT Field Bridge Marker: **CUY-00077-1593 -L**

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	1232	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

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

Bridge Number **CUY** (CO) **00090** (ROUTE) **1640** (UNIT) **CLEVELAND** **Date Built 07/01/1962**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **71 IR 77 SB MAINLINE** **CUY**

DECK Out/Out 104.3		2		THCK = 2.2	2
1. Floor 8	1-REINF CONCRT (PRESTRSD		2. Wearing Surface 41	C-MICROSILICA MODIFIED C	
	1-CONCRETE	2		W.S. Date = 04/11/2005	2
3. Curbs, Sidewalks, Walkways 9	1-CONCRETE		4. Median 42		
5. Railing 10	4-REINF CONCR POST & STE	2	6. Drainage 43	3-SCUPPERS & DWNSPTS	3
7. Expansion Joints 11	2-SLIDING METAL PLATE AN	3	**8. Summary** 44		5
SUPERSTRUCTURE MAX.SPAN=124		1			1
9. Alignment 12			10. Beams/Girders/Slab 45	3-WELDED BUILT-UP STEEL	
TOT.LGTH=309		1			
11. Diaphragms or Crossframes 13			12. Joists/Stringers 46		
13. Floor Beams 14			14. Floor Beam Connections 47		
15. Verticals 15			16. Diagonals 48		
17. End Posts 16			18. Top Chord 49		
19. Lower Chord 17			20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
				2-ROCKERS	1
23. Portals 19			24. Bearing Devices 52	N-NONE	
25. Arch 20			26. Arch Columns or Hangers 53		
				TYPE = 5-PAINT SYSTEM OZEU	7
27. Spandrel Walls 21			28. Protective Coating System	DATE = 01/01/1986 54	
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		
31. Live Load Response 23		S	**32. Summary** 56		7
SUBSTRUCTURE 2-CONCRETE		1	PIERS=2	SPANS = 3	1
33. Abutments	2-CONCRETE 24		34. Abutment Seats 57		
35. Piers	TYPE = 2-CONCRETE 25	2	36. Pier Seats 58		1
37. Backwalls 26		1		ABUTMENT:=CIP REI / CIP REI	1
			38. Wingwalls 59		
39. Fenders and Dolphins 27			40. Scour	N-BRIDGE NOT OVER WATERW 60	
41. Slope Protection	2-STONE (NO.1 AGGREGATE) 28	1	**42. Summary**	DIVE DT=N/A 62	6
CULVERTS					
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		
CHANNEL				X-N/A	
51. Alignment 33			52. Protection 67		
53. Waterway Adequacy 34			**54. Summary** 68		
APPROACHES		1			1
55. Pavement	2-BITUMINOUS 35		56. Approach Slabs 69		
57. Guardrail	1-STEEL BEAM 36	1	58. Relief Joints 70		
59. Embankment	BRDG.WIDTH=102.0 37	1	**60. Summary**	PCT.LEGAL=150 71	8
GENERAL				ROUTINE.RESP: 1-OHIO TRAN DEPT	
61. Navigation Lights 38			62. Warning Signs	MAINT.RESP: 1-OHIO TRAN DEPT 72	
MVC ON=9999 UND=0000					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40		1	**66. General Appraisal & Operational Status** 74	COND 6	STAT A

67. INSPECTED BY 68. REVIEWED BY

SIGNED 76 PE K J B 78 INITIALS SIGNED 6 0 0 0 4 8 81 PE M J M 83 INITIALS

DOT 2852 DECK AREA 32,238 Date 1 2 0 4 0 8 (86–91) 1 1 1 1 1 N N N (92 69 Survey 99) Date 0 3 0 3 0 9 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	7	7	3

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1640** (UNIT)

Date Built 07/01/1962

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1 7 1**

IR 77 SB MAINLINE

Deck	FL: TRANSVERSE CRACKS @ 10' SPACING. STALACTITES AS LONG AS
Deck	3". 10 SF OF SPALLS. 20% MOTTLED. EPOXY-INJECTED AREAS.
Deck	15-25% DETERIORATED.
Deck	WS: CRACKS. 150 SF OF GOOD CONCRETE PATCHES TO EASTBOUND.
Deck	400 SF OF GOOD CONCRETE PATCHES TO WESTBOUND. 1-5%
Deck	DETERIORATED.
Deck	CURBS: SPALLS AND DELAMINATIONS.
Deck	MEDIAN: CRACKS. DELAMINATIONS. RUST STAINS. A FEW SPALLS.
Deck	RAILINGS: MANY SPALLS AND DELAMINATIONS. MANY COLLISION
Deck	DINGS TO STEEL.
Deck	DRAINAGE: 10% SCUPPERS PLUGGED. DOWNSPOUT ON P1C4 IS
Deck	PLUGGED. DOWNSPOUT AT P1C1 HAS RUSTING THRU HOLES
Deck	AT GROUND LEVEL.
Deck	EXJTS: TOP FLANGES OF GIRDERS 4, 5, 6 & 7 ARE <1/4" FROM
Deck	START (W) BACKWALL AT 25 DEGREES F. 18' OF START DECK
Deck	RISER BAR IS MISSING IN LANE 2 & 3 WB. PART OF RISER
Deck	IN #2 LANE WB BANGS WITH LIVE LOAD.
Superstructure	BEAMS: THERE IS BUILT UP WELD MATERIAL TO THE BOTTOM OF THE
Superstructure	LOWER FLANGES OF BEAMS 3 THRU 12, ALL ARE 12' TO 13'
Superstructure	FROM THE FINISH ABUT.
Superstructure	XFRAMES: ENDFRAME RUSTED SECTION LOSS.
Superstructure	BEARINGS: MOST ROCKERS AT START ABUTMENT ARE SLIGHTLY TIPPED
Superstructure	IN AT 25 DEGREES F.
Superstructure	PCS: 2% RUST. SOME PEELING AT BEAM ENDS. 1-5% DETERIORATED.
Substructure	ABUTMENTS: CRACKS.
Substructure	PIERS: CAP SPALLS AND DELAMINATIONS MOSTLY UNDER MEDIAN
Substructure	JOINT.
Substructure	BACKWALLS: A FEW SPALLS AND DELAMS.
Approaches	PAVEMENT: NEW IN 2008.

District: **12** | County **CUYAHOGA** | (101) Location: **.11 MI. E. OF JCT. I-77** | (102) Facility Carried: **I-90 WB.**
(2)FIPS Code: **CLEVELAND** | (103) Route On Bridge: **STATE (ODOT)** | (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **1-WAY TRAFFIC** | (10) Temporary: **N** | (11)Truck Network: **Y** | (12)Parallel: **L**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** | (100) Type Serv: (On): **HIGHWAY** | (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** | Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: | Des: **MAINLINE** | Pref:
(4) Feature Intersected: **EAST 14TH ST**
(5) County: **CUY** | Mileage: **1651** | Special Desig: **L**
(6) Avg. Daily Traffic(ADT): **49,860** | (7) ADT Year: **2007**
(8) Truck Traf: **4,215** | (14) NHS: **YES** - **N** | (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** | (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** | Hwy Sys: **MUNICIPAL STREET**
Route No.: **E14TH** Dir: | Des: **1** | Pref:
(23) Feature Intersected: **IR 90**
(24) County: **CUY** | Mileage: **2036** | Special Desig:
(25) Avg. Daily Traffic(ADT): **1,000** | (26) ADT Year: **1973**
(27) Truck Traf: **0** | (28) NHS: **NO** - **X** | (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** | (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: | NC: **0.0** Ft | Card: **47.8** 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: **3.7 / 8.5** Ft | Card: **0.0 / 0.0** Ft
(81) Vrt Clr Lft: | **0.0** Ft

Structure Information

(38) Bypass Length: **01** Miles
(39) Latitude: **41 Deg 29.8 Min** | Longitude: **81 Deg 40.7 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1963** | (42) Major Rehabilitation:
(43) No. Lanes On: **3** | No. Lanes Under: **6**
(44) Horiz Curve: **01 Deg. 30 Min.** | (45) Skew: **99** Deg
(49) App. Rdw Width: **48** Ft | (50) Brg. Rdw Width: **47.8** Ft
(51) Deck Width: **52.2** Ft | Deck Area: **16017** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: | (left) **0** Ft | (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** | Type: **SAFETY CURB(<=2')**
(Right) Matl: **CONCRETE** | Type: **SAFETY CURB(<=2')**
(56) Flared: **Y** | (57) Composite: **non-composite**
(58) Railing: **REINFORCED CONCRETE & STEEL**
(59) Deck Drainage: **INLETS W/DRN PIPES**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **OTHER**
Internal: **NONE**
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY**
Thickness: **2.2** in | (119) Date of Wearing Surface: **11/15/2000**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **4** | Type: **STEEL** / **BEAM** / **CONTINUOUS**
Approach Spans Number: **0** | Type: **NONE** / **NONE** / **NONE**
Total Spans: **4** | (65) Max Span: **99** Ft | (66) Overall Leng: **307** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **03**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** | (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** | Probe: **N** Freq: **0** | (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: | (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: | NC: **50.0** Ft | Card: **42.0** Ft
(157) Prac Max Vrt Under Clear: | **18.8** Ft
(77) Min Vert Under Clear: | NC: **15.0** Ft | Card: **18.8** Ft
(78) Min Lat Under Clear: | NC: **18.0 / 10.0** Ft | Card: **17.0 / 10.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1986**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **4**
Calc Underclearance: **6**

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 **WELDED BUILT-UP STEEL** | (122) Moment Plate: **RIVETED OR BOLTED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** | Vert Clr: **0.0** Ft | Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** | Freq: **0** | Date:
(188) Fracture Critical Insp: **N** | Freq: **0** | Date:
(138) Long Member: **NOT APPLICABLE** | (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** | (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds | Prime Loc: **UNKNOWN** | Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(69) NBIS: **Y**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **24169**
PID Status: **IA-OTHER**
PID Date: **04/03/2003**

Original Plans Information

(142) Fabricator:
(143) Contractor:
(144) Ohio Original Construction Project No.: **006860**
(---) Microfilm Reel: **CUY021**
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **Y** Fabr: **Y**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **860277 / 020**	3. **920725 / 041**
4. **/**	5. **/ 040**	6. **/ 004**
7. **/ 040**	8. **/ 059**	9.
10.		

Inspection Summary

(I-8) Deck:	**4**
(I-32) Superstructure:	**7**
(I-42) Substructure:	**6**
(I-50) Culvert:	
(I-54) Channel:	
(I-60) Approaches:	**7**
(I-66) General Appraisial:	**6**
(I-66) Operational Status:	**A**
Inspection Date:	**07/21/2008**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**1 MEETS CURRENT STANDARDS**
Transitions:	**1 MEETS CURRENT STANDARDS**
Guardrail:	**1 MEETS CURRENT STANDARDS**
Rail Ends:	**1 MEETS CURRENT STANDARDS**
Pavement Mark:	**1 MEETS CURRENT STANDARDS**
Restrict Sign:	**N NONE N/A**
Warning Sign:	**N NONE N/A**
End Markers:	**N NONE N/A**
Insp. Update Date:	**01/28/2009**

Utilities

(46) Electric:	**U**
Gas:	**U**
Sanitary Sewer:	**U**
Telephone:	**U**
TV Cable:	**U**
Water:	**U**
Other:	**U**

Special Features

(161) Lighting:	**Y**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**U**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1651 -L**
INT Field Bridge Marker: **CUY-E14TH-2036 -**

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	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	612	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

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

Bridge Number **CUY** (CO) **00090** (ROUTE) **1651** (UNIT) **L** **CLEVELAND** **Date Built 07/01/1963**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 EAST 14TH ST** **CUY**

DECK Out/Out 52.2			2. Wearing Surface THCK = 2.2 C-MICROSILICA MODIFIED C 41	2	
1. Floor 1-REINF CONCRT (PRESTRSD 8	3				
3. Curbs, Sidewalks, Walkways 1-CONCRETE 1-CONCRETE 9	2		4. Median W.S. Date = 11/15/2000 42		
5. Railing 2-REINFORCED CONCRETE & 10	2		6. Drainage 4-INLETS W/DRN PIPES 43	2	
7. Expansion Joints 2-SLIDING METAL PLATE AN 11	4		**8. Summary** 44	4	
SUPERSTRUCTURE MAX.SPAN=99					
9. Alignment 12	1		10. Beams/Girders/Slab 3-WELDED BUILT-UP STEEL 45	1	
TOT.LGTH=307					
11. Diaphragms or Crossframes 13	1		12. Joists/Stringers 46		
13. Floor Beams 14			14. Floor Beam Connections 47		
15. Verticals 15			16. Diagonals 48		
17. End Posts 16			18. Top Chord 49		
19. Lower Chord 17			20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
			2-ROCKERS		
23. Portals 19			24. Bearing Devices N-NONE 52	1	
25. Arch 20			26. Arch Columns or Hangers 53		
			TYPE = 5-PAINT SYSTEM OZEU		
27. Spandrel Walls 21			28. Protective Coating System DATE = 01/01/1986 54	7	
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		
31. Live Load Response 23	S		**32. Summary** 56	7	
SUBSTRUCTURE 2-CONCRETE			PIERS=3 SPANS = 4		
33. Abutments 2-CONCRETE 24	1		34. Abutment Seats 57	1	
35. Piers TYPE = 2-CONCRETE 25	2		36. Pier Seats 58	1	
			ABUTMENT:=CIP REI / CIP REI		
37. Backwalls 26	2		38. Wingwalls 59	1	
39. Fenders and Dolphins 27			40. Scour N-BRIDGE NOT OVER WATERW 60		
41. Slope Protection 1-CONCRETE (CAST) 28	1		**42. Summary** DIVE DT=N/A 62	6	
CULVERTS					
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		
CHANNEL			X-N/A		
51. Alignment 33			52. Protection 67		
53. Waterway Adequacy 34			**54. Summary** 68		
APPROACHES					
55. Pavement 2-BITUMINOUS 35	1		56. Approach Slabs 69	1	
57. Guardrail 1-STEEL BEAM 36	1		58. Relief Joints 70		
59. Embankment BRDG.WIDTH=47.8 37	1		**60. Summary** PCT.LEGAL=150 71	7	
GENERAL			ROUTINE.RESP: 1-OHIO TRAN DEPT		
61. Navigation Lights 38			62. Warning Signs MAINT.RESP: 1-OHIO TRAN DEPT 72		
MVC ON=9999 UND=15.0					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40	1		**66. General Appraisal & Operational Status** 74	COND 6	STAT A

67. INSPECTED BY

SIGNED

76 PE

D E E
78 INITIALS

68. REVIEWED BY

SIGNED

6 0 0 0 4 8
81 PE

M J M
83 INITIALS

DOT 2852

DECK AREA 16,017

Date 0 7 2 1 0 8
86 91

1 1 1 1 1 N N N
92 69 Survey 99

Date 0 1 2 8 0 9
100 105

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	9	0	0

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1651** (UNIT) **L**

Date Built 07/01/1963

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **1 1**

EAST 14TH ST

Deck	FLOOR: THE FLOOR IS TIMBER-SUBDECKED OVER TRAFFIC EXCEPT FOR
Deck	PART OF BAY #1 OVER PART OF LANE #2 OF THE RAMP IN
Deck	SPAN #3 AND PART OF THE CONTIGUOUS SIDEWALK; SEE
Deck	ATTACHED PHOTOS #2 AND #3 DATED 7/21/08.
Deck	CRACKS. AT LEAST 30-40% MOTTLED. AT LEAST 150 SF OF
Deck	SPALLS. DECK IS 4 INCHES THICK AT OPEN JOINT BETWEEN
Deck	THIS BRIDGE AND I-77 SB RAMP BRIDGE (TRAFFIC RUNS
Deck	OVER JOINT) DUE TO SPALLING; SEE ATTACHED PHOTOS
Deck	DATED 5/02/06 AND 5/23/07. FLOOR IS 25-40% DET.
Deck	WS: CRACKS. 250 SF OF CONCRETE PATCHES IN LANE #3.
Deck	2 SF ASPHALT PATCH IN LANE #3. WS IS 5-10% DET.
Deck	CURBS: SPALLS.
Deck	BRAILS: CRACKS. RUST STAINS. SPALLS.
Deck	COLLISION DAMAGE TO STEEL PANELS IN SPAN #3.
Deck	DRAINAGE: DEBRIS IN BERMS. PARTIALLY PLUGGED SCUPPERS.
Deck	EXJTS: DIRT AS THICK AS 5 INCHES ON START ABUTMENT SEAT.
Deck	2 EACH 2 INCH DIAMETER RUSTING THRU HOLES IN RIGHT
Deck	CURB COVER PLATE OF FINISH EXJT.
Deck	TOPS OF MOST GIRDERS ARE INTO FINISH BACKWALL AT
Deck	80 DEGREES F. 8 LF OF FINISH BACKWALL RISER BAR
Deck	ARE MISSING IN LANES #1 AND #2; SEE ATTACHED PHOTO
Deck	DATED 5/23/07.
Superstructure	GIRDERS: FRETTING AT TOPS OF SOME CROSSFRAME STIFFENERS.
Superstructure	CROSSFRAMES: RUSTING SECTION LOSS OF ENDFRAMES.
Superstructure	3 SQUARE INCH RUSTING THRU HOLE IN FINISH
Superstructure	ABUTMENT ENDFRAME #3.
Superstructure	BEARINGS: SOME ABUTMENT ROCKERS ARE PARTIALLY ENGULFED IN
Superstructure	DEBRIS.
Superstructure	PAINT: 1% RUST. PAINT IS 1-5% DET.
Substructure	PIERS: CAP DELAMINATIONS. BOTH ENDS OF PIER #1 CAP ARE
Substructure	SPALLED UNDER OPEN LONGITUDINAL JOINTS.
Substructure	BACKWALLS: SOME DELAMINATIONS. SPALLED AREAS.
Substructure	WINGWALLS: CRACKS.

District: **12** County **CUYAHOGA** (101) Location: **.11 MI. E. OF JCT. I-77** (102) Facility Carried: **I-90 EB.**
(2)FIPS Code: **CLEVELAND** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **MUNICIPAL**
(9) Direction of Traffic: **1-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **Y** (12)Parallel: **R**
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** (100) Type Serv: (On): **HIGHWAY** (Under): **HIGHWAY, WITH OR WIT**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **INTERSTATE HIGHWAY**
Route No.: **00090** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **EAST 14 TH ST**
(5) County: **CUY** Mileage: **1651** Special Desig: **R**
(6) Avg. Daily Traffic(ADT): **49,860** (7) ADT Year: **2007**
(8) Truck Traf: **4,215** (14) NHS: **YES** - **N** (15) Corridor: **Y**
(16) Functional Class: **INTERSTATE-URBAN** (19) Strahnt: **Interstate**

Intersected Route Data

(22) Route On/Under: **UNDER** Hwy Sys: **MUNICIPAL STREET**
Route No.: **00014** Dir: Des: **1** Pref:
(23) Feature Intersected: **I-90**
(24) County: **CUY** Mileage: **2037** Special Desig: **S**
(25) Avg. Daily Traffic(ADT): **1,000** (26) ADT Year: **1973**
(27) Truck Traf: **0** (28) NHS: **NO** - **X** (29) Corridor: **N**
(30) Functional Class: **LOCAL ROAD-URBAN** (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **47.8** 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: **0.0 / 0.0** Ft Card: **3.7 / 8.5** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **01** Miles
(39) Latitude: **41 Deg 29.8 Min** Longitude: **81 Deg 40.7 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1963** (42) Major Rehabilitation:
(43) No. Lanes On: **4** No. Lanes Under: **6**
(44) Horiz Curve: **01 Deg. 30 Min.** (45) Skew: **99** Deg
(49) App. Rdw Width: **48** Ft (50) Brg. Rdw Width: **47.8** Ft
(51) Deck Width: **52.2** Ft Deck Area: **16017** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(Right) Matl: **CONCRETE** Type: **SAFETY CURB(<=2')**
(56) Flared: **Y** (57) Composite: **non-composite**
(58) Railing: **REINF CONCR SAFETY CURB&PRPT W.ALUM RAIL**
(59) Deck Drainage: **INLETS W/DRN PIPES**
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST**
(61) Deck Protection: External: **OTHER**
Internal: **NONE**
(62) Wearing Surface: **MICROSILICA MODIFIED CONCRETE OVERLAY**
Thickness: **2.2** in (119) Date of Wearing Surface: **11/15/2000**
Slope Protection: **CONCRETE (CAST-IN-PLACE)**

(63) Main Spans Number: **4** Type: **STEEL** / **BEAM** / **CONTINUOUS**
Approach Spans Number: **0** Type: **NONE** / **NONE** / **NONE**
Total Spans: **4** (65) Max Span: **99** Ft (66) Overall Leng: **307** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Abut-Fwd Matl: **CONCRETE**	Type: **STUB GRAVITY**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Pred Matl: **CONCRETE**	Type: **CAPPED COLUMN**	Fnd: **CIP REINF CONCRETE PILES(OTHER DIAMETER)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **OTHER**
No of Piers Predominate: **03**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **NNN** (74) Scour: **BRIDGE NOT OVER WATERWAY**
(189) Dive: **N Freq: 0** Probe: **N** Freq: **0** (75) Chan Prot: **N/A**
(189) Date of last Dive Insp: (152) Drainage Area: **NNNN** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **50.0** Ft Card: **42.0** Ft
(157) Prac Max Vrt Under Clear: **18.8** Ft
(77) Min Vert Under Clear: NC: **15.0** Ft Card: **18.8** Ft
(78) Min Lat Under Clear: NC: **19.0 / 10.0** Ft Card: **17.0 / 10.0** Ft

Load Rating Information

(48) Design Load: **HS/20-44 & ALTERNATE MILITARY LOADING**
(83) Operating: **45** Ton
Inventory: **36** Ton
Ohio Percent of Legal Load **150**
Year of Rating: **1986**
(84) Analysis: **WORKING STRESS (WS)**
(85) Rate Soft: **BARS** Analyzed by:
Analysis on Bars: **WRKG STRESS ANALYSIS**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **N**
(89) Approach Alignment **8**
Calc Gen Appraisal: **6**
Calc Deck Geometry: **2**
Calc Underclearance: **6**

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 **WELDED BUILT-UP STEEL** (122) Moment Plate: **RIVETED OR BOLTED**
(169) Expansion Joint: **SLIDING METAL PLATE ANGLE**
(124) Bearing Devices: **ROCKERS/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **N** Freq: **0** Date:
(138) Long Member: **NOT APPLICABLE** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing:
Railing: **UNKNOWN**
Pay Wt: **0** pounds Prime Loc: **UNKNOWN** Paint: **PAINT SYSTEM OZEU**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(---) Hist Builder: **NONE N/A**
Hist Build Year:
(69) Hist Type: **NONE N/A**
(69) NBIS: **Y**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2027**

Programming Info

PID Number: **24169**
PID Status: **IA-OTHER**
PID Date: **04/03/2003**

Original Plans Information

(142) Fabricator: **AMER. BRIDGE**
(143) Contractor: **HORVITZ CO.**
(144) Ohio Original Construction Project No.: **006860**
(---) Microfilm Reel: **CUY021**
(151) Standard Drawing:
Aperture Cards: Orig: **Y** Repair: **Y** Fabr: **Y**
Plan Information Available: **1PLAN INFORMATION AVAILABLE**

(153) Repair Projects

1. **/ 020**	2. **770447 / 044**	3. **860277 / 020**
4. **920725 / 041**	5. **/**	6. **/ 004**
7. **/ 040**	8. **/ 059**	9.
10.		

Inspection Summary

(I-8) Deck:	**4**	Railings:	**1 MEETS CURRENT STANDARDS**
(I-32) Superstructure:	**7**	Transitions:	**1 MEETS CURRENT STANDARDS**
(I-42) Substructure:	**6**	Guardrail:	**1 MEETS CURRENT STANDARDS**
(I-50) Culvert:		Rail Ends:	**1 MEETS CURRENT STANDARDS**
(I-54) Channel:		Pavement Mark:	**1 MEETS CURRENT STANDARDS**
(I-60) Approaches:	**6**	Restrict Sign:	**N NONE N/A**
(I-66) General Appraisial:	**6**	Warning Sign:	**N NONE N/A**
(I-66) Operational Status:	**A**	End Markers:	**N NONE N/A**
Inspection Date:	**07/21/2008**	Insp. Update Date:	**01/28/2009**
(94) Desig Insp Freq:	**12 Months**		

(I-69) Survey Items

Utilities

(46) Electric:	**U**	(161) Lighting:	**Y**
Gas:	**U**	Fencing:	**N**
Sanitary Sewer:	**U**	Glare-Screen:	**N**
Telephone:	**U**	Splash-Guard:	**N**
TV Cable:	**U**	Catwalks:	**N**
Water:	**U**	Other-Feat:	**U**
Other:	**U**	(184) Signs-on:	**N**
		Signs-Under:	**N**
		(162) Fence-Ht:	**0.0** Ft
		(163) Noise Barr:	**N**

Special Features

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **CUY-00090-1651 -R**
INT Field Bridge Marker: **CUY-00014-2037 -S**

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	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	612	LF	0	0	0	0	0

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	8	0	3

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1651** (UNIT) **R** **CLEVELAND** **Date Built 07/01/1963**

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **11 EAST 14 TH ST** **CUY**

DECK Out/Out 52.2			2. Wearing Surface THCK = 2.2 C-MICROSILICA MODIFIED C 41		2
1. Floor 1-REINF CONCRT (PRESTRSD 8	3				
3. Curbs, Sidewalks, Walkways 1-CONCRETE 1-CONCRETE 9	3		4. Median W.S. Date = 11/15/2000 42		
5. Railing 3-REINF CONCR SAFETY CUR 10	3		6. Drainage 4-INLETS W/DRN PIPES 43		3
7. Expansion Joints 2-SLIDING METAL PLATE AN 11	3		**8. Summary** 44		4
SUPERSTRUCTURE MAX.SPAN=99					
9. Alignment 12	1		10. Beams/Girders/Slab 3-WELDED BUILT-UP STEEL 45		1
TOT.LGTH=307					
11. Diaphragms or Crossframes 13	1		12. Joists/Stringers 46		
13. Floor Beams 14			14. Floor Beam Connections 47		
15. Verticals 15			16. Diagonals 48		
17. End Posts 16			18. Top Chord 49		
19. Lower Chord 17			20. Lower Lateral Bracing 50		
21. Top Lateral Bracing 18			22. Sway Bracing 51		
23. Portals 19			24. Bearing Devices 2-ROCKERS N-NONE 52		1
25. Arch 20			26. Arch Columns or Hangers 53		
27. Spandrel Walls 21			28. Protective Coating System TYPE = 5-PAINT SYSTEM OZEU DATE = 01/01/1986 54		7
29. Pins/Hangers/Hinges 22			30. Fatigue Prone Connections 55		
31. Live Load Response 23	S		**32. Summary** 56		7
SUBSTRUCTURE 2-CONCRETE			PIERS=3 SPANS = 4		
33. Abutments 2-CONCRETE 24	1		34. Abutment Seats 57		1
35. Piers TYPE = 2-CONCRETE 25	2		36. Pier Seats 58		1
37. Backwalls 26	2		38. Wingwalls ABUTMENT:=CIP REI / CIP REI 59		1
39. Fenders and Dolphins 27			40. Scour N-BRIDGE NOT OVER WATERW 60		
41. Slope Protection 1-CONCRETE (CAST) 28	1		**42. Summary** DIVE DT=N/A 62		6
CULVERTS					
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		
CHANNEL			X-N/A		
51. Alignment 33			52. Protection 67		
53. Waterway Adequacy 34			**54. Summary** 68		
APPROACHES					
55. Pavement 2-BITUMINOUS 35	2		56. Approach Slabs 69		2
57. Guardrail 1-STEEL BEAM 36	1		58. Relief Joints 70		1
59. Embankment BRDG.WIDTH=47.8 37	1		**60. Summary** PCT.LEGAL=150 71		6
GENERAL			ROUTINE.RESP: 1-OHIO TRAN DEPT		
61. Navigation Lights 38			62. Warning Signs MAINT.RESP: 1-OHIO TRAN DEPT 72		
MVC ON=9999 UND=15.0					
63. Sign Supports 39			64. Utilities 73		
65. Vertical Clearance 40	1		**66. General Appraisal & Operational Status** 74	COND 6	STAT A

67. INSPECTED BY

SIGNED

76 PE

D E E 78 INITIALS

68. REVIEWED BY

SIGNED

6 0 0 0 4 8 81 PE

M J M 83 INITIALS

DOT 2852

DECK AREA 16,017

Date 0 7 2 1 0 8 (86–91)

1 1 1 1 1 N N N (92 — 69 Survey — 99)

Date 0 1 2 8 0 9 (100–105)

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1	8	0	7	8	0	3

1 Structure File Number 7

Bridge Number **CUY** (CO) **00090** (ROUTE) **1651** (UNIT) **R**

Date Built 07/01/1963

District **12** Bridge Type **STEEL/BEAM/CONTINUOUS** Type Service **1** **1** **1**

EAST 14 TH ST

Deck	FLOOR: TIMBER-SUBDECKED OVER TRAFFIC.
Deck	LEACHED CRACKS WITH STALACTITES. 30-35% MOTTLED.
Deck	60 SF OF SPALLS. FLOOR IS 25-40% DET.
Deck	WS: CRACKS (SOME AS WIDE AS 1/16 INCH). CONCRETE PATCHES.
Deck	DELAMINATED AREAS. 60 SF OF ASPHALT PATCHES.
Deck	SEE ATTACHED PHOTO #2 DATED 7/21/08. WS IS 5-10% DET.
Deck	CURBS: CRACKS. SPALLS. RIGHT CURB IS 10% SPALLED.
Deck	BRAILS: RUST STAINS. DELAMINATIONS. SPALLS (SOME DEEP).
Deck	5 LF OF 360 DEGREE REBAR EXPOSURE. SPALLS FORMING
Deck	OVER TRAFFIC; SEE ATTACHED WORK ORDER 240 2009 7 AND
Deck	ATTACHED PHOTO #3 DATED 7/21/08.
Deck	DRAINAGE: TWO PLUGGED SCUPPERS IN RIGHT BERM NEAR PIER #2.
Deck	NEARLY HORIZONTAL DRAINAGE PIPES.
Deck	EXJTS: SOME GIRDERS ARE 1/4 INCH FROM START BACKWALL AT
Deck	80 DEGREES F. 2 RUSTING THRU HOLES IN MAINLINE RIGHT
Deck	CURB COVER PLATE OF START EXJT; LARGEST HOLE IS
Deck	4 SQUARE INCHES. GOUGES IN BACKWALL ARMOR OF START
Deck	EXJT IN LANE OF ON RAMP. 18 LF OF START BACKWALL
Deck	RISER BAR ARE MISSING IN LANES #2 AND #3. 4 LF OF
Deck	START EXJT DECK ARMOR ARE LOOSE AND CLANGING IN EB
Deck	LANE #3; SEE ATTACHED WORK ORDER 240 2009 9 AND
Deck	ATTACHED PHOTOS #4 AND #5 DATED 7/21/08.
Superstructure	GIRDERS: FRETTING AT TOPS OF SOME CROSSFRAME STIFFENERS.
Superstructure	BENT LOWER FLANGES OF BEAMS 1R AND 2R SIX INCHES
Superstructure	FROM BEARINGS; SEE ATTACHED PHOTO #1 DATED 5/02/06.
Superstructure	PAINT: 1% RUST. PAINT IS 1-5% DET.
Superstructure	BEARINGS: SOME ROCKERS ARE PARTIALLY ENGULFED IN DEBRIS.
Superstructure	HEAVY RUSTING.
Substructure	ABUTMENTS: DIRT AS THICK AS 15 INCHES ON START ABUTMENT SEAT
Substructure	OF RAMP. DIRT AS THICK AS 3 INCHES ON FINISH
Substructure	ABUTMENT SEAT. A FEW MINOR SPALLS.
Substructure	PIERS: RAMP P1C2 HAS 20 SF OF FIRE SPALLS. 2 SF OF
Substructure	DELAMINATIONS ON P2C4. CAP DELAMINATIONS AND SPALLS.
Substructure	BACKWALLS: SPALLS. DEEP SPALLS OF START BACKWALL IN BAY #1.
Substructure	DEEP SPALL OF START BACKWALL IN BAY #3 WITH SMALL
Substructure	HOLE THRU TO WS. LARGE SPALLS IN BAYS #2 AND #3
Substructure	OF START BACKWALL OF RAMP.
Substructure	SLOPE PROTECTION: MINOR UNEVEN SETTLEMENT.
Approaches	PAVEMENT: APPROACH PAVEMENT IS UNDER CONSTRUCTION.
Approaches	APPROACH SLABS: BOUNCE ONTO BRIDGE (ESPECIALLY FROM MAINLINE
Approaches	LANE #3).
Approaches	GUARDRAILS: MINOR COLLISION DAMAGE TO FINISH-RIGHT GUARDRAIL
Approaches	IN MULTIPLE LOCATIONS.