

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

Ohio [39]	Ottawa County [123]	Port Clinton [64150]	NO DATA	41-30-56 = 41.515556	082-56-34 = - 82.942778
6201628	Highway agency district 2	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 163	HIGHWAY & PED WALK	Toll On free road [3]	Features intersected	PORTAGE RIVER	
Design - main Steel [3]	Design - approach Steel [3]	Kilometerpoint 4042 km = 2506.0 mi	Year built 1933	Year reconstructed 1977	
1 Movable - Bascule [16]	2 Stringer/Multi-beam or girder [02]	Skew angle 0	Structure Flared		
		Historical significance	Bridge is eligible for the NRHP. [2]		
Total length 104.9 m = 344.2 ft	Length of maximum span 30.2 m = 99.1 ft	Deck width, out-to-out 15.9 m = 52.2 ft	Bridge roadway width, curb-to-curb	12.2 m = 40.0 ft	
Inventory Route, Total Horizontal Clearance 12.2 m = 40.0 ft	Curb or sidewalk width - left 1.5 m = 4.9 ft	Curb or sidewalk width - right	1.5 m = 4.9 ft		
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]				
Deck protection					
Type of membrane/wearing surface					

**Weight Limits**

Bypass, detour length 4.3 km = 2.7 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	14.3 metric ton = 15.7 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	19.8 metric ton = 21.8 tons
Bridge posting		Design Load	M 18 / H 20 [4]	

### Functional Details

Average Daily Traffic	3960	Average daily truck traffi	3	%	Year	2009	Future average daily traffic	8231	Year	2027
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	4		Approach roadway width	12.2 m = 40.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Waterway [5]		Lanes under structure	0		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	1.5 m = 4.9 ft		Navigation horizontal clearance	22.9 m = 75.1 ft						
Minimum navigation vertical clearance, vertical lift bridge			Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft						
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	0 = N/A					Minimum lateral underclearance on left	0 = N/A			
Minimum Vertical Underclearance	0 = N/A		Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]						
Appraisal ratings - underclearances	N/A [N]									

### Repair and Replacement Plans

Type of work to be performed	Work done by			Work to be done by contract [1]		
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	\$1,700,000	Roadway improvement cost	\$170,000		
	Length of structure improvement	182.9 m = 600.1 ft		Total project cost	\$2,000,000	
	Year of improvement cost estimate	2003				
	Border bridge - state			Border bridge - percent responsibility of other state		
	Border bridge - structure number					

## Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Meets minimum tolerable limits to be left in place as is [4]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	6.9
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	July 2010 [0710]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	May 2010 [0510]
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	July 2010 [0710]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: **English**  
Structure File Number **6201628**  
Sufficiency Rating: **06.9 SD**

**Bridge Inventory Information**  
Inventory Bridge Number: **OTT 00163 2511**  
**ON PORTAGE RIVER**

Report Date **09/03/2012** **BM-191** Page: 1 of 2  
**BR. Type STEEL / GIRDER / MOVABLE - BASC**  
Date of Last Inventory Update: **03/05/2012**

District: **02** County **OTTOWA** (101) Location: (102) Facility Carried:  
(2) FIPS Code: **PORT CLINTON** (103) Route On Bridge: **STATE (ODOT)** (104) Route Under Bridge: **NON-HIGHWAY**  
(9) Direction of Traffic: **2-WAY TRAFFIC** (10) Temporary: **N** (11) Truck Network: **N** (12) Parallel: **N**  
(95) Insp: **OHIO TRAN DEPT** (96) Maint: **OHIO TRAN DEPT** (97) Routine: **OHIO TRA** (100) Type Serv: (On): **HIGHWAY/PEDESTRIAN** (Under): **WATERWAY**

**Inventory Route Data**  
(3) Route On/Under: **ON** Hwy Sys: **STATE HIGHWAY** (63) Main Spans Number: **1** Type: **STEEL / GIRDER / MOVABLE - BASC**  
Route No.: **00163** Dir: Des: **MAINLINE** Pref: Approach Spans Number: **2** Type: **STEEL / BEAM / SIMPLE SPAN**  
Total Spans: **3** (65) Max Span: **99 Ft** (66) Overall Leng: **344 Ft**

(4) Feature Intersected: **PORTAGE RIVER** (70) Substructure (71) Foundation and Scour Information  
(5) County: **OTT** Mileage: **2511** Special Desig: Abut-Rear Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**  
(6) Avg. Daily Traffic(ADT): **3,960** (7) ADT Year: **2009** Abut-Fwd Matl: **CONCRETE** Type: **SOLID WALL** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**  
(8) Truck Traf: **100** (14) NHS: **NO - X** (15) Corridor: **N** Pier-Pred Matl: **CONCRETE** Type: **GRAVITY** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**  
(16) Functional Class: **OTHER PRINCIPAL ARTERIAL-URBAN** (19) Strahnt: **Not Applicable** Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**  
Pier-Other Matl: **NONE** Type: **NONE** Fnd: **UNKNOWN (OR OLDER BRIDGE BEING ADDED)**

**Intersected Route Data**  
(22) Route On/Under: Hwy Sys: No of Piers Predominate: **02** Other: **NN** Other: **NN**  
Route No.: Dir: Des: Pref: (86) Stream Velocity: **UUU** (74) Scour: **STABLE: SCOUR WITHIN LIMITS OF FOOT/PILE**  
(23) Feature Intersected: (189) Dive: **Y Freq: 60** Probe: **N Freq: 0** (75) Chan Prot: **NONE**  
(24) County: Mileage: Special Desig: (189) Date of last Dive Insp: **05/24/2010** (152) Drainage Area: **UUU Sq Mi**

(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:  
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:  
(30) Functional Class: (36) Strahnt: **Not Applicable**

**Clearance On the Bridge**  
(154) Min Hriz on Bridge: NC: **0.0 Ft** Card: **40.0 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: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**  
(81) Vrt Clr Lft: **0.0 Ft** (78) Min Lat Under Clear: NC: **0.0 / 0.0 Ft** Card: **0.0 / 0.0 Ft**

**Clearance Under the Bridge**  
(156) Min. Horiz Under Clear: NC: **0.0 Ft** Card: **0.0 Ft**  
(157) Prac Max Vrt Under Clear: **0.0 Ft**  
(77) Min Vert Under Clear: NC: **0.0 Ft** Card: **0.0 Ft**

**Load Rating Information (88-89) Appraisal**  
(48) Design Load: **H/20** (Including calculated Items)  
(83) Operating: **22 Ton**  
Inventory: **16 Ton**  
Ohio Percent of Legal Load **60** (88) Waterway Adequacy **4**  
Year of Rating: **1900** (89) Approach Alignment **3**  
(84) Analysis: **LOAD FACTOR (LF)** Calc Gen Appraisal: **4**  
(85) Rate Soft: **OTHER** Analyzed by: Calc Deck Geometry: **2**  
Analysis on Bars: **NOT ON BARS [DEFAULT]** Calc Underclearance: **N**

**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**  
(58) Railing: **STEEL POST & STEEL PANEL (DECORATIVE)** (121) Main Member **RIVETED BUILT-UP STEEL** (122) Moment Plate:  
(59) Deck Drainage: **OTHER-NATURAL(OFF THE BRIDGE ENDS)** (169) Expansion Joint: **SLIDING METAL PLATE ANGLE**  
(60) Deck Type: **REINF CONCRT (PRESTRSD, PRECAST)** (124) Bearing Devices: **ELASTOMERIC (LAMIN.)/NONE**  
(61) Deck Protection: External: **NONE** (126) Navigation: **Control- Y** Vert Clr: **5.0 Ft** Horiz Clear: **75.0 Ft**  
Internal: **NONE** (193) Spec Insp: **N** Freq: **0** Date:  
(62) Wearing Surface: **INTEGRAL CONCRETE (MONOLITHIC)** (188) Fracture Critical Insp: **Y** Freq: **12** Date: **2011-07-12**  
Thickness: **1.2 in** (119) Date of Wearing Surface:  
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)** (138) Long Member: **TWO GIRDER BRIDGE** (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:

Unit of Measure: **English**  
 Structure File Number **6201628**  
 Sufficiency Rating: **06.9 SD**

**Bridge Inventory Information**  
 Inventory Bridge Number: **OTT 00163 2511**  
**ON PORTAGE RIVER**

Report Date **09/03/2012** BM-191 Page: 2 of 2  
 BR. Type **STEEL/GIRDER/MOVABLE - BASCULE**  
 Date of Last Inventory Update: **03/05/2012**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NON-REGISTERED HISTORIC BRIDGE</b>		(69) NBIS: <b>Y</b>		(142) Fabricator:			
(---) Hist Builder: <b>OHIO STATE HIGHWAY</b>		Hist Build Year: <b>1933</b>		(143) Contractor:			
<b>DEPARTMENT</b>				(144) Ohio Original Construction Project No.: <b>UNKNWN</b>			
(69) Hist Type: <b>DOUBLE LEAF</b>				(-- ) Microfilm Reel:			
(161) Special Features (see below):				(151) Standard Drawing:			
(105) Border Bridge State: Resp % (106) SFN:				Aperture Cards: Orig: <b>Y</b> Repair: <b>Y</b> Fabr: <b>Y</b>			
Proposed Improvements		Programming Info		Plan Information Available: <b>1PLAN INFORMATION AVAILABLE</b>			
(90) Type Work: <b>31 - BRG/STR REPL--SUBSTD LD CAP OR RDW GEOM</b>		PID Number: <b>23280</b>		(153) Repair Projects			
(90) Length: Ft		PID Status: <b>IA-OTHER</b>		1. <b>760680 / UUU</b>	2. / <b>MMM</b>	3. / <b>020</b>	
(90) Bridge Cost (\$1000s): <b>0</b>		PID Date: <b>11/09/2001</b>		4. <b>870129 / UUU</b>	5. <b>890115 / 044</b>	6. / <b>020</b>	
(90) Roadway Cost (\$1000s): <b>0</b>				7. /	8. /	9. / <b>011</b>	
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		10. / <b>011</b>			
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2033</b>					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>5</b>	Railings: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	(46) Electric: <b>U</b>		(161) Lighting: <b>N</b>			
(I-32) Superstructure: <b>4</b>	Transitions: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Gas: <b>U</b>		Fencing: <b>N</b>			
(I-42) Substructure: <b>5</b>	Guardrail: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Sanitary Sewer: <b>U</b>		Glare-Screen: <b>N</b>			
(I-50) Culvert:	Rail Ends: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Telephone: <b>U</b>		Splash-Guard: <b>N</b>			
(I-54) Channel: <b>7</b>	In Depth: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	TV Cable: <b>U</b>		Catwalks: <b>N</b>			
(I-60) Approaches: <b>4</b>	Fracture Critical: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Water: <b>U</b>		Other-Feat: <b>U</b>			
(I-66) General Appraisal: <b>4</b>	Scour Critical: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Other: <b>U</b>		(184) Signs-on: <b>N</b>			
(I-66) Operational Status: <b>P</b>	Critical Findings: <b>0 DOES NOT MEET CURRENT STANDARDS</b>			Signs-Under: <b>N</b>			
Inspection Date: <b>07/12/2012</b>	Insp. Update Date: <b>08/22/2012</b>			(162) Fence-Ht: <b>0.0 Ft</b>			
(94) Desig Insp Freq: <b>12 Months</b>				(163) Noise Barr: <b>N</b>			
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: <b>OTT-00163-2511 -</b>			
SFNs That where replaced by this bridge: -				INT Field Bridge Marker: <b>---</b>			
This bridge was retired and copied to:							
The bridge was copied from:							

**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	100	0	0	0
215	REINFORCED CONC ABUTMENT	104	LF	0	100	0	0	0
304	OPEN EXPANSION JOINT	104	LF	0	100	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	100	0	0	0
330	METAL BRIDGE RAILING	686	LF	0	100	0	0	0

(\*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

6	2	0	1	6	2	8
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Bridge Number **OTT 00163 2511**  
CO ROUTE UNIT

PORT CLINTON

Date Built **07/01/1933 - 1977**

District **02** Bridge Type **STEEL/GIRDER/MOVABLE - BASC**

Type Service **1 55 PORTAGE RIVER**

**OTT**

<b>DECK</b>		Out/Out 52.2			THCK = 1.2	
1. Floor	1-REINF CONCRT (PRESTRSD	8	2	2. Wearing Surface	2-INTEGRAL CONCRETE (MON	41
	2-STEEL				W.S. Date =	
3. Curbs, Sidewalks, Walkways	2-STEEL	9	1	4. Median		42
5. Railing	6-STEEL POST & STEEL PAN	10	2	6. Drainage	0-OTHER-NATURAL(OFF THE	43
7. Expansion Joints	2-SLIDING METAL PLATE AN	11	2	<b>8. Summary</b>		44
<b>SUPERSTRUCTURE</b>		MAX.SPAN=99				
9. Alignment		12	1	10. Beams/Girders/Slab	2-RIVETED BUILT-UP STEEL	45
11. Diaphragms or Crossframes	TOT.LGTH=344	13	2	12. Joists/Stringers		46
13. Floor Beams		14	2	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	C-ELASTOMERIC (LAMIN.) N-NONE	52
25. Arch		20		26. Arch Columns or Hangers		53
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 5-PAINT SYSTEM OZEU DATE = 01/01/1992	54
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55
31. Live Load Response		23	S	<b>32. Summary</b>		56
<b>SUBSTRUCTURE</b>		2-CONCRETE		PIERS=2	SPANS = 1	
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57
35. Piers	TYPE = 2-CONCRETE	25	2	36. Pier Seats		58
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=UNKNOWN / UNKNOWN	59
39. Fenders and Dolphins		27	1	40. Scour	5-STABLE: SCOUR WITHIN L	60
41. Slope Protection	N-NONE	28		<b>42. Summary</b>	DIVE DT=05/24/2010	62
<b>CULVERTS</b>						
43. General		29		44. Alignment		63
45. Shape		30		46. Seams		64
47. Headwalls or Endwalls		31		48. Scour		65
49.		32		50. Summary		66
<b>CHANNEL</b>					N-NONE	
51. Alignment		33	1	52. Protection		67
53. Waterway Adequacy		34	1	<b>54. Summary</b>		68
<b>APPROACHES</b>						
55. Pavement	2-BITUMINOUS	35	2	56. Approach Slabs		69
57. Guardrail	1-STEEL BEAM	36	1	58. Relief Joints		70
59. Embankment	BRDG.WIDTH=40.0	37	3	<b>60. Summary</b>	PCT.LEGAL=60	71
<b>GENERAL</b>						
61. Navigation Lights		38	1	62. Warning Signs	ROUTINE.RESP: 1-OHIO TRAN DEPT MAINT.RESP: 1-OHIO TRAN DEPT	72
63. Sign Supports	MVC ON=9999 UND=0000	39		64. Utilities		73
65. Vertical Clearance		40	N	<b>66. General Appraisal &amp; Operational Status</b>		74

67. INSPECTED BY

68. REVIEWED BY

SIGNED

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76 PE

G	K
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78 INITIALS

SIGNED

7	3	4	0	2
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81 PE

D	H
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83 INITIALS

DOT 2852

DECK AREA 17,954

Date 

0	7	1	2	1	2
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86

91

0	0	0	0	0	0	0	0	0
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92

69 Survey

99

Date 

0	8	2	2	1	2
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100

105

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

BR-86 REV 02-95

6	2	0	1	6	2	8
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1 Structure File Number 7

Bridge Number **OTT** **00163** **2511**  
 CO ROUTE UNIT

**Date Built 07/01/1933 - 1977**

District **02** Bridge Type **STEEL/GIRDER/MOVABLE - BASC**

Type Service **1 5 5**

**PORTAGE RIVER**

- Deck 1. STEEL PORTION HAS SECTION LOSS STEEL BOWED DOWN . New
- Deck concrete in approach spans 2008
- Deck 7. RUSTED WITH SECTION LOSS
- Deck 5. Area starting to become friable. THE STEEL CAPS ON THE
- Deck POSTS ARE BEING LIFTED LOOSE BY PACK RUST. THEY NEED TO BE
- Deck REMOVED, CLEANED AND RE-WELDED.
- Superstructure 10. RUSTED AT BASE NEAR PIVOT POINT, REPAIRS DONE 11. SOME
- Superstructure RUST WITH SECTION LOSS INSIDE 12. SAGGED 2"+- WITH SECTION
- Superstructure LOSS 13. PITTING IN MANY AREAS 28. SOME RUST
- Superstructure 13. THERE IS A FLOOR BEAM ON THE FIXED SECTION THAT HAS A
- Superstructure HOLE THRU IT.
- Superstructure The right forward corner in the south machine room has the
- Superstructure beam rusted off at the junction with a vertical, under the
- Superstructure roadway.
- Superstructure 30. Gusset plates in the machine rooms are rusted through.
- Superstructure 10. Vertical beams in the machine rooms have broken welds.
- Substructure 33. SPALLS, CRACKS, LEACHING STEEL EXPOSED IN AREAS THAT ARE
- Substructure FRIABLE IN PITS. 34. CRACKS LEACHING 35. CRACKS SPALLS
- Substructure LEACHING STEEL EXPOSED 36. CONCRETE SPALLED UNDER
- Substructure BEARINGS, STEEL EXPOSED, STEEL VERTICALS RUSTED WITH SECTION
- Substructure LOSS 37. CRACKS AND LEACHING 38. CRACKS, LEACHING 39. CO
- Substructure NCRETE FENDERS WITH HAND RAILS
- Approaches 55. CRACKS RUTS, SETTLING 56. SETTLED CRACKS 59. THE
- Approaches APPROACH SIDEWALKS ARE SETTLED AND TILTED Undermined
- General 62. POSTED FOR 24 TON MAX LOAD LIMIT DRAW BRIDGE SIGNS 64.
- General ELECTRICAL, WATER SEWER, PHONE 80. (2) RIVET HEADS GONE
- General 81. (1) 82. (1) 84.NA 85. (4) CENTER LOCKS, ONLY ONE
- General CENTER LOCK IS OPERABLE AT THIS TIME THE ELECTRIC MOTOR
- General BURNED OUT ON JUNE 27, 2010. THEY ARE OPERATING THE BRIDGE
- General ON ONLY ONE CENTER LOCK.
- General 87. (1) 88. (1) 89. (1) 90. (1) 91. (1)
- General 92. (1) SOLID BUFFERS, (SPAN IS TOUCHING THE BUFFERS 2008)
- General Rebolted in in 2008.
- General 94. (1) 95.(1) 96. (1) 97. (1) 98. (1)
- General 99. (1) 100.
- General (1) 101. SUMMARY
- General 66. Semi tractor trailer vehicles continue to cross this
- General structure despite the advance warning signs and posted load
- General limits,2010.