

BRIDGE INSPECTION REPORT

1800930
Structure File Number

BRIDGE NUMBER CUY 00006 1456

YEAR BUILT 1917

DIST 12 Bridge Type 354 TYPE SERVICE 5 7 (1499)CUY. RIVER & RTA

DECK	out/out 85.2 Deck Area 226,292 sqft		2 INTEGRAL CONCRETE (MONOLITHIC)	
1. FLOOR	1 REINF CONCRT (PRESTRSD, PRECAST)	1	2. WEARING SURFACE	1
	Left 2 SIDEWALK(>2') / Right 2 SIDEWALK(>2')			
3. CURBS, SIDEWALKS AND WALKWAYS		1	4. MEDIAN	
			Lanes on 6	
5. RAILING	5 REINF CONCR POST & CONCR PANE	1	6. DRAINAGE	2
			3 SCUPPERS & DWNSPTS	
7. EXPANSION JOINTS	8 ELASTOMERIC STRIP SEAL	2	8. SUMMARY	7
SUPERSTRUCTURE				
9. ALIGNMENT	Max Spans 591	1	10. BEAMS/GIRDERS/SLAB	2
			1 N/A (CULVERTS, TRUSSES, ETC.)	
11. DIAPHRAGMS or CROSSFRAMES			12. JOISTS/STRINGERS	2
13. FLOOR BEAMS		2	14. FLOOR BEAM CONNECTIONS	2
15. VERTICALS		2	16. DIAGONALS	2
17. END POSTS		1	18. TOP CHORD	1
19. LOWER CHORD		2	20. LOWER LATERAL BRACING	2
21. TOP LATERAL BRACING		1	22. SWAY BRACING	2
23. PORTALS		2	24. BEARING DEVICES	2
			8 FIXED ARCH-RIB	
25. ARCH		2	26. ARCH COLUMNS or HANGERS	2
27. SPANDREL WALLS			28. PROTECTIVE COATING SYSTEM	5
			Paint Date 7/15/1999	
			5 PAINT SYSTEM OZE	
29. PINS/HANGERS/HINGES		2	30. FATIGUE PRONE CONNECTIONS	2
31. LIVE LOAD RESPONSE		S	32. SUMMARY	6
SUBSTRUCTURE				
33. ABUTMENTS	3 SOLID WALL	2	34. ABUTMENT SEATS	1
			Abutment: NOT ON PILING	
35. PIERS		2	36. PIER SEATS	1
			B TOWER	
			Piers: NOT ON PILING	
37. BACKWALLS			38. WINGWALLS	1
39. FENDERS and DOLPHINS	Piers = 12 NN NN Spans = 13	1	40. SCOUR	2
				1
41. SLOPE PROTECTION	N NONE-NATURAL PROTECTION(GRA		42. SUMMARY	5
			Dive Date 8/7/2003	
CULVERTS				
43. GENERAL	N NONE/NOT APPLICABLE		44. ALIGNMENT	
45. SHAPE			46. SEAMS	
47. HEADWALLS or ENDWALLS	Culvert Length 0		48. SCOUR	
49.			50. SUMMARY	
CHANNEL				
51. ALIGNMENT		2	52. PROTECTION	2
	8 SLIGHT CHANCE OVERTOPPING		3 SHEET PILING	
53. WATERWAY ADEQUACY		1	54. SUMMARY	6
APPROACHES				
55. PAVEMENT	1 CONCRETE	2	56. APPROACH SLABS	
57. GUARDRAIL	0 OTHER	1	58. RELIEF JOINTS	
59. EMBANKMENT		2	60. SUMMARY	6
			Percent Legal = 135	
GENERAL				
61. NAVIGATION LIGHTS		1	62. WARNING SIGNS	2
			Maint Resp 3 COUNTY	
63. SIGN SUPPORTS	Signs on = Y MVC on = 14 Under C = 30	1	64. UTILITIES	2
65. VERTICAL CLEARANCE	Under NC = 0	1	66. GENERAL APPRAISAL & OPERATIONAL STATUS	5
				A
67. INSPECTED BY			68. REVIEWED BY	
SIGNED	PE Number	MJS	SIGNED	60048 MJM
		INITIALS		PE Number INITIALS
DATE 7/10/2006			DATE 9/30/2006	
		1 1 1 1 1 N 1 N		
		SURVEY		

DECK

FLOOR: 1-5% DETERIORATION. SCATTERED TRANSVERSE CRACKS IN TRUSS SPAN AND A FEW DIAGONAL CRACKS IN EAST STATION WITH EFFLORESCENCE. WEST STATION AND TUNNELS HAVE LARGE MOTTLED AREAS, SPALLS, CRACKS WITH STALACTITES.

WS: LONGITUDINAL AND A FEW TRANSVERSE CRACKS. SHALLOW SPALLS ALONG JOINT ARMOR. ONE SF SPALL.

CURBS: SMALL SPALLS/DELAMINATIONS ALONG SOUTH CURB. SPORADIC RUST STAINS.

RAILING: TIGHT VERTICAL CRACKS IN TOP RAIL SPACED AT 1'-3'.

DRAINAGE: HOLE IN PIPES AT PIER 10N AND EAST ABUTMENT. DRAIN HOLES UNDER NORTH SIDEWALK EMPTY ONTO LOWER DECK.

EXPANSION JOINTS: GOUGES IN ARMOR AT TOWER B.

SUPERSTRUCTURE

BEAMS: CRACKS, DELAMINATIONS, SPALLS WITH EXPOSED RE-STEEL.

STRINGERS: RUST SCALE ON LOWER WEB AND BOTTOM FLANGE OF STRINGERS D,E,P,R WITH SECTION LOSS AND A FEW RUST THRU HOLES.

FLOOR BEAMS: STEEL: PITTING AND HOLES IN WEBS OF MOST FLOOR BEAMS UNDER HANGER OPENINGS.

CONCRETE: A FEW DELAMINATIONS AND SPALLS. EAST ABUTMENT FLOOR BEAMS SPALLS WITH EXPOSED REINFORCEMENT.

FB CONNECTIONS: PITTING AND HOLES IN WEB OF SEVERAL BUILT UP HANGERS.

VERTICALS: HEAVY RUST SECTION LOSS UNDER OPENINGS IN UPPER DECK. GROOVE PITTING AT BASE OF GUSSETS AT PP'S L0-L4 AND L4'-L0'.

DIAGONALS: SOME AREAS OF HEAVY RUST SECTION LOSS UNDER OPENINGS IN UPPER DECK. HOLES THROUGH 2 ANGLE LEGS OF L1'-U0' N, ADJACENT TO UPPER DECK.

LOWER CHORD: RUST SECTION LOSS, PACK RUST AND A FEW CHANNELS HAVE RUST THRU HOLES.

SWAY BRACING: SCATTERED AREAS OF PITTING.

PORTALS: PERFORATIONS THROUGH LOWER BATTEN PLATES. AREAS OF ACTIVE RUST AT CONNECTION AREAS INSIDE PORTALS.

BEARING DEVICES: RUST SECTION LOSS. LOOSE STEEL PLATES AT UPPER DECK JOINT AT PIERS 11 AND 12.

ARCH: DELAMINATED AREAS AT EDGES AND ON BOTTOM FACE.

ARCH COLUMNS: DELAMINATIONS AND A FEW SPALLS.

PINS/HANGERS: RUST SECTION LOSS ON EYEBAR HANGERS AT PP'S 4 AND 4'. CRACKS IN RETAINING WASHERS. SLIGHT TRANSVERSE MISALIGNMENT AT UPPER ARCH PIN.

PAINT: <1% DET ABOVE UPPER DECK. BELOW THE UPPER DECK THERE IS 5% RUST, PAINTED OVER SCALE AND PEELING PAINT. PAINT CONDITIONS ARE WORSE UNDER OPENINGS IN THE UPPER DECK. CANDIDATE FOR ZONE PAINTING.

SUBSTRUCTURE

ABUTMENTS: SPAN 1A: PROMINENT CRACKS THROUGH SEVERAL TRANSVERSE CELL WALLS. LARGE SPALLED/DELAMINATED AREAS.

PIERS: SEVERAL WEST STATION AND TUNNEL PIER COLUMNS HAVE HEAVY SPALLING WITH 360 DEGREE REBAR EXPOSURE. SPALLS AND DELAMINATIONS ALONG INTERFACE OF PIER TOWERS WITH UPPER DECK JACK ARCHES AND SPANDREL COLUMNS.

CHANNEL:

ALIGNMENT: FLOWS DIAGONALLY UNDER SPAN 4.

PROTECTION: RUST SCALE ALONG WATER LINE. WEST BANK EROSION SOUTH OF PIER 3 HAS CAUSED SLOPE TO FAIL.

APPROACHES:

PAVEMENT: LONGITUDINAL AND TRANSVERSE CRACKS. RUTTING IN ASPHALT PAVEMENT.

EMBANKMENT: PAST SLOPE FAILURES OF SOUTHWEST EMBANKMENT. TOWER B IS TIPPING AWAY FROM STRUCTURE. CRACK MONITOR INSTALLED.

GENERAL:

WARNING SIGNS: FLASHING WARNING LIGHTS REMOVED.

UTILITIES: PLASTIC CONDUIT HANGING DOWN AND LYING ON LOWER DECK IN SPANS 2,5 AND 6. RUBBER ELECTRIC LINE SUSPENDED FROM SPAN 4 RUBBING L1'-L2'.

FOR MORE INFORMATION SEE DETAILED REPORT