BRIDGE INSPECTION REPORT

BRIDGE NUMBER CUY 00006 1456 YEAR BUILT 1917 1800930

Structure File Number

DIST 12

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

DECK out/out 85.2 Deck Area 226,205 sqft 1 REINF CONORT (PRESTRSD, PRECAST	2	2 INTEGRAL CONCRETE (MONOLITHIC) Thk 1 Wear Date 11/15/1996	1
1. FLOOR Left 2 SIDEWALK(>2') / Right 2 SIDEWALK(>2')		2. WEARING SURFACE	1
3. CURBS, SIDEWALKS AND WALKWAYS	1	4. MEDIAN Lanes on 6	
5. RAILING 5 REINF CONCR POST & CONCR PANEL	1	6. DRAINAGE 3 SCUPPERS & DWNSPTS	2
7. EXPANSION JOINTS 8 ELASTOMERIC STRIP SEAL	2	8. SUMMARY	6
SUPERSTRUCTURE 9. ALIGNMENT Max Spans 591	1	1 N/A (CULVERTS, TRUSSES, ETC.) 10. BEAMS/GIRDERS/SLAB	2
11. DIAPHRAGMS or CROSSFRAMES		12. JOISTS/STRINGERS	3
13. FLOOR BEAMS	3	14. FIOOR BEAM CONNECTIONS	2
15. VERTICALS	2	16. DIAGONALS	2
	1		1
17. END POSTS	2	18. UPPER CHORD	3
19. LOWER CHORD	2	20. GUSSET PLATES	1
21. LATERAL BRACING		22. SWAY BRACING	· ·
23. PORTALS	2	24. BEARING DEVICES 8 FIXED ARCH-RIB	2
25. ARCH	2	26. ARCH COLUMNS or HANGERS Paint Date 7/15/1999	3
27. SPANDREL WALLS		28. PROTECTIVE COATING SYSTEM 5 PAINT SYSTEM OZEL	6
29. PINS/HANGERS/HINGES	2	30. FATIGUE PRONE DETAIL (E, E')	2
31. LIVE LOAD RESPONSE (E OR S)	S	32. SUMMARY	4
SUBSTRUCTURE 33. ABUTMENTS 3 SOLID WALL	2	3 SOLID WALL 34. ABUTMENT SEATS Abutment: NOT ON PILING	
35. PIERS	3	B TOWER 36. PIER SEATS Piers: NOT ON PILING	2
37. BACKWALLS		38. WINGWALLS	2
91 - BASKYALES Piers = 12 NN NN 39. FENDERS and DOLPHINS Spans = 13	3	40. SCOUR (INSP TYPE - 1,2,3)	2
N NONF-NATURAL PROTECTION/GRASS		Dive Date 10/2/2010	4
41. SLOPE PROTECTION CULVERTS		42. SUMMARY	\vdash
43. GENERAL N NONE/NOT APPLICABLE		44. ALIGNMENT	-
45. SHAPE		46. SEAMS	
Culvert Length 0 47. HEADWALLS or ENDWALLS		48. SCOUR (INSP TYPE - 1,2,3)	
49. ABUTMENT		50. SUMMARY	
CHANNEL 51 ALICAIMENT	1	52 PROTECTION 3 SHEET PILING	2
51. ALIGNMENT 8 SLIGHT CHANCE OVERTOPPING AP	1	52. PROTECTION	6
53. HYDRAULIC OPENING APPROACHES		54. SUMMARY	
55. PAVEMENT 1 CONCRETE	2	56. APPROACH SLABS	
57. GUARDRAIL 0 OTHER	2	58. RELIEF JOINTS	
59. EMBANKMENT	2	60. SUMMARY	6
GENERAL 61. NAVIGATION LIGHTS	1	62. WARNING SIGNS	2
Signs on = Y 63. SIGN SUPPORTS MVC on = 14	1	64. UTILITIES	3
Under C = 30	1		4 A
65. VERTICAL CLEARANCE 67. INSPECTED BY	I -	66. GENERAL APPRAISAL & OPERATIONAL STATUS 68. REVIEWED BY	<u>——</u>
SIGNED	DE N		9991
SIGNED P	E Number	SIGNED PE Name WESLEY WEIR	E Number

DATE 10/11/2012

1800930

DECK

FLOOR: ISOLATED HEAVY SPALLS W/ EXP. REBAR W/ MOD. SECTION LOSS, FLOOR CRACKING WITH EFFLO THROUGHOUT THE WEST APPROACH AND TUNNELS.

WEARING SURFACE: ISOLATED DECK SPALLS NOTED, UP TO 20 SQUARE FEET, TYPICALLY WITH ASPHALTIC PATCHES.

CSW: ISOLATED MINOR DAMAGE TO ISOLATED SECTIONS OF
PEDESTRIAN FENCING, MINOR CRACKING IN SIDEWALKS, ISOLATED
SMALL SPALLS

DRAINAGE: PARTIALLY CLOGGED CURB DRAINS, JOINTS TYPICALLY FILLED WITH DEBRIS, MISSING GRATING IN NORTH LONGITUDINAL SIDEWALK TROUGH. PONDED WATER WAS NOTED ALONG THE NORTH SIDEWALK IN SPAN 4.

EX.JOINTS: HEAVY DEBRIS IN GLANDS, ISOLATED MINOR PLOW

DAMAGE WAS NOTED DUE TO VERTICAL MISALIGNMENT OF ADJACENT

JOINT ARMOR. SHALLOW SPALLING OF JOINT HEADERS NOTED

THROUGHOUT THE BRIDGE.

SUPERSTRUCTURE

BEAM/G/S: LOCALIZED AREAS OF HEAVY SPALLS AND DELAMINATED CONCRETE IN THE WEST APPROACH/TUNNEL SECTIONS, MINOR SECTION LOSS TO REINFORCEMENT TYPICAL. MINIMAL CHANGE SINCE THE 2011 INSPECTION.

JOISTS/STRINGERS: UPPER AND LOWER DECK STRINGERS IN SPAN 4 WITH LOCALIZED ADVANCED SECTION LOSS. STRINGER P IN BAY 21 WITH ADVANCED WEB LOSSES (UP TO 100%) ADJACENT TO FB 20 IN THE LOWER 4" OF THE WEB.

FLOORBEAMS: LOCALIZED HOLED THROUGH SECTIONS OF FLOORBEAM WEBS, PARTICULARLY ALONG THE ARCH LINES AND NEAR LATERAL BRACING CONNECTIONS. THE CIRCULAR WELD RETROFIT AT UPPER DECK FB 22 WAS PREVIOUSLY CRACKED, BUT NOTED TO HAVE PROPAGATED A TOTAL OF ~3/8" SINCE LAST MARKED (2010). THIS CRACK REMAINS CONFINED TO THE WELD MATERIAL. THE EXTERIOR FLOORBEAM CORBELS IN THE CONCRETE APPROACH SPANS EXHIBIT LARGE SPALLS AND EXPOSED REINFORCING WITH ISOLATED LOCATIONS WITH THE ENTIRE FRONT FACE SPALLED OFF.

FL BM CONNECT: LOWER FLOORBEAMS WITH HEAVY LOSSES ADJACENT TO HANGER CONNECTIONS. PREVIOUSLY CLEANED AND PAINTED BUT NOW RUSTING WITH LOCALIZED SIGNIFICANT ADDITIONAL LOSSES. VERTICALS: LOCATIONS BELOW THE UPPER DECK LEVEL (PPS 0-4 AND 20-24) WITH ACTIVE CORROSION AT VERTICAL MEMBER CONNECTIONS.

DIAGONALS: LOCATIONS BELOW THE UPPER DECK LEVEL (PPS 0-4 AND 20-24) WITH ACTIVE CORROSION AT DIAGONAL MEMBER CONNECTIONS.

LOWER CHORD: LOCALIZED MODERATE TO ADVANCED SECTION LOSS,

TYPICALLY AT GUSSET PLATE TO LOWER CHORD INTERFACE, PANELS

1

0-4 AND 20-24, TYPICAL.

GUSSET PLATES: LOCALIZED ADVANCED SECTION LOSS TO GUSSET
PLATES AT LOWER CHORD INTERFACE, PANELS 0-4 AND 20-24,
TYPICAL.

LAT BRACE: ISOLATED LATERAL BRACING MEMBERS WITH LOCALIZED ADVANCED SECTION LOSS AND HOLED THROUGH AREAS NEAR THE CONNECTION LOCATIONS.

SWAY BRACE: LOCALIZED AREAS WITH 100% LOSS OF PORTAL BATTEN PLATES AND LACING MEMBERS.

BEARING: MODERATE RUSTING PRIMARILY ON THE INTERIOR OF THE TRUSS BOLSTERS, MULTIPLE SADDLE BEARINGS WITH 100% LOSS.

ARCH: MINOR CRACKING, SPALLING AND/OR DELAMINATED AREAS TYPICAL FOR ALL ARCHES. ISOLATED ARCHES EXHIBIT LARGE DELAMINATED AREAS AND/OR MODERATE LONGITUDINAL OR MAP CRACKING.

ARCH COLUMN: COLUMNS IN THE WEST APPROACH AND TUNNEL
SECTIONS WITH HEAVY SPALLING AND EXPOSED REINFORCEMENT WITH
MODERATE CORROSION. ISOLATED COLUMNS EXHIBIT LOSS OF
CONCRETE BEHIND OUTERMOST REINFORCEMENT.

PCS: PAINT FAILURES TYPICAL AT TRUSS CONNECTIONS BELOW THE UPPER DECK. ESTIMATED BETWEEN 10%-15%

PINS/H/H: MODERATE PITTING AT EYEBAR HEADS AT THE LOWER CONNECTIONS AT ISOLATED PANEL POINTS. NOT SIGNIFICANTLY CHANGED SINCE 2011.

FPD: NO FATIGUE DISTRESS WAS NOTED AT THE EYEBAR HEADS.

SUBSTRUCTURE

ABUTMENTS: ABUTMENT CONCRETE WITH MINOR CRACKING.

PIERS: SOUTH TOWER B SETTLEMENT HAS CONTINUED. ON 9/21/12,

THE CRACK GAUGE AT THE LOWER DECK SHOWED APPROXIMATELY 10MM

OF MOVEMENT SINCE THE PREVIOUS INSPECTION (9/17/11).

PIER SEATS: MINOR CRACKING WAS NOTED AT THE TRUSS BEARING

SEATS WITH NO SIGNIFICANT CHANGE SINCE THE PREVIOUS

INSPECTION.

WINGWALLS: SOFT CONCRETE AT SOUTHWEST WING. CRACKING & SPALLS AT CURTAIN WALLS TYPICAL WITH NO SIGNIFICANT CHANGE SINCE PREVIOUS INSPECTION.

FENDERS AND DOLPHINS: NO FUNCTIONAL COLLISION PROTECTION IS

PRESENT FOR PIER 3

SCOUR: SCOUR HOLE AT PIER 4 HAS SLIGHTLY INCREASED IN SIZE SINCE LAST INSPECTION.

CHANNEL

PROTECTION: WEST EMBANKMENT LACKS ANY TYPE OF BANK PROTECTION.

APPROACHES

Structure File Number 1800930 BRIDGE NUMBER CUY 00006 1456 ON/UNDER

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PAVEMENT: MINOR SHOVING AND CRACKING THROUGHOUT BOTH ASPHALT ${\tt APPROACHES}\,.$

GUARDRAIL: EASTBOUND IMPACT ATTENUATOR DAMAGED FROM VEHICLE

EMBANKMENT: MINOR EROSION CHANNEL AT THE NORTHEAST WING HAS NOT SIGNIFICANTLY CHANGED SINCE THE PREVIOUS INSPECTION.

GENERAL

WARNING SIGNS: WARNING SIGNS PRESENT ONLY AT THE NORTHEAST AND SOUTHWEST CORNERS OF THE TRUSS.

UTILS: UTILITY JUNCTION BOX IN SPAN 6 EXHIBITS ADVANCED CORROSION THROUGHOUT ALL COMPONENTS WITH FAILED CORRUGATED METAL OUTER CONTAINMENT. CONDITION IS A RESULT OF WATER INFILTRATION THROUGH ACCESS MANHOLE ABOVE JUNCTION BOX.