

Bridge No. 101



Looking East



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00101

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00101
8A. NBI Number:	1800084	8C. Old Bridge Number:	
5A. Inventory Route On:	141002020	5B. Rd. Number On:	0202
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 664 N		
9A. Location:	664N 810E	9B Map Location:	K-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.2 Min.	17. Longitude:	085 Deg. 14.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1976	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	05 5 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0076.5 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	026.0 Feet	52. Deck Width (o-o):	028.5 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00101**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-LT POPOUTS, MINOR CRACKS	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-MINOR SEEPAGE, SPALLS	7
60. Sub:	CONCRETE	GOOD-SETTLED UNDER E ENDBENT	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-SETTLED, ROUGH	4

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **245**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SPALLING UNDER DECK AT SE CORNER, UNDERMINING	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	CURVE EAST, INTERSECTION WEST, FIELD ENTR SW	4
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00101

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
PATCH AND WEDGE THE APPROACHES. UNDERPIN THE EAST END BENT. PLACE A RAIL COUPLING AT THE SOUTHWEST CURVED RAIL.

76. Improvement Length: 000076 feet
94. Bridge Imp. Costs: \$ 2 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 5 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000420
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/29/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	28	years
C. Joints:	NA	years
D. Superstructure:	28	years
E. Substructure:	28	years
F. Approach:	02	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

ONE OF FOUR END MARKERS IS IN PLACE BUT IS TWISTED. THE END OF THE DECK AT THE EAST APPROACH IS SPALLED AND ABRADED DUE TO THE SETTLED APPROACH PAVEMENT. THERE IS NO TEXTURE ON DECK. THERE IS A BURROW UNDER THE EAST ENDBENT ALONG WITH SOME SETTLING. ONE RAIL COUPLING IS MISSING AT THE SOUTHWEST CURVED RAIL. THE EAST SPAN IS SPALLED ALONG THE BOTTOM OF THE SLAB NEAR THE SOUTH COPING.

Bridge No. 103



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00103

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00103
8A. NBI Number:	1800086	8C. Old Bridge Number:	
5A. Inventory Route On:	141000700	5B. Rd. Number On:	0070
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 500 N		
9A. Location:	500N 840E	9B Map Location:	K-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.8 Min.	17. Longitude:	085 Deg. 13.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	002
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	01 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1978	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0060.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	024.5 Feet
51. Bridge Roadway Width:	023.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	016 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	23.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00103

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER WITH ASPHALT W.S.	FAIR-ROUGH, CRACKED, SEEPAGE	4
59. Super:	TIMBER SLAB	FAIR-LOCALIZED FAILURES	5
60. Sub:	CONCRETE	FAIR-OLD EAST ABUT SPALLED	5
61. Channel:	EARTH/BEDROCK	FAIR-FLOWS AGAINST ABUTS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR - ROUGH	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	TIMBERS UNSUPPORTED OR BROKEN, LOAD RATING	2
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	OPENING APPEARS ADEQUATE, POOR SKEW	6
72. Roadway Alignment:	STRAIGHT, HILL WEST, INTERSECTION SOUTHEAST	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00103

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT.

76. Improvement Length: 000082 feet
94. Bridge Imp. Costs: \$ 240 X 1000
95. Rdwy. Imp. Costs: \$ 60 X 1000
96. Total Project Costs: \$ 300 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	03	years
C. Joints:	NA	years
D. Superstructure:	03	years
E. Substructure:	03	years
F. Approach:	05	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THE STEEL SHEET PILE WINGWALLS ARE FAILING, ALLOWING EROSION AT THE CORNERS. THE OUTSIDE TIMBERS ARE ROTATING OUT BECAUSE THE BRIDGE SEAT IS TOO SHORT; AS A RESULT, THE BRIDGE RAIL LEANS OUT. MANY OF THE SLAB TIMBERS ARE WORN OR BROKEN.

Bridge No. 105



Looking Northeast



Looking Southwesterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00105

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00105
8A. NBI Number:	1800087	8C. Old Bridge Number:	
5A. Inventory Route On:	141000560	5B. Rd. Number On:	0056
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 250 N		
9A. Location:	260N 840E	9B Map Location:	K-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.8 Min.	17. Longitude:	085 Deg. 13.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1970	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0058.0 Feet	49. Structure Length:	0060.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	023.9 Feet	52. Deck Width (o-o):	024.1 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.9 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00105

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-LONGITUDINAL CRACKS	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-SEEPAGE BETWEEN BEAMS	7
60. Sub:	CONCRETE BENTS	GOOD-SEEPAGE	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-SETTLED;ROUGH SPOTS	4

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 242
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE BETWEEN BEAMS & AT ENDBENTS	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE, GOOD ALIGNMENT	7
72. Roadway Alignment:	LEVEL, HORIZONTAL CURVES AT BOTH ENDS	4
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00105

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL GUARDRAIL AT ALL CORNERS AND TRANSITIONS FROM STEEL RAIL TO CONCRETE RAIL. WEDGE THE APPROACHES. INSTALL END MARKERS.

76. Improvement Length: 000060 feet
94. Bridge Imp. Costs: \$ 2 X 1000
95. Rdwy. Imp. Costs: \$ 14 X 1000
96. Total Project Costs: \$ 16 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	25	years
C. Joints:	NA	years
D. Superstructure:	25	years
E. Substructure:	25	years
F. Approach:	01	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

TWO END MARKERS ARE IN PLACE. THE PLAQUE READS BRIDGE NUMBER 60. THERE IS MINOR UNDERMINING AT THE EAST ENDBENT. THE RAIL IS SOMEWHAT LOW (25"). MINOR EROSION IS PRESENT AT THE SOUTHWEST SHOULDER; MORE SIGNIFICANT EROSION WAS FOUND AT THE SOUTHEAST CORNER. THERE ARE CRACKS AND SMALL POTHOLES IN THE DECK WEARING SURFACE AND SMALL POTHOLES AND EROSION AT THE APPROACHES.

Bridge No. 106



Looking East



Looking Southeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00106

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00106
8A. NBI Number:	1800088	8C. Old Bridge Number:	
5A. Inventory Route On:	141000620	5B. Rd. Number On:	0062
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 350 N		
9A. Location:	350N 680E	9B Map Location:	J-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.5 Min.	17. Longitude:	085 Deg. 15.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	002
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	03 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1975	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000250	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0052.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	026.0 Feet
51. Bridge Roadway Width:	024.5 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	025 Feet	35. Structure Flared:	0 NO
34. Skew:	45 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.5 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00106

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-TIMBERS DETERIORATED	5
59. Super:	TIMBER SLAB	FAIR-SEEPAGE, WEATHERED, SAG	6
60. Sub:	TIMBER	FAIR-OPEN JTS AT E MUDWALL	6
61. Channel:	EARTH/VEGETATION	POOR-HEAVY DEBRIS	3
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-SETTLED, HOLE E APPR	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 240
66A. Inventory Rating: 230 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	FILL LOSS THRU GAPS IN E ENDBENT, SEEPAGE	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQ OPENING, FLOWS AGAINST ABUTMENTS	4
72. Roadway Alignment:	STRAIGHT; SLIGHT HUMP	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00106

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE GAPS IN THE EAST MUDWALL. INSTALL GUARDRAIL TRANSITIONS AND END TREATMENTS. CLEAR DEBRIS AND RIPRAP THE CHANNEL.

76. Improvement Length: 000052 feet
94. Bridge Imp. Costs: \$ 8 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 18 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 04 years
B. Deck: 05 years
C. Joints: NA years
D. Superstructure: 05 years
E. Substructure: 05 years
F. Approach: 05 years
G. Channel: 10 years
H. Culvert: NA years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. THE TIMBER RAIL POSTS ARE HIGH AND NOT STANDARD. THERE IS MODERATE SAG IN THE CENTER SPAN. SOME DEBRIS IS ACCUMULATED IN THE CHANNEL.

Bridge No. 107



Looking East



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00107

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00107
8A. NBI Number:	1800089	8C. Old Bridge Number:	
5A. Inventory Route On:	141000720	5B. Rd. Number On:	0072
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MISSISSINAWA RIVER		
7. Facility Carried:	RD 700 N		
9A. Location:	700N 380E	9B Map Location:	H-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.5 Min.	17. Longitude:	085 Deg. 18.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	310A STEEL PONY TRUSS		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	7 Timber	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1925	106A. Reconstructed:	1979
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	4 POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0080.0 Feet	49. Structure Length:	0165.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	015.5 Feet	52. Deck Width (o-o):	016.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	15.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00107

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 3 ONE LANE BR
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 3 POSSIBLY ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER	POOR-GOUGED,WORN	2
59. Super:	STEEL THRU TRUSS	FAILED-SEVERE SECTION LOSS	0
60. Sub:	STONE	SERIOUS-LOOSE STONES	2
61. Channel:	EARTH/VEGETATION	FAIR	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-RUTTED,UNEVEN	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 200
66A. Inventory Rating: 200 64B. Year of Rating: 2004
66B. Gross Tons or H Rating: 00
70. Bridge Posting: 0 BRIDGE CLOSED AND PROPERLY BARRICADED
41. Open, Posted, or Closed: K CLOSED
66C. Tons Posted: 00 66D. Date Posted/Closed: 12 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEVERE SECTION LOSS;LOOSE STONES;DISTORTION	0
68. Geometry:	ONE LANE WIDTH	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, HUMP OVER BRIDGE	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	H MISC. STEEL RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00107

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000200 feet
94. Bridge Imp. Costs: \$ 460 X 1000
95. Rdwy. Imp. Costs: \$ 115 X 1000
96. Total Project Costs: \$ 575 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000620
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y24 B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: 0305 B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	00	years
C. Joints:	NA	years
D. Superstructure:	00	years
E. Substructure:	00	years
F. Approach:	05	years
G. Channel:	18	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE IS CLOSED DUE TO ADVANCED SECTION LOSS AT THE LOWER CHORDS, CONNECTIONS, AND BEARINGS. THE MASONRY ABUTMENTS HAVE LOOSE OR MISSING STONES. MANY OF THE STRINGERS HAVE ADVANCED SECTION LOSS. THE BRIDGE WAS CLOSED IN DECEMBER, 2003 AFTER BEING SUBJECTED TO OVERLOADING AND WAS PERMANENTLY CLOSED IN JANUARY 2004 AFTER A CRITICAL FEATURE INSPECTION REVEALED ADVANCED DETERIORATION AND DAMAGE. BARRICADES ARE IN PLACE AND ADVANCE NOTICE SIGNS ARE POSTED.

Bridge No. 108



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00108

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00108
8A. NBI Number:	1800090	8C. Old Bridge Number:	
5A. Inventory Route On:	141001370	5B. Rd. Number On:	0137
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	RD 500 W		
9A. Location:	615S 500W	9B Map Location:	C-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.2 Min.	17. Longitude:	085 Deg. 28.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	310A STEEL PONY TRUSS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1920	106A. Reconstructed:	1999
27B. Paint Date:	0299	106B. Repaired:	
59B. Paint Rating:	4 POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0049.0 Feet	49. Structure Length:	0051.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	013.7 Feet	52. Deck Width (o-o):	014.7 Feet
32. Approach Roadway Width:	014 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	14.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00108

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 3 ONE LANE BR
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY
22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 3 POSSIBLY ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR CRACKS, EFFLORESC	8
59. Super:	STEEL PONY TRUSS	FAIR-AREAS OF RUST,SECT LOSS	5
60. Sub:	CONCRETE ABUTMENT	FAIR	5
61. Channel:	EARTH/RIPRAP	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 206
66A. Inventory Rating: 205 64B. Year of Rating: 1998
66B. Gross Tons or H Rating: 05
70. Bridge Posting: 2 5 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 05 66D. Date Posted/Closed: 07 / 84

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SECTION LOSS, RUST, LOW LOAD RATING	2
68. Geometry:	ONE LANE	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	BARELY ADEQUATE	5
72. Roadway Alignment:	DRIVE SOUTHEAST, CURVE TO THE SOUTH	5
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	Q STEEL - THRIE BEAM	
113A. Scour Critical Bridges:	7 FIXED - NOT SCOUR CRIT.	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00108

PROPOSED IMPROVEMENTS:

73. Year Needed: 2015

75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT

Describe Item 75:

REPLACE BY CONTRACT DUE TO POSTING LIMIT. MEANWHILE, BLAST AND REPAINT CONNECTIONS AND AREAS OF PEELING PAINT. REGULARLY CLEAN DEBRIS FROM END POST SEATS. ONE ADDITIONAL END MARKER IS NEEDED.

76. Improvement Length: 000074 feet

94. Bridge Imp. Costs: \$ 200 X 1000

95. Rdwy. Imp. Costs: \$ 40 X 1000

96. Total Project Costs: \$ 240 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000420

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: Y24 B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: 0305 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 30 years

B. Deck: 45 years

C. Joints: 02 years

D. Superstructure: 12 years

E. Substructure: 15 years

F. Approach: 10 years

G. Channel: 10 years

H. Culvert: NA years

Remarks:

THERE IS SOME PAINT FAILURE AND RUST - ESPECIALLY AT THE WELD REPAIR LOCATIONS. REPAINTING SHOULD BE GIVEN HIGH PRIORITY IN ORDER TO INHIBIT RUST AND FURTHER SECTION LOSS. DEBRIS AT THE END POST SEATS HOLDS MOISTURE, CAUSING INCREASED RUST AND DETERIORATION. THE ELASTIC JOINT MATERIAL HAS TWO HOLES. THE TOPS OF THE NORTH MUDWALL HAS NARROW CRACKS. THE DECK IS CRACKED LONGITUDINALLY AT THE CENTERLINE NEAR THE SOUTH END. TRANSVERSE DECK CRACKS ARE PRESENT BELOW. ONE END MARKER IS MISSING.

Bridge No. 109



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00109

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00109
8A. NBI Number:	1800091	8C. Old Bridge Number:	
5A. Inventory Route On:	141001470	5B. Rd. Number On:	0147
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	RD 456 W		
9A. Location:	590S 456W	9B Map Location:	D-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.4 Min.	17. Longitude:	085 Deg. 28.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1970	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0048.0 Feet	49. Structure Length:	0050.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	023.6 Feet	52. Deck Width (o-o):	024.2 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.6 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00109

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD-MINOR CRACKS, WEAR	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD-MINOR SEEPAGE	8
60. Sub:	PRECAST CONCRETE	GOOD	8
61. Channel:	NO PROTECTION	FAIR-EROSION	5
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT - RUTTED & SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 244
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR SEEPAGE, EROSION NEAR SOUTH ABUTMENT	8
68. Geometry:	SLIGHTLY NARROW - TWO LANES	4
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	INTERSECTION SOUTH; STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00109

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAIL WITH END TREATMENTS AT ALL CORNERS. WEDGE THE APPROACHES. RIPRAP THE CHANNEL AT THE BRIDGE AND TO THE EAST. REPAIR THE WEST BRIDGE RAIL.

76. Improvement Length: 000050 feet
94. Bridge Imp. Costs: \$ 5 X 1000
95. Rdwy. Imp. Costs: \$ 12 X 1000
96. Total Project Costs: \$ 17 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000330
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	08	years
B. Deck:	25	years
C. Joints:	NA	years
D. Superstructure:	25	years
E. Substructure:	25	years
F. Approach:	04	years
G. Channel:	01	years
H. Culvert:	NA	years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. THERE IS CONSIDERABLE BANK EROSION EAST OF THE BRIDGE AND AT THE SOUTH ENDBENT. THE WEST BRIDGE RAIL IS DAMAGED. THE EAST RAIL POSTS ARE SLIGHTLY DAMAGED. THE APPROACH PAVEMENT IS SETTLED APPROXIMATELY ONE INCH NEAR THE SHOULDERS.

Bridge No. 110



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00110

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00110
8A. NBI Number:	1800092	8C. Old Bridge Number:	
5A. Inventory Route On:	141000370	5B. Rd. Number On:	0037
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	RD 300 W		
9A. Location:	650S 300W	9B Map Location:	D-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.0 Min.	17. Longitude:	085 Deg. 26.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1963	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.3 Feet	52. Deck Width (o-o):	027.7 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00110**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 S-7518** 104B. - Under:
 26A. Functional Class Over: **07 MAJOR COLLECTOR - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD-MINOR LEACHING	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-SEEPAGE AT DRAINS	7
60. Sub:	CONCRETE	GOOD-MINOR CRACKS	7
61. Channel:	RIPRAP/NATURAL	FAIR-N ENDBENT UNDERMINED	6
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR-MINOR SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	N ENDBENT UNDERMINED ON E SIDE, PILE EXPOSED	7
68. Geometry:	NARROW FOR A.D.T.	4
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL; DRIVEWAY AT SW CORNER	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00110

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH GUARD RAIL AND TRANSITIONS, INCLUDING CURB TRANSITIONS, AT ALL CORNERS. RIPRAP SPILLSLOPES. REPAIR THE UNDERMINED END BENT.

76. Improvement Length: 000062 feet
94. Bridge Imp. Costs: \$ 7 X 1000
95. Rdwy. Imp. Costs: \$ 12 X 1000
96. Total Project Costs: \$ 19 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000840
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 04 years
B. Deck: 25 years
C. Joints: NA years
D. Superstructure: 25 years
E. Substructure: 25 years
F. Approach: 05 years
G. Channel: 15 years
H. Culvert: NA years

Remarks:

THE BANKS ARE ERODED. TWO OF FOUR END MARKERS ARE MISSING. THE APPROACH RAIL LENGTH IS INADEQUATE. THE PIERS HAVE NARROW VERTICAL CRACKS AT THE CENTERLINE. THE SLAB HAS HAIRLINE TO NARROW CRACKS TRANSVERSELY AND AT THE CENTERLINE. THE NORTH ENDBENT CAP IS UNDERMINED. THE ENDS OF THE CURBS AND THE BRIDGE RAILS ARE EXPOSED TO TRAFFIC. DEBRIS AT THE GUTTERS PARTIALLY BLOCKS THE DRAINS.

Bridge No. 111



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00111

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00111
8A. NBI Number:	1800093	8C. Old Bridge Number:	
5A. Inventory Route On:	141001450	5B. Rd. Number On:	0145
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BELL CREEK		
7. Facility Carried:	RD 500 W		
9A. Location:	770S 500W	9B Map Location:	C-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 04.8 Min.	17. Longitude:	085 Deg. 28.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1968	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000190	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0041.0 Feet	49. Structure Length:	0102.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	025.2 Feet	52. Deck Width (o-o):	029.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00111

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-LONGIT CENTERLINE CRACK	6
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-MINOR LEACHING, CRACKS	6
60. Sub:	CONCRETE	GOOD	7
61. Channel:	RIPRAP/NATURAL	FAIR-NORTH ENDBENT ERODED	5
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR-SETTLED, CRACKS	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NORTH ENDBENT ERODED, SEEPAGE AT DRAINS	6
68. Geometry:	TWO LANES	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	DRIVE SW; HILL TO NORTH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00111

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPAIR THE ERODED AREA AT THE NORTH ENDBENT AND PROTECT WITH RIPRAP. INSTALL GUARDRAIL AT ALL CORNERS. WEDGE THE APPROACHES. INSTALL TWO END MARKERS; CHANGE THE SOUTHEAST END MARKER. REPAIR THE PIPE AT THE NORTHEAST CORNER.

76. Improvement Length: 000102 feet

94. Bridge Imp. Costs: \$ 8 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 18 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000320

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 04 years

B. Deck: 25 years

C. Joints: NA years

D. Superstructure: 25 years

E. Substructure: 25 years

F. Approach: 05 years

G. Channel: 18 years

H. Culvert: NA years

Remarks:

THE PLAQUE READS BRIDGE NO. 9. THE NORTHEAST AND SOUTHWEST PAVED SIDE DITCHES ARE SILTED. TWO OF FOUR END MARKERS ARE MISSING; ANOTHER IS INCORRECTLY PLACED. THE NORTH ENDBENT IS UNDERMINED. THERE ARE MODERATE CRACKS AND SPALLS ALONG THE BOTTOM OF THE WEST COPING. RANDOM NARROW CRACKS WERE FOUND IN THE SLAB. THE CORRUGATED METAL PIPE WHICH RUNS UNDER THE ENDBENT CAP AT THE NORTHEAST CORNER APPEARS TO BE BROKEN DOWN BEHIND THE BENT CAP; WATER RUNS CONTINUOUSLY. THE ENDS OF THE CURBS AND BRIDGE RAILS ARE EXPOSED TO TRAFFIC.

Bridge No. 112



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00112

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00112
8A. NBI Number:	1800094	8C. Old Bridge Number:	
5A. Inventory Route On:	141002860	5B. Rd. Number On:	0286
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	RD 600 S		
9A. Location:	600S 360W	9B Map Location:	D-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.4 Min.	17. Longitude:	085 Deg. 27.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1955	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0031.0 Feet	49. Structure Length:	0078.0 Feet
50. Sidewalk/Curb Left:	00.6 Right: 00.6		
51. Bridge Roadway Width:	022.1 Feet	52. Deck Width (o-o):	026.1 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	32 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00112

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-DRAINS BLOCKED	6
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-LEACHING AT CONSTR JT	5
60. Sub:	CONCRETE	POOR-HVY SPALLING, EFFLORESC	4
61. Channel:	EARTH/VEGETATION	FAIR-EROSION	5
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR-SETTLED, ROUGH	4

LOAD RATING AND POSTING:

31. Design Load: 2 H-15
64A. Operating Rating: 226
66A. Inventory Rating: 214 64B. Year of Rating:
66B. Gross Tons or H Rating: 14
70. Bridge Posting: 4 14 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 14 66D. Date Posted/Closed: 10 / 96

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PILE ENCASEMENTS SPALLING AT WATERLINE	4
68. Geometry:	TWO LANES - SOMEWHAT NARROW	4
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	I COMBINATIONS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00112

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT. UNTIL THEN, INSTALL THREE ADDITIONAL END MARKERS.

76. Improvement Length: 000100 feet
94. Bridge Imp. Costs: \$ 250 X 1000
95. Rdwy. Imp. Costs: \$ 75 X 1000
96. Total Project Costs: \$ 325 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000420
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 03 years
B. Deck: 10 years
C. Joints: NA years
D. Superstructure: 15 years
E. Substructure: 04 years
F. Approach: 05 years
G. Channel: 05 years
H. Culvert: NA years

Remarks:

EROSION AT BOTH END BENTS IS EXPOSING THE PILES. BOTH INTERIOR BENTS HAVE HEAVILY SPALLED PILE ENCASEMENT WITH EXPOSED REINFORCING STEEL AT THE WATERLINE. THE CONCRETE AT THE WATERLINE AT THE NORTH COLUMN OF THE WEST INTERIOR BENT IS DETERIORATED APPROXIMATELY FIVE INCHES WITHIN THE SPIRAL STEEL. ANOTHER COLUMN AT THE EAST INTERIOR PIER IS VERY HEAVILY DETERIORATED AT THE WATERLINE. THERE ARE CRACKS AND HEAVY EFFLORESCENCE AT AND NEAR THE NORTH CONSTRUCTION JOINT IN THE DECK. THE INTERIOR BENT CAPS HAVE NUMEROUS HORIZONTAL CRACKS WITH EFFLORESCENCE. A LARGE AMOUNT OF BRUSH HAS BEEN DUMPED IMMEDIATELY UPSTREAM OF THE WEST INTERIOR BENT.

Bridge No. 113



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00113

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00113
8A. NBI Number:	1800095	8C. Old Bridge Number:	
5A. Inventory Route On:	141002860	5B. Rd. Number On:	0286
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	RD 600 S		
9A. Location:	600S 460W	9B Map Location:	D-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.4 Min.	17. Longitude:	085 Deg. 28.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1984	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0031.0 Feet	49. Structure Length:	0084.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	024.0 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00113

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-TRANSV CRKS OVER PIERS	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD-HAIRLINE CRACKS	7
60. Sub:	CONCRETE ON H-PILES	GOOD-GALVANIZED H-PILES	8
61. Channel:	RIPRAP	FAIR-HEAVY DEBRIS	6
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR- SETTLEMENT	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 244
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKS IN ASPHALT OVER PIERS, CRACKED BEAMS	7
68. Geometry:	TWO LANES	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	F STEEL PILES - H COLUMNS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00113

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
SEAL CRACKS IN THE WEARING SURFACE AND WEDGE THE APPROACHES. CLEAR DEBRIS FROM THE CHANNEL. REPLACE THE NORTHWEST END MARKER.

76. Improvement Length: 000084 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 3 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000220
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	30	years
C. Joints:	08	years
D. Superstructure:	30	years
E. Substructure:	40	years
F. Approach:	10	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE BUT ONE IS IN POOR SHAPE. TREES ARE LODGED AGAINST THE PILING AT THE INTERIOR BENTS. SEVERAL BEAMS HAVE LONGITUDINAL HAIRLINE CRACKS ON THE BOTTOM.

Bridge No. 115



Looking East



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00115

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00115
8A. NBI Number:	1800097	8C. Old Bridge Number:	
5A. Inventory Route On:	141002860	5B. Rd. Number On:	0286
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BELL CREEK		
7. Facility Carried:	RD 600 S		
9A. Location:	600S 520N	9B Map Location:	C-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.4 Min.	17. Longitude:	085 Deg. 29.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1966	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000140	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0039.0 Feet	49. Structure Length:	0115.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	024.4 Feet	52. Deck Width (o-o):	026.2 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00115

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-OPEN JOINTS	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-OPEN JOINTS	7
60. Sub:	CONCRETE	FAIR-SEEPAGE, MINOR SPALLING	6
61. Channel:	CONCRETE SLOPEWALL	FAIR-DEBRIS,SLPWALL UNDERCUT	6
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT - SETTLED, POTHOLE	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 237
66A. Inventory Rating: 230 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OPEN EXPANSION JOINTS, MINOR SPALLING	6
68. Geometry:	TWO LANES	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	SAG CURVE; FIELD ENTRANCE SW	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00115

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPLACE THE EXPANSION JOINTS. INSTALL CURB TRANSITIONS AND GUARDRAIL AT THE CORNERS. FILL EROSION AT THE SOUTHEAST CORNER. WEDGE THE APPROACHES. CLEAR DEBRIS FROM THE CHANNEL AND DECK.

76. Improvement Length: 000115 feet

94. Bridge Imp. Costs: \$ 15 X 1000

95. Rdwy. Imp. Costs: \$ 15 X 1000

96. Total Project Costs: \$ 30 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000230

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	28	years
C. Joints:	00	years
D. Superstructure:	28	years
E. Substructure:	28	years
F. Approach:	03	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE CHANNEL FLOWS AGAINST THE EAST SLOPEWALL. THERE IS MINOR SPALLING AND EXPOSED STEEL AT THE TOP OF THE WEST PIER STEM AND THE BOTTOM OF THE EAST PIER. DEBRIS IS ACCUMULATED ON THE DECK. THE CURBS POSE CRASH HAZARDS. A SMALL CRACK WITH EFFLORESCENCE WAS FOUND IN THE BOTTOM OF THE EAST END OF THE NORTH OUTSIDE BEAM IN THE CENTER SPAN. THERE ARE SPALLS AROUND ONE RAIL POST CONNECTION APPROXIMATELY MIDSPAN IN THE CENTER SPAN ON THE SOUTH SIDE. ONE RAIL SPLICE IS NOT PROPERLY BOLTED TOGETHER ON THE NORTH SIDE. THERE IS MINOR EROSION AT THE SOUTHEAST CORNER. THE WEARING SURFACE HAS SMALL POTHOLES.

Bridge No. 118



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00118

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00118
8A. NBI Number:	1800099	8C. Old Bridge Number:	
5A. Inventory Route On:	141000980	5B. Rd. Number On:	0098
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BELL CREEK		
7. Facility Carried:	RD 700 S		
9A. Location:	700S 555W	9B Map Location:	C-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 05.5 Min.	17. Longitude:	085 Deg. 29.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1954	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000254	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0077.3 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	022.1 Feet	52. Deck Width (o-o):	026.7 Feet
32. Approach Roadway Width:	019 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00118

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-6218 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-CRACKS	5
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-LEACHING, CRACKS	6
60. Sub:	CONCRETE	FAIR-PILE ENCASEMENT SPALLED	5
61. Channel:	EARTH/VEGETATION	POOR-ENDBENTS UNDERMINED	4
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		POOR-SETTLED, SHLDRS ERODED	6

LOAD RATING AND POSTING:

31. Design Load: 2 H-15
64A. Operating Rating: 216
66A. Inventory Rating: 213 64B. Year of Rating: 1996
66B. Gross Tons or H Rating: 13
70. Bridge Posting: 4 13 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 13 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PILES EXPOSED; ENCASEMENT FAILED; LOAD RATING	4
68. Geometry:	TWO LANES - NARROW	4
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, HILL WEST, FIELD ENTRANCE SOUTHEAST	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	I COMBINATIONS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00118

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR UNDERMINED ENDBENT. REPAIR PILE ENCASEMENTS. RIPRAP SLOPES. WEDGE APPROACHES. INSTALL APPROACH RAIL. REPLACE WEARING SURFACE. REGRADE WEST SHOULDERS.

76. Improvement Length: 000078 feet
94. Bridge Imp. Costs: \$ 40 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 50 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	03	years
B. Deck:	18	years
C. Joints:	NA	years
D. Superstructure:	18	years
E. Substructure:	10	years
F. Approach:	01	years
G. Channel:	00	years
H. Culvert:	NA	years

Remarks:

PILES ARE EXPOSED AT THE WEST ENDBENT. THE CONCRETE ENCASEMENTS OF THE STEEL PILES HAS FAILED AT THE WATERLINE, ESPECIALLY AT THE EAST INTERIOR BENT. ONE COLUMN HAS SOME DETERIORATION NEAR THE TOP. THE CURB ENDS ARE EXPOSED TO TRAFFIC. THE NORTHWEST END MARKER IS MISSING. THE WEST APPROACH IS BEGINNING TO FAIL DUE TO FILL LOSS. THE BRIDGE IS NOT POSTED EASTBOUND OR AT THE INTERSECTIONS. ONE SIGN IS IN PLACE BETWEEN THE BRIDGE AND THE INTERSECTION. ONE SIGN IS IN PLACE AT THE EAST INTERSECTION BUT THAT ROAD HAS A 5 TON LIMIT - A SIGN IS NEEDED AT 475W.

Bridge No. 120



Looking Northeast



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00120

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00120
8A. NBI Number:	1800101	8C. Old Bridge Number:	
5A. Inventory Route On:	141001450	5B. Rd. Number On:	0145
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	MIDDLET ROAD		
9A. Location:	585S 425W	9B Map Location:	D-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.4 Min.	17. Longitude:	085 Deg. 28.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1968	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000250	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0082.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	025.3 Feet	52. Deck Width (o-o):	029.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	45 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00120

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-SCALING,CRACKS	6
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-SEEPAGE AT DRAINS	7
60. Sub:	CONCRETE	GOOD-HAIRLINE CRACKS	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED, UNDERCUT	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH-MIN SETTLEMENT,POTHOLES	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BR RAIL SPALLED,EXPOSED REBAR;MINOR LEACHING	7
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL; DRIVE SE	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00120

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
EXTEND THE APPROACH RAIL AND ADD TRANSITIONS INCLUDING CURB TRANSITION AND ADDITIONAL RAIL POSTS.

76. Improvement Length: 000082 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 8 X 1000
96. Total Project Costs: \$ 12 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	09	years
B. Deck:	23	years
C. Joints:	NA	years
D. Superstructure:	23	years
E. Substructure:	23	years
F. Approach:	10	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE PLAQUE READS BRIDGE NUMBER 12. THE CURBS POSE A SLIGHT CRASH HAZARD. THE NORTH SLOPEWALL IS BROKEN AND SETTLED AT THE TOE OF THE SLOPE. THE DECK HAS A LIGHT BROOM FINISH. THE SOUTHEAST APPROACH RAIL HAS CRASH DAMAGE. THERE ARE RANDOM NARROW CRACKS IN THE WEARING SURFACE. THERE ARE NARROW CRACKS IN THE COPING AND CURBS. THERE ARE SPALLS AT THE BOTTOM OF THE COPING IN THE NORTH SPAN ON THE WEST SIDE AND AROUND THE DRAIN OUTLETS. THE NORTH PIER HAS TWO VERTICAL HAIRLINE CRACKS. THE APPROACHES ARE SETTLED ABOUT ONE INCH.

Bridge No. 121



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00121

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00121
8A. NBI Number:	1800102	8C. Old Bridge Number:	
5A. Inventory Route On:	141000160	5B. Rd. Number On:	0016
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	SHOEMAKER DITCH		
7. Facility Carried:	RD 500 S		
9A. Location:	500S 770W	9B Map Location:	B-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.2 Min.	17. Longitude:	085 Deg. 31.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	104 CONCRETE TEE BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1930	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000262	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0029.0 Feet	49. Structure Length:	0030.0 Feet
50. Sidewalk/Curb Left:	00.5 Right: 00.5		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	027.1 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00121

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ LATEX OVERLAY	FAIR-LEACHING	6
59. Super:	REINFORCED CONCRETE GIRDER	POOR-SPALL, CRACKS, LEACHING	4
60. Sub:	CONCRETE	FAIR-CRACKS & LEACHING	5
61. Channel:	EARTH/VEG.	FAIR-FLOW AGAINST ABUTMENTS	5
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT-POOR, ROUGH	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 225
66A. Inventory Rating: 220 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 16
70. Bridge Posting: 5 16 TON LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HEAVY LEACHING, SPALLING, CRACKING	4
68. Geometry:	SLIGHTLY NARROW	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	INADEQUATE OPENING	4
72. Roadway Alignment:	STRAIGHT AND LEVEL, SLIGHT HUMP AT BRIDGE	6
36A. Traffic Safety Features:	1011 GOOD RAILING - NO TRANSITION	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00121

PROPOSED IMPROVEMENTS:

73. Year Needed: 2007
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT. MEANWHILE, ADD END MARKERS AND AN ADDITIONAL APPROACH RAIL POST AT EACH CORNER.

76. Improvement Length: 000030 feet
94. Bridge Imp. Costs: \$ 160 X 1000
95. Rdwy. Imp. Costs: \$ 15 X 1000
96. Total Project Costs: \$ 175 X 1000
97. Year of Cost Estimate: 1999
114. Future ADT: 000450
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	13	years
B. Deck:	10	years
C. Joints:	NA	years
D. Superstructure:	04	years
E. Substructure:	05	years
F. Approach:	10	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THE SOUTHWEST CONCRETE WINGWALLS ARE WEATHERED AND EFFLORESCING. THERE ARE NO END MARKERS IN PLACE. THE CONCRETE BEAMS HAVE LONGITUDINAL CRACKS. SOME THROUGHOUT THE LENGTH OF THE BEAMS. THERE IS HEAVY SPALLING AT THE BOTTOM OF THE SOUTH OUTSIDE BEAM. THE SUPERSTRUCTURE TYPE WAS CHANGED TO REFLECT THE ACTUAL STRUCTURE IN PLACE.

Bridge No. 122



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00122

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00122
8A. NBI Number:	1800214	8C. Old Bridge Number:	1923
5A. Inventory Route On:	142000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BELL CREEK		
7. Facility Carried:	OLD S.R. 67		
9A. Location:	550S 500W	9B Map Location:	C-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.8 Min.	17. Longitude:	085 Deg. 28.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	111A REINFORCED CONCRETE ARCH		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	06 Inches

AGE AND SERVICE:

27A. Year Built:	1937	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000445	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0060.0 Feet	49. Structure Length:	0063.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	038.0 Feet	52. Deck Width (o-o):	040.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	38.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00122**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0** 104B. - Under:
 26A. Functional Class Over: **09 LOCAL - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	EARTH FILL		N/A
59. Super:	CONCRETE ARCH	POOR-SPALLED COPINGS, EFFLOR	4
60. Sub:	CONCRETE	FAIR	4
61. Channel:	EARTH/VEGETATION	GOOD	7
62. Culv/Ret:			N/A
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
 64A. Operating Rating: **236**
 66A. Inventory Rating: **220** 64B. Year of Rating:
 66B. Gross Tons or H Rating: **20**
 70. Bridge Posting: **5 OPEN**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	VERY HEAVY SPALLING - COPINGS,RAILS,SPANDRELS	4
68. Geometry:	STRAIGHT, CURVE TO THE WEST	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL	7
36A. Traffic Safety Features:	0111 POOR BR RAILING - REST IS GOOD	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00122

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
RECONSTRUCT THE COPINGS, SPANDRELS, BRIDGE RAILS, AND WINGWALL CAPS. TRIM THE VEGETATION AT THE NORTH APPROACHES.

76. Improvement Length: 000063 feet
94. Bridge Imp. Costs: \$ 120 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 121 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000550
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	10	years
C. Joints:	NA	years
D. Superstructure:	10	years
E. Substructure:	10	years
F. Approach:	10	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THERE IS EXTREMELY HEAVY SPALLING AT THE COPINGS OF THE ARCH RING, RAILS, SPANDREL WALLS, AND WINGWALL CAPS. THERE IS HEAVY EFFLORESCENCE BELOW AT THE CONSTRUCTION JOINTS OF THE ARCH RING AND AT THE NORTHEAST PORTION OF THE ARCH RING OUTSIDE THE CONSTRUCTION JOINT. FOUR END MARKERS ARE IN PLACE; THE TWO ON THE NORTH SIDE ARE OBSCURED BY VEGETATION. THERE IS SILT AND SAND DEPOSITED AT THE WEST BASE OF THE ARCH; THE EAST BASE OF THE ARCH IS AT THE STREAMBED. THERE IS SIGNIFICANT BANK EROSION DOWNSTREAM OF THE STRUCTURE.

Bridge No. 123



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00123

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00123
8A. NBI Number:	1800103	8C. Old Bridge Number:	
5A. Inventory Route On:	141000050	5B. Rd. Number On:	0005
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RIVER ROAD		
9A. Location:	425S 900W	9B Map Location:	A-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.7 Min.	17. Longitude:	085 Deg. 33.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	005
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000909	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0073.0 Feet	49. Structure Length:	0371.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	027.4 Feet	52. Deck Width (o-o):	030.8 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	35 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00123

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-OVERLAY CRK'D, LOOSENING	7
59. Super:	PRESTRESSED I-BEAMS	FAIR-CENTER BM BROKEN AT END	6
60. Sub:	PILE ENDS, SPREAD INTERIOR	FAIR-MINOR SPALLING	6
61. Channel:	CONCRETE SLOPEWALL	FAIR-HEAVY DEBRIS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-APPR PAD CRACKED, WEDGED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SPALLING; JTS LOOSE; OVERLAY POPOUTS AT JTS	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT, HILL NORTH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	R COMBINATION OF A AND D	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00123

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

REPLACE THE APPROACH RAIL AT ALL CORNERS. PATCH THE PIERS. REPAIR THE JOINTS; PLACE JOINTS AT THE CURBS. CLEAR THE CHANNEL OF DEBRIS. PLACE RIPRAP AT THE PIERS. CUT THE TREE GROWING AT THE NORTH PIER. REPLACE THE BROKEN PIPE EXTENSION WITH PVC PIPE. CLEAN THE DECK DRAINS.

76. Improvement Length: 000371 feet

94. Bridge Imp. Costs: \$ 30 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 40 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 001550

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A

93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	06	years
B. Deck:	18	years
C. Joints:	00	years
D. Superstructure:	23	years
E. Substructure:	23	years
F. Approach:	10	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THERE IS MINOR SPALLING AT THE BOTTOM OF THE NORTH PIER CAP. THE JOINT MATERIAL IS LOOSE; THE JOINTS AT THE CURB ARE OPEN. TWO OF FOUR END MARKERS ARE MISSING. THE EXPOSED CURB ENDS POSE CRASH HAZARDS. THE APPROACH RAIL IS LOW AND POSTS ARE SPACED AT 12'-6". THE CENTER BEAM AT THE NORTH ENDBENT HAS A CORNER BROKEN OFF. THE CAST IRON DRAIN PIPE EXTENSION AT THE NORTHEAST CORNER IS BROKEN AND HANGING BY ONE BOLT. THE DECK DRAINS ARE PARTIALLY BLOCKED. THE TWO CENTER PIER STEMS HAVE SOME SPALLING. THE SOUTH CONCRETE APPROACH PAD HAS NARROW TO WIDE RANDOM CRACKS.

Bridge No. 124



Looking North



Looking Southwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00124

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00124
8A. NBI Number:	1800104	8C. Old Bridge Number:	
5A. Inventory Route On:	151000350	5B. Rd. Number On:	0035
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	86084 YORKTOWN
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 400 W		
9A. Location:	60S 400W	9B Map Location:	D-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.2 Min.	17. Longitude:	085 Deg. 27.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1971	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	009266	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	04 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0066.0 Feet	49. Structure Length:	0268.0 Feet
50. Sidewalk/Curb Left:	04.0 Right: 04.0		
51. Bridge Roadway Width:	054.0 Feet	52. Deck Width (o-o):	068.5 Feet
32. Approach Roadway Width:	057 Feet	33. Bridge Median:	2 CLOSED/NO BARRIER
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00124

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-250 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-OVERLAID; CRACKS,EFFLOR	7
59. Super:	PRESTRESSED I-BEAM	GOOD-SEEPAGE, LIGHT SPALLS	7
60. Sub:	CONCRETE HAMMERHEAD PIERS	GOOD-SPALLING NE	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED & UNDERMINED	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD - ASPHALT & CONCRETE	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	LIGHT SPALLS & MINOR EFFLORESCENCE	7
68. Geometry:	NARROW FOR FOUR LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE; HEAVY DEBRIS AT INTERIOR PIERS	7
72. Roadway Alignment:	LOW TO SOUTH; INTERSECTION TO NORTH	7
36A. Traffic Safety Features:	1010 BR & APP RAILING	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00124

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:

CLEAR THE CHANNEL OF DEBRIS. PLACE RIPRAP AROUND THE PIERS. REPLACE THE DAMAGED RAIL RADIUS AT NORTHWEST CORNER AT THE INTERSECTION. REPLACE THE MISSING ATTENUATOR LIDS. ADD TRANSITIONS FROM ALUMINUM TO CONCRETE RAIL. ADD END MARKERS AT THE SOUTHEAST AND NORTHWEST CORNERS. MILL THE ASPHALT HUMPS AT THE ENDS OF THE CONCRETE PADS. CLEAN DRAINS AND MAKE THEM SAFE FOR BIKES. REPAIR THE GROUTED BEAM ENDS OVER THE PIERS. PLACE PROPER PAVEMENT MARKINGS.

76. Improvement Length: 000268 feet
94. Bridge Imp. Costs: \$ 7 X 1000
95. Rdwy. Imp. Costs: \$ 4 X 1000
96. Total Project Costs: \$ 11 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 012200
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	15	years
C. Joints:	13	years
D. Superstructure:	28	years
E. Substructure:	28	years
F. Approach:	08	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THERE IS A PIPE HUNG UNDER THE EAST COPING. THE PLAQUE READS BRIDGE NUMBER 134. THE END JOINTS ARE CAULKED. THERE IS RAIL DAMAGE AT THE NORTHWEST CORNER AT THE STREET INTERSECTION. THE DECK HAS MODERATE CRACKS AND EFFLORESCENCE IN SOME AREAS BELOW. SEVERAL OF THE DIAPHRAGMS ARE SPALLED. THE GROUT AT THE ENDS OF THE OUTSIDE BEAMS OVER THE PIERS IS CRACKED AND DETERIORATED, ESPECIALLY ON THE WEST SIDE - STEEL STRANDS ARE EXPOSED. THE NORTH FACE OF THE SOUTHBOUND CENTER PIER IS DELAMINATED AND SPALLED IN TWO AREAS. THE ASPHALT IS HUMPED AT THE END OF EACH OF THE CONCRETE APPROACH SLABS, CAUSING A ROUGH RIDE. SEVERAL DECK DRAINS ARE PLUGGED; THE GRATES ARE NOT BICYCLE-SAFE. THE PAVEMENT MARKINGS ARE NOT CONSISTENT WITH THE OVERHEAD SIGNS: NO THROUGH ARROW IS PROVIDED - ONLY RIGHT AND LEFT TURN ONLY ARROWS.

Bridge No. 125



Looking North



Looking Northwesterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00125

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00125
8A. NBI Number:	1800105	8C. Old Bridge Number:	
5A. Inventory Route On:	151000350	5B. Rd. Number On:	0035
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 400 W		
9A. Location:	15N 400W	9B Map Location:	D-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.6 Min.	17. Longitude:	085 Deg. 11.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:	SB	45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1954	106A. Reconstructed:	1975
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	3 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	007000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0064.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	033.6 Feet	52. Deck Width (o-o):	034.4 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	35 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	33.6 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00125

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-250 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	POOR-FAILED AT NW CORNER	4
59. Super:	CONT CONC SLAB; STEEL BMS	FAIR-MOD RUST, MINOR SPALLS	6
60. Sub:	CONCRETE	POOR-WIDENED ABUTS FAILED	4
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED, UNDERCUT, DEFLEC	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-EROSION AT SHOULDERS	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 231
66A. Inventory Rating: 225 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	EXTENDED ABUTS SETTLING AT CORNERS, SPALL	4
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, HILL TO NORTH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	H MISC. STEEL RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00125

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

REPLACE THE WIDENED PORTIONS OF THE SUPERSTRUCTURE AND SUBSTRUCTURE. PATCH SPALLS AT THE SOUTH PIER AND DECK SLAB. WIDEN THE APPROACH NORTHWEST AND SOUTHEAST SHOULDERS. PLACE END MARKERS AT THE ENDS OF THE APPROACH RAILS.

76. Improvement Length: 000064 feet

94. Bridge Imp. Costs: \$ 70 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 80 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 009200

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	00	years
C. Joints:	NA	years
D. Superstructure:	01	years
E. Substructure:	00	years
F. Approach:	15	years
G. Channel:	18	years
H. Culvert:	NA	years

Remarks:

THE WIDENED PORTIONS OF THE SUBSTRUCTURE HAVE FAILED AT THE BRIDGE ENDS. THEY HAVE SETTLED UNDER THE STEEL BEAMS AT EACH OF THE BRIDGE CORNERS - THE BEAMS ARE 2" ABOVE THE SEAT WIDENINGS. THERE IS A LARGE CRACK IN THE DECK AT THE NORTHWEST CORNER - THE DECK IS DISPLACED 1". THE TRAVEL LANES OF THE BRIDGE ARE NOT EFFECTED BUT THE DECK SHOULDERS ARE NOT FULLY SUPPORTED. DUE TO EROSION, THE ENDS OF THE DECK ARE EXPOSED AT THE NORTHWEST AND SOUTHEAST CORNERS. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6".

Bridge No. 126



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00126

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00126
8A. NBI Number:	1800106	8C. Old Bridge Number:	
5A. Inventory Route On:	151008410	5B. Rd. Number On:	0841
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 500 W		
9A. Location:	35N 500W	9B Map Location:	C-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.0 Min.	17. Longitude:	085 Deg. 28.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:	PCBB	45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1969	106A. Reconstructed:	2001
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	003273	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.8		
51. Bridge Roadway Width:	026.8 Feet	52. Deck Width (o-o):	028.0 Feet
32. Approach Roadway Width:	027 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00126

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-310 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-EFFLOR AT CONSTR JTS	7
60. Sub:	HAMMERHEADS, PILE ENDBENTS	FAIR-PILES EXPOSED-ENDBENTS	6
61. Channel:	EARTH/VEGETATION	FAIR-EROSION EXPOSING PILES	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	EFFLOR AT CONSTR JTS, END BENTS UNDERMINED	6
68. Geometry:	NARROW FOR A.D.T.	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	HILLS BOTH WAYS, INTERSECTION NORTH	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	I COMBINATIONS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00126

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
UNDERPIN THE ENDBENTS AND PROTECT WITH RIPRAP. INSTALL A GUARDRAIL END TREATMENT AT THE NORTHWEST CORNER. INSTALL A NEW BRIDGE RAIL ON THE WEST SIDE. ADD TWO END MARKERS AT THE NORTH END OF THE APPROACH RAIL.

76. Improvement Length: 000062 feet
94. Bridge Imp. Costs: \$ 20 X 1000
95. Rdwy. Imp. Costs: \$ 20 X 1000
96. Total Project Costs: \$ 40 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 004250
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	15	years
C. Joints:	NA	years
D. Superstructure:	15	years
E. Substructure:	28	years
F. Approach:	10	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THE ALUMINUM BRIDGE RAIL ON THE WEST SIDE IS INADEQUATE. THERE IS A PEDESTRIAN BRIDGE LOCATED TEN FEET WEST OF THIS BRIDGE. SIX OF EIGHT END MARKERS ARE IN PLACE. THERE IS A CONDUIT ON THE WEST COPING. THE ENDBENTS AND PIER WIDENINGS ARE ON PILES. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6". THERE IS APPARENT FILL LOSS AT THE SOUTH APPROACH; THE SETTLED PAVEMENT HAS BEEN PATCHED.

Bridge No. 127



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00127

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00127
8A. NBI Number:	1800107	8C. Old Bridge Number:	
5A. Inventory Route On:	141000250	5B. Rd. Number On:	0025
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 600 W		
9A. Location:	25N 600W	9B Map Location:	C-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.9 Min.	17. Longitude:	085 Deg. 30.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	122 PRECAST CONCRETE BEAM - (CHANNEL BEAM)		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1958	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001653	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0020.0 Feet	49. Structure Length:	0060.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	026.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00127

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-6918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	POOR-PITTED/POTHOLED	3
59. Super:	CONCRETE CHANNEL BEAMS	POOR-HEAVY EFFLOR; EXP REBAR	3
60. Sub:	CONC CAPS W/ S.E.C. PILES	FAIR-EFFLORESCENCE AT BENTS	5
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED; UNDERCUT	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-HOLES AND CRACKS	4

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 225
66A. Inventory Rating: 210 64B. Year of Rating: 1992
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 10 / 96

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CHANNEL BEAMS SPALLED W/ EXP REBAR, PILE RUST	2
68. Geometry:	TWO LANES - NARROW FOR COLLECTOR ROUTE	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	HILL NORTH, INTERSECTION SOUTH	6
36A. Traffic Safety Features:	1101 GOOD RAILING -NO APPROACH RAIL	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00127

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE STRUCTURE BY CONTRACT.

76. Improvement Length: 000060 feet
94. Bridge Imp. Costs: \$ 140 X 1000
95. Rdwy. Imp. Costs: \$ 25 X 1000
96. Total Project Costs: \$ 165 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 002740
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: Y12
93. Crit. Feat. Insp. Date: A: B: C: 0405

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	02	years
C. Joints:	NA	years
D. Superstructure:	02	years
E. Substructure:	10	years
F. Approach:	01	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

**EFFLORESCENCE WAS FOUND UNDER THE DECK FOR THE FULL LENGTH OF THE STRUCTURE.
THE CRITICAL FEATURE INSPECTION IS FOR THE PRECAST CONCRETE CHANNEL BEAMS.
THREE OF FOUR END MARKERS ARE IN PLACE.**

Bridge No. 128



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00128

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00128
8A. NBI Number:	1800108	8C. Old Bridge Number:	
5A. Inventory Route On:	151001360	5B. Rd. Number On:	0136
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 100 S		
9A. Location:	100S 715W	9B Map Location:	B-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.7 Min.	17. Longitude:	085 Deg. 31.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000900	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0068.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.6 Feet
51. Bridge Roadway Width:	026.3 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	022 Feet	35. Structure Flared:	0 NO
34. Skew:	45 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
47A. Total Hor. Clr. - Over:	26.3 Feet	54A. Type:	N/A
47C. Total Hor. Clr. - Under:	Feet	55A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)		
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00128

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-210 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-WS CRACKED W/ POTHOLES	6
59. Super:	TIMBER SLAB	GOOD-MINOR TRANSVERSE SAG	7
60. Sub:	TIMBER PILES	GOOD	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - CRACKED, SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 242
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR TRANSVERSE SAG	7
68. Geometry:	TWO LANES-SLIGHTLY NARROW,DROPOFFS AT CORNERS	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	INTERSECTION TO WEST, STRAIGHT	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00128

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REMOVE AND REPLACE ASPHALT WEARING SURFACE. ADD APPROACH RAIL POSTS AND ADJUST THE RAIL HEIGHT.

76. Improvement Length: 000068 feet
94. Bridge Imp. Costs: \$ 8 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 10 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001240
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	08	years
C. Joints:	NA	years
D. Superstructure:	08	years
E. Substructure:	08	years
F. Approach:	05	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THERE IS HEAVY REFLECTIVE CRACKING IN THE WEARING SURFACE. THERE IS MINOR SAG IN THE MIDDLE SPAN. THE TIMBER BRIDGE RAIL POSTS ARE NOT STANDARD. THE APPROACH RAIL IS HIGH (36") AND THE POSTS ARE SPACED AT 12'-6". THE TRAFFIC TENDS TRAVEL AT HIGH SPEED ON THIS ROAD.

Bridge No. 129



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00129

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00129
8A. NBI Number:	1800109	8C. Old Bridge Number:	
5A. Inventory Route On:	141000440	5B. Rd. Number On:	0044
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	DIVISION ROAD		
9A. Location:	00N 635W	9B Map Location:	C-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.6 Min.	17. Longitude:	085 Deg. 30.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1989	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000267	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.4 Feet	49. Structure Length:	0080.0 Feet
50. Sidewalk/Curb Left:	00.5 Right: 00.5	52. Deck Width (o-o):	025.8 Feet
51. Bridge Roadway Width:	024.5 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	017 Feet	35. Structure Flared:	0 NO
34. Skew:	35 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.5 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00129

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-LONG & TRANS CRACKS	6
59. Super:	TIMBER SLAB	GOOD-MINOR SEEPAGE	7
60. Sub:	TIMBER	GOOD	7
61. Channel:	RIPRAP/NATURAL	FAIR-DEBRIS AT PIERS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	WEARING SURFACE CRACKS, SEEPAGE	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	INTERSECTION TO WEST	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00129

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

WEDGE THE APPROACHES. TIGHTEN OR REPLACE THE NUTS ON THE SPREADER BEAM UNDER THE WEST SPAN. ADD TWO END MARKERS. SEAL CRACKS IN THE ASPHALT WEARING SURFACE. REPLACE NUTS IN THE SOUTHWEST RAIL. CLEAR DEBRIS IN THE CHANNEL.

76. Improvement Length: 000080 feet

94. Bridge Imp. Costs: \$ 1 X 1000

95. Rdwy. Imp. Costs: \$ 3 X 1000

96. Total Project Costs: \$ 4 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000450

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	14	years
C. Joints:	NA	years
D. Superstructure:	14	years
E. Substructure:	14	years
F. Approach:	05	years
G. Channel:	25	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE IN PLACE. THE TIMBER RAIL IS NON-STANDARD. THE WEARING SURFACE IS BREAKING LOOSE AT THE ENDS. SOME NUTS IN THE WEST SPREADER BEAM ARE LOOSE. ONE POST IS MISSING NUTS AT THE SOUTHWEST RAIL ATTACHMENT. THE PILE AT THE NORTH END OF THE EAST ABUTMENT SOUNDS HOLLOW DUE TO ROT OR HEAVY CHECKING. DEBRIS HAS ACCUMULATED AT THE CENTER SPAN AND PIERS. THE STEAM FLOW PATTERN IS ERRATIC.

Bridge No. 130



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00130

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00130
8A. NBI Number:	1800110	8C. Old Bridge Number:	
5A. Inventory Route On:	141000340	5B. Rd. Number On:	0034
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 300 S		
9A. Location:	300S 870W	9B Map Location:	B-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.0 Min.	17. Longitude:	085 Deg. 33.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	310B STEEL THRU TRUSS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	7 Timber	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1902	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	2000
59B. Paint Rating:	2 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000353	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0200.0 Feet	49. Structure Length:	0202.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	015.6 Feet	52. Deck Width (o-o):	015.6 Feet
32. Approach Roadway Width:	019 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	16 ' 00 "	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	15.6 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	10 ' 00 "	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00130

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 3 ONE LANE BR 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 3 POSSIBLY ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER	FAIR	6
59. Super:	STEEL THRU TRUSS	FAIR-SOME RUST W/SECT LOSS	4
60. Sub:	STONE MASONRY	FAIR-REPOINTED	5
61. Channel:	EARTH/VEGETATION	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-CRACKED & RUTTED	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 204
66A. Inventory Rating: 203 64B. Year of Rating:
66B. Gross Tons or H Rating: 03
70. Bridge Posting: 2 3 TON LIMIT. POSTED "ONE LANE BRIDGE"
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 03 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BEARINGS ENCASED, SOME RUST, LOAD RATING	2
68. Geometry:	ONE LANE	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	5
72. Roadway Alignment:	INTER W ON TOP OF HILL;APPR UNEVEN AND LOW	4
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	H MISC. STEEL RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00130

PROPOSED IMPROVEMENTS:

73. Year Needed: 2008
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT. HISTORICAL CONSIDERATIONS MAY REQUIRE THAT THE EXISTING BRIDGE BE BYPASSED. MEANWHILE, SUPPORT THE 24" PIPE AT THE NORTHWEST CORNER.

76. Improvement Length: 000235 feet
94. Bridge Imp. Costs: \$ 465 X 1000
95. Rdwy. Imp. Costs: \$ 205 X 1000
96. Total Project Costs: \$ 670 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000630
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y06 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0405 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	12	years
C. Joints:	NA	years
D. Superstructure:	05	years
E. Substructure:	05	years
F. Approach:	04	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

ONE VERTICAL MEMBER HAS SOME COLLISION DAMAGE. SOME SECTION LOSS WAS FOUND IN MEMBERS AND CONNECTIONS; SEE THE IN-DEPTH INSPECTION REPORT FOR FURTHER DETAILS. END MARKERS ARE IN PLACE. A 24" DRAIN PIPE IS CANTILEVERED AT THE NORTHWEST CORNER.

Bridge No. 131



Looking Northerly



Looking Northeasterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00131

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00131
8A. NBI Number:	1800516	8C. Old Bridge Number:	
5A. Inventory Route On:	141001170	5B. Rd. Number On:	0117
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 750 W		
9A. Location:	190S 750W	9B Map Location:	B-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.0 Min.	17. Longitude:	085 Deg. 31.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	2001	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000143	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	06 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0095.5 Feet	49. Structure Length:	0370.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	00.0 Feet	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00131

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	PRESTRESSED I-BEAMS	GOOD	8
60. Sub:	CONCRETE PIERS ON PILES	GOOD	8
61. Channel:	RIPRAP	GOOD-CHANNEL CURVES TO NORTH	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH,CONC-S CRKD, N SETTLED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD - NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	CURVES BOTH ENDS	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00131

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REMOVE DEBRIS AT THE SOUTH PIER.

76. Improvement Length: 000370 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000355
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

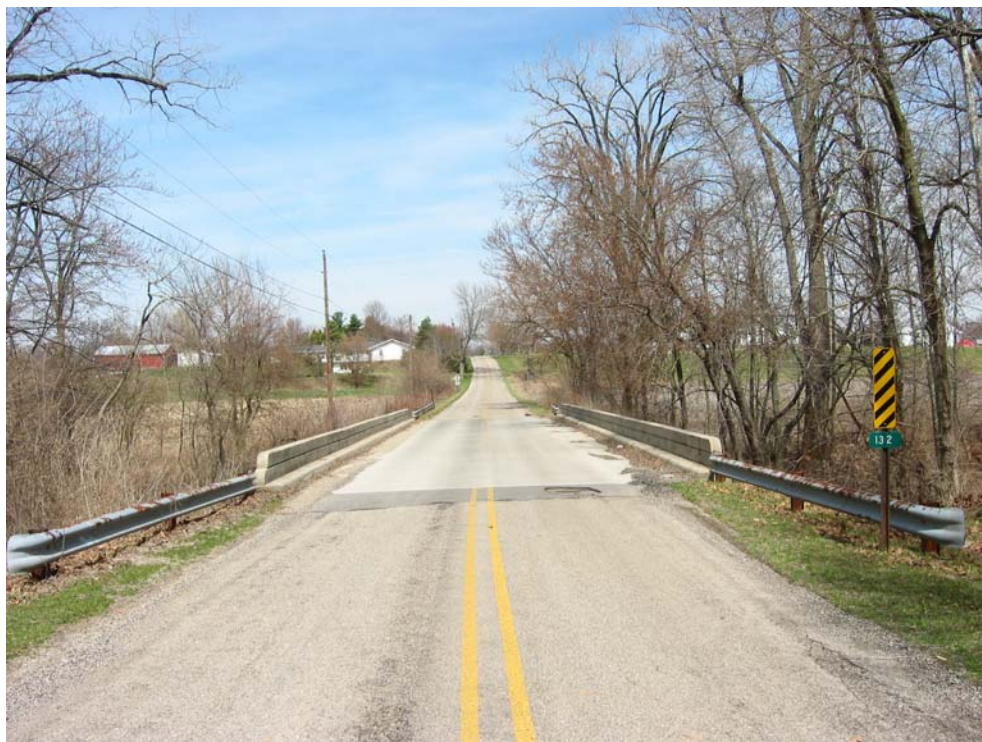
63. Estimated Remaining Life:

A. Wearing Surface:	30	years
B. Deck:	53	years
C. Joints:	NA	years
D. Superstructure:	53	years
E. Substructure:	53	years
F. Approach:	28	years
G. Channel:	45	years
H. Culvert:	NA	years

Remarks:

THERE IS MINOR SPALLING AROUND THE DRAIN SCUPPERS. THE STREAM FLOWS AGAINST THE SOUTH BANK; LARGE RIPRAP IS IN PLACE. THE COPINGS HAVE HAIRLINE CRACKS OVER THE PIERS. THE ENDS OF SOME PIER CAPS ARE CRACKED VERTICALLY. THERE IS A HEAVY ACCUMULATION OF DEBRIS AT THE SOUTH PIER IN THE CHANNEL. THE NORTH CONCRETE APPROACH PAD IS SETTLED.

Bridge No. 132



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00132

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00132
8A. NBI Number:	1800112	8C. Old Bridge Number:	
5A. Inventory Route On:	151000290	5B. Rd. Number On:	0029
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	RD 428 W		
9A. Location:	240S 428W	9B Map Location:	D-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.4 Min.	17. Longitude:	085 Deg. 28.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000750	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0045.0 Feet	49. Structure Length:	0120.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.4 Feet	52. Deck Width (o-o):	028.0 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00132

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-JOINTS NOT SEALED	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD	8
60. Sub:	CONCRETE	GOOD-SEEPAGE	7
61. Channel:	RIPRAP	FAIR	6
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT-FAIR-WEDGED,POTHOLES	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OPEN JOINTS, SEEPAGE	7
68. Geometry:	SLIGHTLY NARROW	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	CURVE SOUTH, HILL NORTH, DRIVES AT S APPROACH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00132

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAILS WITH END TREATMENTS AT ALL CORNERS. INSTALL JOINTS. ADD TWO END MARKERS.

76. Improvement Length: 000120 feet
94. Bridge Imp. Costs: \$ 10 X 1000
95. Rdwy. Imp. Costs: \$ 11 X 1000
96. Total Project Costs: \$ 21 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001100
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	30	years
C. Joints:	00	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	15	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THE APPROACH RAIL IS TOO LOW. THE JOINTS ARE LEAKING. THERE IS MINOR DAMAGE TO THE SUBSTRUCTURE UNDER THE CURB AT THE NORTHEAST CORNER.

Bridge No. 133



Looking Southwest



Looking Westerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00133

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00133
8A. NBI Number:	1800113	8C. Old Bridge Number:	
5A. Inventory Route On:	141001100	5B. Rd. Number On:	0110
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BELL CREEK		
7. Facility Carried:	RD 325 S		
9A. Location:	330S 350W	9B Map Location:	D-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.6 Min.	17. Longitude:	085 Deg. 27.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1968	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	1990
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0044.0 Feet	49. Structure Length:	0112.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	025.3 Feet	52. Deck Width (o-o):	028.9 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00133**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **09 LOCAL - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-OVERLAID, MINOR PUDDLES	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-SEEPAGE AT DRAINS	7
60. Sub:	CONCRETE	FAIR-END BENTS ERODED	6
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR-WEDGED, CRACKED	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	ERODED NE EXPOSING PILE, MINOR SPALLS BELOW	6
68. Geometry:	TWO LANES-GOOD WIDTH	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE OPENING AND SKEW	7
72. Roadway Alignment:	CURVES NORTH AND SOUTH	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00133

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR EROSION, ADD RIPRAP AT THE SLOPES. INSTALL APPROACH RAIL AND CURB TRANSITIONS AT ALL CORNERS. REMOVE DEBRIS AT THE PIERS. CLEAN THE DECK DRAINS.

76. Improvement Length: 000112 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 5 X 1000
96. Total Project Costs: \$ 9 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000220
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	25	years
C. Joints:	NA	years
D. Superstructure:	25	years
E. Substructure:	25	years
F. Approach:	08	years
G. Channel:	03	years
H. Culvert:	NA	years

Remarks:

THREE OF FOUR END MARKERS ARE IN PLACE. PLAQUE READS BRIDGE NUMBER 21. DEBRIS IS ACCUMULATED AT THE PIERS. THE SLAB IS CRACKED AND SPALLED BELOW AT THE DRAIN OUTLETS. THERE IS ONE HAIRLINE CRACK IN THE SOUTH COPING, CURB, AND DECK JUST EAST OF THE WEST INTERIOR BENT. THERE IS A NARROW LONGITUDINAL CRACK IN THE WEARING SURFACE. THERE IS SOME EROSION UNDER THE WEST ENDBENT. THE LENGTH OF THE EAST ENDBENT HAS FILL LOSS. THE APPROACHES ARE SETTLED. THERE ARE NO APPROACH RAILS OR CURB TRANSITIONS. THE DECK HAS BEEN OVERLAID IN THE PAST.

Bridge No. 134



Looking South



Looking Northwesterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00134

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00134
8A. NBI Number:	1800111	8C. Old Bridge Number:	0131
5A. Inventory Route On:	141001170	5B. Rd. Number On:	0117
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	ABANDONED RD 750 W		
9A. Location:	190S 750W	9B Map Location:	B-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.0 Min.	17. Longitude:	085 Deg. 31.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	310B STEEL THRU TRUSS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	702A TIMBER BEAM		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0002
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1892	106A. Reconstructed:	1974
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	2 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000143	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	00 Percent		
19. Bypass Detour Length:	99A DEAD END ROAD		

GEOMETRIC DATA:

48. Maximum Span Length:	0200.0 Feet	49. Structure Length:	0259.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	015.3 Feet	52. Deck Width (o-o):	016.0 Feet
32. Approach Roadway Width:	017 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	16 ' 00 "	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	15.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	16 ' 00 "	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00134

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 3 ONE LANE BR 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 4 NOT DETERMINABLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER WITH ASPHALT W.S.	POOR-CLOSED	0
59. Super:	STEEL THRU TRUSS	POOR-LEANING,HVY RUST	2
60. Sub:	STEEL CAISSONS & CONCRETE	POOR-SEVERE RUST	2
61. Channel:	EARTH/VEGETATION	FAIR-CHANNEL CURVES TO EAST	6
62. Culv/Ret:	N/A	N/A	N/A
65. Approach Roadway:		FAIR-CLOSED	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 200
66A. Inventory Rating: 200 64B. Year of Rating: 2001
66B. Gross Tons or H Rating: 00
70. Bridge Posting: 0 CLOSED - REFLECTIVE MATERIAL NEEDED ON RAIL
41. Open, Posted, or Closed: K CLOSED
66C. Tons Posted: 00 66D. Date Posted/Closed: 01 / 01

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CLOSED - POOR CONDITION	0
68. Geometry:	ONE LANE	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	CLOSED	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00134

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
PLACE REFLECTIVE MATERIAL ON BARRICADES.

76. Improvement Length: 000259 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000345
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y24 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0405 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	00	years
C. Joints:	NA	years
D. Superstructure:	00	years
E. Substructure:	00	years
F. Approach:	00	years
G. Channel:	30	years
H. Culvert:	NA	years

Remarks:

THE TRUSS BRIDGE IS THE OLD DELAWARE 131. A NEW STRUCTURE WAS BUILT IN 2001 TO THE NORTH OF THIS BRIDGE; THE NEW BRIDGE TOOK THE NUMBER 131.

Bridge No. 135



Looking East



Looking Southeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00135

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00135
8A. NBI Number:	1800115	8C. Old Bridge Number:	
5A. Inventory Route On:	141000240	5B. Rd. Number On:	0024
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BELL CREEK		
7. Facility Carried:	RD 400 S		
9A. Location:	400S 415W	9B Map Location:	D-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.1 Min.	17. Longitude:	085 Deg. 27.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000750	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0027.0 Feet	49. Structure Length:	0071.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	027.8 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00135

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-LIGHT POPOUTS & CRACKS	6
59. Super:	REINFORCED CONCRETE SLAB	GOOD-HAIRLINE CRACKS: E SLAB	7
60. Sub:	CONCRETE	POOR-PILES EXPOSED & RUSTING	4
61. Channel:	RIPRAP/EARTH	POOR-UNDERCUT END BENTS	4
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT - FAIR, WEDGED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 243
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BOTH END BENTS UNDERCUT EXPOSING RUSTED PILES	4
68. Geometry:	SLIGHTLY NARROW	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	5
72. Roadway Alignment:	WASHOUT AT ENDBENT; HILL BOTH WAYS	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00135

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

UNDERPIN THE ENDBENTS AND RIPRAP THE SLOPES. INSTALL APPROACH RAIL AT THE CORNERS. CLEAN AND SEAL THE DECK. PATCH THE SPALLED PILE ENCASEMENT AT THE WATERLINE. CONSIDER ADDING DECK TEXTURE.

76. Improvement Length: 000071 feet

94. Bridge Imp. Costs: \$ 17 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 27 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 001100

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 10 years

B. Deck: 25 years

C. Joints: NA years

D. Superstructure: 25 years

E. Substructure: 15 years

F. Approach: 04 years

G. Channel: 00 years

H. Culvert: NA years

Remarks:

NO END MARKERS. THE EAST ENDBENT HAS MINOR CRACKING. THE PILES ARE RUSTED. THERE IS A LIGHT BROOM FINISH ON THE DECK. THERE ARE SOME CRACKS IN THE PILE ENCASEMENT. THE EAST APPROACH IS BACKFILLED WITH CONCRETE BEHIND THE CAP. THERE IS STREAM EROSION AT THE NORTHEAST CORNER. THERE IS A STEEP DROP-OFF BEYOND THE NORTHEAST SHOULDER WITH NO APPROACH RAIL IN PLACE.

Bridge No. 137



Looking South



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00137

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00137
8A. NBI Number:	1800117	8C. Old Bridge Number:	
5A. Inventory Route On:	141001170	5B. Rd. Number On:	0117
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	WHITE RIVER OVERFLOW		
7. Facility Carried:	RD 750 W		
9A. Location:	200S 750W	9B Map Location:	B-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.8 Min.	17. Longitude:	085 Deg. 31.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1966	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000143	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0010.0 Feet	49. Structure Length:	0022.6 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00137

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	NA		N/A
59. Super:	NA		N/A
60. Sub:	NA		N/A
61. Channel:	EARTH/VEGETATION	FAIR-LOW OPEN AREA TO EAST	6
62. Culv/Ret:	STEEL ARCH	GOOD-SLIGHT DEFL IN PIPES	7
65. Approach Roadway:		ASPH W/ RETAINING WALL-FAIR	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT; POSTED "HIGH WATER"
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SLIGHT DEFLECTIONS, HEAVY DEBRIS, LOAD RATING	2
68. Geometry:	TWO LANES - NARROW WIDTH	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	NOT ADEQUATE	4
72. Roadway Alignment:	HILL AND INTERSECTION TO THE SOUTH	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	N N/A	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00137

PROPOSED IMPROVEMENTS:

73. Year Needed: 2007
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT. MEANWHILE, UPGRADE THE GUARDRAIL. ADD APPROACH RAIL AT THE NORTHWEST NEXT TO RETAINING WALL.

76. Improvement Length: 000040 feet
94. Bridge Imp. Costs: \$ 115 X 1000
95. Rdwy. Imp. Costs: \$ 20 X 1000
96. Total Project Costs: \$ 135 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000240
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	15	years
G. Channel:	08	years
H. Culvert:	15	years

Remarks:

THERE IS INSUFFICIENT COVER FOR H-20 LOADING. TWO OF FOUR END MARKERS ARE MISSING. THE APPROACH ROAD IS LOW WITH A HISTORY OF FLOODING. THERE IS A THREE FOOT WIDE SHOULDER THEN A DROP-OFF AT A RETAINING WALL ON THE WEST SIDE.

Bridge No. 138



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00138

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00138
8A. NBI Number:	1800118	8C. Old Bridge Number:	
5A. Inventory Route On:	141001170	5B. Rd. Number On:	0117
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 750 W		
9A. Location:	120S 750W	9B Map Location:	B-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.5 Min.	17. Longitude:	085 Deg. 31.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1963	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000143	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0028.0 Feet	49. Structure Length:	0072.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	026.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	35 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00138

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-POTHLES,HVY SPALL-W.S.	5
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-HAIRLINE CRACKS	7
60. Sub:	CONCRETE	GOOD-MINOR CRACK-N BENT	7
61. Channel:	RIPRAP/NATURAL	FAIR-SOUTH BENT UNDERMINED	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH-SETTLED,CRACKS,POTHLES	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACK IN N ABUTMENT, HAIRLINE CRACKS	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	CURVE SOUTH, LEVEL	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00138

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAIL WITH END TREATMENTS AND END MARKERS AT ALL FOUR CORNERS. UNDERPIN THE SOUTH END BENT AND PROTECT WITH RIPRAP. REPAIR THE DECK. ADD CURB TRANSITIONS.

76. Improvement Length: 000072 feet
94. Bridge Imp. Costs: \$ 9 X 1000
95. Rdwy. Imp. Costs: \$ 9 X 1000
96. Total Project Costs: \$ 18 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000240
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	22	years
C. Joints:	NA	years
D. Superstructure:	22	years
E. Substructure:	22	years
F. Approach:	02	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THE WEARING SURFACE DOES NOT EXTEND TO THE EDGES. THERE ARE HAIRLINE CRACKS THROUGH THE SLAB AND CURB OVER THE PIERS. THERE IS MINOR SPALLING AROUND THE DRAIN OUTLETS AND AT THE COPING. THE NORTHWEST SHOULDER IS ERODED. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS. THERE IS A HAIRLINE CRACK IN THE SLAB BELOW ALONG THE CENTERLINE OF THE CENTER SPAN. A 3' X 5' AREA OF THE TOP OF THE DECK IS SPALLED NEAR THE SOUTH END. THE SOUTH ENDBENT IS UNDERMINED.

Bridge No. 139



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00139

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00139
8A. NBI Number:	1800119	8C. Old Bridge Number:	
5A. Inventory Route On:	141001340	5B. Rd. Number On:	0134
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 175 S		
9A. Location:	185S 820W	9B Map Location:	B-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.1 Min.	17. Longitude:	085 Deg. 32.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1987	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0031.0 Feet	49. Structure Length:	0080.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	23 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00139

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD-CATTLE GATE; MIN DEBRIS	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONCRETE-LONGITUDINAL CRACKS	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating: 1987
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO DEFICIENCIES	8
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE; FENCE IN CHANNEL	7
72. Roadway Alignment:	DRIVEWAYS EAST, STRAIGHT, HILL TO EAST	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00139

PROPOSED IMPROVEMENTS:

73. Year Needed:
75. Type of Work:
Describe Item 75:

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 0 X 1000
97. Year of Cost Estimate:
114. Future ADT: 000440
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	43	years
C. Joints:	15	years
D. Superstructure:	43	years
E. Substructure:	43	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

ONE OF FOUR END MARKERS IS IN PLACE. THE APPROACH PADS ARE CRACKED ALONG THE CENTERLINE CONSTRUCTION JOINT. THE EAST APPROACH PAD HAS A 9" DIAMETER AREA OF SPALLING.

Bridge No. 140



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00140

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00140
8A. NBI Number:	1800120	8C. Old Bridge Number:	
5A. Inventory Route On:	141001380	5B. Rd. Number On:	0138
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 50 S		
9A. Location:	50S 675W	9B Map Location:	C-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.1 Min.	17. Longitude:	085 Deg. 30.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1996	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000750	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0025.5 Feet	49. Structure Length:	0077.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.5 Feet
51. Bridge Roadway Width:	024.1 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	019 Feet	35. Structure Flared:	0 NO
34. Skew:	30 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.1 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00140

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-SOME CRACKING	7
59. Super:	TIMBER SLAB	GOOD-SEEPAGE	7
60. Sub:	TIMBER PILE BENTS	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SLIGHTLY SETTLED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1996
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT, POSTED "NARROW BRIDGE"
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	7
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, HILLS EAST AND WEST, DRIVE NW.	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00140

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REMOVE THE NARROW BRIDGE SIGN. ADD FOUR END MARKERS.

76. Improvement Length: 000077 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001240
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/1/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	21	years
C. Joints:	NA	years
D. Superstructure:	21	years
E. Substructure:	21	years
F. Approach:	15	years
G. Channel:	25	years
H. Culvert:	NA	years

Remarks:

ONE END MARKER IS IN PLACE BUT IS UNDERSIZED. THE TIMBER RAIL IS HIGH (36") AND NOT STANDARD.

Bridge No. 141



Looking North



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00141

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00141
8A. NBI Number:	1800121	8C. Old Bridge Number:	
5A. Inventory Route On:	151000250	5B. Rd. Number On:	0025
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	86084 YORKTOWN
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 570 W, TIGER RD		
9A. Location:	100S 570W	9B Map Location:	C-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.8 Min.	17. Longitude:	085 Deg. 29.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:	PCTB	45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1964	106A. Reconstructed:	1978
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	010000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0073.0 Feet	49. Structure Length:	0306.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 06.0		
51. Bridge Roadway Width:	026.3 Feet	52. Deck Width (o-o):	033.2 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00141

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-290 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-HEAVILY SPALLED W.S.	6
59. Super:	PRESTRESS I-BMS;T-BM:PED	GOOD-MIN SPALLS,BRNGS DETER	7
60. Sub:	CONCRETE	FAIR-SEEPAGE, MINOR SPALLING	6
61. Channel:	CONCRETE SLOPEWALL	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKED & SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OPEN JOINTS; W.S. SPALLING W/ ASPHALT PATCHES	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	CURVE TO THE NORTH	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00141

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
SCARIFY AND OVERLAY THE DECK. REPLACE THE BEARINGS, JOINTS AND APPROACH SLABS. INSTALL NEW BRIDGE AND APPROACH RAIL. UPDATE THE SOUTHEAST DRAIN. PATCH THE PIERS. RIPRAP THE NORTH PIER AND THE NORTH SLOPEWALL.

76. Improvement Length: 000306 feet
94. Bridge Imp. Costs: \$ 410 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 460 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 018300
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	20	years
C. Joints:	00	years
D. Superstructure:	20	years
E. Substructure:	20	years
F. Approach:	03	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THE APPROACH SLABS ARE SETTLED AND PAVED OVER. THE NORTHWEST BRIDGE RAIL IS CRACKED DUE TO A CRASH. THE PLAQUE READS BRIDGE 139. THE SOUTHEAST DRAINAGE TURNOUT POSES A CRASH HAZARD. THE WEARING SURFACE IS HEAVILY SPALLED. THE SOUTH SLOPEWALL IS UNDERMINED DUE TO RUNOFF FROM THE DECK. THERE ARE MINOR SPALLS IN THE PEDESTRIAN T-BEAM. THE NORTHEAST SIDEWALK IS SETTLED. THE NORTHWEST APPROACH RAIL IS BADLY DAMAGED. THE DECK DRAINS ARE PARTIALLY BLOCKED.

Bridge No. 143



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00143

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00143
8A. NBI Number:	1800122	8C. Old Bridge Number:	
5A. Inventory Route On:	151000480	5B. Rd. Number On:	0048
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	JACKSON STREET		
9A. Location:	60N 310W	9B Map Location:	D-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.0 Min.	17. Longitude:	085 Deg. 26.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1989	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	005705	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0057.0 Feet	49. Structure Length:	0066.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	029.0 Feet	52. Deck Width (o-o):	030.5 Feet
32. Approach Roadway Width:	029 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	45 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	29.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00143

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-115 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-LONGITUDINAL CRACKS	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD-LEAKING JOINTS	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD-SOME RIPRAP DISPLACED	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-SHOULDERS RUTTED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1990
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	LEAKING JOINTS, DECK CRACKED	8
68. Geometry:	TWO LANES - VERY NARROW FOR A.D.T.	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	HILL TO WEST, INTERSECTION EAST	5
36A. Traffic Safety Features:	1101 GOOD RAILING -NO APPROACH RAIL	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00143

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPAIR THE SPALLED TOPS OF THE MUDWALLS. REPLACE THE JOINTS. REPAIR THE RUTTED NORTHEAST SHOULDER. REPAIR THE NORTHEAST, SOUTHEAST, AND SOUTHWEST APPROACH RAILS. REPAIR THE DISPLACED RIPRAP. INSTALL END MARKERS.

76. Improvement Length: 000066 feet

94. Bridge Imp. Costs: \$ 12 X 1000

95. Rdwy. Imp. Costs: \$ 5 X 1000

96. Total Project Costs: \$ 17 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 007600

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 08 years

B. Deck: 15 years

C. Joints: 00 years

D. Superstructure: 41 years

E. Substructure: 41 years

F. Approach: 10 years

G. Channel: 20 years

H. Culvert: NA years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. THE EAST JOINT HAS FAILED. THE TOPS OF THE EAST MUDWALL IS SPALLED. THE NORTHEAST CURVED RAIL IS DAMAGED. THE SOUTHWEST APPROACH RAIL IS DAMAGED AND LOW. THE SOUTHEAST CURVED RAIL IS DAMAGED. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6". LONGITUDINAL CRACKS IN THE WEARING SURFACE FOLLOW THE BEAM LINES.

Bridge No. 144



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00144

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00144
8A. NBI Number:	1800123	8C. Old Bridge Number:	
5A. Inventory Route On:	151000380	5B. Rd. Number On:	0038
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	86084 YORKTOWN
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	SUTHERLAND STREET		
9A. Location:	150S 540W	9B Map Location:	C-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.2 Min.	17. Longitude:	085 Deg. 29.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1975	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1990
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0057.0 Feet	49. Structure Length:	0173.0 Feet
50. Sidewalk/Curb Left:	03.0 Right: 03.0		
51. Bridge Roadway Width:	030.5 Feet	52. Deck Width (o-o):	038.5 Feet
32. Approach Roadway Width:	030 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00144**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-095** 104B. - Under:
 26A. Functional Class Over: **16 MINOR ARTERIAL - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-LIGHT EFFLORESCENCE	7
59. Super:	PRESTRESSED I-BEAMS	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	CONCRETE SLOPEWALL	GOOD-VOID UNDER E SLOPEWALL	7
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR-CRACKED, SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	LIGHT EFFLORESCENCE. JOINTS FILLED WITH DIRT.	8
68. Geometry:	SLIGHTLY NARROW - TWO LANES	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	1011 GOOD RAILING - NO TRANSITION	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00144

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE JOINTS. FILL THE VOID UNDER THE EAST SLOPEWALL. REGRADE THE SHOULDERS. ADD EARTHEN CURB TRANSITIONS.

76. Improvement Length: 000173 feet
94. Bridge Imp. Costs: \$ 10 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 12 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 004400
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	25	years
C. Joints:	00	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	16	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

NO END MARKERS ARE SET. THE JOINTS ARE FILLED WITH SAND AND DIRT- NO JOINT MATERIAL. THE SHOULDERS ARE ERODED SLIGHTLY. THE WEARING SURFACE IS NOT TEXTURED. THE ROAD NAME IS "CORNBREAD" BY SIGNAGE. THE EXPOSED ENDS OF THE SIDEWALKS POSE CRASH HAZARDS. THE CONCRETE APPROACH PADS ARE CRACKED, SETTLED, AND PARTIALLY WEDGED AND OVERLAID WITH ASPHALT. THERE IS A VOID UNDER THE EAST SLOPEWALL AND ONE STARTING UNDER THE WEST SLOPEWALL DUE TO BURROWING AND RUNOFF THROUGH THE JOINTS.

Bridge No. 146



Looking Northerly



Looking Westerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00146

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00146
8A. NBI Number:	1800124	8C. Old Bridge Number:	
5A. Inventory Route On:	151000390	5B. Rd. Number On:	0039
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	RD 325 W		
9A. Location:	235S 310W	9B Map Location:	D-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.4 Min.	17. Longitude:	085 Deg. 26.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1976	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000662	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0048.0 Feet	49. Structure Length:	0121.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	028.0 Feet	52. Deck Width (o-o):	029.5 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00146

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS,LT BROOM FINISH	6
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-SIGNIF SPALLS-E COPING	7
60. Sub:	CONCRETE	GOOD-SEEPAGE AT END BENTS	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR - SETTLED, CRACKED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT. POSTED "WATCH FOR ICE ON BRIDGE"
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	POPOUTS, SEEPAGE, SPALLING ALONG EAST COPING	7
68. Geometry:	SLIGHTLY NARROW, SUPERELEVATED, CURVED	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	INTERSECTION AT SOUTH;STR IN A HORIZ CURVE	5
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00146

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

WEDGE THE APPROACHES. REPAIR THE COPING. DUE TO ADT AND SCHOOL BUS USE AND EXCESS SUPERELEVATION AND CURVE, REPLACE THE ALUMINUM RAILS WITH BARRIER RAILS AND GROOVE THE WEARING SURFACE FOR TEXTURE AND SEAL THE DECK.

76. Improvement Length: 000121 feet

94. Bridge Imp. Costs: \$ 82 X 1000

95. Rdwy. Imp. Costs: \$ 2 X 1000

96. Total Project Costs: \$ 84 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000880

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	28	years
C. Joints:	NA	years
D. Superstructure:	26	years
E. Substructure:	30	years
F. Approach:	08	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THE SUPERELEVATION SEEMS EXCESSIVE. THE EAST COPING IS HEAVILY SPALLED.

Bridge No. 148



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00148

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00148
8A. NBI Number:	1800125	8C. Old Bridge Number:	
5A. Inventory Route On:	141001160	5B. Rd. Number On:	0116
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 266 S		
9A. Location:	2665 300E	9B Map Location:	G-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.3 Min.	17. Longitude:	085 Deg. 19.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0073.0 Feet	49. Structure Length:	0224.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	030.0 Feet	52. Deck Width (o-o):	032.5 Feet
32. Approach Roadway Width:	025 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00148

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-7618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-SOME WEAR	7
59. Super:	PRESTRESSED I-BEAMS	GOOD-GROUT DETERIORATED	8
60. Sub:	CONCRETE	GOOD-MUDWALLS CRACKED	8
61. Channel:	RIPRAP	FAIR-DEBRIS, DEEP AREAS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONCRETE, ASPHALT-SETTLED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 POSTED NO PASSING ZONE AND NO PARKING
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKS, GROUT DETERIORATED	8
68. Geometry:	TWO LANES - SOMEWHAT NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	SLIGHT HUMP AT WEST END;DRIVES SE;ROAD NE	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00148

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

CLEAR DEBRIS AT THE WEST PIER. PLACE RIPRAP ALONG THE WEST FACE OF THE WEST INTERIOR PIER AND AT THE UPSTREAM NOSE OF BOTH INTERIOR PIERS. REPAIR THE GROUT AT THE BEAM ENDS OVER THE PIERS. REPAIR THE JOINTS.

76. Improvement Length: 000224 feet

94. Bridge Imp. Costs: \$ 12 X 1000

95. Rdwy. Imp. Costs: \$ 0 X 1000

96. Total Project Costs: \$ 12 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 003300

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A

93. Crit. Feat. Insp. Date: A: B: 0603 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	40	years
C. Joints:	04	years
D. Superstructure:	40	years
E. Substructure:	40	years
F. Approach:	08	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. THE DECK JOINTS ARE LOOSE. THE CONCRETE APPROACH PADS ARE SETTLED, ESPECIALLY AT THE WEST END. THE GROUT AT THE OUTSIDE BEAM ENDS OVER THE PIERS IS CRACKED AND DETERIORATING - STEEL STRANDS ARE EXPOSED. THE WEARING SURFACE HAS MINIMAL TEXTURE. THERE ARE MINOR CRACKS IN THE WEARING SURFACE. THERE IS HEAVY DEBRIS ACCUMULATED AT THE WEST PIER.

Bridge No. 149



Looking Northwesternly



Looking Northeasterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00149

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00149
8A. NBI Number:	1800126	8C. Old Bridge Number:	
5A. Inventory Route On:	141002490	5B. Rd. Number On:	0249
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 430 E		
9A. Location:	295S 430E	9B Map Location:	H-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.9 Min.	17. Longitude:	085 Deg. 18.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0073.0 Feet	49. Structure Length:	0224.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	030.0 Feet	52. Deck Width (o-o):	032.5 Feet
32. Approach Roadway Width:	025 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00149

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-7618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-LOOSE JOINTS, CRACKS	8
59. Super:	CONT PRESTRESS CONC I-BEAM	GOOD	8
60. Sub:	CONCRETE	GOOD-MUDWALLS CRACKED	7
61. Channel:	RIPRAP	FAIR-SOME DEEP AREAS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT & CONC-SETTLED SOUTH	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 POSTED "NO PASSING ZONE", & "NO PARKING"
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	TOPS OF MUDWALLS SPALLING.DEEP SPOTS AT PIERS	7
68. Geometry:	TWO LANES - SOMEWHAT NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	CURVES NORTH AND SOUTH. LEVEL	5
36A. Traffic Safety Features:	0111 POOR BR RAILING - REST IS GOOD	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00149

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

PLACE RIPRAP AT THE UPSTREAM NOSES OF THE PIERS. RESTORE THE RIPRAP AT THE ENDBENTS. REPAIR THE JOINTS AND MUDWALLS. REPAIR THE BRIDGE RAIL AND POST. ADD END MARKERS AT THE ENDS OF THE APPROACH RAILS. REPAIR THE GROUT AT THE ENDS OF THE BEAMS OVER THE PIERS.

76. Improvement Length: 000224 feet
94. Bridge Imp. Costs: \$ 13 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 14 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 003300
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	36	years
C. Joints:	01	years
D. Superstructure:	40	years
E. Substructure:	40	years
F. Approach:	18	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THE TYPE 1A JOINT IS LOOSE OR MISSING. THE TYPE BS JOINTS ARE LOOSE. THE SOUTHBOUND BRIDGE RAIL IS DAMAGED - ONE POST IS LOOSE. SOME RIPRAP HAS BEEN MANUALLY DISPLACED AT THE ENDBENTS. TWO RANDOM NARROW CRACKS WERE FOUND IN THE WEARING SURFACE. THE GROUT AT THE ENDS OF THE OUTSIDE BEAMS OVER THE PIERS IS CRACKED AND DETERIORATED - STEEL STRANDS ARE EXPOSED.

Bridge No. 152



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00152

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00152
8A. NBI Number:	1800129	8C. Old Bridge Number:	
5A. Inventory Route On:	141000750	5B. Rd. Number On:	0075
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 700 E		
9A. Location:	180S 700E	9B Map Location:	J-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.9 Min.	17. Longitude:	085 Deg. 15.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1986	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000996	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0077.0 Feet	49. Structure Length:	0312.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	030.0 Feet	52. Deck Width (o-o):	032.5 Feet
32. Approach Roadway Width:	025 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00152

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-DEBRIS IN DRAINS & JTS	8
59. Super:	CONT PRESTRESS CONC I-BEAM	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	FAIR-DEEP AT S INTERIOR PIER	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-MINOR CRACKING	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT; POSTED "NO PARKING"
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD. CRACKS IN APPROACH SLAB	8
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE, CURVES JUST UPSTREAM OF STRUCTURE	7
72. Roadway Alignment:	INTERSECTIONS AND DRIVEWAYS AT 3 CORNERS	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00152

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**CLEAN DECK DRAINS AND JOINTS. PLACE RIPRAP AT THE SOUTH INTERIOR PIER. ADD THREE
END MARKERS PLUS ONE AT THE NORTHWEST BRIDGE END AT THE DRIVE.**

76. Improvement Length: 000312 feet
94. Bridge Imp. Costs: \$ 7 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 7 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001650
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0603 C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	45	years
C. Joints:	08	years
D. Superstructure:	45	years
E. Substructure:	45	years
F. Approach:	15	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

**ONE END MARKER IS IN PLACE AT THE SOUTHEAST CORNER. THE DECK WAS FORMED WITH
PERMANENT PRECAST CONCRETE PANELS. SOME TURBULENCE AND MINOR DEEP AREAS
WERE FOUND AT THE SOUTH PIER.**

Bridge No. 153



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00153

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00153
8A. NBI Number:	1800130	8C. Old Bridge Number:	
5A. Inventory Route On:	141002730	5B. Rd. Number On:	0273
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 567 E		
9A. Location:	60N 567E	9B Map Location:	J-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.0 Min.	17. Longitude:	085 Deg. 16.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1988	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0031.0 Feet	49. Structure Length:	0032.0 Feet
50. Sidewalk/Curb Left:	00.5 Right: 00.5	52. Deck Width (o-o):	027.3 Feet
51. Bridge Roadway Width:	026.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	020 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	26.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00153

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-ASPHALT CRACKED	6
59. Super:	TIMBER	GOOD-SOME SAG	7
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-WEDGED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 242
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKED WEARING SURFACE, MINOR SEEPAGE	7
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	CURVE NORTH; HILL SOUTH; FIELD ENTR SW	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00153

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD END MARKERS.

76. Improvement Length: 000032 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000220
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	13	years
C. Joints:	NA	years
D. Superstructure:	13	years
E. Substructure:	13	years
F. Approach:	10	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE WEARING SURFACE DOES NOT EXTEND TO THE CURB. TWO OF FOUR END MARKERS ARE MISSING; ONE IS TWISTED. THE TIMBER RAIL NOT STANDARD.

Bridge No. 156



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00156

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00156
8A. NBI Number:	1800132	8C. Old Bridge Number:	
5A. Inventory Route On:	141000690	5B. Rd. Number On:	0069
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BRANCH WHITE RIVER		
7. Facility Carried:	RD 625 E		
9A. Location:	120S 625E	9B Map Location:	J-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.5 Min.	17. Longitude:	085 Deg. 16.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1981	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001146	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0010.0 Feet	49. Structure Length:	0023.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00156

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	NATURAL	FAIR-MIN EROSION AT OUTLETS	4
62. Culv/Ret:	STEEL PIPE	FAIR-BOTH PIPES DEFLECTED	6
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 08 / 84

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DEFLECTION IN PIPES, UNDERCUT, LOAD RATING	2
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	HILL BOTH WAYS; STRAIGHT	6
36A. Traffic Safety Features:	1101 GOOD RAILING -NO APPROACH RAIL	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00156

PROPOSED IMPROVEMENTS:

73. Year Needed: 2012
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT OR BUILD UP THE ROAD TO ATTAIN ADEQUATE COVER OVER THE PIPES.

76. Improvement Length: 000040 feet
94. Bridge Imp. Costs: \$ 90 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 140 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001940
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	15	years
G. Channel:	10	years
H. Culvert:	20	years

Remarks:

END MARKERS ARE IN PLACE. HEAVY DEBRIS IS CAUGHT IN THE CATTLE FENCE AT THE INLET. THERE IS LITTLE MORE THAN ONE FOOT OF COVER OVER THE PIPES.

Bridge No. 158



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00158

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00158
8A. NBI Number:	1800133	8C. Old Bridge Number:	
5A. Inventory Route On:	141000400	5B. Rd. Number On:	0040
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 120 S		
9A. Location:	110S 535E	9B Map Location:	J-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.5 Min.	17. Longitude:	085 Deg. 17.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1979	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000435	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0009.0 Feet	49. Structure Length:	0023.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	31.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00158

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEG/RIPRAP	FAIR-HEAVY DEBRIS AT INLET	5
62. Culv/Ret:		POOR-DEFLECTION UNDER RDWY	3
65. Approach Roadway:		POOR-WB SHOULDER STEEP	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 08 / 84

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PIPES DEFLECTED (APPROX. 1'-0), LOAD RATING	2
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING	5
72. Roadway Alignment:	CURVE WEST, HILL EAST	4
36A. Traffic Safety Features:	0000B UNACCEPTABLE/NON-EXISTENT	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00158

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE PIPES BY CONTRACT WITH A SINGLE-SPAN BRIDGE. MEANWHILE, REMOVE THE DEBRIS AND EXTEND THE APPROACH RAIL DUE TO THE CURVE.

76. Improvement Length: 000042 feet
94. Bridge Imp. Costs: \$ 140 X 1000
95. Rdwy. Imp. Costs: \$ 35 X 1000
96. Total Project Costs: \$ 175 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000740
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	02	years
G. Channel:	03	years
H. Culvert:	03	years

Remarks:

THERE IS A VERY HEAVY ACCUMULATION OF DEBRIS, CAUSING ABOUT 75% BLOCKAGE OF THE INLETS. NO END MARKERS ARE POSTED. THERE IS GUARDRAIL AT THE NORTH SIDE OF THE ROADWAY ONLY. CONCRETE HAS PREVIOUSLY BEEN PLACED AT THE NORTH SHOULDER TO REPAIR SLOPE FAILURE.

Bridge No. 159



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00159

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00159
8A. NBI Number:	1800134	8C. Old Bridge Number:	
5A. Inventory Route On:	141000280	5B. Rd. Number On:	0028
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PRAIRIE CREEK		
7. Facility Carried:	RD 300 S		
9A. Location:	300S 485E	9B Map Location:	H-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.9 Min.	17. Longitude:	085 Deg. 17.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	05 Inches

AGE AND SERVICE:

27A. Year Built:	1960	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001800	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	05 Percent		
19. Bypass Detour Length:	05 5 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0029.0 Feet	49. Structure Length:	0060.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	023.8 Feet	52. Deck Width (o-o):	024.1 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00159

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-7618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	POOR-HOLES IN TOP OF S BEAMS	2
59. Super:	PRESTRESSED BOX BEAMS	POOR-OUTSIDE BEAMS DAMAGED	2
60. Sub:	CONCRETE	FAIR-PIER SPALLED, SEEPAGE	6
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD - CRACKED	7

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating: 1996
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BOX BEAM DAMAGED. SPALLING, SEEPAGE, LEACHING	2
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	INTERSECTION TO WEST, HORIZ CURVE TO EAST	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00159

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT.

76. Improvement Length: 000060 feet
94. Bridge Imp. Costs: \$ 55 X 1000
95. Rdwy. Imp. Costs: \$ 15 X 1000
96. Total Project Costs: \$ 70 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 003100
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y12 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0505 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	04	years
B. Deck:	00	years
C. Joints:	NA	years
D. Superstructure:	01	years
E. Substructure:	18	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE NORTH BRIDGE RAIL IS HEAVILY DAMAGED. THERE ARE HOLES IN THE TOP, SIDES, AND BOTTOM OF THE SOUTH BEAM AT THE WEST SPAN WITH CRACKS BELOW. THERE ARE HOLES IN THE TOP AND SIDE OF THE SOUTH BEAM IN THE EAST SPAN. AN ANNUAL CRITICAL FEATURE INSPECTION OF THE DAMAGED BEAMS IS REQUIRED. THERE IS EXCESSIVE DEAD LOAD ON THE BEAMS DUE TO THE THICKNESS OF THE ASPHALT WEARING SURFACE. THERE IS A SPALL AT THE SECOND BEAM FROM THE NORTH, APPROXIMATELY MIDSPAN IN THE EAST SPAN. THE INTERIOR BENT CAP IS SPALLED, ESPECIALLY AT THE BOTTOM. HEAVY DEBRIS, INCLUDING TWO LARGE TREE TRUNKS, IS ACCUMULATED UNDER THE EAST SPAN. THE TOPS OF ALL THE BEAMS SHOULD BE STRIPPED OF ASPHALT AND INSPECTED DUE TO THE CONDITIONS FOUND IN THE SOUTH OUTSIDE BEAMS.

Bridge No. 160



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00160

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00160
8A. NBI Number:	1800135	8C. Old Bridge Number:	
5A. Inventory Route On:	141000690	5B. Rd. Number On:	0069
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	PRAIRIE CREEK RESERVOIR		
7. Facility Carried:	RD 566 E		
9A. Location:	380S 566E	9B Map Location:	J-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.3 Min.	17. Longitude:	085 Deg. 16.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	2004
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000672	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0050.0 Feet	49. Structure Length:	0103.9 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	027.9 Feet	52. Deck Width (o-o):	028.3 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.9 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00160**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 S-8918** 104B. - Under:
 26A. Functional Class Over: **07 MAJOR COLLECTOR - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TOP OF CONC BEAMS-ASPH W.S.	GOOD-NEW	8
59. Super:	PRESTRESS CONC BOX BEAMS	GOOD-NEW	8
60. Sub:	CONCRETE ON PILES	GOOD-REBUILT PIER, NEW ENDS	7
61. Channel:	RIPRAP	GOOD-LARGE STONES	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONC PADS AND ASPHALT	8

LOAD RATING AND POSTING:

31. Design Load: **4 H-20**
 64A. Operating Rating: **240**
 66A. Inventory Rating: **232** 64B. Year of Rating: **2004**
 66B. Gross Tons or H Rating: **20**
 70. Bridge Posting: **5 LEGAL LIMIT- POSTED NO PARKING ON BRIDGE**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NEW SUPERSTRUCTURE, ENDBENTS, AND PIER CAP	7
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	Q STEEL - THRIE BEAM	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00160

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
SEAL THE JOINT OVER THE CENTER PIER. REPLACE THE APPROACH RAIL AND ADD END TREATMENTS. ADD POSTS AT THE TRANSITIONS.

76. Improvement Length: 000104 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 20 X 1000
96. Total Project Costs: \$ 21 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001150
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y24 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0703 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	25	years
C. Joints:	10	years
D. Superstructure:	55	years
E. Substructure:	50	years
F. Approach:	20	years
G. Channel:	25	years
H. Culvert:	NA	years

Remarks:

THE OLD ABUTMENTS WERE REPLACED BY ENDBENTS, THE INTERIOR BENT CAP WAS REBUILT, AND THE CONTINUOUS REINFORCED CONCRETE SLAB SUPERSTRUCTURE WAS REPLACED BY MULTIPLE CONCRETE BOX BEAMS SINCE THE LAST INSPECTION. THE APPROACH RAIL IS LOW (22" TO 24") AND THE WOOD POSTS ARE SPACED AT 12' - 6". A FEW POSTS ARE ROTTED. THERE IS AN OPEN JOINT OVER THE INTERIOR BENT. THERE IS AN ASPHALT WEARING SURFACE ON THE BRIDGE DECK AND OVER THE CONCRETE APPROACH PADS. NO END MARKERS ARE POSTED. THE UNDERWATER INSPECTION IS NO LONGER REQUIRED FOR THE ENDBENTS; AN UNDERWATER INSPECTION IS STILL REQUIRED FOR THE INTERIOR BENT.

Bridge No. 161



Looking West



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00161

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00161
8A. NBI Number:	1800136	8C. Old Bridge Number:	
5A. Inventory Route On:	141000690	5B. Rd. Number On:	0069
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	RD 170 S		
9A. Location:	170S 615E	9B Map Location:	J-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.1 Min.	17. Longitude:	085 Deg. 16.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	310B STEEL THRU TRUSS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	7 Timber	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1902	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	2000
59B. Paint Rating:	2 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000684	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0189.0 Feet	49. Structure Length:	0192.0 Feet
50. Sidewalk/Curb Left:	00.0	Right:	00.0
51. Bridge Roadway Width:	015.3 Feet	52. Deck Width (o-o):	016.0 Feet
32. Approach Roadway Width:	015 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	17 ' 00 "	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	15.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	14 ' 00 "	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00161

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 3 ONE LANE BR 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 3 POSSIBLY ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER ON STEEL STRINGERS	GOOD	6
59. Super:	STEEL THRU TRUSS	POOR-RUSTING, SECTION LOSS	3
60. Sub:	CONCRETE	POOR-SPALLED & DETERIORATING	3
61. Channel:	EARTH/VEGETATION	FAIR	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, ROUGH	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 210
66A. Inventory Rating: 208 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 08
70. Bridge Posting: 3 8 TON LIMIT; POSTED "1 LANE BRIDGE"
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 08 66D. Date Posted/Closed: 03 / 99

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	RUST/SECTION LOSS; ABUTS DETER; LOAD RATING	2
68. Geometry:	ONE LANE	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	CURVE AT WEST APPROACH, INTERSECTION NE	3
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00161

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE ON A NEW ALIGNMENT. MEANWHILE, REPAIR THE EAST FLOOR BEAM.

76. Improvement Length: 000225 feet
94. Bridge Imp. Costs: \$ 485 X 1000
95. Rdwy. Imp. Costs: \$ 200 X 1000
96. Total Project Costs: \$ 685 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001150
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y06 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0505 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 10 years
B. Deck: 10 years
C. Joints: NA years
D. Superstructure: 02 years
E. Substructure: 02 years
F. Approach: 05 years
G. Channel: 10 years
H. Culvert: NA years

Remarks:

THE BRIDGE RATTLES LOUDLY UNDER TRAFFIC AT THE EAST END. THE FLOOR BEAM OVER THE EAST ABUTMENT IS RUSTED THROUGH AT THE WEB, ALLOWING SIGNIFICANT DEFLECTION UNDER LOAD. A RISE IN THE ASPHALT AT THE EAST END OF THE BRIDGE EXACERBATES THE IMPACT ON THE STRUCTURE, ESPECIALLY FOR WESTBOUND TRAFFIC. THERE IS SEVERE RUST WITH SECTION LOSS AT MANY OF THE LOWER CONNECTIONS. THE APPROACH RAIL IS LOW AND POSTS ARE SPACED AT 12'-6". THE RAILS ARE DAMAGED AT THE CONNECTIONS TO THE TRUSS END POSTS. NO END MARKERS ARE POSTED AT THE ENDS OF THE APPROACH RAIL.

Bridge No. 163



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00163

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00163
8A. NBI Number:	1800137	8C. Old Bridge Number:	
5A. Inventory Route On:	141000770	5B. Rd. Number On:	0077
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	STONEY CREEK		
7. Facility Carried:	RD 800 E		
9A. Location:	640S 800E	9B Map Location:	K-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.0 Min.	17. Longitude:	085 Deg. 14.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1984	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0041.0 Feet	49. Structure Length:	0124.0 Feet
50. Sidewalk/Curb Left:	00.5 Right: 00.5		
51. Bridge Roadway Width:	026.0 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	025 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00163

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-LONGITUD CRACKS; SPALLS	6
59. Super:	PRESTRESSED CONC BOX BEAMS	GOOD	8
60. Sub:	CONCRETE	GOOD-SPALLS AT PILE ENCASING	7
61. Channel:	RIPRAP	FAIR-SILT IN CHANNEL	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SETTLED, RUTTED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 244
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SPALLING & CRACKING-WATERLINE-S INTER BENT	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE, SILTING	7
72. Roadway Alignment:	STRAIGHT, HILL TO SOUTH	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00163

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
WEDGE THE APPROACHES. INSTALL END MARKERS. PATCH THE SPALLED CONCRETE PILE ENCASEMENTS.

76. Improvement Length: 000124 feet
94. Bridge Imp. Costs: \$ 6 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 9 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	06	years
B. Deck:	14	years
C. Joints:	06	years
D. Superstructure:	40	years
E. Substructure:	22	years
F. Approach:	08	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. THE WEARING SURFACE HAS CRACKS, SPALLING, AND SCALING. THE DECK IS CRACKED AT THE JOINTS AT THREE CORNERS OVER THE INTERIOR BENTS AND TRANSVERSELY AT THE SOUTH INTERIOR BENT. THERE IS MINOR SCOUR AROUND THE SOUTH INTERIOR BENT. SEVERAL PILE ENCASEMENTS ARE CRACKED; SEVERAL ARE SPALLED AT THE WATERLINE IN THE SOUTH INTERIOR BENT AND AT GROUND LEVEL IN THE NORTH INTERIOR BENT. THERE ARE SEVERAL HAIRLINE CRACKS IN THE NORTH INTERIOR BENT CAP AND ONE IN THE SOUTH INTERIOR BENT CAP. THE BRIDGE RAIL IS SOMEWHAT HIGH AT 30". THERE IS SOME DAMAGE TO THE SOUTHWEST BURIED END RAIL.

Bridge No. 164



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00164

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00164
8A. NBI Number:	1800138	8C. Old Bridge Number:	42
5A. Inventory Route On:	141002950	5B. Rd. Number On:	0295
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	LITTLE STONEY CREEK		
7. Facility Carried:	RD 775 E		
9A. Location:	740S 775E	9B Map Location:	K-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 05.1 Min.	17. Longitude:	085 Deg. 14.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1970	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0048.0 Feet	49. Structure Length:	0050.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	023.9 Feet	52. Deck Width (o-o):	024.1 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.9 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00164

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TOP OF BEAMS W/ ASPHALT W.S.	FAIR-CRACKED & ROUGH W.S.	6
59. Super:	PRESTRESSED CONC BOX BEAMS	GOOD-SEEPAGE BETWEEN BEAMS	7
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-ROUGH,SETTLED,HOLES	4

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 244
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT & LEVEL, FIELD ENTRANCE SOUTHEAST	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00164

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

INSTALL APPROACH RAIL AT ALL CORNERS. ADD TRANSITIONS FROM STEEL TO CONCRETE BRIDGE RAIL. INSTALL END MARKERS. PLACE A NEW WEARING SURFACE EXTENDING TO THE EDGE OF THE BRIDGE. PAVE THE APPROACHES. PROVIDE JOINT MATERIAL BETWEEN THE BEAMS AND THE CONCRETE RAILS.

76. Improvement Length: 000050 feet

94. Bridge Imp. Costs: \$ 7 X 1000

95. Rdwy. Imp. Costs: \$ 15 X 1000

96. Total Project Costs: \$ 22 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000210

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 00 years

B. Deck: 27 years

C. Joints: NA years

D. Superstructure: 27 years

E. Substructure: 27 years

F. Approach: 00 years

G. Channel: 20 years

H. Culvert: NA years

Remarks:

NO END MARKERS ARE POSTED. THE ASPHALT WEARING SURFACE DOES NOT COVER THE TWO OUTSIDE BOX BEAMS. THE NORTH APPROACH IS ROUGH AND SETTLING. THE PLAQUE READS "BRIDGE 42".

Bridge No. 165



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00165

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00165
8A. NBI Number:	1800139	8C. Old Bridge Number:	
5A. Inventory Route On:	141000750	5B. Rd. Number On:	0075
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	CUNNINGHAM DITCH		
7. Facility Carried:	RD 700 E		
9A. Location:	480S 700E	9B Map Location:	J-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.4 Min.	17. Longitude:	085 Deg. 15.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1963	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000280	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0041.0 Feet	49. Structure Length:	0044.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	023.7 Feet	52. Deck Width (o-o):	025.6 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.7 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00165

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-WEAR ON SURFACE	6
59. Super:	PRESTR CONCRETE BOX BEAMS	GOOD-SEEPAGE	7
60. Sub:	CONCRETE	FAIR-SEEPAGE, FAILING WINGS	6
61. Channel:	NATURAL	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-POOR-FILL LOSS	3

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 243
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NW WINGWALL COLLAPSING; SEEPAGE	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	HILL TO NORTH, STRAIGHT	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00165

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
PLACE FLOWABLE FILL AT THE VOID IN THE SOUTH APPROACH. REPLACE THE WINGWALLS. RIPRAP THE ENDBENTS AND CORNERS. INSTALL APPROACH RAIL, END TREATMENTS, AND CURB TRANSITIONS AT ALL CORNERS. UNDERPIN THE SOUTH BENT CAP. ADD END MARKERS.

76. Improvement Length: 000044 feet
94. Bridge Imp. Costs: \$ 8 X 1000
95. Rdwy. Imp. Costs: \$ 11 X 1000
96. Total Project Costs: \$ 19 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000480
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	08	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	20	years
E. Substructure:	20	years
F. Approach:	00	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THERE IS RIPRAP LOSS ON THE SOUTH BANK BELOW THE BRIDGE. THE SOUTH APPROACH HAS A LARGE VOID UNDER THE PAVEMENT AND A HOLE IN THE PAVEMENT AND IS SETTLING AND ROUGH DUE TO UNDERMINING. THERE IS ALSO MINOR RIPRAP LOSS ON THE NORTH BANK. THE SOUTHWEST SHEET PILE WING SHOWS SOME MOVEMENT; THE NORTHWEST WING IS ESSENTIALLY FAILED. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS. THE ENDBENT CAPS HAVE HAIRLINE CRACKS. THE COPINGS AT THE NORTH CORNERS ARE CRACKED AND BROKEN. THERE IS HEAVY DEBRIS AT THE SHOULDERS OF THE DECK.

Bridge No. 167



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00167

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00167
8A. NBI Number:	1800140	8C. Old Bridge Number:	
5A. Inventory Route On:	141000040	5B. Rd. Number On:	0004
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	STONEY CREEK		
7. Facility Carried:	RD 800 S		
9A. Location:	800S 735E	9B Map Location:	K-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 04.6 Min.	17. Longitude:	085 Deg. 14.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	01 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	2002	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000250	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	05 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.3 Feet	49. Structure Length:	0078.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.6 Feet
51. Bridge Roadway Width:	024.2 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	13 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.2 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00167

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD	8
59. Super:	TIMBER SLAB	GOOD	8
60. Sub:	TIMBER PILES	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 242
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT STRUCTURAL PROBLEMS	8
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	FIELD ENTRANCES NW & SE	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00167

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD END MARKERS.

76. Improvement Length: 000078 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000460
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	28	years
C. Joints:	NA	years
D. Superstructure:	28	years
E. Substructure:	28	years
F. Approach:	20	years
G. Channel:	40	years
H. Culvert:	NA	years

Remarks:

THE TIMBER RAIL IS HIGH AND NOT STANDARD. NO END MARKERS ARE POSTED. THE TIMBERS ARE LIGHT-COLORED COMPARED TO THE ORIGINAL DARK COLORING OF THE WOOD TREATMENT.

Bridge No. 168



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00168

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00168
8A. NBI Number:	1800141	8C. Old Bridge Number:	
5A. Inventory Route On:	141000040	5B. Rd. Number On:	0004
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	LITTLE STONEY CREEK		
7. Facility Carried:	RD 800 S		
9A. Location:	800S 850E	9B Map Location:	K-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 04.6 Min.	17. Longitude:	085 Deg. 13.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0047.0 Feet	49. Structure Length:	0051.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.6 Feet	52. Deck Width (o-o):	026.1 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	23 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.6 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00168

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR CRACKS IN W.S.	8
59. Super:	PRESTRESSED BOX BEAMS	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1992
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, INTERSECTION EAST	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00168

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL TWO END MARKERS; REPOSITION THE OTHER TWO.

76. Improvement Length: 000051 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 25 years
B. Deck: 48 years
C. Joints: 05 years
D. Superstructure: 48 years
E. Substructure: 48 years
F. Approach: 15 years
G. Channel: 30 years
H. Culvert: NA years

Remarks:

THE EXPANSION JOINT MATERIAL IS RAISED UP OUT OF THE SEAT (STICKING UP 1/2"-3/4") AND IS TORN IN SEVERAL PLACES. TWO END MARKERS ARE IMPROPERLY PLACED AND TWO ARE MISSING. THERE ARE MINOR CRACKS IN THE TOPS OF THE MUDWALLS. THERE ARE MINOR CRACKS AT THE EAST END OF THE WEARING SURFACE.

Bridge No. 169



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00169

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00169
8A. NBI Number:	1800142	8C. Old Bridge Number:	
5A. Inventory Route On:	141000060	5B. Rd. Number On:	0006
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	STONY DITCH		
7. Facility Carried:	RD 700 S		
9A. Location:	700S 740E	9B Map Location:	K-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 05.5 Min.	17. Longitude:	085 Deg. 15.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1984	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0040.0 Feet	49. Structure Length:	0103.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	026.0 Feet	52. Deck Width (o-o):	026.0 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00169

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR POPOUTS IN W.S.	7
59. Super:	REINFORCED CONCRETE SLAB	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP/NATURAL	FAIR-HEAVY SILTING	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-BOTH ENDS SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE; SILTING	6
72. Roadway Alignment:	STRAIGHT; SMALL HILL TO WEST	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00169

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
PLACE ADDITIONAL RIPRAP AT THE EAST ENDBENT. INSTALL END MARKERS. TRIM VEGETATION AT THE APPROACHES.

76. Improvement Length: 000103 feet
94. Bridge Imp. Costs: \$ 6 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 6 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	35	years
C. Joints:	NA	years
D. Superstructure:	35	years
E. Substructure:	35	years
F. Approach:	08	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THREE END MARKERS ARE IN PLACE BUT OBSTRUCTED BY VEGETATION; TWO END MARKERS AT THE EAST END ARE BULLET-RIDDLED. MOST OF THE RIPRAP AT THE EAST ENDBENT IS DISTURBED AND MISSING. THERE IS MINOR DAMAGE TO THE RAIL IN SEVERAL LOCATIONS.

Bridge No. 170



Looking East



Looking Southwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00170

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00170
8A. NBI Number:	1800143	8C. Old Bridge Number:	
5A. Inventory Route On:	141000140	5B. Rd. Number On:	0014
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	HUFFMAN CREEK		
7. Facility Carried:	RD 600 S		
9A. Location:	600S 575E	9B Map Location:	J-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.3 Min.	17. Longitude:	085 Deg. 16.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000176	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0055.0 Feet	49. Structure Length:	0058.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.4 Feet	52. Deck Width (o-o):	028.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	45 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00170**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **08 MINOR COLLECTOR - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-WORN SURFACE	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-MINOR SEEPAGE	8
60. Sub:	CONCRETE END BENTS	POOR-PILES EXPOSED NE & SW	4
61. Channel:	RIPRAP	POOR-WASHOUTS	4
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-WEDGED, ROUGH, VOID	3

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **244**
 66A. Inventory Rating: **235** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	WASHOUTS AT BRIDGE CORNERS, EXPOSED PILES	4
68. Geometry:	TWO LANES - SLIGHTLY NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SLIGHTLY INADEQUATE	5
72. Roadway Alignment:	HILL BOTH WAYS, STRAIGHT, NO APPROACH RAIL	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00170

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REBUILD THE APPROACHES. UNDERPIN THE END BENTS AT THE NORTHEAST AND SOUTHWEST CORNERS AND PLACE RIPRAP. INSTALL APPROACH RAIL WITH END TREATMENTS AND CURB TRANSITIONS AT ALL CORNERS.

76. Improvement Length: 000058 feet
94. Bridge Imp. Costs: \$ 12 X 1000
95. Rdwy. Imp. Costs: \$ 17 X 1000
96. Total Project Costs: \$ 29 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000300
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	23	years
C. Joints:	NA	years
D. Superstructure:	23	years
E. Substructure:	18	years
F. Approach:	00	years
G. Channel:	02	years
H. Culvert:	NA	years

Remarks:

THERE IS A DRIVE NEAR THE SOUTHWEST CORNER. THREE OF FOUR END MARKERS ARE IN PLACE. THE ASPHALT DOES NOT EXTEND TO THE CURBS. THE BRIDGE END IS EXPOSED AT THE NORTHEAST CORNER DUE TO EROSION. THE EXPOSED ENDS OF THE CURBS AND BRIDGE RAILS POSE CRASH HAZARDS. THERE IS FILL LOSS BEHIND THE END BENT CAPS - THIS HAS RESULTED IN A LARGE VOID UNDER THE WEST APPROACH PAVEMENT.

Bridge No. 171



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00171

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00171
8A. NBI Number:	1800144	8C. Old Bridge Number:	
5A. Inventory Route On:	141000140	5B. Rd. Number On:	0014
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	STONEY CREEK		
7. Facility Carried:	RD 600 S		
9A. Location:	600S 840E	9B Map Location:	K-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.3 Min.	17. Longitude:	085 Deg. 13.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1969	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000192	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0036.0 Feet	49. Structure Length:	0113.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	025.4 Feet	52. Deck Width (o-o):	029.8 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00171**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **08 MINOR COLLECTOR - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD-WORN WS, MINOR EFFLOR	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD-MINOR SPALLING AT ENDS	7
60. Sub:	CONCRETE	FAIR-MINOR SPALLING	6
61. Channel:	RIPRAP	GOOD-SILT & VEG UNDER BRG	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR - ROUGH	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **244**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OPEN EXP JTS AT PIERS.MINOR SPALLS & EFFLOR	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	NO APPROACH RAIL. DRIVE NW. LOW APPROACHES	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00171

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**INSTALL APPROACH RAIL, CURB TRANSITIONS AND END TREATMENTS AT ALL CORNERS.
CLEAN THE JOINTS AND INSTALL NEW JOINT MATERIAL. INSTALL TWO END MARKERS. BLAST
AND SEAL ALL EXPOSED CONCRETE.**

76. Improvement Length: 000113 feet
94. Bridge Imp. Costs: \$ 20 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 30 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000320
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	20	years
C. Joints:	00	years
D. Superstructure:	25	years
E. Substructure:	20	years
F. Approach:	05	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE ASPHALT WEARING SURFACE DOES NOT EXTEND TO THE CURBS. TWO OF FOUR END MARKERS ARE IN PLACE. THE PLAQUE READS BRIDGE NUMBER 166. THERE IS HEAVY LICHEN BUILDUP ON THE BRIDGE. THE WEST END OF THE SECOND BEAM FROM THE SOUTH IN THE EAST SPAN HAS MODERATE SPALLS AND EXPOSED REINFORCING STEEL. THERE IS A MODERATE SPALL IN THE SOUTH COPING NEAR THE EAST PIER. THERE IS NO JOINT MATERIAL OVER THE PIERS. THERE IS MINOR SCOUR AT THE UPSTREAM END OF THE EAST PIER.

Bridge No. 172



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00172

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00172
8A. NBI Number:	1800145	8C. Old Bridge Number:	
5A. Inventory Route On:	141000690	5B. Rd. Number On:	0069
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	PRAIRIE CREEK RESERVOIR		
7. Facility Carried:	RD 550 E		
9A. Location:	510S 550E	9B Map Location:	J-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.2 Min.	17. Longitude:	085 Deg. 16.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	2004
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000672	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0050.0 Feet	49. Structure Length:	0103.9 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	027.8 Feet	52. Deck Width (o-o):	028.2 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00172

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TOP OF CONC BEAMS-ASPH W.S.	GOOD-NEW	8
59. Super:	PRESTRESS CONC BOX BEAMS-	GOOD-NEW	8
60. Sub:	CONCRETE ON PILES	GOOD-NEW ENDS & PIER CAP	7
61. Channel:	RIPRAP	GOOD-LARGE STONES	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH,CONC PADS-GOOD	7

LOAD RATING AND POSTING:

31. Design Load: 4 H-20
64A. Operating Rating: 240
66A. Inventory Rating: 232 64B. Year of Rating: 2004
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 POSTED NO PARKING.
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NEW SUPERSTRUCTURE, ENDBENTS, AND PIER CAP	7
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT - HILL BOTH WAYS	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	Q STEEL - THRIE BEAM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00172

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REMOVE LOAD LIMIT SIGNS. SEED THE EMBANKMENT. REPLACE THE APPROACH RAIL AND ADD END TREATMENTS. ADD POSTS AT THE TRANSITIONS. PLACE STONE AT THE SHOULDERS.

76. Improvement Length: 000103 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 14 X 1000
96. Total Project Costs: \$ 14 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001150
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y24 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0703 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	30	years
C. Joints:	20	years
D. Superstructure:	50	years
E. Substructure:	50	years
F. Approach:	20	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE OLD ABUTMENTS WERE REPLACED BY ENDBENTS, THE INTERIOR BENT CAP WAS REBUILT, AND THE CONTINUOUS REINFORCED CONCRETE SLAB SUPERSTRUCTURE WAS REPLACED BY MULTIPLE CONCRETE BOX BEAMS SINCE THE LAST INSPECTION. THE APPROACH RAIL IS LOW (22" TO 24") AND THE WOOD POSTS ARE SPACED AT 12' - 6". THERE IS A JOINT OVER THE INTERIOR BENT. NO END MARKERS ARE POSTED. THE UNDERWATER INSPECTION IS NO LONGER REQUIRED FOR THE ENDBENTS; AN UNDERWATER INSPECTION IS STILL REQUIRED FOR THE INTERIOR BENT. AN ASPHALT WEARING SURFACE WAS PLACED IN LATE APRIL 2005; THERE ARE SOME AREAS WHERE THE SHOULDER IS LOW BETWEEN THE PAVEMENT AND THE APPROACH RAIL.

Bridge No. 177



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00177

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00177
8A. NBI Number:	1800147	8C. Old Bridge Number:	
5A. Inventory Route On:	141000040	5B. Rd. Number On:	0004
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	RD 800 S		
9A. Location:	800S 500E	9B Map Location:	H-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 04.6 Min.	17. Longitude:	085 Deg. 17.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1988	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0029.0 Feet	49. Structure Length:	0075.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00177

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD	8
60. Sub:	CONCRETE	GOOD-MINOR PILE RUST	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT & CONCRETE - CRACKS	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1990
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR PILE RUST	8
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE. CHANNEL CURVES UPSTREAM.	6
72. Roadway Alignment:	HILL TO WEST, INTERSECTION NORTHEAST	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00177

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL END MARKERS. REPAINT THE PILES.

76. Improvement Length: 000075 feet
94. Bridge Imp. Costs: \$ 2 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 3 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000440
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	46	years
C. Joints:	NA	years
D. Superstructure:	46	years
E. Substructure:	38	years
F. Approach:	18	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THERE IS MINOR RUST ON THE STEEL-ENCASED PILES AT THE INTERIOR PIERS. THERE IS ONE END MARKER IN PLACE; THREE ARE MISSING. THE EASTBOUND HALF OF THE EAST CONCRETE APPROACH PAD IS CRACKED.

Bridge No. 179



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00179

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00179
8A. NBI Number:	1800148	8C. Old Bridge Number:	
5A. Inventory Route On:	151000380	5B. Rd. Number On:	0038
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	CORN BREAD ROAD		
9A. Location:	150S 210W	9B Map Location:	E-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.3 Min.	17. Longitude:	085 Deg. 25.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1968	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1998
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001151	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0042.0 Feet	49. Structure Length:	0112.0 Feet
50. Sidewalk/Curb Left:	03.0 Right: 03.0		
51. Bridge Roadway Width:	029.3 Feet	52. Deck Width (o-o):	037.3 Feet
32. Approach Roadway Width:	025 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	29.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00179**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 M-095** 104B. - Under:
26A. Functional Class Over: **16 MINOR ARTERIAL - URBAN**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-OVERLAY CRACKED	6
59. Super:	PRESTRESSED CONC BOX BEAMS	GOOD	7
60. Sub:	CONCRETE	FAIR-PIERS SPALLED, WEATHERED	6
61. Channel:	CONCRETE SLOPEWALL	GOOD-CRACKED, SILTED, UNDERCUT	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **245**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating: **20**
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SUBSTRUCTURE SPALLED, OVERLAY CRACKED	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00179

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAIL AT ALL CORNERS. INSTALL DRAIN EXTENSIONS. REPAIR SPALLS AT THE PIERS AND THE BOTTOM OF THE DECK. EXTEND JOINT MATERIAL THROUGH THE CURBS AND WALKS. REPAIR LOOSE OVERLAY. ADD SIDEWALK TRANSITIONS.

76. Improvement Length: 000112 feet
94. Bridge Imp. Costs: \$ 9 X 1000
95. Rdwy. Imp. Costs: \$ 12 X 1000
96. Total Project Costs: \$ 21 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001540
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	16	years
B. Deck:	18	years
C. Joints:	15	years
D. Superstructure:	25	years
E. Substructure:	20	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THERE IS MINOR REBAR EXPOSURE ON THE PIERS. THE DRAINS DRIP ONTO THE BEAMS. THE JOINTS LEAK AT THE CURBS. SOME FULL DEPTH PATCHES ARE NOT FILLED BELOW. THERE IS A SMALL AREA OF LOOSE OVERLAY. THE DECK HAS CRACKS AND SPALLS BELOW, ESPECIALLY AT THE DEPTH CHANGES NEAR THE JOINTS. THE DRAINS ARE PARTIALLY BLOCKED. THE EXPOSED ENDS OF THE SIDEWALKS POSE CRASH HAZARDS.

Bridge No. 180



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00180

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00180
8A. NBI Number:	1800149	8C. Old Bridge Number:	
5A. Inventory Route On:	151000360	5B. Rd. Number On:	0036
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	26TH STREET		
9A. Location:	200S 260W	9B Map Location:	E-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.8 Min.	17. Longitude:	085 Deg. 26.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1977	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001341	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0046.0 Feet	49. Structure Length:	0117.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	030.0 Feet	52. Deck Width (o-o):	032.5 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00180

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-270 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-LT RANDOM CRACKS, SPALLS	6
59. Super:	REINFORCED CONCRETE SLAB	GOOD-LIGHT SPALLS	7
60. Sub:	CONCRETE	GOOD	7
61. Channel:	RIPRAP/EARTH/VEG	GOOD	7
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT - SETTLED, CRACKED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKING, SPALLS	7
68. Geometry:	TWO LANES	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	DRIVE SW, FIELD ENTRANCE SE, STRAIGHT, LEVEL	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00180

PROPOSED IMPROVEMENTS:

73. Year Needed: 2007
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
SCARIFY THE DECK AND PLACE AN OVERLAY. REPAVE THE APPROACHES.

76. Improvement Length: 000117 feet
94. Bridge Imp. Costs: \$ 30 X 1000
95. Rdwy. Imp. Costs: \$ 8 X 1000
96. Total Project Costs: \$ 38 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001770
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	07	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	35	years
E. Substructure:	35	years
F. Approach:	05	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. THE APPROACH IS ROUGH WITH POTHOLES AND PATCHING. THE WEARING SURFACE IS NOT TEXTURED AND HAS RANDOM CRACKS, DELAMINATION, AND SPALLING. THE DECK HAS MINOR SPALLS BELOW ALONG THE NORTH COPING.

Bridge No. 183



Looking South



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00183

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00183
8A. NBI Number:	1800150	8C. Old Bridge Number:	
5A. Inventory Route On:	151003230	5B. Rd. Number On:	0323
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	RD 300 W		
9A. Location:	65N 300W	9B Map Location:	D-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.0 Min.	17. Longitude:	085 Deg. 26.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1989	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	008306	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0050.0 Feet	49. Structure Length:	0057.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	029.0 Feet	52. Deck Width (o-o):	030.5 Feet
32. Approach Roadway Width:	029 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	29.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00183

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-280 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR LONGIT CRACKS	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD-SEEPAGE, MINOR LEACHING	8
60. Sub:	CONCRETE END BENTS	GOOD-NW WING UNDERMINED	7
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD, SETTLING	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1990
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKING, LEAKING JOINTS	7
68. Geometry:	TWO LANES - NARROW FOR ADT	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	HILL TO NORTH; INTERSECTION SOUTH END	5
36A. Traffic Safety Features:	1101 GOOD RAILING -NO APPROACH RAIL	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00183

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL END MARKERS. REPAIR THE UNDERMINED ENDBENT WING. WEDGE THE SOUTH APPROACH.

76. Improvement Length: 000057 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 4 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 010800
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	30	years
C. Joints:	04	years
D. Superstructure:	41	years
E. Substructure:	41	years
F. Approach:	10	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. THERE IS MINOR COLLISION DAMAGE TO THE EAST RAIL. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6".

Bridge No. 187



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00187

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00187
8A. NBI Number:	1800215	8C. Old Bridge Number:	
5A. Inventory Route On:	141000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BRANCH LITTLE NO NAME CR		
7. Facility Carried:	ROAD 300 W		
9A. Location:	425S 300W	9B Map Location:	E-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.9 Min.	17. Longitude:	085 Deg. 26.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	119E PRECAST CONCRETE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	08 Inches

AGE AND SERVICE:

27A. Year Built:	1999	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001221	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0020.4 Feet	49. Structure Length:	0023.0 Feet
50. Sidewalk/Curb Left:	00.0	Right:	00.0
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	35.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00187

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A	N/A	N/A
59. Super:	N/A	N/A	N/A
60. Sub:	N/A	N/A	N/A
61. Channel:	EARTH/VEGETATION	GOOD-STANDING WATER	8
62. Culv/Ret:	CONC ARCH	GOOD	8
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO DEFICIENCIES	8
68. Geometry:	TWO LANES - UNDERFILL	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	ROAD CURVES THROUGH STRUCTURE	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00187

PROPOSED IMPROVEMENTS:

73. Year Needed:
75. Type of Work:
Describe Item 75:

76. Improvement Length: 000023 feet
94. Bridge Imp. Costs: \$ X 1000
95. Rdwy. Imp. Costs: \$ X 1000
96. Total Project Costs: \$ X 1000
97. Year of Cost Estimate:
114. Future ADT: 001650
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: NA years
B. Deck: NA years
C. Joints: NA years
D. Superstructure: NA years
E. Substructure: NA years
F. Approach: 30 years
G. Channel: 30 years
H. Culvert: 50 years

Remarks:

THE STRUCTURE TYPE HAS BEEN CHANGED TO 119E TO REFLECT THAT THIS IS A PRECAST CONCRETE ARCH UNDERFILL.

Bridge No. 189



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00189

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00189
8A. NBI Number:	1800152	8C. Old Bridge Number:	
5A. Inventory Route On:	151001140	5B. Rd. Number On:	0114
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	FUSION ROAD		
9A. Location:	300S 60E	9B Map Location:	F-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.0 Min.	17. Longitude:	085 Deg. 22.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	3 Epoxy
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1993	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.5 Feet	49. Structure Length:	0088.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	028.0 Feet	52. Deck Width (o-o):	031.0 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00189

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-190 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR SPALLS, EFFLOR	7
59. Super:	REINFORCED CONCRETE SLAB	GOOD-MIN EFFLOR AT CONSTR JT	8
60. Sub:	CONCRETE ABUTS AND PIERS	GOOD-MINOR EFFLOR, CRACK	7
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-MINOR TRANSVERSE CRACKS	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 249
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR EFFLOR AT LONGITUDINAL CONSTR JOINT	7
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT;HILL EAST;DRIVE NE;FIELD ENTRANCE NW	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	K CONC. - STEEL REINFORCED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00189

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**CRACKSEAL THE CONSTRUCTION JOINT IN THE WEARING SURFACE AND AT THE END JOINTS.
CHIP OUT THE CONCRETE LEFT IN PLACE BETWEEN THE SOUTHEAST WING AND DECK.**

76. Improvement Length: 000088 feet
94. Bridge Imp. Costs: \$ 2 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001840
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	40	years
C. Joints:	05	years
D. Superstructure:	40	years
E. Substructure:	40	years
F. Approach:	15	years
G. Channel:	25	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. THERE IS MINOR EFFLORESCENCE AT THE CENTERLINE CONSTRUCTION JOINT BELOW. THERE ARE MINOR CRACKS NEAR THE BOTTOM OF SOME PILE ENCASEMENTS IN THE WEST INTERIOR BENT AND DETERIORATION BELOW THE WATERLINE. THE SOUTHEAST WINGWALL IS CRACKED AND EFFLORESCING; THERE IS NOT A PROPER JOINT BETWEEN THE DECK AND THE WING. THERE IS A MINOR HAIRLINE CRACK AT THE NORTH COPING OVER THE EAST INTERIOR BENT. THE SEAL AT THE END JOINTS HAS CRACKS. THERE IS A 2' X 2' SPALL IN THE WEARING SURFACE AT THE WEST END AT THE CENTERLINE.

Bridge No. 190



Looking North



Looking Westerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00190

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00190
8A. NBI Number:	1800202	8C. Old Bridge Number:	
5A. Inventory Route On:	151008570	5B. Rd. Number On:	0857
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	RD 200 W		
9A. Location:	385S 200W	9B Map Location:	E-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.2 Min.	17. Longitude:	085 Deg. 25.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1980	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000016	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	99A DEAD END ROAD		

GEOMETRIC DATA:

48. Maximum Span Length:	0010.0 Feet	49. Structure Length:	0021.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	012 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00190

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 3 ONE LANE BR
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	CONCRETE WINGWALLS	FAIR-HEAVY DEBRIS	5
62. Culv/Ret:	STEEL ARCH	FAIR-MINOR DEFLECTION	5
65. Approach Roadway:		POOR-ROUGH, NARROW, HOLE	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	POOR ASPHALT, END SLOPES FAILING, LOAD RATING	3
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE, DEBRIS AT INLETS	6
72. Roadway Alignment:	DRIVE SW, DEAD END TO FARM FIELDS, STRAIGHT	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00190

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
REPLACE THE ASPHALT SIDE SLOPES & WALLS WITH RIPRAP SLOPES. FILL HOLES WITH FLOWABLE MORTAR. INCREASE FILL OVER PIPES. PLACE RAILING-MAKE STRUCTURE ONE LANE.

76. Improvement Length: 000021 feet
94. Bridge Imp. Costs: \$ 10 X 1000
95. Rdwy. Imp. Costs: \$ 8 X 1000
96. Total Project Costs: \$ 18 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000040
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	02	years
G. Channel:	05	years
H. Culvert:	25	years

Remarks:

THE ROAD SURFACE IS NARROW AND ROUGH. THE ASPHALT EMBANKMENT IS COLLAPSING AND THE GUARDRAIL IS WHOLLY INADEQUATE. THE STEEL PLATE ARCH IS IN FAIR CONDITION WITH MINOR DEFLECTION AND HEAVY RUST AT THE WATERLINE. THERE ARE NO END MARKERS IN PLACE. DEBRIS IS ACCUMULATED AT THE INLETS. THE COUNTY SHOULD CONSIDER VACATING THE ROAD AND BRIDGE TO THE ADJACENT LANDOWNER.

Bridge No. 191



Looking East



Looking Southeasterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00191

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00191
8A. NBI Number:	1800154	8C. Old Bridge Number:	
5A. Inventory Route On:	141000240	5B. Rd. Number On:	0024
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	RD 400 S		
9A. Location:	400S 180W	9B Map Location:	E-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.1 Min.	17. Longitude:	085 Deg. 25.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM		
43C. Main Widening Type:	SB	45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1920	106A. Reconstructed:	1974
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	2 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0031.0 Feet	49. Structure Length:	0035.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.8 Feet	52. Deck Width (o-o):	025.3 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	45 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00191

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-7218 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	POOR-NOT CONTIGUOUS	3
59. Super:	STEEL BEAM	POOR-MODERATE TO HEAVY RUST	4
60. Sub:	CONCRETE	POOR-CRACKED,SPALLED,WIDENED	4
61. Channel:	EARTH/VEGETATION	FAIR-FLOWS AGAINST W ABUT	5
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPH-SETTLING,CRACKED,HOLES	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 218
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BMS RUSTED;ABUTS SPALLED;DECK NOT CONTIGUOUS	2
68. Geometry:	TWO LANES	4
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	INADEQUATE OPENING AND SKEW	5
72. Roadway Alignment:	SLIGHT HUMP; STRAIGHT	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00191

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000056 feet
94. Bridge Imp. Costs: \$ 140 X 1000
95. Rdwy. Imp. Costs: \$ 35 X 1000
96. Total Project Costs: \$ 175 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 002050
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	02	years
C. Joints:	NA	years
D. Superstructure:	02	years
E. Substructure:	04	years
F. Approach:	01	years
G. Channel:	03	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE HAS BEEN WIDENED APPROXIMATELY FOUR FEET WITH WHAT APPEAR TO BE OLD TRUSS END POSTS USED AS STEEL BEAMS ON BOTH SIDES. THE WOOD WINGWALLS HAVE COLLAPSED. THE BRIDGE RAILS ARE LOOSE. THERE IS NO APPARENT NO EVIDENCE THAT THE WIDENED DECK IS TIED TO THE OLD DECK; THE OLD DECK IS CANTILEVERED TWO FEET BEYOND THE BEAM AND IS UNDER THE OUTSIDE WHEEL LANE ON EACH SIDE OF THE BRIDGE. TWO END MARKERS ARE MISSING.

Bridge No. 192



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00192

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00192
8A. NBI Number:	1800155	8C. Old Bridge Number:	
5A. Inventory Route On:	151001790	5B. Rd. Number On:	0179
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	WALNUT STREET		
9A. Location:	245S 10E	9B Map Location:	F-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.4 Min.	17. Longitude:	085 Deg. 23.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:	PCBB	45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1940	106A. Reconstructed:	2001
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	03 Under: 00		
29A. ADT - Over:	004000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	06 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0040.0 Feet	49. Structure Length:	0086.0 Feet
50. Sidewalk/Curb Left:	01.5 Right: 01.5		
51. Bridge Roadway Width:	036.1 Feet	52. Deck Width (o-o):	039.1 Feet
32. Approach Roadway Width:	036 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	36.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00192

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-790 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-CRACKS	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD-CRACKS	8
60. Sub:	CONCRETE	GOOD-REPAIRED	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT & CONCRETE - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD	7
68. Geometry:	THREE LANES - SOMEWHAT NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE	7
72. Roadway Alignment:	DRIVES NW & SW; 2 LANES S.B.; 1 LANE N.B.	5
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00192

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD AN END MARKER AT THE NORTHWEST CORNER.

76. Improvement Length: 000086 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 007100
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	45	years
B. Deck:	45	years
C. Joints:	NA	years
D. Superstructure:	45	years
E. Substructure:	40	years
F. Approach:	30	years
G. Channel:	30	years
H. Culvert:	NA	years

Remarks:

TWO SETS OF BEAMS ON THE WEST SIDE WERE RETAINED; ALL OTHER WERE REPLACED IN 2001. THREE OF FOUR END MARKERS ARE IN PLACE. THE DECK HAS CRACKS OVER THE PIERS AND SOME LONGITUDINAL CRACKS THAT FOLLOW THE BEAM LINES. TWO BEAMS HAVE MINOR SPALLS BELOW: THE THIRD BEAM FROM THE WEST IN THE SOUTH SPAN AND THE EAST OUTSIDE BEAM IN THE NORTH SPAN. THE SOUTHBOUND RIGHT TURN LANE (INTO THE OLD K-MART) NARROWS AT THE SOUTH END. RIPRAP IS IN PLACE AT THE PIER AND ABUTMENTS. THE OLD PORTION OF THE SUBSTRUCTURE HAS NUMEROUS RANDOM CRACKS.

Bridge No. 193



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00193

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00193
8A. NBI Number:	1800156	8C. Old Bridge Number:	
5A. Inventory Route On:	151000400	5B. Rd. Number On:	0040
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	MEMORIAL DRIVE		
9A. Location:	110S 240E	9B Map Location:	G-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.7 Min.	17. Longitude:	085 Deg. 20.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1973	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	003000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0078.0 Feet	49. Structure Length:	0237.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	058.0 Feet	52. Deck Width (o-o):	062.9 Feet
32. Approach Roadway Width:	054 Feet	33. Bridge Median:	3 CLOSED/W. BARRIER
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	29.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00193**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-110** 104B. - Under:
 26A. Functional Class Over: **14 OTHER PRIN. ARTERIAL - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POTHLES & SPALLING	6
59. Super:	PRESTRESSED CONCRETE I-BMS	FAIR-BEAM ENDS SPALLED	6
60. Sub:	CONCRETE	GOOD-SEEPAGE AT ABUTMENTS	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED, LARGE VOIDS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKED, POTHLES	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DETERIORATED EXPANS JTS; BEAM ENDS SPALLED	6
68. Geometry:	FOUR LANES - SLIGHTLY NARROW FOR 4 LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	CURVE TO EAST; INTERSECTION EAST; DRIVE WEST	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00193

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

PLACE AN OVERLAY ON THE DECK. FILL IN VOIDS UNDER THE SLOPEWALLS AT THE CORNERS AND REDIRECT THE RUNOFF FROM THE BRIDGE ENDS. REPLACE THE JOINTS. REPLACE THE APPROACH SLABS. PATCH ALL SPALLED BEAMS AND THE GROUTED ENDS OF THE BEAMS OVER THE PIERS. REPAIR THE COPINGS. REPLACE THE DAMAGED BRIDGE RAIL POST. PLACE END MARKERS AT THE MEDIAN RAIL. PLACE LANE MARKINGS.

76. Improvement Length: 000237 feet

94. Bridge Imp. Costs: \$ 200 X 1000

95. Rdwy. Imp. Costs: \$ 50 X 1000

96. Total Project Costs: \$ 250 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 005550

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/17/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A

93. Crit. Feat. Insp. Date: A: B: 0303 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	15	years
C. Joints:	00	years
D. Superstructure:	23	years
E. Substructure:	30	years
F. Approach:	03	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE CORNERS ARE ERODED, RESULTING IN VOIDS UNDER THE SLOPEWALLS. THE BEAM ENDS ARE SPALLED WITH EXPOSED TENDONS. SEVERAL BEAMS REST AGAINST THE SEAT STEPS. SEVERAL DIAPHRAGMS ARE SPALLED. THE SOUTH BEAM AT THE EAST END IS HEAVILY SPALLED AT THE BOTTOM. ONE BRIDGE RAIL POST IS BENT, ANOTHER IS MISSING NUTS AT THE BASE. THE CONCRETE APPROACH PADS ARE SETTLED ABOUT 1-1/2" AT THE BRIDGE ENDS, MAKING FOR A ROUGH RIDE. THE ENDS OF THE MEDIAN RAIL APPEAR TO HAVE BEEN HIT SEVERAL TIMES. LANE MARKINGS, INCLUDING THE OUTSIDE YELLOW STRIPES, SHOULD BE PLACED THROUGH THE BRIDGE. DUE TO THE HIGH TRAFFIC, THE COUNTY SHOULD CONSIDER PLACING CONCRETE BRIDGE RAIL AT BOTH SIDES OF THE BRIDGE AND END ATTENUATORS AT THE MEDIAN RAIL.

Bridge No. 194



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00194

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00194
8A. NBI Number:	1800157	8C. Old Bridge Number:	
5A. Inventory Route On:	141000410	5B. Rd. Number On:	0041
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	RD 200 W		
9A. Location:	475S 200W	9B Map Location:	E-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.4 Min.	17. Longitude:	085 Deg. 25.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1960	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000250	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0010.0 Feet	49. Structure Length:	0022.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00194

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEGETATION	FAIR-SILTED SOUTH PIPE,DRIFT	5
62. Culv/Ret:	STEEL ARCH	POOR-SHORT; HEAVY RUST	4
65. Approach Roadway:		ASPH ENDWALLS BADLY ERODED	3

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 236
66A. Inventory Rating: 220 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT,POSTED "NARROW BRIDGE" SOUTHBOUND
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	POOR - ASPHALT SIDESLOPES/ENDWALLS	4
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SOUTH PIPE SILTED; INADEQUATE SKEW	4
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00194

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000022 feet
94. Bridge Imp. Costs: \$ 45 X 1000
95. Rdwy. Imp. Costs: \$ 12 X 1000
96. Total Project Costs: \$ 57 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000440
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	01	years
G. Channel:	03	years
H. Culvert:	03	years

Remarks:

THE GUARDRAIL IS INEFFECTIVE. TWO END MARKERS ARE MISSING. THERE IS RUST-THROUGH OF THE NORTH CULVERT AT THE WATERLINE. THERE ARE SHARP DROP-OFFS IN THE SHOULDER INSIDE THE RAIL. THE SLOPE-RETAINING SHEETING HAS FAILED. THE SHOULDERS ARE FAILING; THIS COULD AFFECT THE ROADWAY.

Bridge No. 195



Looking Northeasterly



Looking Southeasterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00195

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00195
8A. NBI Number:	1800203	8C. Old Bridge Number:	
5A. Inventory Route On:	151008550	5B. Rd. Number On:	0855
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	MADISON AVENUE		
9A. Location:	250S 20E	9B Map Location:	F-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 09.4 Min.	17. Longitude:	085 Deg. 23.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM		
43C. Main Widening Type:	302D	45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	8 Unknown	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1950	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	4 POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	005000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0068.0 Feet	49. Structure Length:	0071.0 Feet
50. Sidewalk/Curb Left:	01.5 Right: 01.5		
51. Bridge Roadway Width:	069.6 Feet	52. Deck Width (o-o):	076.7 Feet
32. Approach Roadway Width:	062 Feet	33. Bridge Median:	2 CLOSED/NO BARRIER
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	34.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00195

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-450 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS,CRACKS,PATCHING	6
59. Super:	STEEL BEAM	FAIR-HEAVY RUST ON BEARINGS	5
60. Sub:	CONCRETE	POOR-CRACKS,SPALLS AT SEATS	4
61. Channel:	EARTH/VEGETATION	FAIR-FLOWS AGAINST NE ABUT	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HVY RUST-BEARINGS,HVY SPALLING-ABUTMENT CAPS	4
68. Geometry:	FOUR LANES	8
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE; CHANNEL CURVES UPSTREAM	6
72. Roadway Alignment:	INTERSECTION SOUTH, STRAIGHT & LEVEL	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00195

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

CLEAN AND PAINT THE STEEL BEAMS. REBUILD THE ABUTMENT CAPS. REPLACE THE BEARINGS. INSTALL END MARKERS. REPLACE THE JOINTS. SCARIFY AND OVERLAY THE DECK. RIPRAP THE ABUTMENTS.

76. Improvement Length: 000071 feet

94. Bridge Imp. Costs: \$ 110 X 1000

95. Rdwy. Imp. Costs: \$ 1 X 1000

96. Total Project Costs: \$ 111 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 009150

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	15	years
C. Joints:	00	years
D. Superstructure:	13	years
E. Substructure:	01	years
F. Approach:	10	years
G. Channel:	12	years
H. Culvert:	NA	years

Remarks:

THE CENTER CURB IS SPALLED. THERE ARE HEAVY SPALLS ON THE DECK. PADS ARE LOOSE ON THE WEST EXPANSION JOINT. THE ABUTMENT CAPS ARE SERIOUSLY DETERIORATED AT THE BEAM SEATS. MANY OF THE BEAMS HAVE HEAVY RUST AND DELAMINATION AT THE ENDS. THE BRIDGE APPEARS TO HAVE BEEN WIDENED AT SOME POINT - THERE ARE DIFFERENT ROCKER BEARINGS AND BOLTED CONNECTIONS INSTEAD OF RIVETED CONNECTIONS IN THE NORTH THIRD OF THE BRIDGE.

Bridge No. 196



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00196

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00196
8A. NBI Number:	1800519	8C. Old Bridge Number:	
5A. Inventory Route On:	141000410	5B. Rd. Number On:	0041
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	RD 200 W		
9A. Location:	430S 200W	9B Map Location:	E-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.9 Min.	17. Longitude:	085 Deg. 25.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1960	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000250	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0010.0 Feet	49. Structure Length:	0020.3 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00196

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N Ft.

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEGETATION	FAIR-SILTING	5
62. Culv/Ret:	STEEL ARCH	FAIR-LIGHT RUST	6
65. Approach Roadway:		ASPHALT-POOR-ERODED	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 236
66A. Inventory Rating: 220 64B. Year of Rating: 2005
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HEADWALLS FAILED. FILL ERODED	5
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SOMEWHAT INADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00196

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
EXTEND THE PIPES IN BOTH DIRECTIONS. WIDEN AND RIPRAP THE SHOULDERS. REPLACE THE GUARDRAIL. INSTALL END MARKERS.

76. Improvement Length: 000020 feet
94. Bridge Imp. Costs: \$ 30 X 1000
95. Rdwy. Imp. Costs: \$ 20 X 1000
96. Total Project Costs: \$ 50 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000440
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	02	years
G. Channel:	02	years
H. Culvert:	12	years

Remarks:

THIS STRUCTURE WAS FOUND TO BE LONGER THAN 20' AND THEREFORE WAS ADDED TO THE INVENTORY. THE SHEETING USED FOR THE HEADWALLS HAS FAILED - CONSEQUENTLY, THE SHOULDERS ARE HEAVILY ERODED. A HOLE HAS DEVELOPED IN THE PAVEMENT. THERE ARE SIGNIFICANT DROP-OFFS IN FRONT OF THE GUARDRAIL. ONE END MARKER IS IN PLACE.

Bridge No. 197



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00197

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00197
8A. NBI Number:	1800158	8C. Old Bridge Number:	
5A. Inventory Route On:	141000040	5B. Rd. Number On:	0004
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	RD 800 S		
9A. Location:	800S 120E	9B Map Location:	G-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 04.6 Min.	17. Longitude:	085 Deg. 21.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1989	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0076.0 Feet	49. Structure Length:	0080.6 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00197

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-POPOUTS,HAIRLINE CRACK	8
59. Super:	PRESTRESSED CONC I-BEAMS	GOOD	8
60. Sub:	CONCRETE INTEGRAL ENDBENTS	GOOD-VERY MINOR CRACKS	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH & CONC - GOOD, POPOUTS	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1990
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 POSTED "NO PASSING ZONE", "NO PARKING"
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO DEFICIENCIES	8
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	HILL EAST AND WEST, STRAIGHT	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00197

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD TWO END MARKERS.

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000620
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	45	years
C. Joints:	10	years
D. Superstructure:	45	years
E. Substructure:	45	years
F. Approach:	18	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THE DECK WAS FORMED WITH PERMANENT PRECAST CONCRETE FORMS. THE RAIL REFLECTORS ARE MISSING. THERE IS A POTHOLE IN THE WEST ASPHALT APPROACH. THE TYPE 1A JOINTS ARE LOOSE AT THE WEST END. THERE ARE LONGITUDINAL HAIRLINE CRACKS IN THE TOP OF THE DECK AT THE ENDS.

Bridge No. 198



Looking East



Looking Southerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00198

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00198
8A. NBI Number:	1800159	8C. Old Bridge Number:	
5A. Inventory Route On:	141001060	5B. Rd. Number On:	0106
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	RD 578 S		
9A. Location:	578S 90E	9B Map Location:	F-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.3 Min.	17. Longitude:	085 Deg. 21.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1963	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0039.0 Feet	49. Structure Length:	0099.4 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	021.1 Feet	52. Deck Width (o-o):	024.2 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	21.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00198**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **09 LOCAL - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-LT POPOUTS; OPEN EXP JT	6
59. Super:	PRESTRESSED I-BEAMS	GOOD	7
60. Sub:	CONCRETE	GOOD-DEBRIS ON CAPS, SEEPAGE	7
61. Channel:	CONCRETE SLOPEWALL	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SETTLED, POTHOLE	4

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **244**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OPEN EXPANSION JTS AT PIERS; MINOR DAMAGE	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SOMEWHAT INADEQUATE-FLOTSAM ON PIER CAPS	6
72. Roadway Alignment:	HILL TO EAST, FIELD ENTRANCE NORTHEAST	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00198

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
CLEAN AND SEAL THE DECK. INSTALL JOINT MATERIAL. INSTALL APPROACH RAIL AND CURB TRANSITIONS. RESURFACE THE APPROACH. REPAIR RAIL DAMAGE AND SPALLS AT THE NORTH COPING. REPAIR UNDERMINING. REPAIR THE SOUTHEAST CORNER.

76. Improvement Length: 000099 feet
94. Bridge Imp. Costs: \$ 11 X 1000
95. Rdwy. Imp. Costs: \$ 11 X 1000
96. Total Project Costs: \$ 22 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000360
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	23	years
C. Joints:	00	years
D. Superstructure:	23	years
E. Substructure:	23	years
F. Approach:	01	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THERE IS IMPACT DAMAGE AT THE NORTHEAST CURB. TWO END MARKERS ARE MISSING; THE FACING ON THE NORTHEAST END MARKER IS FAILED. THE SOUTHEAST CORNER IS DAMAGED AT THE BOTTOM OF THE COPING. THE SHOULDERS ARE ERODED. THE SLOPEWALLS ARE UNDERMINED. THE CURBS POSE CRASH HAZARDS. THERE IS IMPACT DAMAGE TO THE NORTH RAIL AND AT TWO CONNECTIONS.

Bridge No. 199



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00199

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00199
8A. NBI Number:	1800199	8C. Old Bridge Number:	
5A. Inventory Route On:	141000020	5B. Rd. Number On:	0002
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MACEDONIA CREEK		
7. Facility Carried:	RD 700 S		
9A. Location:	700S 150E	9B Map Location:	G-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 05.5 Min.	17. Longitude:	085 Deg. 21.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1975	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000832	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0026.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	60 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	20.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00199

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-6218 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEGETATION	FAIR	5
62. Culv/Ret:	STEEL ARCH	POOR-PIPE IS SEPARATING	4
65. Approach Roadway:		ASPHALT - FAIR	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PIPE SEAMS SEPARATED; LOAD RATING	2
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE; RESTRICTIVE FENCE	5
72. Roadway Alignment:	HILL TO EAST AND WEST, STRAIGHT	5
36A. Traffic Safety Features:	0000B UNACCEPTABLE/NON-EXISTENT	
36B Bridge Rail Type:	N NO RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00199

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000026 feet
94. Bridge Imp. Costs: \$ 60 X 1000
95. Rdwy. Imp. Costs: \$ 25 X 1000
96. Total Project Costs: \$ 85 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001440
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	08	years
G. Channel:	05	years
H. Culvert:	04	years

Remarks:

THE PIPE JOINTS ARE OPEN AND DAMAGED. THE PIPE IS SEPARATING AT THE JOINTS. AN ELECTRIC FENCE AND FIELD FENCE ARE ERECTED AT THE SOUTH END. TWO OF FOUR END MARKERS ARE IN PLACE. GUARDRAIL IS NEEDED DUE TO THE STEEP SIDE BANKS.

Bridge No. 200



Looking West



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00200

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00200
8A. NBI Number:	1800161	8C. Old Bridge Number:	
5A. Inventory Route On:	141000020	5B. Rd. Number On:	0002
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	RD 700 S		
9A. Location:	700S 120E	9B Map Location:	G-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 05.5 Min.	17. Longitude:	085 Deg. 21.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	606 CONTINUOUS PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000832	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0035.0 Feet	49. Structure Length:	0096.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	030.1 Feet	52. Deck Width (o-o):	032.7 Feet
32. Approach Roadway Width:	030 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00200

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-6218 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR LEACHING	8
59. Super:	PRESTRESS BOX BM (SPREAD)	GOOD	8
60. Sub:	CONCRETE	GOOD-HAIRLINE CRACKS	7
61. Channel:	RIPRAP	GOOD-SOME SILTING	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH&CONC-MIN CRKS, SETTLED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES-HAIRLINE CRACKS	7
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STEEP SHOULDER, HILL TO E, DRIVE NE, STRAIGHT	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00200

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD END MARKERS.

76. Improvement Length: 000096 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001430
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	16	years
B. Deck:	40	years
C. Joints:	06	years
D. Superstructure:	40	years
E. Substructure:	40	years
F. Approach:	12	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THE JOINT MATERIAL IS BEGINNING TO SEPARATE FROM THE CONCRETE AND IS DETERIORATING SLIGHTLY. POTHOLES ARE PRESENT IN THE EAST ASPHALT APPROACH. THE CONCRETE APPROACH PADS ARE CRACKED LONGITUDINALLY, THE PILE ENCASEMENTS HAVE HAIRLINE CRACKS. THERE ARE HAIRLINE CRACKS AND MINOR EFFLORESCENCE IN THE BOTTOM OF THE DECK IN THE EAST SPAN.

Bridge No. 201



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00201

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00201
8A. NBI Number:	1800162	8C. Old Bridge Number:	
5A. Inventory Route On:	141000020	5B. Rd. Number On:	0002
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	RD 700 S		
9A. Location:	700S 245W	9B Map Location:	E-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 05.5 Min.	17. Longitude:	085 Deg. 25.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	7 Timber	108D. Thickness of Asph:	Inches
108C. Protection:	N Not Applicable		

AGE AND SERVICE:

27A. Year Built:	2002	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000350	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	05 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0032.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	031.8 Feet
51. Bridge Roadway Width:	030.4 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	031 Feet	35. Structure Flared:	0 NO
34. Skew:	10 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	30.4 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00201

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-6218 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER	GOOD-WEARING SURFACE CRACKED	8
59. Super:	TIMBER SLAB	GOOD-TREATMENT FAILED	7
60. Sub:	TIMBER PILES	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT-SHOULDERS SETTLED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 2003
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD-NO SIGNIFICANT DEFICIENCIES	7
68. Geometry:	TWO LANES	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, DIP AT BRIDGE (NOT YET PAVED)	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00201

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD END MARKERS.

76. Improvement Length: 000032 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000620
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	25	years
C. Joints:	NA	years
D. Superstructure:	25	years
E. Substructure:	25	years
F. Approach:	01	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TIMBER RAILS ARE HIGH AND NOT STANDARD. ONE TIMBER IS SPLIT AT THE SOUTHWEST WINGWALL. AFTER ONLY THREE YEARS, MANY OF THE TIMBERS HAVE LOST THE DARK COLOR OF THE WOOD TREATMENT TYPICALLY FOUND IN BRIDGES OF THIS TYPE. THE APPROACH SHOULDERS ARE SLIGHTLY SETTLED AT THE BRIDGE CORNERS. THE WEARING SURFACE IS CRACKED AT THE SLAB JOINTS.

Bridge No. 202



Looking East



Looking Southeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00202

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00202
8A. NBI Number:	1800163	8C. Old Bridge Number:	
5A. Inventory Route On:	141000180	5B. Rd. Number On:	0018
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	RD 500 S		
9A. Location:	500S 180W	9B Map Location:	E-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.2 Min.	17. Longitude:	085 Deg. 25.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1966	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0052.0 Feet	49. Structure Length:	0054.7 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	022.5 Feet	52. Deck Width (o-o):	024.1 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00202

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-SOME WEAR	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-SEEPAGE AT DRAINS	7
60. Sub:	CONCRETE	GOOD	7
61. Channel:	CONCRETE SLOPEWALL	GOOD-CRACKED	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		HIGHER THAN BR DECK	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD-SEEPAGE AT DRAINS	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00202

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

INSTALL OR RESET APPROACH RAILS AND END TREATMENTS AT ALL CORNERS. INSTALL THREE END MARKERS. PLACE BLOCKOUTS BETWEEN BRIDGE RAIL AND POSTS. RAISE THE BRIDGE RAILS.

76. Improvement Length: 000054 feet

94. Bridge Imp. Costs: \$ 2 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 12 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000540

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 08 years

B. Deck: 26 years

C. Joints: NA years

D. Superstructure: 26 years

E. Substructure: 26 years

F. Approach: 06 years

G. Channel: 26 years

H. Culvert: NA years

Remarks:

THE CHANNEL FLOWS AGAINST THE WEST SLOPEWALL. THE SLOPEWALLS ARE UNDERCUT. THE BRIDGE PROFILE IS LOWER THAN THE APPROACHES (2"-3"). THE SOUTH APPROACH RAILS ARE TOO LOW. THE CURBS POSE CRASH HAZARDS.

Bridge No. 204



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00204

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00204
8A. NBI Number:	1800164	8C. Old Bridge Number:	
5A. Inventory Route On:	141000410	5B. Rd. Number On:	0041
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	WILLIAMS CREEK		
7. Facility Carried:	RD 200 W		
9A. Location:	790S 200W	9B Map Location:	E-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 04.6 Min.	17. Longitude:	085 Deg. 25.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302A ENCASED STEEL BEAM (I-BEAMS)		
43C. Main Widening Type:	SB	45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	06 Inches

AGE AND SERVICE:

27A. Year Built:	1930	106A. Reconstructed:	1975
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	4 POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000211	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0036.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	023.0 Feet	52. Deck Width (o-o):	024.2 Feet
32. Approach Roadway Width:	016 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00204

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	POOR-ROUGH	4
59. Super:	STEEL BMS(ENC)& R.C.GIRDER	POOR-CONC SPALLS, EXPOSED STL	2
60. Sub:	CONCRETE	POOR-UNDERCUT AND SCoured SW	3
61. Channel:	EARTH/VEGETATION	FAIR-FLOW AGAINST ABUTMENTS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-ROUGH, ERODING SE	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 210
66A. Inventory Rating: 208 64B. Year of Rating: 2001
66B. Gross Tons or H Rating: 08
70. Bridge Posting: 3 8 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 08 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CONC SPALLED EXP STL BMS & REINF; EXCESS DEFL	2
68. Geometry:	TWO LANES - NARROW FOR A.D.T	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE	5
72. Roadway Alignment:	POOR HORIZONTAL AND VERTICAL ALIGNMENT	4
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	I COMBINATIONS	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00204

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000056 feet
94. Bridge Imp. Costs: \$ 120 X 1000
95. Rdwy. Imp. Costs: \$ 30 X 1000
96. Total Project Costs: \$ 150 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000360
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y12 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0305 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	03	years
C. Joints:	NA	years
D. Superstructure:	01	years
E. Substructure:	03	years
F. Approach:	02	years
G. Channel:	04	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE HAS BEEN WIDENED EIGHT FEET ON THE EAST SIDE WITH STEEL BEAMS; THESE BEAMS ARE HEAVILY RUSTED. THE CRITICAL FEATURE INSPECTION IS FOR THE OUTSIDE REINFORCED CONCRETE BEAMS ON THE WEST SIDE; THIS BEAM IS VERY DETERIORATED. THE RAIL IS INADEQUATE DUE TO DETERIORATION AND POST SPACING. THE SOUTHEAST WING IS FAILING. A LARGE TREE LIMB IS LODGED UNDER THE BRIDGE. THE SOUTH ABUTMENT IS HEAVILY DETERIORATED AT THE WATERLINE.

Bridge No. 205



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00205

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00205
8A. NBI Number:	1800165	8C. Old Bridge Number:	
5A. Inventory Route On:	141001870	5B. Rd. Number On:	0187
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	RD 100 W		
9A. Location:	520S 100W	9B Map Location:	E-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.1 Min.	17. Longitude:	085 Deg. 24.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001030	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0039.0 Feet	49. Structure Length:	0041.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	027.8 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00205

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS, CRACKED	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD	7
60. Sub:	CONCRETE	FAIR-ENDBENTS UNDERMINED	6
61. Channel:	RIPRAP/OLD ABUT	POOR-ERODED NORTH	4
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-POTHoles, SETTLEMENT	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 243
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PILES EXPOSED & END BENT UNDERCUT	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE - RESTRICTIVE FENCE EAST	6
72. Roadway Alignment:	STRAIGHT AND LEVEL, DRIVE NORTHEAST	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00205

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
UNDERPIN ENDBENTS AND PLACE RIPRAP AT THE ENDBENTS. INSTALL APPROACH RAIL, END TREATMENTS AND CURB TRANSITIONS.

76. Improvement Length: 000041 feet
94. Bridge Imp. Costs: \$ 10 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 20 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001770
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	18	years
C. Joints:	NA	years
D. Superstructure:	20	years
E. Substructure:	20	years
F. Approach:	07	years
G. Channel:	01	years
H. Culvert:	NA	years

Remarks:

THE ENDBENTS ARE UNDERMINED; PILES ARE EXPOSED AT THE NORTH END. THERE IS APPARENT FILL LOSS BEHIND THE BENT CAPS; POTHOLES HAVE DEVELOPED AND HAVE BEEN PATCHED. THE ENDS OF THE CURBS AND BRIDGE RAILS ARE EXPOSED TO TRAFFIC.

Bridge No. 207



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00207

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00207
8A. NBI Number:	1800167	8C. Old Bridge Number:	
5A. Inventory Route On:	141000270	5B. Rd. Number On:	0027
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	LTL BUCK CREEK		
7. Facility Carried:	OLD STATE ROAD 3		
9A. Location:	790S 50E	9B Map Location:	F-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 04.6 Min.	17. Longitude:	085 Deg. 22.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1980	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0013.0 Feet	49. Structure Length:	0029.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	40.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00207

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEGETATION	POOR-EROSION AT WEST END	4
62. Culv/Ret:	STEEL ARCH	POOR-PIPES DEFLECT, DEFORMED	4
65. Approach Roadway:		ASPHALT - FAIR, ROUGH	7

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PIPES DEFL, OPEN SEAMS, EROSION, LOAD RATING	2
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING, HEAVY SILTING SOUTH	5
72. Roadway Alignment:	NO GUARDRAIL; DRIVE SW; HORIZ CURVE TO NORTH	5
36A. Traffic Safety Features:	0000B UNACCEPTABLE/NON-EXISTENT	
36B Bridge Rail Type:	N NO RAILING	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00207

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT

76. Improvement Length: 000030 feet
94. Bridge Imp. Costs: \$ 75 X 1000
95. Rdwy. Imp. Costs: \$ 30 X 1000
96. Total Project Costs: \$ 105 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000440
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	10	years
G. Channel:	04	years
H. Culvert:	04	years

Remarks:

THERE IS INSUFFICIENT COVER FOR H-20 LOADING. THE CONCRETE SLOPE PROTECTION IS HEAVILY UNDERMINED. TWO OF FOUR END MARKERS ARE MISSING. DEBRIS LIES AT THE INLET. THE WEST SLOPE IS RIPRAPPED. THERE IS SEPARATION AT SOME OF THE PLATE JOINTS. THERE IS HEAVY SEDIMENT IN THE SOUTH PIPE.

Bridge No. 209



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00209

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00209
8A. NBI Number:	1800168	8C. Old Bridge Number:	
5A. Inventory Route On:	141000240	5B. Rd. Number On:	0024
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	RD 400 S		
9A. Location:	400S 75E	9B Map Location:	F-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.1 Min.	17. Longitude:	085 Deg. 22.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0028.0 Feet	49. Structure Length:	0072.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	027.8 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00209**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 S-7218** 104B. - Under:
 26A. Functional Class Over: **07 MAJOR COLLECTOR - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-LT POPOUTS & CRACKS	7
59. Super:	REINFORCED CONCRETE SLAB	GOOD-MIN CRACKING & LEACHING	7
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	FAIR-W ABUT UNDERMINED	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-TRANSV CRACKS; SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating: **1992**
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE AT DRAINS; WEST ABUT PILES EXPOSED	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, INTERSECTION SOUTHEAST	6
36A. Traffic Safety Features:	1110 GOOD RAILING - NO TERMINAL END	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00209

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

INSTALL THREE END MARKERS. INSTALL END TREATMENTS AT THE SOUTHEAST AND NORTHWEST CORNERS. ADD TRANSITION POSTS AT EACH CORNER. UNDERPIN THE WEST ENDBENT AND ADD RIPRAP. RAISE THE GAS LINE ABOVE THE BOTTOM OF THE COPING. REPAIR THE CURBS.

76. Improvement Length: 000072 feet

94. Bridge Imp. Costs: \$ 6 X 1000

95. Rdwy. Imp. Costs: \$ 4 X 1000

96. Total Project Costs: \$ 10 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000950

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	25	years
C. Joints:	NA	years
D. Superstructure:	25	years
E. Substructure:	25	years
F. Approach:	08	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. THE GAS PIPE AT THE NORTH COPING IS SAGGING AND IS NOT FULLY ATTACHED. THE FLUME CURBS AT THE EAST END ARE BROKEN, NOT ALLOWING WATER TO DRAIN TO THE FLUMES AND CAUSING EROSION NEXT TO THE BRIDGE AT THE NORTHEAST CORNER. THERE IS A NARROW LONGITUDINAL CRACK THE LENGTH OF THE BRIDGE TWO FEET SOUTH OF THE CENTERLINE ABOVE AND BELOW. THERE ARE TWO AREAS OF MINOR SPALLING BELOW. THERE ARE OTHER RANDOM HAIRLINE CRACKS ABOVE AND BELOW. THE EAST ENDBENT HAS BEEN UNDERPINNED. ADDITIONAL POSTS ARE NEEDED AT THE RAIL TRANSITIONS. THE WEARING SURFACE IS NOT TEXTURED.

Bridge No. 210



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00210

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00210
8A. NBI Number:	1800169	8C. Old Bridge Number:	
5A. Inventory Route On:	141000500	5B. Rd. Number On:	0050
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 100 N		
9A. Location:	100N 610E	9B Map Location:	J-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.5 Min.	17. Longitude:	085 Deg. 16.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000500	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0025.0 Feet	49. Structure Length:	0026.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.3 Feet
51. Bridge Roadway Width:	026.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	022 Feet	35. Structure Flared:	0 NO
34. Skew:	25 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	26.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00210

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR	6
59. Super:	TIMBER	GOOD-SEEPAGE	7
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKS, SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 252
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE	7
68. Geometry:	TWO LANES - SOMEWHAT NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00210

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPLACE ALL ROTTED RAIL POSTS. TIGHTEN THE BOLT AT THE BOTTOM END OF THE GUARDRAIL POST ON THE SOUTH COPING.

76. Improvement Length: 000026 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 4 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000940
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	10	years
C. Joints:	NA	years
D. Superstructure:	10	years
E. Substructure:	10	years
F. Approach:	08	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. SEVERAL APPROACH RAIL POSTS ARE ROTTED. THE NORTHEAST END MARKER HAS NO FACING. THE NORTHWEST END MARKER IS TWISTED.

Bridge No. 213



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00213

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00213
8A. NBI Number:	1800170	8C. Old Bridge Number:	
5A. Inventory Route On:	151000390	5B. Rd. Number On:	0039
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	RD 325 W		
9A. Location:	340S 325W	9B Map Location:	D-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.6 Min.	17. Longitude:	085 Deg. 26.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1938	106A. Reconstructed:	1984
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000213	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0031.0 Feet	49. Structure Length:	0033.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	021.9 Feet	52. Deck Width (o-o):	022.5 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	21.9 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00213

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD	7
59. Super:	PRESTRESSED BOX BEAMS	FAIR-LIGHT SEEPAGE, CRACKS	6
60. Sub:	CONCRETE	FAIR-NORTH ABUTMENT SPALLING	6
61. Channel:	RIPRAP/NATURAL	FAIR-FLOW AGAINST ABUTMENTS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OLD ABUTS-SPALLED, N ABUT CRK'D, BEAM CRACKS	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING;STREAM FORKS JUST UPSTREAM	5
72. Roadway Alignment:	HUMP OVER BRIDGE, INTERSECTION SOUTH	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00213

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE NORTHEAST WINGWALL. REPAIR SPALLING IN THE NORTH ABUTMENT. RIPRAP THE CHANNEL. INSTALL THREE END MARKERS. POST NARROW BRIDGE SIGNS. ADD APPROACH RAIL POSTS AT EACH CORNER. REMOUNT THE RAIL.

76. Improvement Length: 000033 feet
94. Bridge Imp. Costs: \$ 12 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 15 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000330
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	15	years
C. Joints:	NA	years
D. Superstructure:	15	years
E. Substructure:	13	years
F. Approach:	10	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE IN PLACE, ONE IS LEANING. THE NORTH ABUTMENT IS SPALLED ALONG THE TOP, ESPECIALLY AT THE EAST END. THE NORTHEAST WING IS FAILING. THE EAST OUTSIDE BEAM HAS A SIX-FOOT LONG HORIZONTAL CRACK AT THE COPING. THE WEST OUTSIDE BEAM HAS CRACKS BELOW AT THE NORTHWEST CORNER. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6". AT SEVERAL LOCATIONS, THE TOP OF THE RAIL IS ABOVE THE TOP OF THE POST. ON THE BRIDGE RAIL, THE TOP OF THE RAIL IS ABOVE THE SPACERS. SEVERAL RAIL CONNECTION AND SPLICE BOLTS ARE MISSING. ONE FOOT OF THE SOUTH ABUTMENT FOOTING IS EXPOSED.

Bridge No. 224



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00224

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00224
8A. NBI Number:	1800171	8C. Old Bridge Number:	
5A. Inventory Route On:	151002510	5B. Rd. Number On:	0251
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	CONRAIL RAILROAD		
7. Facility Carried:	RD 475 E		
9A. Location:	20S 475E	9B Map Location:	H-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.4 Min.	17. Longitude:	085 Deg. 17.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1969	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	12 HWY./RR		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000407	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0048.0 Feet	49. Structure Length:	0147.0 Feet
50. Sidewalk/Curb Left:	01.0 Right: 01.0		
51. Bridge Roadway Width:	027.5 Feet	52. Deck Width (o-o):	031.5 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.5 Feet		
47C. Total Hor. Clr. - Under:	45.0 Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	21 ' 07 "
55B. Lateral Right:	12.7 Feet	54A. Type: RAILROAD	55A. Type: RAILROAD
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00224

NAVIGATION DATA:

38. Navigational Control: **N N/A-NO WATERWAY** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 M-120** 104B. - Under:
26A. Functional Class Over: **17 COLLECTOR - URBAN**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	MODIFIED PCC CONCRETE	GOOD-RANDOM CRACKING,PUDDLES	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD	8
60. Sub:	CONCRETE	GOOD-DEBRIS ON CAPS-MOISTURE	7
61. Channel:	N/A		N/A
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD - SE SHOULDER DROPS 8"	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **245**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SOME CRACKS IN PIER CAP, CRACKS IN W.S.	7
68. Geometry:	SOMEWHAT NARROW, POOR SIGHT DISTANCE	5
69. Underclearance:	BETTER THAN MINIMUM CRITERIA	5
71. Waterway Adequacy:	N/A	N/A
72. Roadway Alignment:	POOR SIGHT DISTANCE. INTERSECTION BOTH ENDS	6
36A. Traffic Safety Features:	1011 GOOD RAILING - NO TRANSITION	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	N N/A	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00224

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**CLEAN AND SEAL THE PIER CAPS (POSSIBLE BIO-HAZARD FROM PIGEON DROPPINGS).
REPLACE THE JOINT MATERIAL, ADD MATERIAL AT THE CURBS. PLACE FILL AT THE
SHOULDERS. UPGRADE THE RAIL TRANSITIONS, INCLUDING ADDITIONAL POSTS AT EACH
CORNER AND TRANSITIONS FROM ALUMINUM TO CONCRETE RAIL.**

76. Improvement Length: 000147 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 5 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000550
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	20	years
C. Joints:	01	years
D. Superstructure:	28	years
E. Substructure:	27	years
F. Approach:	12	years
G. Channel:	NA	years
H. Culvert:	NA	years

Remarks:

**THERE ARE NUMEROUS RANDOM HAIRLINE TO MEDIUM WIDTH CRACKS IN THE WEARING
SURFACE. THE DECK HAS A FEW LONGITUDINAL HAIRLINE CRACKS WITH LIGHT
EFFLORESCENCE BELOW. THE NORTH INTERIOR BENT CAP IS CRACKED AT THE BOTTOM.
THE SOUTHEAST AND NORTHEAST APPROACH RAILS HAVE SOME MODERATE DAMAGE. TWO
OF FOUR END MARKERS ARE IN PLACE.**

Bridge No. 226



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00226

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00226
8A. NBI Number:	1800172	8C. Old Bridge Number:	
5A. Inventory Route On:	141002450	5B. Rd. Number On:	0245
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	RELIEF		
7. Facility Carried:	RD 450 E		
9A. Location:	665S 450E	9B Map Location:	H-1
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 05.8 Min.	17. Longitude:	085 Deg. 18.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	702A TIMBER BEAM	45. No. of Spans - Main:	007
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	108B. Membrane:	0 None
107. Deck Structure Type:	8 TIMBER	108D. Thickness of Asph:	01 Inches
108A. Wearing Surface:	6 Bituminous		
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1920	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	10 HWY./OTHER		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000314	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0028.0 Feet	49. Structure Length:	0135.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0	52. Deck Width (o-o):	020.0 Feet
51. Bridge Roadway Width:	019.6 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	017 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	19.6 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00226

NAVIGATION DATA:

38. Navigational Control: **N N/A-NO WATERWAY** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-SOME DEEP SCUFFING	6
59. Super:	TIMBER	POOR-ROTTING & SPLITTING	3
60. Sub:	TIMBER BENTS & CONC FTGS	POOR-ROT, SPLITTING	3
61. Channel:	N/A		N/A
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLING	5

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
64A. Operating Rating: **208**
66A. Inventory Rating: **205** 64B. Year of Rating:
66B. Gross Tons or H Rating: **05**
70. Bridge Posting: **2 5 TON LIMIT, NARROW BRIDGE**
41. Open, Posted, or Closed: **P POSTED FOR LOAD**
66C. Tons Posted: **05** 66D. Date Posted/Closed: **07 / 03**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	LOW LOAD LIMIT, ROTTING AND SPLITTING	2
68. Geometry:	NARROW WIDTH & POOR VERTICAL ALIGNMENT	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	N/A	N/A
72. Roadway Alignment:	INADEQ GUARDRAIL; POOR VERT & HORIZ ALIGNMENT	2
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	N N/A	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00226

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT. MEANWHILE, MONITOR THE SPLIT MIDDLE BEAM IN THE MIDDLE SPAN AND THE VERTICAL BENT FRAME MEMBER FOR FAILURE. ADD END MARKERS.

76. Improvement Length: 000135 feet
94. Bridge Imp. Costs: \$ 290 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 340 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000520
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y06 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0405 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	08	years
C. Joints:	NA	years
D. Superstructure:	06	years
E. Substructure:	02	years
F. Approach:	02	years
G. Channel:	NA	years
H. Culvert:	NA	years

Remarks:

THERE ARE ROTTED TIMBER FOOTING MEMBERS AT THE ENDBENTS. THERE IS SOME APPARENT SETTLING OF THE NORTH ENDBENT, POSSIBLY DUE TO ROT IN TIMBERS BELOW GRADE. ONE BEAM UNDER THE WHEEL LANE IN THE MAIN SPAN IS SPLIT AT THE TOP (4" TO 5" FROM THE EDGE) AND BOTTOM (1-1/2" TO 2" FROM THE EDGE); THE DECK TIMBERS DEFLECT WITH TRAFFIC LOAD AT THIS LOCATION. THE VERTICAL TIMBER AT THE NORTHEAST CORNER OF THE SOUTH BENT FRAME HAS AN EXCEPTIONALLY WIDE CHECK. SEVERAL DIAGONAL BRACES ARE SPLIT AT THE ENDS AT THE BOLTED CONNECTION. THERE IS AN ABRUPT GRADE CHANGE AT THE CREST OF THE BRIDGE AND DEFLECTION OF THE DECK TIMBERS IS NOTICEABLE UNDER TRAFFIC. FIBER OPTIC CABLES ARE BURIED UNDER THE BRIDGE. A BIKE PATH CROSSES UNDER THE BRIDGE. TWO END MARKERS ARE IN PLACE. THE ASPHALT WEARING SURFACE THICKNESS WAS FOUND TO LESS THAN ONE INCH.

Bridge No. 244



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00244

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00244
8A. NBI Number:	1800173	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	MUNCIE CREEK		
7. Facility Carried:	INDIANA AVENUE		
9A. Location:	260N 135E	9B Map Location:	G-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.7 Min.	17. Longitude:	085 Deg. 21.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302G COMPOSITE STEEL BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1940	106A. Reconstructed:	1987
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	3 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0032.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	023.6 Feet	52. Deck Width (o-o):	024.1 Feet
32. Approach Roadway Width:	016 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.6 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00244

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE OVER CORRUG METAL	GOOD-MINOR CRACKS, RUST	7
59. Super:	STEEL BEAMS	FAIR-RUST; CORROSION AT ENDS	5
60. Sub:	CONCRETE	FAIR-SPALLING UNDER E BEAMS	5
61. Channel:	NATURAL	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-FAIR-SETTLING	7

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 237
66A. Inventory Rating: 229 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT. POSTED "NARROW BRIDGE" EASTBOUND
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HEAVY RUST, SPALLING AT BEARINGS, SEEPAGE	5
68. Geometry:	TWO LANES-NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	BARELY ADEQUATE	6
72. Roadway Alignment:	DRIVES AT EACH END; NARROW; HUMP AT BRIDGE	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00244

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR SPALLS UNDER THE BEAMS ON THE EAST ABUTMENT. RESET THE APPROACH RAIL IN ALIGNMENT WITH THE BRIDGE RAIL. BLAST AND PAINT THE STEEL BEAMS. RIPRAP THE ABUTMENTS.

76. Improvement Length: 000032 feet
94. Bridge Imp. Costs: \$ 12 X 1000
95. Rdwy. Imp. Costs: \$ 9 X 1000
96. Total Project Costs: \$ 21 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000550
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/6/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	08	years
B. Deck:	14	years
C. Joints:	NA	years
D. Superstructure:	12	years
E. Substructure:	12	years
F. Approach:	08	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

TIMBER WINGWALL EXTENSIONS ARE AT THE NORTHEAST AND SOUTHWEST CORNERS. TWO OF FOUR END MARKERS ARE MISSING. THE APPROACHES HAVE BEEN RESURFACED SINCE THE LAST INSPECTION. THE WEARING SURFACE IS NOT TEXTURED. THE APPROACH RAIL IS INADEQUATE. THE BEAM ENDS ARE VERY RUSTY WITH HEAVY DELAMINATION AND MODERATE SECTION LOSS. THE CORRUGATED METAL AT THE BOTTOM OF THE DECK IS VERY RUSTY BUT GENERALLY SOUND.

Bridge No. 245



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00245

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00245
8A. NBI Number:	1800174	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	MUNCIE CREEK		
7. Facility Carried:	YALE AVENUE		
9A. Location:	240N 125E	9B Map Location:	G-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.5 Min.	17. Longitude:	085 Deg. 21.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	104 CONCRETE TEE BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1940	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0029.0 Feet	49. Structure Length:	0031.0 Feet
50. Sidewalk/Curb Left:	00.5 Right: 00.5		
51. Bridge Roadway Width:	019.5 Feet	52. Deck Width (o-o):	023.2 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	19.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00245**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **19 LOCAL - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-SPALLED & LEACHING	5
59. Super:	REINFORCED CONCRETE GIRDER	FAIR-SPALLING, CRACKS	5
60. Sub:	CONCRETE ABUTMENTS	FAIR-LEACHING	6
61. Channel:	EARTH/VEGETATION	FAIR-FLOW AGAINST ABUTMENTS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-CRACKED, SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
 64A. Operating Rating: **235**
 66A. Inventory Rating: **225** 64B. Year of Rating:
 66B. Gross Tons or H Rating: **20**
 70. Bridge Posting: **5 LEGAL LIMIT, POSTED "NARROW BRIDGE"**
 41. Open, Posted, or Closed: **R POSTED FOR OTHER THAN LOAD**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SPALLING, LEACHING, & CRACKING ON GIRDERS	5
68. Geometry:	TWO LANES-VERY NARROW	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING	5
72. Roadway Alignment:	HUMP, NARROW, INTERSECTION NE, DRIVE NW	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00245

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT DUE TO GEOMETRY AND ADT. MEANWHILE, ADD RAIL AT ALL FOUR CORNERS.

76. Improvement Length: 000052 feet
94. Bridge Imp. Costs: \$ 150 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 200 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000775
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/6/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	10	years
C. Joints:	NA	years
D. Superstructure:	10	years
E. Substructure:	10	years
F. Approach:	02	years
G. Channel:	06	years
H. Culvert:	NA	years

Remarks:

THERE IS AN INTERSECTION AT THE NORTHEAST CORNER AND A DRIVE AT THE NORTHWEST CORNER. THERE ARE EXTENSIVE CRACKS WITH EFFLORESCENCE IN THE REINFORCED CONCRETE BEAMS AND DECK. A PIPE IS SUPPORTED ON THE SOUTH COPING. THREE OF FOUR END MARKERS ARE MISSING. THERE IS SOME SHOULDER LOSS AT THE SOUTHWEST AND SOUTHEAST CORNERS. THE BRIDGE AND APPROACHES WERE RESURFACED SINCE THE LAST INSPECTION. THIS BRIDGE WAS INCORRECTLY LISTED AS A REINFORCED CONCRETE GIRDER; THE STRUCTURE TYPE HAS BEEN CHANGED TO CONCRETE T-BEAM.

Bridge No. 268



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00268

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00268
8A. NBI Number:	1800175	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	23RD STREET		
9A. Location:	175S 30W	9B Map Location:	F-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.1 Min.	17. Longitude:	085 Deg. 23.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1977	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0043.0 Feet	49. Structure Length:	0121.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 04.0		
51. Bridge Roadway Width:	029.7 Feet	52. Deck Width (o-o):	035.7 Feet
32. Approach Roadway Width:	030 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	29.7 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00268**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-770** 104B. - Under:
 26A. Functional Class Over: **17 COLLECTOR - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS, CRACKS, POTHOLE	6
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-SEEPAGE AT DRAINS	7
60. Sub:	CONCRETE END BENTS & PIERS	GOOD	7
61. Channel:	CONCRETE SLOPEWALL	GOOD-CHANNEL SILTED; ISLAND	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - CRACKED, PATCHED	5

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **244**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKS; LARGE SPALL AREAS IN W.S.	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	HILL WEST; BUSINESS ENTRANCE N.E.	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00268

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

SCARIFY AND OVERLAY THE DECK. EXTEND THE GUARDRAIL AT THE WEST END. ADD AN CRASH ATTENUATOR AT THE NORTHEAST CORNER. INSTALL END MARKERS. REPAIR THE DECK BELOW AT THE DRAIN OUTLETS; ADD DRAIN EXTENSIONS. INVESTIGATE THE BROKEN PVC PIPE.

76. Improvement Length: 000121 feet

94. Bridge Imp. Costs: \$ 63 X 1000

95. Rdwy. Imp. Costs: \$ 9 X 1000

96. Total Project Costs: \$ 72 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 003650

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	26	years
C. Joints:	NA	years
D. Superstructure:	26	years
E. Substructure:	30	years
F. Approach:	05	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

INDUSTRIAL ENTRANCES ARE LOCATED AT THE NORTHEAST AND SOUTHEAST CORNERS. PIPES ARE HUNG ON THE COPINGS. NO END MARKERS ARE IN PLACE. A PVC PIPE FROM OMNISOURCE RUNS ALONG THE WEST ENDBENT AND NORTH COPING: THIS PIPE IS BROKEN AND LEAKING AT WEST ENDBENT. THERE IS HEAVY SPALLING OF THE WEARING SURFACE WHICH IS PATCHED WITH ASPHALT. THERE IS HEAVY SILT DEPOSIT NEXT TO THE WEST PIER. THERE ARE NARROW RANDOM CRACKS WITH MINOR EFFLORESCENCE IN THE CENTER SPAN OF THE SLAB BELOW NEAR THE WEST PIER.

Bridge No. 269



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00269

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00269
8A. NBI Number:	1800176	8C. Old Bridge Number:	
5A. Inventory Route On:	152005910	5B. Rd. Number On:	0591
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	NO NAME CREEK		
7. Facility Carried:	FLOYD DRIVE		
9A. Location:	340S 285W	9B Map Location:	E-3
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 08.6 Min.	17. Longitude:	085 Deg. 26.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1970	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	99A DEAD END ROAD		

GEOMETRIC DATA:

48. Maximum Span Length:	0013.0 Feet	49. Structure Length:	0028.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00269

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEGETATION	GOOD	6
62. Culv/Ret:	STEEL ARCH	GOOD-SLIGHT DEFLECTION	7
65. Approach Roadway:		ASPHALT - SETTLED, POTHOLES	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PIPE DEFLECTION; INSUFF COVER; LOAD RATING	2
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	RESIDENTIAL AREA, LEVEL, CURVES N & S	8
36A. Traffic Safety Features:	0000B UNACCEPTABLE/NON-EXISTENT	
36B Bridge Rail Type:	N NO RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00269

PROPOSED IMPROVEMENTS:

73. Year Needed: 2010
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
**REPLACE BY CONTRACT. MEANWHILE, INSTALL GUARDRAIL WITH END TREATMENTS.
RESURFACE THE ROADWAY. REMOVE DEBRIS AT THE INLETS.**

76. Improvement Length: 000028 feet
94. Bridge Imp. Costs: \$ 40 X 1000
95. Rdwy. Imp. Costs: \$ 15 X 1000
96. Total Project Costs: \$ 55 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000220
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	10	years
G. Channel:	23	years
H. Culvert:	17	years

Remarks:

THE CURBS ARE SLIGHTLY SETTLED OVER THE PIPES. NO END MARKERS ARE SET. THE ROAD IS SETTLED AND POTHOLED. THE NORTH PIPE HAS HEAVY RUST AT THE FLOWLINE. SEVERAL TREE LIMBS ARE ACCUMULATED AT THE INLETS.

Bridge No. 270



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00270

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00270
8A. NBI Number:	1800177	8C. Old Bridge Number:	
5A. Inventory Route On:	141000220	5B. Rd. Number On:	0022
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CUNNINGHAM DITCH		
7. Facility Carried:	RD 500 S		
9A. Location:	500S 750E	9B Map Location:	B-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 07.2 Min.	17. Longitude:	085 Deg. 14.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1964	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000250	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0042.0 Feet	49. Structure Length:	0044.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	022.2 Feet	52. Deck Width (o-o):	024.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00270

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-ROUGH & UNEVEN W.S.	6
59. Super:	PRESTRESSED CONC BOX BEAMS	FAIR-DAMAGED TOP OF BEAM	5
60. Sub:	CONCRETE	FAIR-PILES EXPOSED	5
61. Channel:	RIPRAP/NATURAL	POOR-EROSION AT SLOPES	4
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-FAIR-WEDGED, ROUGH	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 243
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DAMAGED BEAM TOP, PILES EXPOSED AT ENDBENTS	5
68. Geometry:	TWO LANES - SLIGHTLY NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT, HILLS BOTH DIRECTIONS	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00270

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

UNDERPIN AND RIPRAP THE ENDBENTS. INSTALL APPROACH RAIL, END TREATMENTS, AND CURB TRANSITIONS AT ALL CORNERS. REMOVE THE WEARING SURFACE AND INSPECT THE TOPS OF THE BEAMS. REPAIR OR REPLACE THE DAMAGED BEAM DEPENDING ON THE EXTENT OF DAMAGE. RESURFACE THE DECK.

76. Improvement Length: 000044 feet

94. Bridge Imp. Costs: \$ 14 X 1000

95. Rdwy. Imp. Costs: \$ 11 X 1000

96. Total Project Costs: \$ 25 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000280

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/19/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 00 years

B. Deck: 20 years

C. Joints: NA years

D. Superstructure: 03 years

E. Substructure: 18 years

F. Approach: 08 years

G. Channel: 03 years

H. Culvert: NA years

Remarks:

THE TOP OF ONE BEAM IS DAMAGED, ESPECIALLY ALONG THE EDGE AT APPROXIMATELY THE MIDSPAN. THE WEARING SURFACE SHOULD BE REMOVED TO INSPECT THE TOPS OF ALL THE BEAMS. THE ENDBENTS ARE UNDERMINED. END MARKERS ARE IN PLACE. THE ASPHALT DOES NOT EXTEND TO THE CURBS. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS.

Bridge No. 271



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00271

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00271
8A. NBI Number:	1800208	8C. Old Bridge Number:	
5A. Inventory Route On:	141000130	5B. Rd. Number On:	0013
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	SHOEMAKER DITCH		
7. Facility Carried:	RD 800 W		
9A. Location:	600S 800W	9B Map Location:	B-2
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 06.3 Min.	17. Longitude:	085 Deg. 32.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001600	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0033.5 Feet	49. Structure Length:	0037.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	025.3 Feet
32. Approach Roadway Width:	025 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	50 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00271

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR POPOUTS	7
59. Super:	CONCRETE	GOOD	8
60. Sub:	CONCRETE	GOOD-FORM SCREWS STICK OUT	8
61. Channel:	LIGHT RIPRAP	FAIR-FLOW AGAINST ABUTMENTS	6
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1992
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	NARROW FOR A.D.T.	4
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	SLIGHTLY INADEQUATE OPENING	5
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00271

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE NORTHWEST APPROACH RAIL AND GUARD RAIL END TREATMENT. EXTEND THE SOUTHEAST APPROACH RAIL. ADD A GUARD RAIL POST AT THE NORTHWEST AND SOUTHEAST RAIL TRANSITIONS.

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 4 X 1000
96. Total Project Costs: \$ 4 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 002570
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/16/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

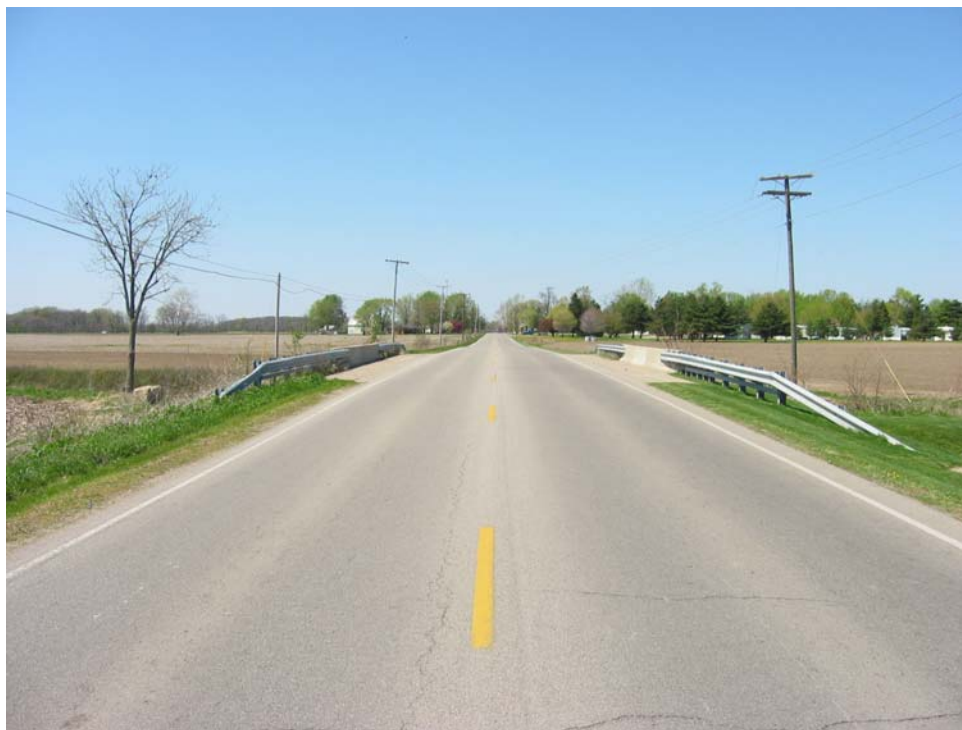
63. Estimated Remaining Life:

A. Wearing Surface:	18	years
B. Deck:	43	years
C. Joints:	NA	years
D. Superstructure:	43	years
E. Substructure:	43	years
F. Approach:	10	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. THE CHANNEL TURNS NORTH JUST WEST OF THE STRUCTURE. THE NORTHWEST END TREATMENT IS DAMAGED 500' NORTH OF THE BRIDGE. THE NORTHWEST APPROACH RAIL IS DAMAGED AND LOW IN SEVERAL PLACES. THE WEST BRIDGE RAIL IS SLIGHTLY DAMAGED. A POST IS NEEDED AT THE NORTHWEST AND SOUTHEAST APPROACH RAIL. THERE ARE MINOR HAIRLINE CRACKS IN THE SUBSTRUCTURE.

Bridge No. 272



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00272

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00272
8A. NBI Number:	1800209	8C. Old Bridge Number:	
5A. Inventory Route On:	141003350	5B. Rd. Number On:	0335
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	WHEELING AVENUE		
9A. Location:	560N 245W	9B Map Location:	E-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 16.2 Min.	17. Longitude:	085 Deg. 25.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	006147	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0053.0 Feet	49. Structure Length:	0054.0 Feet
50. Sidewalk/Curb Left:	01.5 Right: 01.5		
51. Bridge Roadway Width:	040.0 Feet	52. Deck Width (o-o):	043.0 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	40.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00272

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD-W.S. CRACKS AT JOINTS	8
59. Super:	PRESTRESSED BOX BEAMS	GOOD-MINOR SEEPAGE	8
60. Sub:	CONCRETE END BENTS	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1992
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR SEEPAGE	8
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL. DRIVE SOUTHEAST.	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00272

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

CRACKSEAL THE ASPHALT OVER THE END JOINTS AND AT THE ENDS OF THE APPROACH SLABS. SEAL CRACKS IN THE WEARING SURFACE. PLACE STONE BETWEEN THE CONCRETE APPROACH PAD AND THE NORTHWEST RAIL. CUT THE TREES UNDER THE BRIDGE.

76. Improvement Length: 000054 feet

94. Bridge Imp. Costs: \$ 1 X 1000

95. Rdwy. Imp. Costs: \$ 1 X 1000

96. Total Project Costs: \$ 2 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 010500

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	22	years
B. Deck:	45	years
C. Joints:	00	years
D. Superstructure:	45	years
E. Substructure:	45	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

NO END MARKERS ARE POSTED. A GAS PIPELINE IS HUNG ON THE EAST COPING. THE SOUTHWEST BURIED END RAIL HAS SOME DAMAGE. THE 4" CLAY TILE AT NORTHEAST WING IS PLUGGED. THE FILL BETWEEN THE CONCRETE APPROACH PAD AND THE NORTHWEST APPROACH RAIL IS SETTLED: THIS COULD CAUSE WHEEL ENTRAPMENT. SEVERAL TREES ARE GROWING UNDER THE BRIDGE; ONE AT THE NORTHWEST CORNER IS ROOTED BETWEEN THE BEAM AND THE BEAM SEAT AND THROUGH A JOINT IN THE MUDWALL AND COULD EVENTUALLY CAUSE DAMAGE TO THE BRIDGE. THE SOUTHEAST CORNER OF THE NORTH CONCRETE APPROACH PAD IS SPALLED AND BROKEN NEXT TO THE END JOINT (ABOUT 1" DEPTH).

Bridge No. 273



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00273

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00273
8A. NBI Number:	1800210	8C. Old Bridge Number:	
5A. Inventory Route On:	141000790	5B. Rd. Number On:	0079
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BULLOCK NO. 42		
7. Facility Carried:	RD 800 E		
9A. Location:	195N 800E	9B Map Location:	K-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.0 Min.	17. Longitude:	085 Deg. 14.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000364	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0026.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.4 Feet
51. Bridge Roadway Width:	024.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00273

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-CRACKS IN WEARING SURF	7
59. Super:	TIMBER	GOOD-SLIGHT SAG	8
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	GOOD-CATTLE GATE EAST	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SLIGHTLY SETTLED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating: 1992
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR SEEPAGE, WEARING SURFACE CRACKS	8
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL; INTERSECTION NORTH	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00273

PROPOSED IMPROVEMENTS:

73. Year Needed:
75. Type of Work:
Describe Item 75:

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 0 X 1000
97. Year of Cost Estimate:
114. Future ADT: 000640
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 06 years
B. Deck: 16 years
C. Joints: NA years
D. Superstructure: 16 years
E. Substructure: 16 years
F. Approach: 15 years
G. Channel: 20 years
H. Culvert: NA years

Remarks:

END MARKERS ARE IN PLACE; THE TOP BOLT IS MISSING IN THE NORTHEAST END MARKER.
THE TIMBER SLAB SAGS SLIGHTLY. THE TIMBER RAIL IS NOT STANDARD.

Bridge No. 274



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00274

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00274
8A. NBI Number:	1800211	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	PINERIDGE ROAD		
9A. Location:	25N 330W	9B Map Location:	D-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.6 Min.	17. Longitude:	085 Deg. 26.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0054.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.4 Feet
51. Bridge Roadway Width:	024.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	026 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00274

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-CRACKSEALED	7
59. Super:	TIMBER SLAB	MISSING NUTS, MINOR SEEPAGE	7
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD, SETTLING	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1994
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKING, SPREADER BEAM WARPED, MISSING NUTS	7
68. Geometry:	TWO LANES	8
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	RESIDENTIAL AREA, CURVES AT BOTH ENDS	8
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00274

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPLACE THE MISSING NUTS ON SPREADER BEAMS IN THE END SPANS AND TIGHTEN ANY LOOSE NUTS. ADD FOUR END MARKERS.

76. Improvement Length: 000054 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000165
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/2/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	08	years
B. Deck:	16	years
C. Joints:	NA	years
D. Superstructure:	16	years
E. Substructure:	16	years
F. Approach:	18	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

CONDUIT IS SUPPORTED AT BOTH COPINGS. NO END MARKERS ARE POSTED. TIMBER RAIL IS NOT STANDARD. SOME NUTS ARE MISSING, OTHERS ARE LOOSE, AT THE SPREADER BEAMS IN THE END SPANS.

Bridge No. 275



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00275

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00275
8A. NBI Number:	1800212	8C. Old Bridge Number:	
5A. Inventory Route On:	141002360	5B. Rd. Number On:	0236
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	HEDGE LAND DITCH		
7. Facility Carried:	CR 1070 N		
9A. Location:	1070N 400W	9B Map Location:	D-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.7 Min.	17. Longitude:	085 Deg. 27.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	0 None	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1994	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0026.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.4 Feet
51. Bridge Roadway Width:	026.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	026 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	26.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00275**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **09 LOCAL - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-CRACKED WEARING SURFACE	7
59. Super:	TIMBER SLAB	GOOD	8
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating: **1994**
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD - CRACKS IN WEARING SURFACE	8
68. Geometry:	TWO LANES	8
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL, INTERSECTION W, DRIVE SE	8
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00275

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**CRACKSEAL THE DECK. ADD END MARKERS. ADD A BOTTOM RAIL TO THE BRIDGE RAIL.
TIGHTEN THE NUTS ON THE SPREADER BEAM.**

76. Improvement Length: 000026 feet
94. Bridge Imp. Costs: \$ 6 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 8 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000165
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	19	years
C. Joints:	NA	years
D. Superstructure:	19	years
E. Substructure:	19	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

**NO END MARKERS ARE IN PLACE. SOME NUTS ARE LOOSE ON THE SPREADER BEAM. THE
TIMBER RAIL IS HIGH (25" AT THE BOTTOM) AND NOT STANDARD.**

Bridge No. 501



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00501

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00501
8A. NBI Number:	1800178	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	PORT AVENUE		
9A. Location:	150S 100W	9B Map Location:	F-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.3 Min.	17. Longitude:	085 Deg. 24.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	104 CONCRETE TEE BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1959	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	006900	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	04 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0042.0 Feet	49. Structure Length:	0129.0 Feet
50. Sidewalk/Curb Left:	03.0 Right: 03.0		
51. Bridge Roadway Width:	056.6 Feet	52. Deck Width (o-o):	062.6 Feet
32. Approach Roadway Width:	049 Feet	33. Bridge Median:	2 CLOSED/NO BARRIER
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00501

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-140 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ LATEX OVERLAY	GOOD-OVERLAY HVLY CRACKED	5
59. Super:	REINFORCED CONCRETE GIRDER	FAIR-SPALLED AT BEARINGS	5
60. Sub:	CONCRETE	FAIR-EFFLORESCENCE	6
61. Channel:	CONCRETE SLOPEWALL	GOOD-UNDERMINED NW	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 242
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HVY SPALLS AT ENDS OF O.S. BMS. SEATS SPALLED	5
68. Geometry:	SOMEWHAT NARROW FOR 4 LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL, INTERSECTION NORTH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	E CONC. W. 2 METAL TUBES	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00501

PROPOSED IMPROVEMENTS:

73. Year Needed: 2012
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPLACE THE SUPERSTRUCTURE AND PIER CAPS. MEANWHILE, ADD APPROACH RAIL AT THE NORTH END AND REPAIR THE UTILITY CONDUITS.

76. Improvement Length: 000129 feet
94. Bridge Imp. Costs: \$ 405 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 455 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 012100
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	08	years
C. Joints:	02	years
D. Superstructure:	08	years
E. Substructure:	18	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE OUTSIDE BEAMS ARE HEAVILY SPALLED AT THE SEATS. THE OTHER BEAMS ARE CRACKED AT THE SEATS. THERE IS SOME SPALLING OF THE BEAM SEATS AT THE PIERS. THERE ARE ALSO AREAS OF HEAVY SPALLING IN THE DECK BELOW. THE DECK OVERLAY IS HEAVILY CRACKED IN SEVERAL PLACES. APPROACH RAIL HAS BEEN ADDED AT THE SOUTH END SINCE THE LAST INSPECTION. THE UTILITY CONDUITS BELOW THE DECK ARE RUSTED THROUGH AND TWO OF THEM ARE SAGGING - THE INSULATED WIRES ARE EXPOSED. MOTION OF THE STREAM AGAINST THE CONDUIT WILL EVENTUALLY CAUSE THE RUSTED ENDS OF THE PIPES TO RUB THROUGH THE INSULATION. THE STRUCTURE TYPE WAS CHANGED TO REFLECT THE TYPE OF BRIDGE IN PLACE.

Bridge No. 502



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00502

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00502
8A. NBI Number:	1800179	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	G HARKEY STREET		
9A. Location:	140S 40W	9B Map Location:	F-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.3 Min.	17. Longitude:	085 Deg. 23.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0033.0 Feet	49. Structure Length:	0088.0 Feet
50. Sidewalk/Curb Left:	05.0 Right: 00.7		
51. Bridge Roadway Width:	030.0 Feet	52. Deck Width (o-o):	037.7 Feet
32. Approach Roadway Width:	033 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00502**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-420** 104B. - Under:
 26A. Functional Class Over: **17 COLLECTOR - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS, SPALLING, CRACKS	6
59. Super:	REINFORCED CONCRETE SLAB	FAIR-CONSTR JTS LEACHING	6
60. Sub:	CONCRETE END BENTS & PIERS	FAIR-UNDERMINED END BENT	6
61. Channel:	EARTH/VEGETATION	FAIR-SOME EROSION	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH-POTHoles, CRACKS, PATCHES	5

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
 64A. Operating Rating: **244**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	ENDBENTS UNDERCUT, PIERS CRACKED, LEACHING	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, DRIVEWAYS NE, NW, SW	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00502

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
SCARIFY AND OVERLAY THE BRIDGE DECK. REPAIR THE SPALLED CURBS AND DAMAGED BRIDGE RAIL. UNDERPIN THE END BENTS AND INSTALL RIPRAP. INSTALL APPROACH RAIL AT THE CORNERS. TRANSITION THE SIDEWALKS.

76. Improvement Length: 000088 feet
94. Bridge Imp. Costs: \$ 68 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 78 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 004200
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	20	years
E. Substructure:	20	years
F. Approach:	06	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THE NORTHEAST CORNER POST IS BROKEN OFF OF THE BRIDGE RAIL; THERE WAS VERY LITTLE REINFORCING STEEL IN PLACE AT THE BASE. THERE IS EROSION AT THE CORNERS. NO END MARKERS ARE POSTED. TWO PIPES ARE HUNG AT THE WEST COPING. THE FACE OF THE CURB IS DETERIORATED. THE PIERS HAVE NARROW VERTICAL CRACKS AT THE CENTERLINE WITH MINOR SPALLS AT THE SOUTH PIER. THE ENDS OF THE SIDEWALK POSE A MODERATE CRASH HAZARD.

Bridge No. 503



Looking Southeast



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00503

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00503
8A. NBI Number:	1800180	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	MEEK AVENUE		
9A. Location:	15N 25W	9B Map Location:	F-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.7 Min.	17. Longitude:	085 Deg. 23.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	111A REINFORCED CONCRETE ARCH	45. No. of Spans - Main:	004
43C. Main Widening Type:			
44A. Str. Type - Approach	000 NONE	46. No. of Spans - Appr:	0000 NONE
44C. Other Approach Types:	NO		
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1930	106A. Reconstructed:	1996
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	010000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0065.0 Feet	49. Structure Length:	0281.0 Feet
50. Sidewalk/Curb Left:	06.0 Right: 06.0		
51. Bridge Roadway Width:	028.8 Feet	52. Deck Width (o-o):	043.0 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00503

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-570 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-CRACKS PARTIALLY SEALED	7
59. Super:	REINFORCED CONCRETE ARCH	FAIR-CRACKS, EFFLORESCENCE	6
60. Sub:	CONCRETE	FAIR-CRACKS, EFFLORESCENCE	6
61. Channel:	RIPRAP	GOOD-DEBRIS	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 216
66A. Inventory Rating: 215 64B. Year of Rating: 1996
66B. Gross Tons or H Rating: 15
70. Bridge Posting: 4 15 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 15 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKS, EFFLOR; LOW LOAD RATING FOR ADT	3
68. Geometry:	TWO LANES - NARROW FOR A.D.T	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	INTERSECTION EACH END, CURVES	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	7 FIXED - NOT SCOUR CRIT.	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00503

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL ADDITIONAL WEEP DRAINS OVER THE PIERS. RESEAL THE CRACKS AND JOINTS IN THE DECK TO KEEP OUT WATER. ADD RIPRAP AT THE UPSTREAM END OF THE CENTER PIER.

76. Improvement Length: 000281 feet
94. Bridge Imp. Costs: \$ 5 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 5 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 018400
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	25	years
B. Deck:	25	years
C. Joints:	NA	years
D. Superstructure:	18	years
E. Substructure:	18	years
F. Approach:	18	years
G. Channel:	30	years
H. Culvert:	NA	years

Remarks:

GENERAL CRACKS AND EFFLORESCENCE ARE PRESENT IN THE ARCHES AND PIERS. WATER SEEPS THROUGH CRACKS OVER THE PIERS. THE SIDEWALKS ARE CRACKED; THE NORTH SIDEWALK IS CRACKED LONGITUDINALLY. THE DECK HAS SEVERAL WIDE CRACKS; SOME ARE CRACK-SEALED, OTHERS ARE NOT. SOME RIPRAP IS WASHED AWAY AT THE UPSTREAM END OF THE CENTER PIER.

Bridge No. 504



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00504

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00504
8A. NBI Number:	1800181	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	NICHOLS AVENUE		
9A. Location:	50S 130W	9B Map Location:	E-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.2 Min.	17. Longitude:	085 Deg. 24.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	00 Inches

AGE AND SERVICE:

27A. Year Built:	1996	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	03 Under: 00		
29A. ADT - Over:	003100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0079.0 Feet	49. Structure Length:	0306.0 Feet
50. Sidewalk/Curb Left:	06.5 Right: 06.5		
51. Bridge Roadway Width:	036.0 Feet	52. Deck Width (o-o):	051.3 Feet
32. Approach Roadway Width:	036 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	36.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00504

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-600 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ PERM METAL FORMS	GOOD-MINOR CRACKS AT ENDS	8
59. Super:	CONTINUOUS CONC I BEAMS	GOOD	8
60. Sub:	CONCRETE PIERS & END BENTS	GOOD-INTEGRAL END BENTS	8
61. Channel:	RIPRAP	GOOD SPILLSLOPES	7
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPH/CONC-MIN CRACKS,POTHOLE	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SOME DEEP CHANNEL SPOTS AT MIDDLE PIER	8
68. Geometry:	THREE LANES	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQ OPENING - CHANNEL CURVES, ODD FLOW ANGLE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL, INTERSECTIONS N & S	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	O	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00504

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
PLACE RIPRAP AT BOTH ENDS OF AND ALONG THE NORTH FACE OF THE MIDDLE PIER. REPAIR POTHoles AT THE NORTH APPROACH.

76. Improvement Length: 000306 feet
94. Bridge Imp. Costs: \$ 8 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 9 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 005550
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	25	years
B. Deck:	50	years
C. Joints:	15	years
D. Superstructure:	50	years
E. Substructure:	50	years
F. Approach:	18	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE OUTSIDE BOTTOM OF THE RAIL IS DAMAGED AT THE SOUTHEAST WING. THE NORTHEAST SLAB IS SPALLED AT THE BOTTOM OUTSIDE. THERE ARE VOIDS UNDER THE NORTH APPROACH. THERE ARE HAIRLINE CRACKS IN THE SIDEWALKS, COPINGS, AND RAILS, ESPECIALLY OVER THE PIERS. THERE ARE NARROW TO MEDIUM CRACKS ADJACENT TO THE JOINT AT THE BRIDGE ENDS AND CONCRETE APPROACH PADS. THE RIPRAP AT THE TOP OF THE SLOPE AT THE NORTH END HAS BEEN MANUALLY DISTURBED. THE APPROACH CURBS ARE SETTLED AND DISPLACED AT THE SOUTH END. HEAVY DEBRIS HAS ACCUMULATED AT THE NORTH PIER NEXT TO THE PEDESTRIAN TRAIL.

Bridge No. 505



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00505

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00505
8A. NBI Number:	1800182	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	MUNCIE CREEK		
7. Facility Carried:	CENTENNIAL AVENUE		
9A. Location:	105N 50E	9B Map Location:	F-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.5 Min.	17. Longitude:	085 Deg. 22.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1995	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	004600	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	06 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0035.5 Feet	49. Structure Length:	0036.0 Feet
50. Sidewalk/Curb Left:	05.9 Right: 05.9		
51. Bridge Roadway Width:	027.0 Feet	52. Deck Width (o-o):	041.0 Feet
32. Approach Roadway Width:	027 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00505

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-050 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	PRESTRESSED BOX BEAMS	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH & CONC-MIN LONG CRACKS	7

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1995
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SLIGHTLY SMALL OPENING	6
72. Roadway Alignment:	STRAIGHT AND LEVEL, DRIVES AT ALL CORNERS	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00505

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
RELOCATE THE PARK SIGN WITH LOAD LIMIT TO THE EAST SIDE OF THE BRIDGE.

76. Improvement Length: 000036 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 008350
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/17/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 22 years
B. Deck: 45 years
C. Joints: NA years
D. Superstructure: 45 years
E. Substructure: 45 years
F. Approach: 20 years
G. Channel: 30 years
H. Culvert: NA years

Remarks:

THE APPROACHES AND BRIDGE DECK HAVE BEEN RESURFACED WITH ASPHALT SINCE THE LAST INSPECTION. NO END MARKERS ARE IN PLACE. A PARK SIGN WITH A LOAD LIMIT IS POSTED JUST WEST OF THE BRIDGE BUT CAN BE CONSTRUED TO REFER TO THE BRIDGE LOAD LIMIT.

Bridge No. 506



Looking Northerly



Looking Easterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00506

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00506
8A. NBI Number:	1800183	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	ELM STREET		
9A. Location:	65N 20E	9B Map Location:	F-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.2 Min.	17. Longitude:	085 Deg. 23.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302E SIMPLE STEEL GIRDER	45. No. of Spans - Main:	004
43C. Main Widening Type:			
44A. Str. Type - Approach	000 NONE	46. No. of Spans - Appr:	0000 NONE
44C. Other Approach Types:	NO		
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	5 Epoxy Overlay	108B. Membrane:	3 Epoxy
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1937	106A. Reconstructed:	1991
27B. Paint Date:	0691	106B. Repaired:	
59B. Paint Rating:	7 GOOD	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0075.0 Feet	49. Structure Length:	0304.0 Feet
50. Sidewalk/Curb Left:	04.0 Right: 00.0		
51. Bridge Roadway Width:	038.4 Feet	52. Deck Width (o-o):	045.4 Feet
32. Approach Roadway Width:	038 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	38.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00506

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-450 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-OVERLAYED; MIN EFFLOR	7
59. Super:	STEEL BEAM	FAIR-SAGGING, RUST AT ENDS	5
60. Sub:	CONCRETE	GOOD-REPAIRED;WINGS EFFLOR	7
61. Channel:	RIPRAP/BEDROCK	GOOD-TURBULENCE AT S PIER	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, POTHOLES	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 247
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BEAMS DEFLECTING	5
68. Geometry:	NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE - BEDROCK STREAMBED	7
72. Roadway Alignment:	CURVE S, INTERSECTION N, S APPROACH IS LOWER	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00506

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
CLEAN THE DECK DRAINS. CLEAR DEBRIS FROM THE CHANNEL. GROUT THE BASE OF THE PIERS AT THE ENDS.

76. Improvement Length: 000304 feet
94. Bridge Imp. Costs: \$ 2 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 003900
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	20	years
C. Joints:	10	years
D. Superstructure:	20	years
E. Substructure:	25	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE BEAMS ARE DEFLECTING. SOME WEB STIFFENERS ON THE EAST OUTSIDE BEAM ARE DAMAGED. SOME DECK DRAINS ARE PLUGGED. THERE IS A CONTINUOUS LONGITUDINAL CRACK IN THE BRIDGE SIDEWALK. DEBRIS HAS ACCUMULATED AT TWO PIERS. THE BASES AT THE ENDS OF THE PIERS IS DETERIORATED. THE FACES OF THE PIERS HAVE MODERATE DELAMINATION AND MINOR SPALLING. THE TOP OF THE NORTH ABUTMENT IS DELAMINATED AND CRACKED AT ONE LOCATION. THE PLAQUE IDENTIFIES THIS BRIDGE AS THE H. A. PETTIJOHN MEMORIAL BRIDGE.

Bridge No. 507



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00507

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00507
8A. NBI Number:	1800204	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	MUNCIE CREEK		
7. Facility Carried:	WAID AVENUE		
9A. Location:	130N 60E	9B Map Location:	F-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.7 Min.	17. Longitude:	085 Deg. 22.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	311 METAL PIPE ARCH	45. No. of Spans - Main:	002
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	9 OTHER	108B. Membrane:	N Not Applicable
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	04 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1950	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000200	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0017.0 Feet	49. Structure Length:	0037.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0	52. Deck Width (o-o):	030.7 Feet
51. Bridge Roadway Width:	028.4 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	021 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	28.4 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00507

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	ASPHALT ON FILL	POOR-ROUGH, CRACKED, PATCHED	4
59. Super:	METAL PIPE ARCH	FAIR-RUST:ESPECIALLY AT BASE	5
60. Sub:	CONCRETE	FAIR-CRACKED	5
61. Channel:	EARTH/VEG/RIPRAP	FAIR-DEBRIS	6
62. Culv/Ret:	N/A	N/A	N/A
65. Approach Roadway:		POOR-ROUGH	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 216
66A. Inventory Rating: 215 64B. Year of Rating:
66B. Gross Tons or H Rating: 15
70. Bridge Posting: 4 15 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 15 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	EXPOSED FOOTING; RUSTED ARCHES; LOAD RATING	4
68. Geometry:	TWO LANES	7
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE	5
72. Roadway Alignment:	LEVEL. CURVE TO WEST.	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00507

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000040 feet
94. Bridge Imp. Costs: \$ 120 X 1000
95. Rdwy. Imp. Costs: \$ 40 X 1000
96. Total Project Costs: \$ 160 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000450
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/17/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 02 years
B. Deck: NA years
C. Joints: NA years
D. Superstructure: 08 years
E. Substructure: 15 years
F. Approach: 00 years
G. Channel: 08 years
H. Culvert: NA years

Remarks:

NO END MARKERS ARE POSTED. THE ARCHES SIT ON CONCRETE BASES WHICH ARE EXPOSED UP TO TWO FEET. THERE IS VERY HEAVY RUST WITH SOME AREAS OF RUST-THROUGH AT THE BASES OF THE ARCHES.

Bridge No. 508



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00508

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00508
8A. NBI Number:	1800205	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	MUNCIE CREEK		
7. Facility Carried:	BROADWAY AVENUE		
9A. Location:	165N 70E	9B Map Location:	F-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.9 Min.	17. Longitude:	085 Deg. 22.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	1992
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	013600	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0054.0 Feet	49. Structure Length:	0058.0 Feet
50. Sidewalk/Curb Left:	04.0 Right: 04.0		
51. Bridge Roadway Width:	052.0 Feet	52. Deck Width (o-o):	062.0 Feet
32. Approach Roadway Width:	052 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	52.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00508

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-060 104B. - Under:
26A. Functional Class Over: 14 OTHER PRIN. ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-CRACKS	7
59. Super:	PRESTRESSED I-BEAM	GOOD	8
60. Sub:	CONCRETE	FAIR-CRACKS, SOME REPOINTED	6
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONCRETE, ASPHALT-CRACKS	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1992
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKS IN SUBSTRUCTURE	6
68. Geometry:	FOUR LANES-SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT, LEVEL. DRIVES AT CORNERS	8
36A. Traffic Safety Features:	1011 GOOD RAILING - NO TRANSITION	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00508

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

CLEAN THE DECK DRAINS. REPAIR THE APPROACH SIDEWALKS. REPLACE THE JOINT MATERIAL. REPLACE THE TRANSITION PLATES WITH UPDATED TERMINAL CONNECTORS. SEAL THE WEARING SURFACE.

76. Improvement Length: 000058 feet

94. Bridge Imp. Costs: \$ 4 X 1000

95. Rdwy. Imp. Costs: \$ 3 X 1000

96. Total Project Costs: \$ 7 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 024100

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/17/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	35	years
C. Joints:	02	years
D. Superstructure:	45	years
E. Substructure:	28	years
F. Approach:	13	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE SIDEWALKS ARE CRACKED. THE SOUTHEAST APPROACH SIDEWALK IS SETTLED. METAL DECK PANS WERE USED BELOW IN CONSTRUCTING THE DECK. THE NORTHEAST RAIL TRANSITION IS DAMAGED. THE WEARING SURFACE HAS RANDOM NARROW TO MEDIUM CRACKS. THERE IS SIGNIFICANT DELAMINATION IN THE TOP OF THE WEST SIDEWALK OVER THE BRIDGE. THE JOINT MATERIAL AT THE NORTH END IS TORN. THE DECK DRAINS ARE PLUGGED. THERE IS A POT HOLE IN THE ASPHALT APPROACH AT THE SOUTH END OF THE CONCRETE APPROACH PAD IN THE SOUTHBOUND LANE.

Bridge No. 509



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00509

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00509
8A. NBI Number:	1800206	8C. Old Bridge Number:	
5A. Inventory Route On:	151000540	5B. Rd. Number On:	0054
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	MUNCIE CREEK		
7. Facility Carried:	MCGALLIARD ROAD		
9A. Location:	200N 100E	9B Map Location:	F-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.2 Min.	17. Longitude:	085 Deg. 22.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1982	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1998
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	014900	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	06 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0051.0 Feet	49. Structure Length:	0061.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 05.2		
51. Bridge Roadway Width:	064.8 Feet	52. Deck Width (o-o):	072.6 Feet
32. Approach Roadway Width:	064 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	64.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00509**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-165** 104B. - Under:
 26A. Functional Class Over: **14 OTHER PRIN. ARTERIAL - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE WITH OVERLAY	GOOD-OVERLAY CRACKED	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD-SURFACE SPALLS IN BEAMS	8
60. Sub:	CONCRETE ABUTMENTS	GOOD-MINOR SEEPAGE	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED,LARGE VOID SE	3
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-GOOD-CRACKED	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating: **20**
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BRIDGE DECK OVERLAY CRACKED	7
68. Geometry:	FOUR LANES W/ TURN LANE IN MIDDLE	7
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE; CHANNEL CURVES THRU BRIDGE	7
72. Roadway Alignment:	INTERSECTION BOTH ENDS, STRAIGHT	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00509

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE SOUTHEAST SLOPEWALL. REPAIR THE WEST JOINT.

76. Improvement Length: 000061 feet
94. Bridge Imp. Costs: \$ 40 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 40 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 026050
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/6/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	14	years
B. Deck:	30	years
C. Joints:	01	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	01	years
G. Channel:	02	years
H. Culvert:	NA	years

Remarks:

A PIPE IS SUPPORTED ALONG THE SOUTH COPING. CONCRETE SLOPEWALL HAS FAILED AT THE SOUTHEAST CORNER; THE FILL HAS BEEN LOST BACK TO THE H-PILES. THE FILL UNDER THE APPROACH IS THREATENED IF ACTION IS NOT TAKEN. THE LIFE EXPECTANCY OF THE APPROACHES IS BASED ON THE FILL LOSS. THE LAST SECTION OF THE CONCRETE PIPE HAS FAILED AS WELL. THE REMAINING SLOPEWALL IS CRACKED AND DISPLACED. A ONE FOOT SECTION OF JOINT MATERIAL IS MISSING AT THE WEST END. THERE ARE VERY MINOR SURFACE SPALLS AT THE STRAPS IN THE BEAMS.

Bridge No. 510



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00510

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00510
8A. NBI Number:	1800184	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	WALNUT STREET		
9A. Location:	75N 00E	9B Map Location:	F-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.2 Min.	17. Longitude:	085 Deg. 23.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	402D COMPOSITE CONTINUOUS STEEL BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	2 Integral Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1937	106A. Reconstructed:	2003
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	N NOT APPLICABLE	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	008100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0096.5 Feet	49. Structure Length:	0250.0 Feet
50. Sidewalk/Curb Left:	08.8 Right: 05.0		
51. Bridge Roadway Width:	050.7 Feet	52. Deck Width (o-o):	069.3 Feet
32. Approach Roadway Width:	069 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	1 YES
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	50.7 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00510

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-080 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-METAL DECK PANS	8
59. Super:	COMP CONTINUOUS STL BMS	GOOD	8
60. Sub:	CONCRETE	GOOD-RECONSTRUCTED ABUTS	8
61. Channel:	EARTH/VEG/RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT & CONC PADS	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 2003
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	TOTAL RECONSTRUCTION EXCEPT ABUTMENTS	8
68. Geometry:	SOMEWHAT NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	Y INTERSECTION NORTH; SOUTH APPROACH STRAIGHT	5
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	M TEXAS RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00510

PROPOSED IMPROVEMENTS:

73. Year Needed:

75. Type of Work:

Describe Item 75:

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 0 X 1000
97. Year of Cost Estimate:
114. Future ADT: 014600
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y60 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0505 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 40 years
B. Deck: 55 years
C. Joints: NA years
D. Superstructure: 55 years
E. Substructure: 55 years
F. Approach: 45 years
G. Channel: 55 years
H. Culvert: NA years

Remarks:

THE ABUTMENTS WERE WIDENED AND REBUILT, NEW PIERS WERE BUILT, AND A NEW SUPERSTRUCTURE WAS BUILT SINCE THE LAST INSPECTION. A 6" THICK CONCRETE SURFACE WAS CONSTRUCTED OVER EACH OF THE OLD ABUTMENTS FACES. THE PIERS ARE KEYED INTO ROCK. THE WEARING SURFACE HAS HAIRLINE TO NARROW TRANSVERSE CRACKS. THE SOUTH MUDWALL IS SPALLED. THE BRIDGE IS FLARED AT THE NORTH END. THE WEST SIDEWALK FEATURES A DECORATIVE PEDESTRIAN RAIL. THE BRIDGE ROADWAY WIDTH (ITEM 51) WAS PREVIOUSLY LISTED AS 68.9 FEET; THE WIDTH IS NOW LISTED AS 50.7 FEET, WHICH IS THE MORE RESTRICTIVE WIDTH AT THE SOUTH END OF THE BRIDGE.

Bridge No. 511



Looking Northeast



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00511

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00511
8A. NBI Number:	1800185	8C. Old Bridge Number:	
5A. Inventory Route On:	151001730	5B. Rd. Number On:	0173
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	HOYT AVENUE		
9A. Location:	150S 105W	9B Map Location:	E-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 10.3 Min.	17. Longitude:	085 Deg. 24.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	3 Epoxy
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1994	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	N NOT APPLICABLE	B. Contract Number:	B-20324
59C. Tons of Steel:		8D. Des. Number:	85685
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	004320	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	05 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0043.5 Feet	49. Structure Length:	0116.0 Feet
50. Sidewalk/Curb Left:	06.0 Right: 00.0		
51. Bridge Roadway Width:	027.0 Feet	52. Deck Width (o-o):	035.6 Feet
32. Approach Roadway Width:	027 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00511

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-RANDOM CRACKS	7
59. Super:	R.C SLAB	GOOD-SPALLING AT PVC DRAINS	7
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD-BOTH BENTS UNDERMINED	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONCRETE-CRACKS	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 249
66A. Inventory Rating: 236 64B. Year of Rating: 1994
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKS, ENDBENTS UNDERMINED	7
68. Geometry:	TWO LANES	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	INTERSECTION TO SOUTH OF STRUCTURE, STRAIGHT	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	F STEEL PILES - H COLUMNS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00511

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
UNDERPIN THE ENDBENTS AND REPAIR THE RIPRAP. REPLACE THE BROKEN PVC DRAIN EXTENSIONS. REPAIR THE SETTLED APPROACH WALKS. REPAIR THE SPALLS IN THE SLAB AND SEAL THE SUPERSTRUCTURE.

76. Improvement Length: 000116 feet
94. Bridge Imp. Costs: \$ 8 X 1000
95. Rdwy. Imp. Costs: \$ 6 X 1000
96. Total Project Costs: \$ 14 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 008300
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	48	years
C. Joints:	NA	years
D. Superstructure:	48	years
E. Substructure:	48	years
F. Approach:	20	years
G. Channel:	25	years
H. Culvert:	NA	years

Remarks:

THREE END MARKERS ARE MISSING. THE BRIDGE SIDEWALKS ARE HEAVILY CRACKED. THERE ARE RANDOM NARROW CRACKS IN THE SLAB WEARING SURFACE. HAIRLINE CRACKS ARE PRESENT AT THE COPINGS NEXT TO THE PIERS IN THE SHEAR ZONE. THERE ARE SPALLS IN THE SLAB AROUND THE PVC DRAIN OUTLETS. A PILE IS EXPOSED AT THE NORTH ENDBENT. THE SIDEWALKS ARE SETTLED AT THE SOUTH END OF THE APPROACH PAD. THE SOUTHEAST COPING IS CRACKED AND HONEYCOMBED BELOW. THE CONCRETE APPROACH PADS ARE SETTLED, MAKING THE TRANSITION TO ASPHALT ROUGH.

Bridge No. 512



Looking Northwest



Looking Northerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00512

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00512
8A. NBI Number:	1800186	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	HIGH STREET		
9A. Location:	30N 10W	9B Map Location:	F-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.8 Min.	17. Longitude:	085 Deg. 23.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	402D COMPOSITE CONTINUOUS STEEL BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	2 Integral Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1937	106A. Reconstructed:	2005
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	8 VERY GOOD	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	05 Under: 00		
29A. ADT - Over:	020100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0078.0 Feet	49. Structure Length:	0315.0 Feet
50. Sidewalk/Curb Left:	02.0 Right: 05.0		
51. Bridge Roadway Width:	054.0 Feet	52. Deck Width (o-o):	071.6 Feet
32. Approach Roadway Width:	054 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	54.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00512

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-480 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	UNDER CONSTRUCTION	8
59. Super:	CONTINUOUS STL BM	UNDER CONSTRUCTION	8
60. Sub:	CONCRETE	GOOD-REPAIRS MADE	7
61. Channel:	EARTH/RIPRAP	UNDER CONSTRUCTION	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH & CONC-UNDER CONST	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 2005
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: G NEW BRIDGE, NOT OPEN YET
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	RECONSTRUCTION UNDER WAY	7
68. Geometry:	FIVE LANES INCLUDING ONE TURN LANE	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE-CHANNEL CURVES THROUGH BRIDGE	7
72. Roadway Alignment:	LOW APPROACH SOUTH; INTERSECTION BOTH ENDS	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	I COMBINATIONS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	S OTHER COMBINATIONS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00512

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
COMPLETE THE RECONSTRUCTION.

76. Improvement Length: 000315 feet
94. Bridge Imp. Costs: \$ 2000 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 2050 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 036500
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0603 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	30	years
B. Deck:	50	years
C. Joints:	20	years
D. Superstructure:	60	years
E. Substructure:	60	years
F. Approach:	40	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE OLD SIMPLE STEEL BEAM SUPERSTRUCTURE IS BEING REPLACED WITH A COMPOSITE CONTINUOUS STEEL BEAM SUPERSTRUCTURE. THE BRIDGE IS BEING WIDENED IN ORDER TO PROVIDE TURN LANES. THE FOUNDATIONS FOR THE NEW PIER EXTENSIONS AND ABUTMENT EXTENSIONS ARE SPREAD FOOTINGS ON H-PILES. PAST INVENTORIES LISTED THE OLD FOUNDATIONS AS SPREAD FOOTINGS WITH NO PILES. THE PLANNED RAILS ARE A COMBINATION OF TEXAS RAIL AND A MODIFIED TYPE PS RAIL. AN ADDITIONAL 7.9' PEDESTRIAN WALK WILL BE PROVIDED ON THE LEFT SIDE OUTSIDE THE MODIFIED TYPE PS RAIL. A DECORATIVE PEDESTRIAN RAIL IS TO BE PROVIDED AT THE UPSTREAM COPING. ALL CONDITION RATINGS ASSUME GOOD WORKMANSHIP.

Bridge No. 513



Looking East



Looking Northerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00513

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00513
8A. NBI Number:	1800187	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	JACKSON STREET		
9A. Location:	00N 65W	9B Map Location:	F-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.6 Min.	17. Longitude:	085 Deg. 24.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM	45. No. of Spans - Main:	004
43C. Main Widening Type:			
44A. Str. Type - Approach	000 NONE	46. No. of Spans - Appr:	0000 NONE
44C. Other Approach Types:	NO		
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1937	106A. Reconstructed:	1984
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	4 POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	03 Under: 00		
29A. ADT - Over:	012300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0076.0 Feet	49. Structure Length:	0315.0 Feet
50. Sidewalk/Curb Left:	05.0 Right: 05.0		
51. Bridge Roadway Width:	034.2 Feet	52. Deck Width (o-o):	046.5 Feet
32. Approach Roadway Width:	034 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	34.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00513**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-115** 104B. - Under:
 26A. Functional Class Over: **16 MINOR ARTERIAL - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-LEACHING, RANDOM CRACKS	6
59. Super:	STEEL BEAMS	POOR-RUST,SAG,COPING SPALLED	4
60. Sub:	CONCRETE	FAIR-PIERS SPALLED,	5
61. Channel:	EARTH/VEGETATION	GOOD-MINOR EROSION	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-SETTLED/CRKD, VOID-EAST	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **216**
 66A. Inventory Rating: **215** 64B. Year of Rating: **1989**
 66B. Gross Tons or H Rating: **15**
 70. Bridge Posting: **4 15 TON LIMIT**
 41. Open, Posted, or Closed: **P POSTED FOR LOAD**
 66C. Tons Posted: **15** 66D. Date Posted/Closed: **03 / 89**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	RUSTED BEARINGS, SPALLS, BMS SAG, LOAD RATING	2
68. Geometry:	THREE LANES - SOMEWHAT NARROW	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	INTERSECTIONS AT ENDS, LEFT TURN LANE ON STR	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00513

PROPOSED IMPROVEMENTS:

73. Year Needed: 2008

75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT

Describe Item 75:

REPLACE BY CONTRACT DUE TO GENERAL DETERIORATION AND SAGGING BEAMS. IN THE MEANTIME, PLACE RIPRAP AROUND THE MIDDLE PIER, ADD PEDESTRIAN HANDRAILS AT THE WEST END, AND CLEAN THE DRAINS. RELOCATE THE BATS PRIOR TO CONSTRUCTION.

76. Improvement Length: 000315 feet

94. Bridge Imp. Costs: \$ 869 X 1000

95. Rdwy. Imp. Costs: \$ 200 X 1000

96. Total Project Costs: \$ 1069 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 022500

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A

93. Crit. Feat. Insp. Date: A: B: 0603 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 04 years

B. Deck: 10 years

C. Joints: 00 years

D. Superstructure: 08 years

E. Substructure: 13 years

F. Approach: 15 years

G. Channel: 05 years

H. Culvert: NA years

Remarks:

THE BEAMS ARE SAGGING. THE BEAMS OVER THE WEST PIER ARE HEAVILY RUSTED AND DELAMINATED. THE ROLLERS ARE RUSTED AND NOT WORKING. THE JOINTS OVER THE PIERS HAVE FAILED AT THE CURBS. THE EAST AND WEST PIERS HAVE HEAVY SPALLING AT THE FACES. THE EAST PIER HAS HEAVY SPALLING UNDER THE SOUTH BEAM SEAT. GENERAL CRACKS AND SPALLING CAN BE FOUND THROUGHOUT THE DECK AND SUBSTRUCTURE. AT LEAST ONE BAT WAS FOUND ROOSTING IN A JOINT. UTILITY WORK IS UNDERWAY AT THE SOUTH SIDEWALK. A FEW NUTS ARE MISSING AT THE BRIDGE RAIL BASES. THE DECK DRAINS ARE PARTIALLY BLOCKED. THE NORTHEAST APPROACH SIDEWALK IS SETTLED 2-1/2". THE CURB IS DETERIORATED AT SEVERAL LOCATIONS, POSING A HAZARD TO PEDESTRIANS.

Bridge No. 514



Looking Northeasterly



Looking Southeasterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00514

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00514
8A. NBI Number:	1800195	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	BROADWAY AVENUE		
9A. Location:	40N 55E	9B Map Location:	F-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.0 Min.	17. Longitude:	085 Deg. 22.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	111A REINFORCED CONCRETE ARCH		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	00 Inches

AGE AND SERVICE:

27A. Year Built:	1936	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	B-23340
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	015900	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	05 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0076.2 Feet	49. Structure Length:	0365.0 Feet
50. Sidewalk/Curb Left:	05.4 Right: 05.4		
51. Bridge Roadway Width:	045.9 Feet	52. Deck Width (o-o):	059.0 Feet
32. Approach Roadway Width:	046 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	45.9 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00514

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-060 104B. - Under:
26A. Functional Class Over: 14 OTHER PRIN. ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE PAVEMENT	GOOD-SPALLS AT CURB	8
59. Super:	CONCRETE ARCH	GOOD-CRACKS SEALED	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	EARTH/VEGETATION	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONC AND ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 225
66A. Inventory Rating: 220 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR SPALLS, LOW LOAD RATING FOR ADT	4
68. Geometry:	NARROW FOR 4 LANES	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE; CHANNEL CURVES UPSTREAM	7
72. Roadway Alignment:	INTERSECTION NORTH; BUSINESS DRIVE SOUTH	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	7 FIXED - NOT SCOUR CRIT.	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00514

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
CLEAN THE DECK DRAINS. PERIODICALLY CRACKSEAL THE DECK. REPLACE THE WEEP HOLE PIPE EXTENSION USING A 4" PVC ELBOW.

76. Improvement Length: 000365 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 028500
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	25	years
B. Deck:	40	years
C. Joints:	NA	years
D. Superstructure:	40	years
E. Substructure:	40	years
F. Approach:	20	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THERE IS DECORATIVE LIGHTING ON THE BRIDGE RAIL. THE SIDEWALKS ARE CRACKED TRANSVERSELY. THE DECK IS SPALLED NEXT TO THE CURBS. THERE ARE MINOR SPALLS AT THE PIER COLUMN TEN FEET UP AT THE NORTHEAST CORNER. THE DECK DRAINS ARE COMPLETELY PLUGGED. CLEANING THE DRAINS AND SEALING THE JOINTS IN THE DECK WOULD REDUCE SEEPAGE THROUGH THE ARCH FILL AND EXTEND THE LIFE OF THE DECK, ARCH, AND SUBSTRUCTURE. THE WEEP HOLE PIPE EXTENSION AT THE SOUTHWEST PIER IS BROKEN, ALLOWING SEEPAGE ONTO THE PIER.

Bridge No. 515



Looking Northwesterly



Looking Northeasterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00515

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00515
8A. NBI Number:	1800515	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUNCIE CREEK		
7. Facility Carried:	McCULLOCH BLVD		
9A. Location:	55N 30E	9B Map Location:	F-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.1 Min.	17. Longitude:	085 Deg. 22.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	8 Unknown
108C. Protection:	8 Unknown	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1970	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	5 FAIR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001428	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	00 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0021.5 Feet	49. Structure Length:	0025.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	022.7 Feet	52. Deck Width (o-o):	023.2 Feet
32. Approach Roadway Width:	026 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	09 ' 04 "	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.7 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	09 ' 04 "	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00515

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-WEATHERED	6
59. Super:	STEEL BEAMS	FAIR-LIGHT RUST THROUGHOUT	6
60. Sub:	CONCRETE	FAIR-WEATHERED	6
61. Channel:	CONCRETE,BEDROCK	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR	2

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 230
66A. Inventory Rating: 225 64B. Year of Rating:
66B. Gross Tons or H Rating: 25
70. Bridge Posting: 5 POSTED "9'- 4" CLEARANCE"
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BEAMS RUSTED, OUTSIDE BEAM DELAM-TOP FLANGE	6
68. Geometry:	NARROW	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING	5
72. Roadway Alignment:	POOR-RAILROAD BRIDGE ABUT TO THE NORTHWEST	2
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00515

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

PROVIDE END MARKERS. INSTALL ADDITIONAL DELINEATION FOR THE RAILROAD BRIDGE ABUTMENT. INSTALL "ONE LANE ROADWAY" SIGNS. ADD BRIDGE RAIL POSTS. EXTEND THE APPROACH RAIL. ADD END TREATMENTS.

76. Improvement Length: 000025 feet

94. Bridge Imp. Costs: \$ 3 X 1000

95. Rdwy. Imp. Costs: \$ 4 X 1000

96. Total Project Costs: \$ 7 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 002550

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	20	years
C. Joints:	30	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	02	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE SOUTHEAST APPROACH IS MUCH WIDER THAN THE BRIDGE WHILE THE APPROACH IS MUCH NARROWER TO THE NORTHWEST (16') DUE TO THE RAILROAD BRIDGE ABUTMENT. NO END MARKERS ARE POSTED. THE OUTSIDE BEAMS ARE HEAVILY RUSTED AND DELAMINATED.

Bridge No. 516



Looking North



Looking Southeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00516

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00516
8A. NBI Number:	1800189	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	WHITE RIVER		
7. Facility Carried:	TILLOTSON AVENUE		
9A. Location:	55S 175W	9B Map Location:	E-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.2 Min.	17. Longitude:	085 Deg. 25.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1964	106A. Reconstructed:	1984
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00		
29A. ADT - Over:	017300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	06 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0078.0 Feet	49. Structure Length:	0320.0 Feet
50. Sidewalk/Curb Left:	02.0 Right: 02.0		
51. Bridge Roadway Width:	060.3 Feet	52. Deck Width (o-o):	064.3 Feet
32. Approach Roadway Width:	062 Feet	33. Bridge Median:	2 CLOSED/NO BARRIER
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00516

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-740 104B. - Under:
26A. Functional Class Over: 14 OTHER PRIN. ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-CURBS SPALL;MIN EFFLOR	5
59. Super:	PRESTRESSED CONC I-BEAM	FAIR-BEAM ENDS SPALLED	5
60. Sub:	CONCRETE	FAIR-SPALLING AT PIERS	5
61. Channel:	CONC SLOPEWALL	FAIR-CRACKED & SILTING SOUTH	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKED, SMALL POTHOLE	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT, VETERAN'S MEMORIAL BRIDGE
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HVY SPALLING AT PIERS, BEAM ENDS, AND CURBS	5
68. Geometry:	FOUR LANES - NARROW FOR FOUR LANES	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	INTERSECTIONS TO N & S, LEVEL, STRAIGHT	5
36A. Traffic Safety Features:	1010 BR & APP RAILING	
36B Bridge Rail Type:	E CONC. W. 2 METAL TUBES	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00516

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:

REHABILITATE THE SUPERSTRUCTURE TO CREATE A CONTINUOUS STRUCTURE. ADD DIAPHRAGMS TO THE BEAMS. PATCH THE SPALLS AND DELAMINATIONS IN THE PIERS, CURBS, AND ENDS OF BEAMS. SCARIFY AND PLACE NEW OVERLAY. MAKE FULL DEPTH PATCHES AS REQUIRED. ADD AN END TREATMENT AT THE SOUTHEAST CORNER. PLACE UPDATED TERMINAL CONNECTORS AT THE TRANSITIONS.

76. Improvement Length: 000320 feet
94. Bridge Imp. Costs: \$ 270 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 280 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 033000
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0303 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	10	years
C. Joints:	01	years
D. Superstructure:	10	years
E. Substructure:	10	years
F. Approach:	08	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE DECK OVERLAY AND PIERS HAVE LARGE AREAS OF DELAMINATION AND SPALLS UP TO TWO INCHES DEEP. THE JOINTS ARE LEAKING AND FAILING DUE TO SPALLS AT THE OVERLAY EDGES. LARGE AREAS OF OVERLAY ARE LOOSE. THE BEARING PADS ARE RUSTED AND DEFORMED. THE SOUTH END OF THE BEAMS IN THE NORTH SPAN ARE HEAVILY SPALLED AND DETERIORATED. THE NORTH PIER CAP IS HEAVILY SPALLED. THE TOP TUBE OF THE WEST BRIDGE RAIL IS DAMAGED IN ONE LOCATION. THE NORTH SLOPEWALL HAS A VOID UNDER IT AT THE WEST SIDE APPARENTLY DUE TO A WATER MAIN BREAK. THE END TREATMENT AT THE SOUTHEAST APPROACH IS MISSING. THE RAIL TRANSITION HARDWARE IS INADEQUATE. MUCH OF THE CENTERLINE JOINT MATERIAL IS MISSING BETWEEN THE STRUCTURES. SOME OF THE DECK JOINTS ARE LOOSE. THE DECK HAS ONE LARGE AREA OF SPALLING BELOW IN THE SOUTH SPAN NEXT TO THE EAST OUTSIDE BEAM.

Bridge No. 517



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00517

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00517
8A. NBI Number:	1800190	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	TILLOTSON AVENUE		
9A. Location:	90N 175W	9B Map Location:	E-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.3 Min.	17. Longitude:	085 Deg. 25.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	311 METAL PIPE ARCH	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	9 OTHER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	04 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1973	106A. Reconstructed:	1982
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	04 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	021800	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0012.0 Feet	49. Structure Length:	0045.0 Feet
50. Sidewalk/Curb Left:	05.0 Right: 05.0	52. Deck Width (o-o):	070.0 Feet
51. Bridge Roadway Width:	048.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	048 Feet	35. Structure Flared:	0 NO
34. Skew:	10 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
47A. Total Hor. Clr. - Over:	48.0 Feet	54A. Type:	N/A
47C. Total Hor. Clr. - Under:	Feet	55A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)		
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00517**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-740** 104B. - Under:
 26A. Functional Class Over: **14 OTHER PRIN. ARTERIAL - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	7
59. Super:	STEEL PIPE ARCH	FAIR-MINOR DEFL IN ALL PIPES	6
60. Sub:	CONCRETE ENDWALLS	FAIR-CRACKED, LIGHT EFFLOR	6
61. Channel:	RIPRAP/VEGETATION	FAIR	6
62. Culv/Ret:	N/A	N/A	N/A
65. Approach Roadway:		CONCRETE-FAIR-CRACKED	6

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
 64A. Operating Rating: **231**
 66A. Inventory Rating: **225** 64B. Year of Rating:
 66B. Gross Tons or H Rating: **20**
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DEFL IN PIPES, CRACKED ENDWALLS, LOAD RATING	5
68. Geometry:	FOUR LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	INTERSECTION NORTH AND SOUTH. STRAIGHT, LEVEL	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	E CONC. W. 2 METAL TUBES	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00517

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

INSTALL APPROACH RAIL WITH END TREATMENTS. CUT OFF THE BOLTS IN THE ENDWALLS. CRACKSEAL THE JOINTS IN THE DECK AND APPROACHES. REPAIR THE DRAIN PIPE AND SINKHOLE AT THE NORTHEAST CORNER. REPAIR THE SIDEWALKS. CLEAR DEBRIS AT THE PIPE INLETS.

76. Improvement Length: 000045 feet

94. Bridge Imp. Costs: \$ 6 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 16 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 039500

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 15 years

B. Deck: 10 years

C. Joints: NA years

D. Superstructure: 13 years

E. Substructure: NA years

F. Approach: 10 years

G. Channel: 10 years

H. Culvert: NA years

Remarks:

THE HEADWALLS ARE CRACKED AND EFFLORESCING. LONG BOLTS ARE STICKING OUT AT THE ENDWALLS. THERE IS SEEPAGE THROUGH THE JOINTS IN THE ROADWAY. THE SIDEWALKS ARE SETTLED AND UNEVEN. A SINKHOLE HAS DEVELOPED AT THE NORTHEAST CORNER. DEBRIS HAS ACCUMULATED AT THE PIPE INLETS.

Bridge No. 518



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00518

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00518
8A. NBI Number:	1800191	8C. Old Bridge Number:	
5A. Inventory Route On:	151001580	5B. Rd. Number On:	0158
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	YORK PRAIRIE CREEK		
7. Facility Carried:	PETTY ROAD		
9A. Location:	90N 230W	9B Map Location:	E-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.3 Min.	17. Longitude:	085 Deg. 26.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0044.0 Feet	49. Structure Length:	0047.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	024.4 Feet	52. Deck Width (o-o):	028.1 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00518**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 M-640** 104B. - Under:
 26A. Functional Class Over: **17 COLLECTOR - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-OVERLAID	8
59. Super:	PRESTRESSED BOX BEAMS	GOOD-SEEPAGE AT DECK DRAINS	7
60. Sub:	CONCRETE END BENTS	GOOD	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-GOOD-VOID UNDER ROAD	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **244**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating: **20**
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD-REPAIRS, FULL DEPTH PATCHING-MIDDLE 1/3	7
68. Geometry:	TWO LANES - NARROW FOR COLLECTOR ROUTE	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL. INTERSECTION SOUTH.	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00518

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

INSTALL GUARDRAIL AT ALL CORNERS. INSTALL ADDITIONAL END MARKERS; REPLACE THE ONE AT THE SOUTHWEST CORNER. EXTEND THE DRAIN PIPES PAST THE BOTTOM OF THE BEAMS. FILL THE VOID UNDER THE PAVEMENT WITH FLOWABLE MORTAR.

76. Improvement Length: 000047 feet

94. Bridge Imp. Costs: \$ 3 X 1000

95. Rdwy. Imp. Costs: \$ 11 X 1000

96. Total Project Costs: \$ 14 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 003200

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	13	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	22	years
E. Substructure:	22	years
F. Approach:	03	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE IN PLACE; THE NORTHWEST END MARKER HAS BEEN VANDALIZED AND PARTIALLY DEFACED. A PIPELINE IS SUPPORTED BELOW THE BRIDGE. THERE IS A LIGHT LONGITUDINAL CRACK AT THE NORTH END OF THE OVERLAY. A HOLE HAS DEVELOPED IN THE NORTHBOUND PAVEMENT AT THE NORTH END OF THE DECK; FILL LOSS IS POSSIBLY THROUGH THE CONDUIT THROUGH THE MUDWALL.

Bridge No. 519



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00519

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00519
8A. NBI Number:	1800194	8C. Old Bridge Number:	
5A. Inventory Route On:	156000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	BUCK CREEK		
7. Facility Carried:	PARK ST., TRUCK RT		
9A. Location:	130S 200W	9B Map Location:	E-4
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 11.4 Min.	17. Longitude:	085 Deg. 25.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1978	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1997
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	008000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	04 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0042.0 Feet	49. Structure Length:	0107.7 Feet
50. Sidewalk/Curb Left:	00.0 Right: 03.0		
51. Bridge Roadway Width:	030.0 Feet	52. Deck Width (o-o):	036.0 Feet
32. Approach Roadway Width:	037 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00519

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-200 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ OVERLAY	GOOD-DECK OVERLAID	7
59. Super:	PRESTRESSED CONC I-BEAMS	GOOD	7
60. Sub:	CONCRETE	GOOD-HORIZ CRACK S BENT SEAT	7
61. Channel:	RIPRAP, SILT	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT, POSTED "TRUCK ROUTE"
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKS, LOOSENING OVERLAY	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE - CHANNEL CURVES THRU BRIDGE	6
72. Roadway Alignment:	CURVE TO SOUTH AND NORTH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00519

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL END MARKERS AND GUARDRAIL TRANSITIONS. ADD APPROACH RAIL POSTS. SEAL THE END JOINTS. REPAIR THE MUDWALL. REPOINT THE SOUTH ENDBENT. REPAIR THE LOOSE OVERLAY.

76. Improvement Length: 000108 feet
94. Bridge Imp. Costs: \$ 7 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 10 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 014400
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/4/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	06	years
B. Deck:	22	years
C. Joints:	02	years
D. Superstructure:	35	years
E. Substructure:	33	years
F. Approach:	15	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

NO END MARKERS ARE POSTED. THE TOP OF THE MUDWALL IS BROKEN AT THE SOUTHEAST. THE END JOINTS ARE LEAKING. LARGE AREAS OF OVERLAY ARE CRACKED AND LOOSENING. THE SOUTH ENDBENT IS CRACKED AND DELAMINATED AT THE TOP OF THE CAP. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6". THERE ARE NO GUARDRAIL TRANSITIONS; THERE IS AN ABRUPT CURVE IN THE APPROACH RAIL AT THE NORTHWEST CORNER. THE STREAM IS DEEPEST NEXT TO THE NORTH PIER. THE WEARING SURFACE HAS VERY LITTLE TEXTURE.

Bridge No. 520



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00520

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00520
8A. NBI Number:	1800518	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:	231000320	5D. Rd. Number Under:	0032
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	51876 MUNCIE
6. Features Intersected:	SR32, CONRAIL, & 8TH ST.		
7. Facility Carried:	TILLOTSON AVENUE		
9A. Location:	4.90 WEST OF SR3	9B Map Location:	
11A. Milepoint (over):	00000		
11B. Milepoint (under):	00000		
16. Latitude:	40 Deg. 10.9 Min.	17. Longitude:	085 Deg. 25.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	502 PRESTRESSED CONCRETE I-BEAMS		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0003
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1975	106A. Reconstructed:	1998
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	14 HWY./HWY.,RR		
28A. Lanes on Structure:	04 Under: 06		
29A. ADT - Over:	010000	30A. ADT Year - Over:	1990
29B. ADT - Under:	018000	30B. ADT Year - Under:	1990
109. Average Truck Traffic:	04 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0083.0 Feet	49. Structure Length:	0314.0 Feet
50. Sidewalk/Curb Left:	01.3 Right: 00.3		
51. Bridge Roadway Width:	058.0 Feet	52. Deck Width (o-o):	065.0 Feet
32. Approach Roadway Width:	062 Feet	33. Bridge Median:	3 CLOSED/W. BARRIER
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	25 ' 07 "
47A. Total Hor. Clr. - Over:	29.0 Feet		
47C. Total Hor. Clr. - Under:	52.0 Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	23 ' 03 "
55B. Lateral Right:	00.0 Feet	54A. Type: RAILROAD	55A. Type: HIGHWAY
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00520

NAVIGATION DATA:

38. Navigational Control: **N N/A-NO WATERWAY** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0** 104B. - Under: **0**
26A. Functional Class Over: **14 OTHER PRIN. ARTERIAL - URBAN**
26B. Functional Class Under: **14 OTHER PRIN. ARTERIAL - URBAN**
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **04 CITY** 22. Owner: **04 CITY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ OVERLAY	FAIR-SOME LOOSE OVERLAY	6
59. Super:	PRESTRESSED CONC I-BEAMS	POOR-SPALLING AT BEAM ENDS	4
60. Sub:	CONCRETE	FAIR-LOCAL SPALLING, SEEPAGE	6
61. Channel:	N/A	N/A	N/A
62. Culv/Ret:	N/A	N/A	N/A
65. Approach Roadway:		ASPHALT - NE SHOULDER ERODED	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **245**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SPALLED CONCRETE I BEAMS, DETERIORATING BENTS	4
68. Geometry:	FOUR LANES - NARROW FOR 4 LANES	3
69. Underclearance:	SOMEWHAT BETTER THAN MINIMUM	3
71. Waterway Adequacy:	N/A	N/A
72. Roadway Alignment:	CURVES BOTH WAYS; HUMP OVER BRIDGE	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	N N/A	
113B. Foundation Type:	R COMBINATION OF A AND D	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00520

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

REPAIR THE SPALLED BEAMS AND INTERIOR BENTS. PATCH THE OVERLAY. REPAIR THE VOID UNDER THE NORTHEAST SHOULDER. REPAIR THE MEDIAN RAIL AND APPROACH RAIL. REPLACE THE ALUMINUM BRIDGE RAIL WITH CONCRETE BRIDGE RAIL. ADD A BOTTOM RAIL TO THE ALUMINUM APPROACH RAIL. ADD APPROPRIATE TRANSITIONS FROM ALUMINUM TO STEEL RAIL.

76. Improvement Length: 000314 feet

94. Bridge Imp. Costs: \$ 270 X 1000

95. Rdwy. Imp. Costs: \$ 30 X 1000

96. Total Project Costs: \$ 300 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 018200

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/11/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 06 years

B. Deck: 20 years

C. Joints: 03 years

D. Superstructure: 08 years

E. Substructure: 12 years

F. Approach: 02 years

G. Channel: NA years

H. Culvert: NA years

Remarks:

STATE BR 32-18-2182. HEAVY SPALLING IS PRESENT AT SOME OF THE BEAM ENDS. THE SOUTH END OF THE WEST BEAM IN THE NORTH SPAN HAS THREE EXPOSED TENDONS, TWO OF WHICH ARE PARTIALLY RUSTED THROUGH. THE DECK OVERLAY IS HEAVILY CRACKED. THE SOUTH MEDIAN RAIL IS DAMAGED. THE NORTH INTERIOR BENT AND THE SECOND INTERIOR BENT FROM THE SOUTH ARE DETERIORATING. THERE IS A LARGE VOID UNDER THE NORTHEAST SHOULDER PAVEMENT, WINGWALL, AND SLOPEWALL AND PRESUMABLY UNDER THE ENDBENT CAP. THE ALUMINUM APPROACH RAIL IS HIGH AND DAMAGED. THE TRANSITIONS FROM ALUMINUM APPROACH RAIL TO STEEL RAIL ARE INADEQUATE. THERE ARE NUMEROUS AREAS OF COLLISION DAMAGE AT THE ALUMINUM BRIDGE RAIL, ESPECIALLY AT THE EAST RAIL

Bridge No. 602



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00602

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00602
8A. NBI Number:	1800207	8C. Old Bridge Number:	
5A. Inventory Route On:	151000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	27072 GASTON
3. County:	18 DELAWARE		
6. Features Intersected:	PIPE CREEK		
7. Facility Carried:	MILL STREET		
9A. Location:	850N 625W	9B Map Location:	C-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 18.8 Min.	17. Longitude:	085 Deg. 30.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1981	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0026.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 07.7	52. Deck Width (o-o):	033.1 Feet
51. Bridge Roadway Width:	024.7 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	023 Feet	35. Structure Flared:	0 NO
34. Skew:	20 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.7 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00602**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **19 LOCAL - URBAN**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-CRACKS IN WEARING SURF	6
59. Super:	TIMBER SLAB	GOOD	7
60. Sub:	TIMBER PILES AND WINGWALLS	FAIR-WEATHERED	6
61. Channel:	RIPRAP	FAIR-RIPRAP IN CHANNEL	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-MINOR SETTLEMENT	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **240**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SOME MISSING OR LOOSE NUTS ON SUPERSTR & SUB	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	LEVEL. INTERSECTION WEST, DRIVE SOUTHWEST	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00602

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

**INSTALL GUARDRAIL AT ALL CORNERS. REPLACE OR TIGHTEN THE NUTS WHERE NEEDED.
PLACE END MARKERS AT ALL CORNERS. REMOVE THE EXISTING WEARING SURFACE.
RESURFACE THE BRIDGE DECK.**

76. Improvement Length: 000026 feet

94. Bridge Imp. Costs: \$ 4 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 14 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000210

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 03 years

B. Deck: 07 years

C. Joints: NA years

D. Superstructure: 07 years

E. Substructure: 06 years

F. Approach: 10 years

G. Channel: 20 years

H. Culvert: NA years

Remarks:

NO END MARKERS ARE POSTED. THERE IS A SIDEWALK STRUCTURE ALONG THE SOUTH COPING. THE TIMBER POSTS ARE NOT STANDARD FOR BRIDGE RAIL. THERE IS MINOR DECAY IN THE MUDWALLS AROUND THE CONDUIT. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS. SOME NUTS ARE MISSING OR LOOSE IN THE SUPERSTRUCTURE AND SUBSTRUCTURE. THE APPROACH PAVEMENT HAS SOME MINOR SETTLEMENT.

Bridge No. 701



Looking Southeasterly



Looking Southwesterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

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BRIDGE NO. 00701

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00701
8A. NBI Number:	1800193	8C. Old Bridge Number:	
5A. Inventory Route On:	151003210	5B. Rd. Number On:	0321
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00802 ALBANY
3. County:	18 DELAWARE		
6. Features Intersected:	HALFWAY CREEK		
7. Facility Carried:	WATER STREET		
9A. Location:	735N 800E	9B Map Location:	K-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.9 Min.	17. Longitude:	085 Deg. 14.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM	45. No. of Spans - Main:	001
43C. Main Widening Type:			
44A. Str. Type - Approach	000 NONE	46. No. of Spans - Appr:	0000 NONE
44C. Other Approach Types:	NO		
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1952	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	4 POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0057.0 Feet	49. Structure Length:	0059.8 Feet
50. Sidewalk/Curb Left:	05.0 Right: 02.0		
51. Bridge Roadway Width:	024.1 Feet	52. Deck Width (o-o):	032.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00701

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9318 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-SPALLING, LEACHING	5
59. Super:	STEEL BEAM	FAIR-HVY RUST:TOP FLNGS, SAG	5
60. Sub:	CONCRETE	FAIR-SPALLED NW, CRACKS	6
61. Channel:	EARTH/VEGETATION	FAIR-SOME EROSION	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKS, SETTLING	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 234
66A. Inventory Rating: 227 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 15
70. Bridge Posting: 4 15 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 15 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MOD RUST;DIRTY BRGS;SECT LOSS AT TOP FL, SAG	5
68. Geometry:	TWO LANES-NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SOMEWHAT INADEQUATE-DEBRIS IN BEAMS	7
72. Roadway Alignment:	INTERSECTION NORTH, CURVE SOUTH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	H MISC. STEEL RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00701

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
REPLACE THE DECK. BLAST AND PAINT BEAMS AND BEARINGS. REPAIR THE SPALLED NORTHWEST ABUTMENT. RIPRAP THE CHANNEL. INSTALL THE APPROACH RAIL WITH END TREATMENTS AND CURB TRANSITIONS. WIDEN THE SHOULDERS.

76. Improvement Length: 000060 feet
94. Bridge Imp. Costs: \$ 110 X 1000
95. Rdwy. Imp. Costs: \$ 15 X 1000
96. Total Project Costs: \$ 125 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000950
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/29/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	02	years
C. Joints:	NA	years
D. Superstructure:	15	years
E. Substructure:	20	years
F. Approach:	12	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE CORNERS ARE ERODED. THE SOUTHEAST SHOULDER DROPS OFF. THE CONCRETE END POSTS ARE DETERIORATED. THERE IS SECTION LOSS AT THE NORTH BEARING OF THE EAST BEAM. THE BEAM SEAT IS SPALLED AT THE NORTHWEST CORNER. THE TWO WEST BEAMS HAVE HEAVY RUST AND SECTION LOSS IN THE TOP FLANGE; THE OUTSIDE BEAM IS THE WORSE OF THE TWO. THE WEST SIDEWALK AND COPING ARE HEAVILY SPALLED. THE DECK WEARING SURFACE HAS HEAVY SURFACE SPALLING. THE DECK IS CRACKED AND EFFLORESCING BELOW. THE BEAMS HAVE APPROXIMATELY ONE INCH OF SAG.

APPENDIX A
DESCRIPTION OF ITEMS
STRUCTURE INVENTORY AND APPRAISAL SHEET
DELAWARE COUNTY

1. **State:** "Indiana" (178) for all bridges.
2. **Hwy. District:** Indiana Department of Transportation highway district number in which the bridge is located: Greenfield District (03).
3. **County:** "Delaware" (18) for all bridges.
4. **City/Town:** Only cities and towns above 5,000 population are listed. Bridges are listed as being in an urban area rather than within corporation limits. This item is coded all "zeroes" (i.e., not applicable) for bridges in rural locations.
5. **Inventory Route:** This is the road inventory route number used by HERPICC* and the Indiana Department of Transportation.
6. **Features Intersected:** This is the stream, road, railroad or other feature under the bridge.
7. **Facility Carried:** This is the local road designation of the highway passing over the bridge.
8. **Structure No.:** This is the bridge number which, in general, follows the HERPICC bridge numbering system with exceptions noted elsewhere in this report.
9. **Location:** The location of the bridge using local road designations, county lines, other locally recognized features, or map boundary location codes.
10. **Inv. Route, Vert. Clear.:** This is the minimum vertical clearance for a 10 foot width of the pavement or traveled part of the inventory route roadway where the clearance is the greatest.

Items 11, 12, 13, 14, 15, 16, 17, and 18 are information for Defense Highways. All Defense Highways in Indiana are under State jurisdiction.

11. **Milepoint:**
12. **Road Section Number:** Item no longer used.
13. **Bridge Description:** Item no longer used. See Items 100, 101, 102, and 103.
14. **Defense Milepoint:** Item no longer used.
15. **Defense Section Length:** Item no longer used.
16. **Latitude:** Determined from U.S.G.S. Quadrangle maps.

17. **Longitude:** Determined from U.S.G.S. Quadrangle maps.
18. **Physical Vulnerability:** Item no longer used.
19. **Bypass Length:** This is the total additional travel, to the nearest mile, for a vehicle, which would result from closing of the bridge.
20. **Toll:** All of the bridges under Delaware County jurisdiction are toll free and carry a toll free highway. This item is "On Free Road" (3) for all of these bridges.
21. **Custodian:** "Delaware County" for all bridges.
22. **Owner:** "Delaware County" for all bridges.
23. **Federal-Aid Project No.:** Item no longer used.
24. **Fed. Aid System:** Item no longer used. See Item 104.
25. **Administrative:** Item no longer used.
26. **Functional:** Functional classification of the road over the bridge as determined by information from the Indiana Department of Transportation.
27. **Year Built:** Year (or approximate year) the bridge was built.
28. **Lanes on Str.:** Lanes of highway traffic carried on the structure and lanes of highway under the bridge.
29. **ADT:** Current average daily traffic count on bridge to the nearest ten vehicles. These were estimated where recent counts were not available.
30. **Year:** Year traffic count was taken or estimated.
31. **Design Load:** The live load which the bridge was originally designed to carry. Except for recent bridges where construction plans are available, this value is unknown.
32. **Appr. Rdwy. Width/Shldr.:** Shoulder-to-shoulder width of the approach roadway.
33. **Bridge Median:** Describes the median on a bridge, whether none, open or closed.
34. **Skew:** The angle of bridge skew to the nearest degree.
35. **Structure Flared:** Describes whether or not the bridge varies in width. Minor flares such as flared wings are ignored. "Yes" (1) or "No" (0).

36. **Traffic Safety Features:** Four digits telling whether the bridge railing, transitions, approach guardrail, and approach guardrail terminal ends "meet" (1) or "do not meet" (0) currently acceptable standards.
37. **Historical Significance:** This item indicates that a bridge may be particularly unique example of the history of engineering; the crossing itself might be significant; the bridge may be associated with an historical property or area; or the bridge may be associated with significant events or circumstances. One of the following 1-digit codes is used as applicable:
1. Bridge is on the National Register of Historic Places.
 2. Bridge is eligible for the National Register of Historic Places.
 3. Bridge is possibly eligible for the National Register of Historic Places or bridge is on a State or Local historic register. (Requires further investigation before determination can be made.)
 4. Historical significance is not determinable at this time.
 5. Bridge is not eligible for the National Register of Historic Places.
38. **Navigation Control:** Describes whether or not navigation control exists on navigable streams. "Yes" (1) or "No" (0).
39. **Navigation Vertical Clearance:** Minimum navigation vertical clearance in feet as shown on the navigation permit issued by the controlling agency, for Item 38 coded "Yes" (1). Otherwise, code all "zeroes" (i.e., not applicable).
40. **Navigation Horizontal Clearance:** Minimum navigation horizontal clearance in feet as shown on the navigation permit issued by the controlling agency, for Item 38 coded "Yes" (1). Otherwise, code all "zeroes" (i.e., not applicable).
41. **Open, Posted, or Closed:** This item indicates the operational status of the bridge; "K" = closed to all traffic, "P" = open to traffic with load posted, "A" = open to traffic without load posted, "B" = open to traffic with posting recommended, "G" = new bridge not yet open, "R" = open to traffic and posted for other than load (i.e., "Narrow Bridge", "One Lane Bridge", "Curve").
42. **Type Service:** Describes the function of the bridge. This is usually highway or highway-pedestrian.
43. **Str. Type-Main:** The structural type of bridge for the main spans of the bridge.
44. **Str. Type-Approach:** The structural type for the approach spans, if they are of a different material or construction type than the main spans.
45. **No. of Spans-Main:** The number of spans in the main units of the bridge.
46. **No. of Spans-Approach:** The number of spans in the approach units of the bridge.

47. **Total Horiz. Clearance:** The distance to the nearest tenth of a foot between the most restrictive features limiting the roadway. Where no such features existed, the deck width was used. When two clearances are recorded after this item, the second clearance is the distance between the most restrictive features limiting the use of the highway or railroad under the bridge.
48. **Max. Span Length:** The length to the nearest tenth of a foot of the longest span.
49. **Structure Length:** The total length of bridge from backwall to backwall to the nearest foot.
50. **Sidewalk/Curb Width:** (Left) (Right): The width of sidewalks on the bridge to the nearest tenth of a foot. Narrow curbs (less than 2'-0") are not considered sidewalks, but are still reported.
51. **Br. Rdwy. Width (Curb-Curb):** The distance between curbs on the bridge to the nearest tenth of a foot. Where curbs do not exist, the distance between parapets, railings, or guardrails is used.
52. **Deck Width (Out-Out):** The total width of the bridge roadway to the nearest tenth of a foot.
53. **Vert. Clear. over Deck:** The minimum vertical clearance over the bridge roadway to the nearest inch.
54. **Vertical Underclearance:** The minimum vertical clearance beneath the structure measured from the roadway or railroad track to the underside of the superstructure, in feet and inches. Code all "zeroes" (i.e., not applicable) for structures over any other feature.
55. **Lateral Underclearance Right:** The minimum lateral underclearance to the nearest tenth of a foot on the right for roads and railroads under a bridge measured from the edge of roadway or centerline of railroad track to the nearest substructure unit. Right is with respect to the direction of travel.
56. **Lateral Underclearance Left:** The minimum lateral underclearance to the nearest tenth of a foot on the left for roads and railroads under a bridge measured from the edge of roadway or centerline of railroad track to the nearest substructure unit. Left is with respect to the direction of travel.
57. **Wearing Surface:** Item no longer used. See Items 107 and 108.
58. **Deck:** Describes the material and condition of the bridge floor, wearing surface, expansion joints, curbs, railings, deck drains and other associated items.
59. **Superstructure:** Describes the material and condition of the deck supporting members, their connections and bearings.
60. **Substructure:** Describes the material and condition of the superstructure supporting elements such as abutments, piers, bents, piles, and others.

- 61. **Channel & Channel Protection:** Describes the channel, its protections and any problems associated with the channel.
- 62. **Culvert & Retaining Wall:** Describes primarily bridge wingwalls, retaining walls, and culverts associated with the bridge. Lists material, condition, and erosion problems.
- 63. **Estimated Remaining Life:** The estimated remaining life of the bridge with repairs but without major reconstruction. This takes into account the material condition, the load rating, the traffic counts and other factors.
- 64. **Operating Rating:** Operating rating is the maximum live load that can be occasionally carried by a bridge. See Item 66, Inventory Rating.
- 65. **Approach Roadway Alignment:** Describes the condition of approach roadway alignment, shoulders, signs, bridge end markers and similar items.
- 66. **Inventory Rating:** Inventory rating is the maximum live load that can safely utilize an existing structure for an indefinite period of time. The range of loading above the inventory rating up to the operating rating should be allowed only by written permit from the County.

- 67. **Structural Condition:** Describes major structural deficiencies.
- 68. **Deck Geometry:** Describes deficiencies in deck width.
- 69. **Underclearance:** Describes deficiencies in the vertical and lateral underclearances of a roadway or railroad under the bridge.
- 70. **Bridge Postings:** Describes the load capacity, relative to the legal load allowed, to show when posting is required.
- 71. **Waterway Adequacy:** Describes deficiencies in the waterway, the bridge opening, and slope protection at the bridge. The waterway opening under the bridge was judged to be adequate or inadequate from drift and other signs and without a hydraulic analysis.
- 72. **Approach Roadway Alignment:** Describes the deficiencies of the approach alignment, pavement width, shoulder width, signs, delineators, sight distances, and other features relating to safety.
- 73. **Year Needed:** The year that improvements, repairs or replacement is recommended by the inspecting engineer.
- 74. **Type of Service:** Item no longer used.
- 75. **Type of Work:** This describes the type of work recommended as repair, widening, replacement, or construction of a new bridge at the same or another location or for a new type of service.
- 76. **Improvement Length:** The length of the proposed improvement.
- 77. **Design Loading:** Item no longer used.
- 78. **Roadway Width:** Item no longer used.
- 79. **Number of Lanes:** Item no longer used.
- 80. **ADT:** Item no longer used.
- 81. **Year:** Item no longer used.
- 82. **Prop. Rdwy. Improvements - Year:** Item no longer used.
- 83. **Prop. Rdwy. Improvements - Type:** Item no longer used.
- 84. **Cost of Improvements:** Item no longer used. See Items 94, 95, 96, and 97.
- 85. **Prelim. Engr.:** Item no longer used.

86. **Demolition:** Item no longer used.
87. **Substructure:** Item no longer used.
88. **Superstructure:** Item no longer used.
89. (Reserved)
90. **Inspection Date:** The date the structure was inspected.
91. **Designated Inspection Frequency:** The designated inspection interval, in months, for each bridge in the inventory. Bridges will require special non-scheduled inspections after unusual physical traumas.
92. **Critical Feature Inspection:** Critical features which need special inspections or special emphasis during inspections are identified, along with the designated inspection interval as follows:
- 92A. Fracture Critical Details
 - 92B. Underwater Inspection
 - 92C. Other Special Inspection
93. **Critical Feature Inspection Date:** The date of the last inspection of the critical feature(s) identified in Item 92 is recorded.
94. **Bridge Improvement Cost:** Only bridge construction costs are included. No bridge maintenance costs are included.
95. **Roadway Improvement Cost:** Only roadway construction costs are included. No roadway maintenance costs are included.
96. **Total Project Cost:** All costs normally associated with the proposed bridge improvement project, including right-of-way, detour, preliminary engineering, construction inspection, and other incidental costs are included. No maintenance costs are included.
97. **Year of Improvement Cost Estimate:** The base year of the improvement costs provided in Items 94 through 96, with cost data provided to be no more than 8 years old.
98. **Border Bridge:** Indicates if a bridge is located on a borderline between two neighboring states. Many states split maintenance responsibilities and costs for any replacement or rehabilitation work.
99. **Border Bridge Structure Number:** Indicates the neighboring state's NBI structure number, for a structure noted in Item 98.

100. **Defense Highway Designation:** Identifies a bridge on the designated defense highway network, including minor off-system roads. None exist in Delaware County, since only State bridges are presently on defense highways.
101. **Parallel Structure Designation:** Indicates situations where separate structures carry the inventory route in opposite directions of travel over the same feature.
102. **Direction of Traffic:** Provides information as follows:

<u>Code</u>	<u>Description</u>
0	Highway traffic not carried
1	One-way traffic
2	Two-way traffic
3	One-lane bridge for two-way traffic

103. **Temporary Structure Designation:** Identifies temporary structure(s) or conditions that are required to facilitate traffic flow.
104. **Highway System of the Inventory Route:** Indicates the highway system for the inventory route, identified in Item 5, as follows:

<u>Code</u>	<u>Description</u>
0	Not part of the National Highway System
4	Part of the National Highway System

All bridges in Delaware County are coded “0”, since only State Bridges are part of the National Highway System.

105. (Reserved)
106. **Year Reconstructed:** Indicates the year of reconstruction of the structure, where applicable. For a bridge to be defined as reconstructed, the type of work performed, whether or not it meets current minimum standards, must have been eligible for funding under any of the Federal-aid funding categories. The eligibility criteria would apply to the work performed regardless of the source of the funds used.
107. **Deck Structure Type:** Describes the type of deck system on the bridge. If more than one type of deck system is on the bridge, the most predominant is indicated.
108. **Wearing Surface/Protective System:** Indicates information on the wearing surface and protective system of the bridge deck, as follows:

<u>Segment</u>	<u>Description</u>
108A	Type of Wearing Surface
108B	Type of Membrane
108C	Deck Protection
108D	Thickness of Asphalt

109. **Average Daily Truck Traffic:** Indicates the percentage of Item 29, Average Daily Traffic, that is truck traffic, not including vans, pickup trucks, and other light delivery trucks. The percentage of truck traffic is only recorded when Item 29 is greater than 100 vehicles per day.
110. **Designated National Network:** Indicates any roads on the designated national network for trucks identified in the code of Federal Regulations (23 CFR 658).
111. **Pier or Abutment Protection (for Navigation):** Applies only to bridges over navigable channels. See Item 38.
112. **NBIS Bridge Length:** Indicates a bridge that meets or exceeds the minimum length (more than 20 feet) specified to be designated as a bridge for National Bridge Inspection Standards purposes, as follows:

<u>Code</u>	<u>Description</u>
Y	Yes
N	No

113. **Scour Critical Bridges:** Identifies the current status of the bridge regarding its vulnerability to scour, as follows:

<u>Code</u>	<u>Description</u>
N	Bridge not over waterway
U	Unknown foundation type
9	Bridge foundations (including piles) well above floor water elevations.
8	Bridge foundations determined to be stable for calculated scour conditions; calculated scour is above top of footings.
7	Countermeasures have been installed to correct a previously existing problem with scour. Bridge is no longer scour critical.
6	Scour calculation/evaluation has not been made. (Use only to describe case where bridge has not yet been evaluated for scour potential.)

5	Bridge foundations determined to be stable for calculated scour conditions; scour within limits of footing or piles.
4	Bridge foundations determined to be stable for calculated scour conditions; field review indicates action is required to protect exposed foundations from effects of additional erosion and corrosion.
3	Bridge is scour critical; bridge foundations determined to be unstable for calculated scour conditions - Scour within limits of footing or piles - Scour below spread footing base or pile tips.
2	Bridge is scour critical; field review indicates that extensive scour has occurred at bridge foundations. Immediate action is required to provide scour countermeasures.
1	Bridge is scour critical; field review indicates that failure of piers/abutments is imminent. Bridge is closed to traffic.
0	Bridge is scour critical. Bridge has failed and is closed to traffic.

114. **Future Average Daily Traffic:** Indicates the forecasted average daily traffic (ADT) for the inventory route identified in Item 5. This has been projected at least 17 years but no more than 22 years from the year data was submitted to the NBI, to provide a basis for a 20-year forecast. Where planning data was not available, the best estimate based on site familiarity was used.
115. **Year of Future Average Daily Traffic:** Indicates the year represented by the future ADT in Item 114. The projected year of future ADT is at least 17 years but no more than 22 years from the year data was submitted to the NBI.
116. **Minimum Navigation Vertical Clearance Vertical Lift Bridge:** Record to the nearest foot (rounding down) the minimum vertical clearance (in the dropped or closed position) imposed at the site as measured above a datum that is specified on a navigation permit issued by a control agency.

Items 58 through 62 and Item 65 are given a numerical "condition" rating as follows:

<u>Rating</u>	<u>Description</u>
"N"	Not Applicable
"9"	New Condition
"8"	Good Condition: No repairs needed.
"7"	Generally Good Condition: Potential exists for "minor maintenance" with minor items in need of repair by maintenance forces.
"6"	Fair Condition: Potential exists for "major maintenance" with major items in need of repair by maintenance forces.

"5"	Generally Fair Condition: Potential exists for "minor rehabilitation" with major repair by contract needed.
"4"	Marginal Condition: Potential exists for "major rehabilitation" with minimum adequacy to tolerate present traffic; immediate rehabilitation necessary to keep open.
"3"	Poor Condition: Repair or rehabilitation required immediately with inadequacy to tolerate present heavy load; "warrants closing bridge to trucks."
"2"	Critical Condition: The need for repair or rehabilitation is urgent. The facility should be closed until the indicated repair is complete with inadequacy to tolerate any live load; "warrants closing bridge to all traffic."
"1"	Critical Condition: The "facility is closed." Study should determine the feasibility of the bridge being repairable, if desirable to reopen to traffic.
"0"	Critical Condition: The "facility is closed" and the bridge conditions are beyond repair; "danger of immediate collapse."

Items 67 through 72 are given a numerical "appraisal" rating as follows:

<u>Rating</u>	<u>Description</u>
"N"	Not Applicable
"9"	Condition "superior" to present desirable criteria.
"8"	Condition "equal" to present desirable criteria.
"7"	Condition "better" than present minimum criteria.
"6"	Condition "equal" to present minimum criteria.
"5"	Condition somewhat "better than minimum" adequacy to tolerate being left in place as is.
"4"	Condition meeting "minimum" tolerable limits to be left in place as is.
"3"	Basically intolerable condition requiring high priority of repair.
"2"	Basically intolerable condition requiring high priority of replacement.
"1"	Immediate repair necessary to put back in service.
"0"	Immediate replacement necessary to put back in service.

LOAD RATING DESCRIPTIONS

Item 66 - Inventory Rating: Inventory rating is the maximum live load that can safely utilize an existing structure for an indefinite period of time. The range of loading above the inventory rating up to the operating rating should be allowed only by written permit from the county.

The three digits of this code indicate:

<u>First Digit</u>	<u>Type of Loading</u>
1	H
2	HS

The second and third digits indicate the total live load (weight of vehicles) in tons.

Item 64 - Operating Rating: Absolute maximum permissible live load level to which the structure may be subjected. It is that rating at which a structure may be occasionally utilized by a heavier than normal vehicle after the issue of a special permit only if such loads are distributed so as not to exceed the structural capacity determined by the Operating Rating.

The three digits of this code have the same meaning as the inventory rating.

The H loading uses a two-axle truck and the HS loading uses a three axle truck for design purposes.

APPENDIX B - ABBREVIATIONS

Ave	Avenue	lt	little, light
abut	abutment	lat	lateral
align	aligned, alignment	L.W.	low water
appr	approach	mat'l	material
approx	approximately	max	maximum
asph	asphalt	mi	mile
B.C.	bottom chord	min	minimum
bm	beam	mod	moderate
bott	bottom	mult	multiple
br	bridge, branch	N	north
brg	bearing	NA, N/A	not applicable
Cr	Creek	N.D.E.	no distress evident
CL	centerline	NE	northeast
clr	clear, clearance	NW	northwest
C.M.P	corrugated metal pipe	Nav	navigation
Co	county	ped	pedestrian
conc	concrete	P.B.	pile bent
conn	connection	P.C.	prestressed concrete
constr	construction	P.E.B.	pile end bent
cont	continuous	prot	protection
cor	corner	pvt, pvmt	pavement
corr, corrug	corrugated	reconstr	reconstructed
culv	culvert	R.C.	reinforced concrete
cb	curb	rd	road
c/c	center to center	rdwy	roadway
defl	deflection	reinf	reinforced
det	deterioration	rte	route
dist	distance	Rd	Road
Dr	Drive	S	south
E	east	SE	southeast
ea	each	shldr	shoulder
E.B.	end bent	signif	significance
E.P.	edge of pavement	S.M.	stone masonry
extr	extreme	S.R.	State Road
est	estimated	S.S.	simple span
F.A.S.	Federal Aid, Secondary	stl	steel
F.B.	floor beam	str	structure
flr	floor	surf	surface
ft	feet, foot	SW	southwest
gird	girder	St	Street
G.R.	guardrail	T.C.	top chord
G.R.E.T.	guardrail end treatment	tr	truss
ht	height	V.C.	vertical curve
horiz	horizontal	vert	vertical
hvy/hvly	heavy/heavily	W	west
H.W.	high water	w/	with
in	inch, inches	W.I.	wrought iron
int	intersection, interior	W.S.	wearing surface
int, inter	interior	yr	year
jt	joint	yrs	years

Appendix C

Supplemental Photographs



001 Failed pipe and void at the north sloped wall



001 Spalls below the slab at the east coping south of the south pier



002 East abutment



002 West abutment



**003 North endbent undermined
and debris accumulation**



003 Northwest rail post connection damaged



**013 Cracks and efflorescence
at the west interior bent**



013 East endbent undercut



013 Damaged rail at the southeast corner



015 Considerable rot in the south end bent cap



015 Rot in the north end bent cap at the west end



015 Rotting pile



015 Spalled beam and broken strands



015 Cracks along the bottom corner of box beam



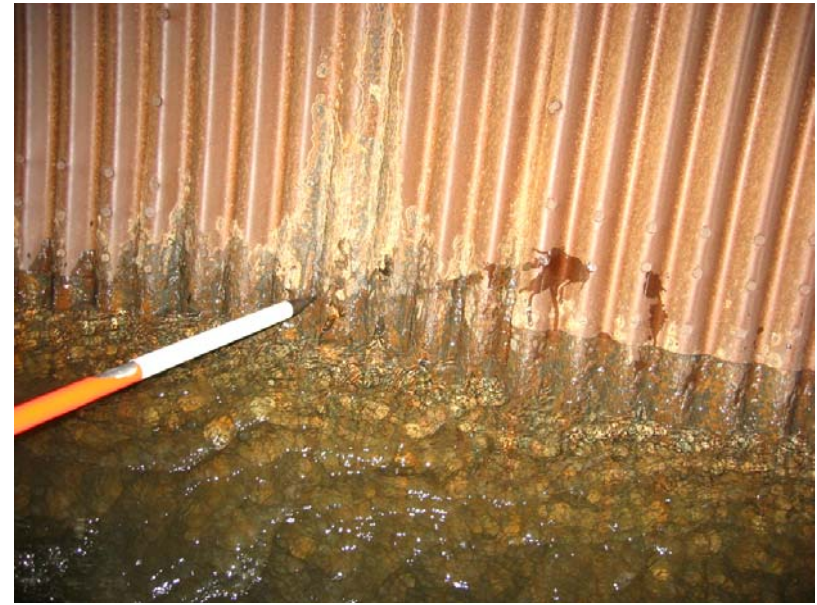
016 Debris at inlet



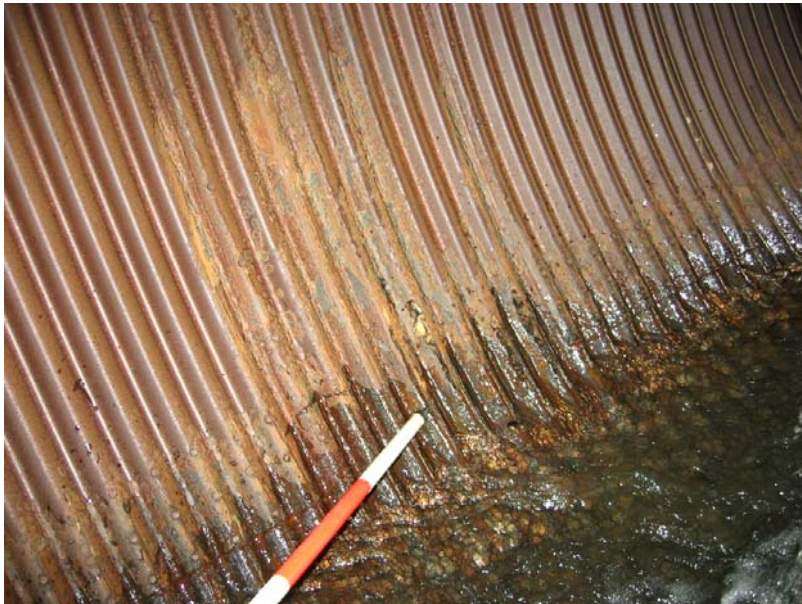
016 East pipe outlet distorted



016 Large tree migrating toward inlet



016 Rust at waterline in east pipe



016 Rust through at waterline in west pipe



016 West pipe - corrugated metal folding inward



017 Erosion at the southeast corner



017 Erosion at the southwest corner



020 Bottom flange of beam spalled - exposed strands



020 Ends of beams



020 Spalled deck concrete coming through new asphalt wearing surface



021 Spalling in piers



022 Missing rail and damaged coping at rail connections



027 Southwest abutment corner cracked and efflorescing



029 Damaged rail - south side



035 Deterioration at north endbent



035 Eroded shoulder



035 Spalled outside beam



037 Debris in beams



039 Bridge rail damage



039 Tree and debris at piers



040 Heavy debris at inlet



040 Shoulder loss on east side



042 Typical erosion at corners



043 Damaged rail post



045 L11 south - retrofitted hanger welded to old hanger



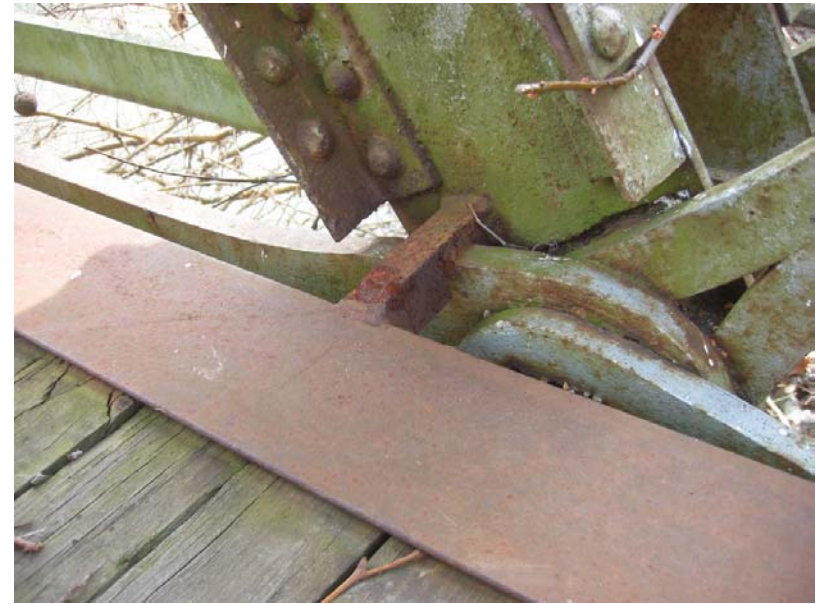
045 Panel point L11 south - 2 holes in vertical with patch steel welded in place



045 Panel point L11 south - hole in vertical



045 Panel point L2 north - heavy pack rust, section loss in loop bars and compression member



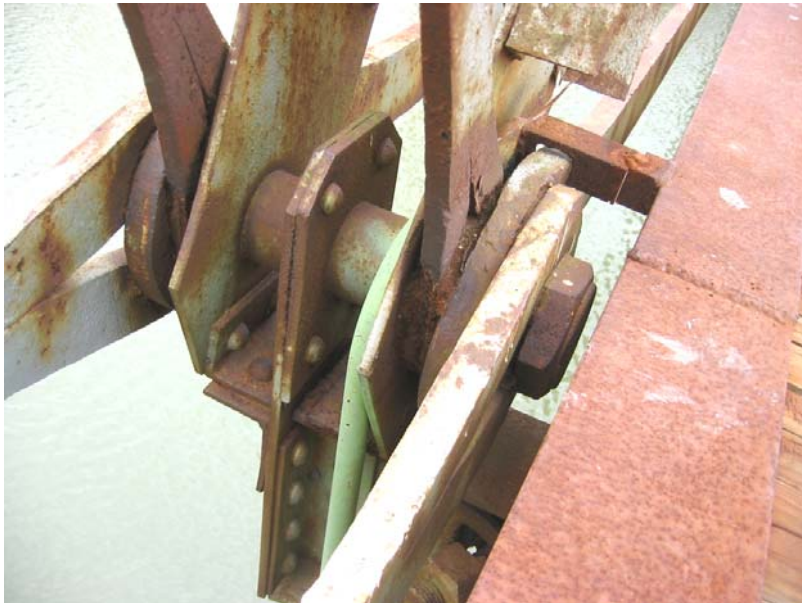
045 Panel point L2 south - Deck edge steel welded to loop rod



045 Panel point L3 south - retrofitted hanger welded to old hanger



045 Panel point L7 north - U-bolt welded to vertical; possible crack at base of weld



045 Panel point L8 south- extreme pack rust; section loss in diagonals



047 Apparent fill loss - hole at the northeast corner



047 End of slab exposed to traffic



047 Mudwalls undermined



047 Rotted rail post at the northwest corner



050 Center pile in north endbent



050 Configuration of center pile at north endbent



050 Rotting wing post



051 End of second beam from the north at the west end



051 Haunches broken at the endbents



051 Paint failure at the beams



051 Potholes in asphalt overlay at the east approach pad



051 Spalls at west concrete approach next to joint



051 Spalls in deck at the east span near the south side



052 Hole in shoulder at the southwest corner



052 Loose strap over the south interior bent



053 South abutment undermined



056 North bridge rail damaged



056 West slopewall failed



057 Loose rail protruding at the southwest corner



058 Bolt head torn through the arch plate



058 Distortion at the north side of the arch



058 Distortion at the south side haunch of the arch



058 Distortion at the south side of the arch



058 Erosion at the southeast corner



058 Tear in plate at bolt head



058 Tears around bolt heads



059 South end bent undermined



061 Apparent fill loss at the east end



061 Debris at the northwest bank



061 Riprap loss at the northwest corner



062 Displaced riprap



063 Split timber brace at the north interior bent



064 Trees and debris at inlet



068 Pile cracked (typical)



069 Apparent fill loss - hole in pavement at south end



069 Burrows at the north endbent



069 Burrows at the south endbent



069 Collision damage to southwest rail



069 Cracks in coping at the northwest corner



070 Deteriorated patch in arch below



070 Deteriorated patch in arch below



072 Cracked abutment at the northwest corner



075 Heavy spalling at pile encasements



075 North end bent cap undermined



075 South end bent cap undermined



084 Damage at the northwest approach rail



084 Damaged bridge rail and post



084 Undermining at the south end bent



085 Floor Beam at panel point 8



085 Inside channel at vertical member



085 L1 - south



085 L3 - south.



085 L3-north outside



085 L3-north



085 Section loss in pin L7-south



085 Southwest end post - debris.



087 Concrete spalled and heavy delamination at encased beams



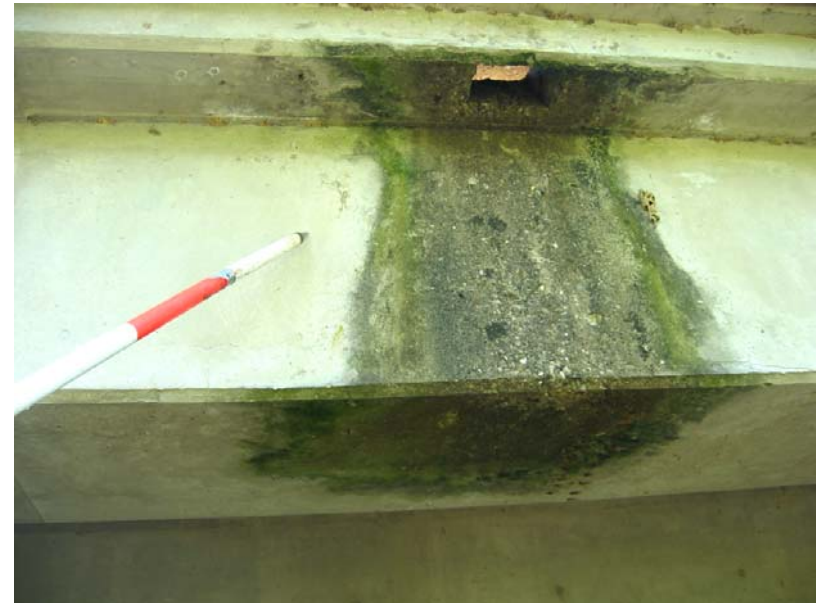
087 Outside reinforced concrete beam spalled - section loss in reinforcing steel



090 Debris accumulated at the south interior bent



091 Southwest shoulder drops off in front of rail



092 Cracks at the north outside beam



092 Cracks at the south outside beam.



092 Eroded northeast shoulder.



092 Eroded southeast shoulder



092 Eroded southwest shoulder



092 Southeast seat deterioration



092 West abutment deteriorated at the waterline



093 North endbent undercut



093 South endbent undercut



095 Damage at the southwest rail transition



095 Spalled rail



095 Typical configuration of diaphragms



095 Typical diaphragm at the bottom



095 Typical diaphragm at the top



097 Debris at the south interior bent



097 Tires stacked at bridge approach



099 Erosion under the sloped wall at the southeast corner



100 Spalled pile encasements



100 Spalled slab below



101 Spalls near the south coping in the east span



103 Northeast outer timbers unsupported.



103 Northeast rail leaning - outer slab timbers rotated



103 Southwest rail leaning - outer slab timbers rotated



105 East end bent cap undermined



105 Shoulder erosion at the southeast shoulder



106 Gaps in the east mudwall



107 Rust and section loss in top of west beam



108 Northeast floor beam connection - inside of outer plate



108 Northeast floor beam connection - outside of outer plate



108 Northwest diagonal cut to accomodate bridge rail post



108 Northwest floor beam connection - outside of inner plate



108 Southeast floor beam connection - inside of inner plate.



108 Southeast floor beam connection - outside of inner plate.



108 Southeast floor beam connection - outside of outer plate



108 Typical debris at endposts



109 Damage at the west bridge rail



109 Erosion at the south bank



110 North end bent cap undermined



111 Cracks and spalls at the west coping



111 North end bent cap undermined



**112 Brush dumped upstream of the
west interior bent**



112 Cracks and efflorescence in slab and cap



112 East end bent cap undermined



112 North column at west interior bent



112 North column at west interior bent



112 North column at west interior bent



112 Pile encasement deteriorated in east interior bent



112 West end bent cap undermined



115 Bridge rail splice not bolted



115 Spall at rail post connection



118 Concrete deteriorated at top of column



118 Erosion at southwest corner



118 Pile encasements deteriorated



118 West end bent cap undermined - north end



118 West end bent cap undermined - south end



120 North slopewall broken and settled.



121 South Outside Beam at the West End



121 Typical horizontal cracks in beams



122 Heavy efflorescence at the northeast arch ring



122 North coping deterioration



122 South coping deterioration



122 Typical bridge rail



123 Debris at pier



123 North end of center beam broken



123 North end of center beam broken



123 Northeast pipe extension broken



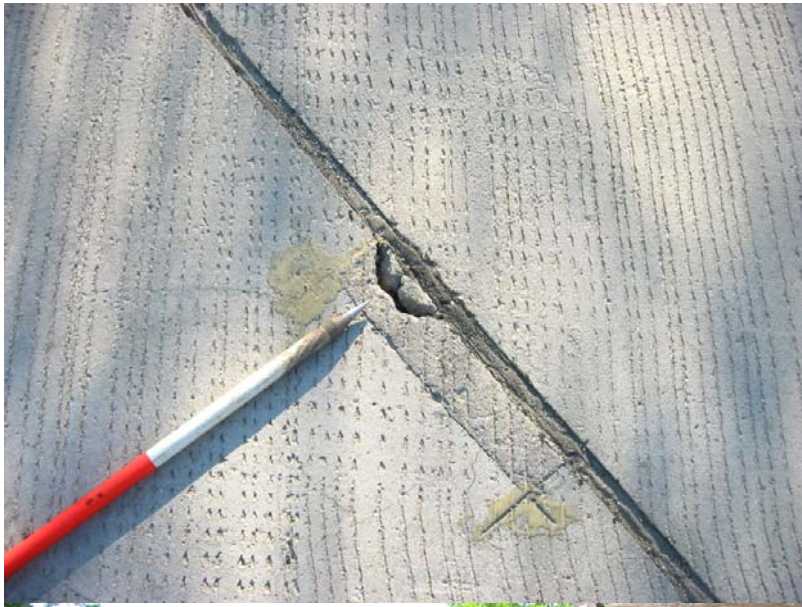
123 Northeast pipe extension broken



123 Open joint at the curb



123 Wearing surface cracked



123 Wearing surface damaged at the joint



124 Lids missing at southeast attenuator



124 North face of southbound center pier



124 Rail damaged at north intersection



124 Substructure settled at the northwest corner



125 Erosion - end of deck exposed



125 Southwest substructure settled and slopewall damaged at southwest corner



125 Substructure settled at northwest corner



125 Substructure settled at the northeast corner



125 Widened deck cracked at northeast corner



125 Widened deck cracked at northwest corner



126 Apparent fill loss at south approach



126 North endbent undercut



126 South endbent undercut



127 Beam spalls at center span



127 Wearing surface deterioration



129 Debris buildup at center span



130 Panel point L8 south - thin hanger section



130 Panel point L9 south - section loss at pin



131 Debris at south pier



131 Debris buildup at south pier



133 East end bent undermined



133 East end undermined



133 West end bent undermined



135 East endbent



135 West endbent



137 Dropoff at retaining wall



138 Deck spalled



138 South endbent undermined



141 Damaged beam and deteriorated bearing



141 Damaged northwest rail



141 Dropoff at southeast turnout



141 Erosion at the toe of the north slopedewall



141 North end bent undercut near the east end



141 Northwest approach rail damage



141 Northwest rail damaged - picture from outside



141 Spall at the north pier



141 Wearing surface spalls and patches



143 East joint deteriorated



143 Northeast approach rail damaged



143 Southeast approach rail damaged



143 West end of deck cracked and damaged



144 End of sidewalk exposed to traffic



146 Spalls in the east coping - center span



146 Spalls in the east coping - south span



146 Spalls in the east coping at the south span



148 Debris at west pier



148 Debris at west pier



148 Deteriorated grout at beam ends over piers



149 Damaged rail and post anchor



149 Deteriorated grout at beam ends over piers



149 Displaced riprap



156 Debris at inlet



158 Damage to west end of guardrail



158 Debris at the inlets



159 Bottom of south beam in west span



159 Large debris below bridge



159 North bridge rail damage



159 North rail and beam damage



159 North rail damage



159 Outside of south beams



159 Spall in second beam from north in east span



159 Top of south beams



159 Tops of south beams



161 East end floor beam - web failed



161 East end floor beam - web failed



161 Floor beam 7 with damaged flange



161 Rail damage at the northeast corner



161 Rail damage at the southwest corner



161 Rust-through at one leg at L5



161 Rust-through at one leg at L6



161 Truck crossing the bridge



163 Crack in wearing surface at joint - typical of three locations



163 Pile encasement damage at the north interior bent



163 Pile encasement damage at the south interior bent



164 North approach pavement



165 Burrows and undermining at the south endbent



165 Erosion at the northwest corner



165 Hole in the south approach pavement



170 Hole in pavement at the west approach



170 North end of east cap undermined



170 Northeast corner eroded



170 West cap undermined



171 Moderate damage at end of beam over the east pier



171 Moderate damage at end of beam over the east pier



171 Spall at the south coping



179 Cracked and loose overlay



179 Cracks in deck near the joints



179 Deck drains onto the beams



183 Northeast buried end of approach rail



183 Northwest wing undercut



189 Cracks and deterioration at pile encasement



190 Debris at inlet, failing slope, inadequate guardrail.



190 Hole in road surface due to fill loss



191 Damaged south rail



191 Hole in pavement at northeast



191 Hole in pavement at northwest



191 No tie-in at deck widening



193 Damage to the south coping and typical spalled grout at beam ends



193 Damage to the west end of the median rail



193 North coping spalls



193 South outside beam at the east end.



193 Spalls along the north coping



193 Spalls at beam ends



193 Typical damage at the beam ends at the endbents



193 Typical erosion at the corners and voids under the slopewall



194 Failed west asphalt shoulder



194 Rail posts rusted through



194 West shoulder eroded



195 Abutment caps and beam seats deteriorated



195 Abutment caps deteriorated



195 Joint at the southwest end



195 Wearing surface spalls and patches



196 Debris at east side, retaining wall failure



196 East side fill failure



196 East side shoulder failed



196 West sheet pile failure



198 Damaged rail and connections



198 Southeast corner damage



204 Beam encasement deteriorated



204 Large tree limb under bridge



204 south abutment deteriorated



204 Southeast wing



204 West outside beam



204 West outside beam



205 North end bent cap undermined



207 Debris at inlet



207 Open joints at arch plates



207 Open joints at arch plates



209 Gas main hanging - hangers are broken



209 Northeast curb broken, allowing erosion



209 West endbent undermined



210 Rotted approach rail post



213 Crack at the midspan of the east outside beam



213 Crack at the west beam in the northwest corner



213 Northeast wingwall failing



213 Top of the east end of the north abutment



224 Bottom of north interior bent cap



224 Bottom of north interior bent cap



224 Damage at the northeast approach rail



224 Typical rail transition



226 Beam split at top and bottom in main span



226 North end bent supports deflected and settled



226 Northeast diagonal brace split and rotted and support base rotted



226 Northwest diagonal brace split and rotted and support base rotted



226 Some rot in bottom cross member of south interior bent



226 Split beam in main span with gap between beam and floor timbers



226 Split brace at south bent frame



226 Two support timbers rotted at the south end



244 Spall at the beam seats and rust with delamination at beam ends



245 End of curb and rail exposed to traffic



245 Erosion at the southeast corner



268 Damage at the southeast approach rail



268 Pipe broken at the west end bent



268 Spalls around drain outlets



268 Wearing surface heavily spalled



269 Settled road and potholes over the north pipe



270 East end bent undermined



271 Northwest Approach Rail



271 Northwest Approach Rail



271 Northwest End Treatment



501 Beam ends at the west end of the south pier



501 Beam ends over the west end of the south pier



501 Beams ends over the west end of the north pier



501 Broken and sagging conduit



501 Cracks and efflorescence at the beam seat



501 Cracks in the wearing surface at the north end



501 Cracks in the wearing surface



501 Spalled deck below



**502 Bridge rail broken at the northeast corner
(very little re-steel)**



502 Deteriorated curb



502 Erosion at the north endbent



502 Erosion at the south endbent



502 Wearing surface spalls and patches



503 Riprap loss at the center pier



503 Seepage and deterioration at the north end of the west pier



503 Seepage at the south end of the west pier



504 Asphalt at the end of the north approach pad



504 Debris at the north pier



504 Pothole at the approach pad



504 Void, minor damage at the north approach pad



505 Confusing weight limit sign - applies to public park



506 Base undercut at the ends of the piers



506 Debris at piers



506 Top of north abutment cracked



507 Advanced rust at the base of the arches



507 Damage to the northwest rail



508 Transition damage at the northeast corner



509 Failed sloped wall, lost fill – 1 of 3 photos



509 Failed sloped wall, lost fill – 2 of 3 photos



509 Failed sloped wall, lost fill – 3 of 3 photos



510 Decorative rail



511 Northeast endbent cap undermined



511 Southwest endbent cap undermined and riprap displaced



511 Spalls around PVC drain outlet



513 Joint at curbs



513 Low rail next to pedestrian trailhead and adjacent to retaining wall



513 Rust and delamination in beams at the west pier



513 Sag in beams



513 Settled sidewalk, deteriorated curb



513 Spalls at the beam seats in the east pier



513 Spalls, delamination at the face of the west pier



513 Utility work at the south sidewalk



514 Spalls and cracks at column



**514 Weephole pipe extension broken –
seeping onto pier**



516 Center joint missing, roll curb spalled



516 Damage at the west rail



516 Damaged beams at the north pier



516 Deck spalls below in the south span



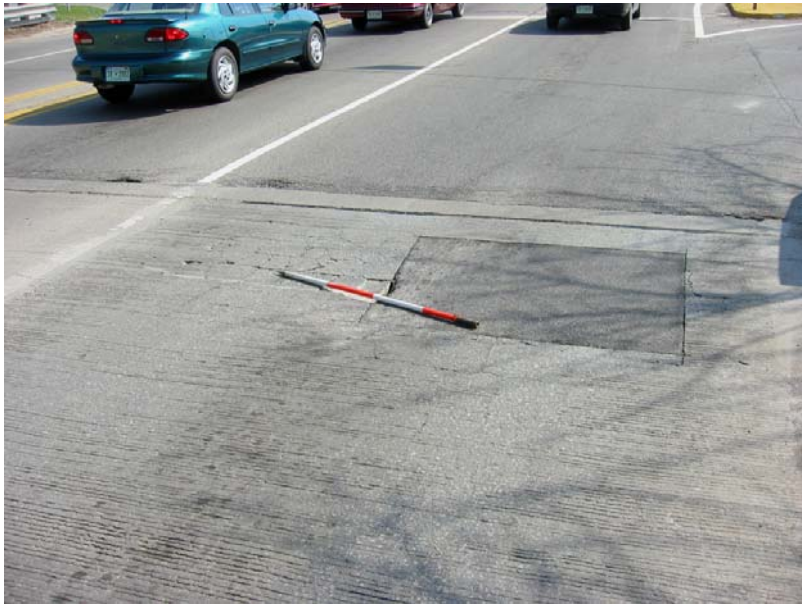
516 East end of the north pier, damaged beams



516 Loose joints



516 Northbound wearing surface spalls and patches



516 Southbound wearing surface spalls and patches



516 Southeast end treatment missing



516 Substructure damage at the northwest corner



516 Typical pier face spalls and delamination



516 Void in the north slope wall



516 West end of the north pier, damaged beams



517 Apparent breakdown in drainpipe at the northeast corner



517 Debris at the inlets



517 Hole in shoulder at the northeast corner



517 Sidewalks settled



518 Conduit - possible source of fill loss at the northeast corner



518 Hole in the pavement at the north end



519 Delamination at the south end bent cap



520 Beam at the west end of the north interior bent



520 Beam damage at the east end of the north interior bent



520 Beam damage at the east end of the north interior bent



520 Beam damage at the west end of the north interior bent



520 Beams at the east end of the 2nd interior bent from the south



520 Beams at the west end of the 2nd interior bent from the south



520 Bottom of beam at the 2nd interior bent from the south



520 Crack at the bottom flange in beam at the 2nd interior bent from the south



520 Cracks in the wearing surface - southbound



520 Damaged column in the north interior bent



520 East column in the north interior bent



520 Gap between asphalt and curb allows water through - void below



520 High aluminum rail and post damaged



520 Missing bridge rail post - northbound



520 Spalled wearing surface at the joint - southbound



520 Two damaged bridge rail posts - northbound



520 Typical damage to beams at the south endbent



520 Typical joint at the curb



520 Typical transition from aluminum to steel rail



520 Void under the northeast wing and sloped wall



520 Void under the northeast wing and sloped wall.



**520 Wearing surface damage at a joint -
northbound**



701 Dropoff at southeast shoulder



701 Seat at northwest corner