

Figure ES-4

Existing Deficiencies

I-69 SPUR, I-66/I-65 SPUR
AND US 60

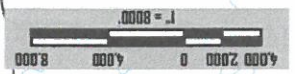
Butler, Daviess, Henderson
Ohio, and Warren Counties
Kentucky

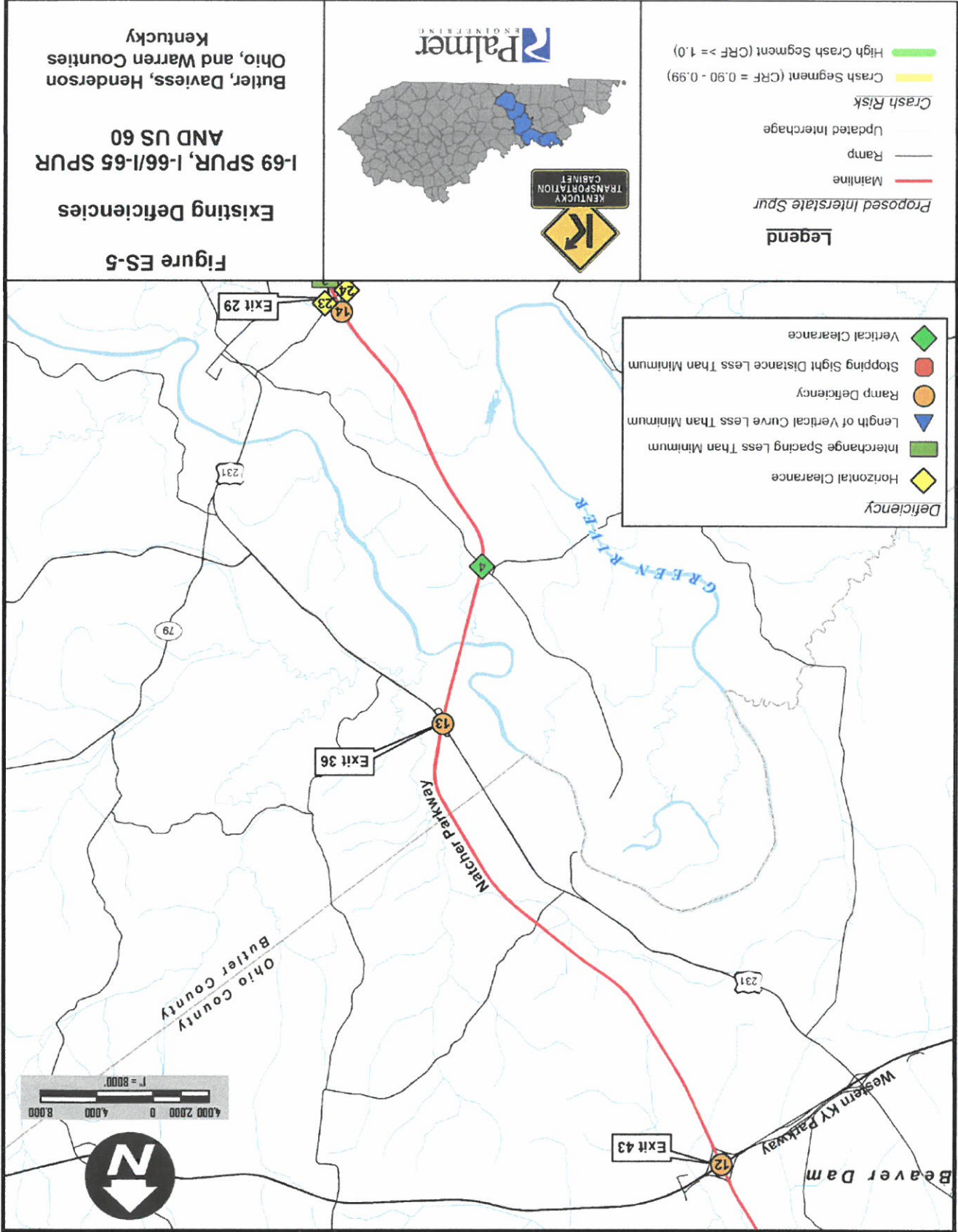


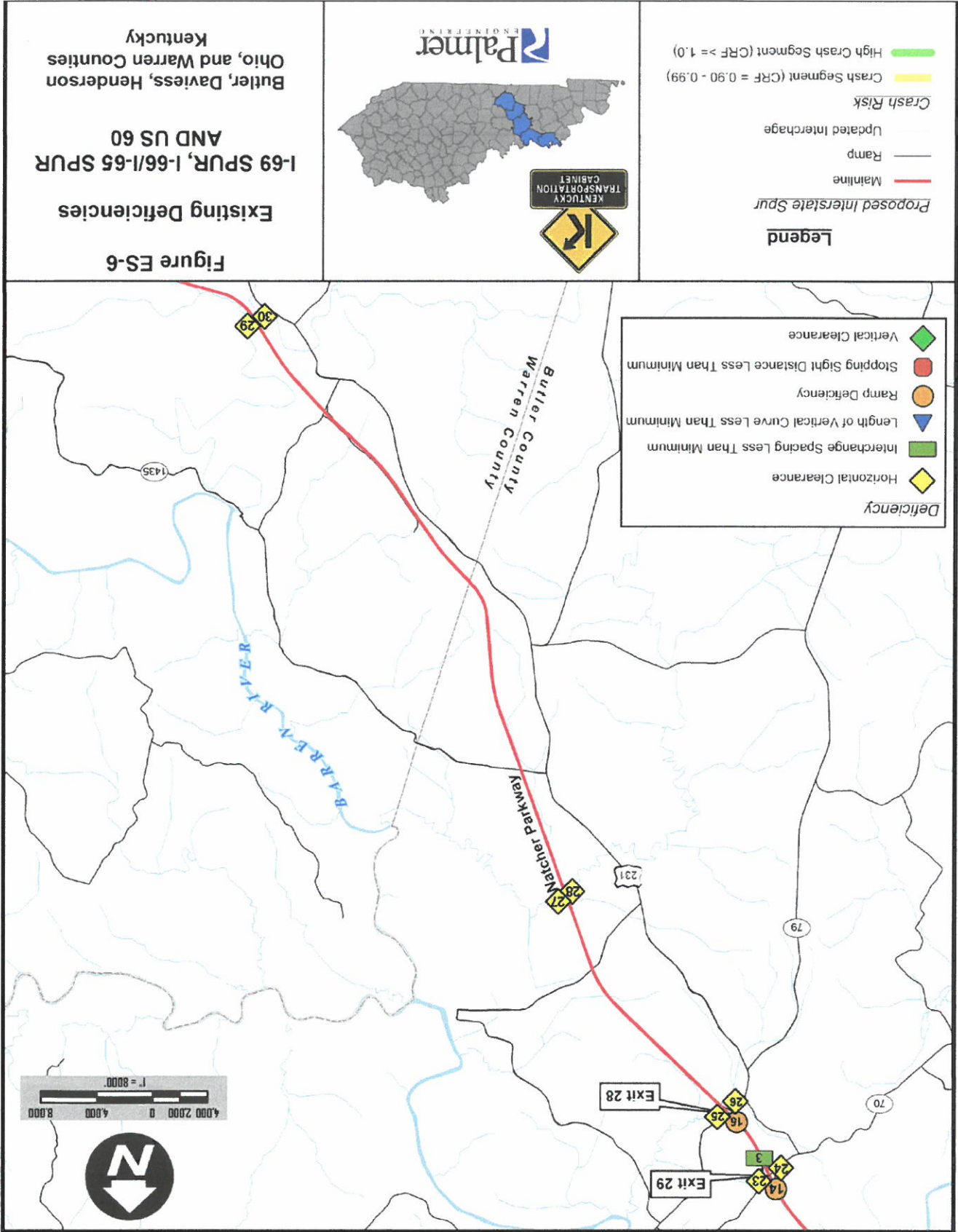
Legend

- Proposed Interstate Spur
- Mainline
- Ramp
- Updated Interchange
- Crash Risk
 - High Crash Segment (CRF >= 1.0)
 - Crash Segment (CRF = 0.90 - 0.99)

- Deficiency
 - Horizontal Clearance
 - Interchange Spacing Less Than Minimum
 - Length of Vertical Curve Less Than Minimum
 - Ramp Deficiency
 - Stopping Sight Distance Less Than Minimum
 - Vertical Clearance







Existing Deficiencies
 I-69 SPUR, I-66/I-65 SPUR
 AND US 60
 Butler, Davess, Henderson
 Ohio, and Warren Counties
 Kentucky

Figure ES-7



- Legend**
- Proposed Interstate Spur
 - Mainline
 - Ramp
 - Updated Interchange
 - Crash Risk
 - Crash Segment (CRF = 0.90 - 0.99)
 - High Crash Segment (CRF >= 1.0)

- Deficiency**
- Horizontal Clearance
 - Interchange Spacing Less Than Minimum
 - Length of Vertical Curve Less Than Minimum
 - Ramp Deficiency
 - Stopping Sight Distance Less Than Minimum
 - Vertical Clearance

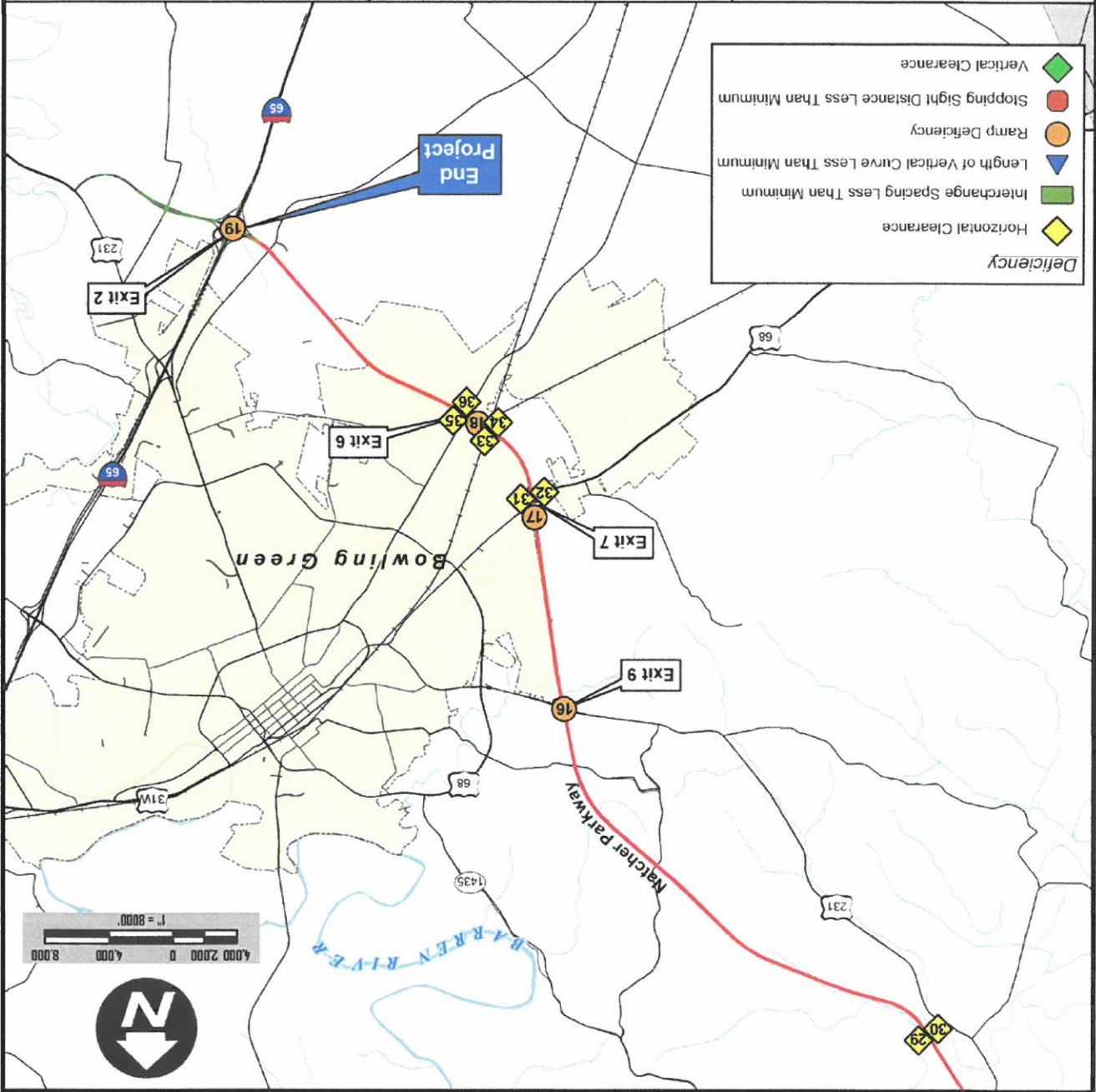


Table ES-2 continued on following page)

Deficiency Type	Milepoint	Deficiency Description
Audubon Parkway - Henderson / Davess Counties		
1	Exit 1	Taper Length < Min
2	Exit 5	Taper Length < Min; Ramp Entrance Deficient
Barrier Wall	6.223	Barrier wall does not meet current standard
	6.223	
Barrier Wall	10.141 - 18.049	High Crash Segment - CRF = 1.13 (CRF >= 1.0)
	10.141 - 18.049	
3	Exit 10	Taper Length < Min; Ramp Entrance Deficient; Previous Toll Plaza
Barrier Wall	15.839	Barrier wall does not meet current standard
	15.839	
4	Exit 18	Taper Length < Min; Divergence Angle > Max;
Barrier Wall	22.701	Barrier wall does not meet current standard
	22.701	
5	Exit 10 (US 60) / Exit 24 /	Divergence Angle > Max; Taper Length < Min
US 60 - Davess County		
1	11.230	Interchange spacing less than 1 mile minimum
6	Exit 11	Taper Length < Min
1	11.611	Vertical clearance = 15.61' (16' minimum)
2	11.611	Vertical clearance = 15.31' (16' minimum)
2	12	Interchange spacing less than 1 mile minimum
Barrier Wall	12.011	Barrier wall does not meet current standard
	12.011	
7	Exit 12	Taper Length < Min
Barrier Wall	13.564	Barrier wall does not meet current standard
	13.564	
8	Exit 14	Taper Length < Min
Barrier Wall	14.416	Barrier wall does not meet current standard
	14.416	
1	15.026	Horizontal Clearance = 30' (Note bridge is less than 200' long)
Barrier Wall	15.026	Barrier wall does not meet current standard
	15.026	

Table ES-2 Deficiencies Summary

Table ES-2 (Continued) Deficiencies Summary

Deficiency Type	Milepoint	Deficiency Description
US 60 - Davess County		
2	15.272	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
Barrier Wall Deficiency	15.272	Barrier wall does not meet current standards
3	15.842	Horizontal Clearance = 34' (Note bridge is less than 200' long)
9	Exit 16	Taper Length < Min
4	16.943	Horizontal Clearance = 33.8' (Note bridge is less than 200' long)
10	Exit 17 / Exit 72 (Natcher)	Divergence Angle > Max; Taper Length < Min
Natcher Parkway - Davess / Ohio / Butler / Warren Counties		
5	69.846	Horizontal Clearance = 30.5' (Note bridge is less than 200' long)
6	69.846	Horizontal Clearance = 30.5' (Note bridge is less than 200' long)
7	69.522	Horizontal Clearance = 30.5' (Note bridge is less than 200' long)
8	69.522	Horizontal Clearance = 30.5' (Note bridge is less than 200' long)
9	69.327	Horizontal Clearance = 30.5' (Note bridge is less than 200' long)
10	69.327	Horizontal Clearance = 30.5' (Note bridge is less than 200' long)
11	65.028	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
12	65.028	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
13	64.835	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards

Table ES-2 continued on following page)

Table ES-2 (Continued) Deficiencies Summary

Deficiency Type	Milepoint	Deficiency Description
Natcher Parkway - Davess / Ohio / Butler / Warren Counties		
14	64.835	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
15	64.485	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
16	64.485	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
3	62.352	Vertical clearance = 15.96' (16' minimum)
		Barrier wall does not meet current standards
17	60.328	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
18	60.328	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
19	51.491	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
20	51.491	Horizontal Clearance = 30' (Note bridge is less than 200' long)
		Barrier wall does not meet current standards
1	53.800	Length of Vertical Curve = 800' (829' calculated minimum)
		Stopping Sight Distance = 710' (730' minimum)
11	Exit 50	Taper Length < Min; Entrance Ramp Deficient; Previous Toll Plaza
		Barrier Wall
Barrier Wall	46.645	Barrier wall does not meet current standards
	46.645	Barrier Wall
Barrier Wall	46.146	Barrier wall does not meet current standards
	46.146	Deficiency
21	45.88	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier wall does not meet current standards

Table ES-2 continued on following page)

Table ES-2 (Continued) Deficiencies Summary

Deficiency Type	Milepoint	Deficiency Description
	Natcher Parkway - Davess / Ohio / Butler / Warren Counties	
	45.88	Barrier Wall does not meet current standard
22		Horizontal Clearance = 30' (Note bridge is over 200' long)
	Exit 43	Taper Length < Min
12	Exit 36	Taper Length < Min; Entrance Ramp Deficient; Interchange control of access less than 300' minimum; Previous Toll Plaza
Barrier Wall Deficiency	34.816 (NB & SB)	Barrier Wall does not meet current standard
4	33.741	Vertical clearance = 15.76' (16' minimum)
23	29.533	Horizontal Clearance = 30' (Note bridge is less than 200' long)
24	29.533	Horizontal Clearance = 30' (Note bridge is less than 200' long)
14	Exit 29	Taper Length < Min
		Interchange control of access less than 300' minimum
3	29.000	Interchange spacing less than 3 mile minimum
15	Exit 28	Taper Length < Min
25	28.523	Horizontal Clearance = 30' (Note bridge is less than 200' long)
26	28.523	Horizontal Clearance = 30' (Note bridge is less than 200' long)
27	24.723	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard
28	24.723	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard
29	15.627	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard

(Table ES-2 continued on following page)

Table ES-2 (Continued) Deficiencies Summary

Deficiency Type	Milepoint	Deficiency Description
Natcher Parkway - Davess / Ohio / Butler / Warren Counties		
30	15.627	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard
16	Exit 9	Taper Length < Min; Entrance Ramp Deficient; Previous Toll Plaza
		Exit 7
17	Exit 7	Taper Length < Min
		Horizontal Clearance = 30' (Note bridge is over 200' long)
31	7.083	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard
32	7.083	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard
33	6.003	Horizontal Clearance = 30' (Note bridge is less 200' long)
		Barrier Wall does not meet current standard
34	6.003	Horizontal Clearance = 35.1' (Note bridge is less 200' long)
		Barrier Wall does not meet current standard
18	Exit 6	Taper Length < Min
		Horizontal Clearance = 30' (Note bridge is over 200' long)
35	5.686	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard
36	5.686	Horizontal Clearance = 30' (Note bridge is over 200' long)
		Barrier Wall does not meet current standard
19	Exit 2	Taper Length < Min
		Aucubon Parkway / US 60 / Natcher Parkway
Guardrail Trailing End Treatments		
Appendix D	Guardrail Trailing End Treatments do not meet current standard. Reference Appendix D for locations	




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