

Summary Comparison of Conceptual Alternatives						
Impacts	No Build	Alternative B (Former Alternative 2)	Alternative C (Former Alternative 3)	Alternative D (Former Alternative 3)	Alternative E (Former Alternative 3)	Alternative G (Former Alternative 4 Hybrid)
Alternative Description	The No Build Alternative consists of minor, short-term safety and maintenance improvements to the Brent Spence Bridge and I-75 corridor, which would maintain continuing operations. All within existing right of way.	Six lanes each direction between Kyles Lane and KY 12 th Street; Local C-D roadway from KY 12 th Street to Ohio River; New bridge (4 lanes in each direction) through Queensgate 900 feet west of existing for I-71/I-75 traffic; Rehab existing bridge for local traffic (2 lanes SB and 3 lanes NB); Realign US 50; Improvements to Western and Winchell Avenues	Six lanes in each direction between Kyles Lane and KY 12 th Street; local C-D roadway from KY 12 th Street to Ohio River; New double deck bridge just west of existing bridge for I-75 (2 lanes NB and SB), 2 lanes SB I-71, two lanes SB local traffic; Rehab existing bridge for NB I-71 (2 lanes), NB local traffic (3 lanes); Reconfigure I-75 through I-71/I-75/US 50 Interchange; From KY 12 th Street to Ezzard Charles Drive NB I-75 5 lanes, SB I-75 2 lanes, and local SB C-D roadway 4 lanes; Improvements to Western and Winchell Avenues	Six lanes in each direction between Kyles Lane and KY 12 th Street; Local C-D roadway between KY 12 th Street and the Ohio River; New double deck bridge just west of the existing bridge I-75 (2 lanes NB and SB), two lanes SB I-71, and two lanes SB local traffic; Rehab existing bridge for NB I-71 (2 lanes) and three lanes for NB local traffic (3 lanes); Reconfigure I-75 through the I-71/I-75/US 50 Interchange; 11 lanes for I-75 and SB local traffic between Ezzard Charles Drive and the Western Hills Viaduct; Improvements to Western and Winchell Avenues	Six lanes in each direction between Kyles Lane and KY 12 th Street; Two access points into Covington for NB and SB traffic; New double-deck bridge just west of the existing Bridge for I-71/I-75 traffic (2 lanes in each direction); Reconfigure I-75 through the I-71/I-75/US 50 Interchange; Between Ezzard Charles Drive and Western Hills Viaduct, SB I-75 6 lanes, NB I-75 5 lanes, and one auxiliary lane to the Western Hills Viaduct; Improvements to Western and Winchell Avenues	Six lanes in each direction between Kyles Lane and KY 12 th Street; 2 access points to Covington for NB and SB traffic through a C-D roadway; New double deck bridge just west of the existing bridge for I-75 (2 lanes in each direction), 2 lanes for SB I-71 and 2 lanes for SB local traffic; Rehab existing bridge for NB I-71 (2 lanes) and local traffic (3 lanes); Reconfigure I-75 through the I-71/I-75/US 50 Interchange; I-75 elevated from Ohio River to Linn Street; NB C-D roadway will carry local traffic to Ezzard Charles Drive; Improvements to Western and Winchell Avenues
Environmental Resources						
Ohio River – (new bridge crossings and new piers)	None	Less than 10% of the piers will be in the river	New bridge located 120 feet west of existing bridge; Two new piers located in the river			
Cultural Resources						
Individual properties eligible for listing or listed in the National Register of Historic Places (NRHP)	No Impacts	3 Properties: 3 potentially eligible properties: • Residence at 632 Western Avenue direct impact • Residence at 521 Western Avenue potential visual and noise impacts • Residence at 881 Highway Avenue potential visual and noise impacts	2 Properties: 1 Potentially eligible property: • Harriet Beecher Stowe Elementary School potential visual and noise impacts 1 NRHP Listed: • Longworth Hall direct impact (0.25 acres and eastern portion of building)	2 Properties: 1 Potentially eligible property: • Harriet Beecher Stowe Elementary School potential visual and noise impacts 1 NRHP Listed: • Longworth Hall direct impact (0.25 acres and eastern portion of building)	2 Properties: 1 Potentially eligible property: • Harriet Beecher Stowe Elementary School potential visual and noise impacts 1 NRHP Listed: • Longworth Hall direct impact (0.54 acres and eastern portion of building)	2 Properties: 1 Potentially eligible property: • Harriet Beecher Stowe Elementary School potential visual and noise impacts 1 NRHP Listed: • Longworth Hall direct impact (0.42 acres and eastern portion of building)
Historic Districts (HD) directly impacted	No Impacts	2.4 acres impacted of NRHP Listed Lewisburg HD	0.83 acres impacted of NRHP Listed Lewisburg HD	0.88 acres impacted of NRHP Listed Lewisburg HD	0.98 acres impacted of NRHP Listed Lewisburg HD	2.9 acres impacted of NRHP Listed Lewisburg HD
Community Resources						
Community Cohesion	No Impact	• Loss of homes and local businesses on Crescent Avenue in West Covington neighborhood • Loss of 8 homes in the Lewisburg neighborhood and Historic District adjacent to I-71/I-75 • Traverses the Queensgate business district • Residents displaced near Western Hills Viaduct	• Loss of homes in the Lewisburg neighborhood • Residents displaced near Western Hills Viaduct	• Loss of homes in the Lewisburg neighborhood • Residents displaced near Western Hills Viaduct	• Loss of homes in the Lewisburg neighborhood • Residents displaced near Western Hills Viaduct	• Loss of homes and local businesses on Crescent Avenue in West Covington neighborhood • Loss of 12 homes in the Lewisburg neighborhood and Historic District adjacent to I-71/I-75 • Residents displaced near Western Hills Viaduct
Section 4(f) and 6(f) Resources						
Section 4(f) Resources	None	5 Resources: • Goebel Park (1.86 acres) • Lewisburg Historic District (2.4 acres; 8 residences - 1 non-contributing and 7 contributing) • Residence at 632 Western Avenue direct impact • Residence at 521 Western Avenue potential visual and noise impacts • Residence at 881 Highway Avenue potential visual and noise impacts	5 Resources: • Goebel Park (2.6 acres) • Lewisburg Historic District (0.83 acres; 10 residences: 1 non-contributing; 9 contributing) • Longworth Hall (0.25 acres) • Harriet Beecher Stowe Elementary School potential visual and noise impacts • Queensgate Playground (0.31 acres)	5 Resources: • Goebel Park (1.94 acres) • Lewisburg Historic District (0.88 acres) (10 residences - 1 non-contributing; 9 contributing) • Longworth Hall (0.25 acres) • Harriet Beecher Stowe Elementary School potential visual and noise impacts • Queensgate Playground (0.45 acres)	4 Resources: • Goebel Park (0.35 acres) • Lewisburg Historic District (0.98 acres; 11 residences - 1 non-contributing; 10 contributing) • Longworth Hall (0.54 acres) • Harriet Beecher Stowe Elementary School potential visual and noise impacts	5 Resources: • Goebel Park (0.78 acres) • Lewisburg Historic District (2.9 acres; 12 residences - 2 non-contributing; 10 contributing) • Longworth Hall (0.42 acres) • Harriet Beecher Stowe Elementary School potential visual and noise impacts • Queensgate Playground (0.29 acres)
Property Acquisition						
Residential	None	42 Structures: KY – 38 (65-260 residents) OH – 5 (10-36 residents)	16 Structures: KY – 11 (13-52 residents) OH – 5 (10-36 residents)	16 Structures: KY – 11 (13-52 residents) OH – 5 (10-36 residents)	19 Structures: KY – 13 (12-48 residents) OH – 6 (11-40 residents)	31 Structures: KY – 25 (28-112 residents) OH – 6 (11-40 residents)
Business	None	34 Businesses: KY – 8 (121-158 employees) OH – 26 (1,791-1,831 employees)	35 Businesses: KY – 4 (90-115 employees) OH – 31 (242-283 employees)	34 Businesses: KY – 4 (90-115 employees) OH – 30 (164-190 employees)	39 Businesses: KY – 4 (90-115 employees) OH – 35 (327-363 employees)	41 Businesses: KY – 7 (103-140 employees) OH – 34 (1,215-1,251 employees)
Right of Way Impacts	None	72.2 Acres	22.2 Acres	19.7 Acres	22.3 Acres	28.2 Acres
Utilities						
Number of utilities impacted	None	• 58 Individual facilities identified. 46 are below ground and 12 are above ground • Does not impact the Duke Energy Sub-station near Longworth Hall • Requires relocation of 5 high voltage transmission cables	• 52 Individual facilities identified. 45 are below ground and 7 are above ground • Impacts to portion of the Duke Energy Sub-station near Longworth Hall • Does not impact high voltage transmission cables	• 52 Individual facilities identified. 45 are below ground and 7 are above ground • Impacts to portion of the Duke Energy Sub-station near Longworth Hall • Does not impact high voltage transmission cables	• 52 Individual facilities identified. 45 are below ground and 7 are above ground • Impacts to portion of the Duke Energy Sub-station near Longworth Hall • Does not impact high voltage transmission cables	• 52 Individual facilities identified. 45 are below ground and 7 are above ground • Impacts to portion of the Duke Energy Sub-station near Longworth Hall • Does not impact high voltage transmission cables
Utility relocation costs (2012 with inflation) (does not include right of way costs)	N/A	Duke Energy \$175.0 million (ranges from \$42.0 – 175.0 million)	Duke Energy \$39.4 million	Duke Energy \$39.4 million	Duke Energy \$39.4 million	Duke Energy \$39.4 million
Cost Estimates (in millions)						
Estimated Right of way costs (2012 with inflation)	N/A	Kentucky: \$18.4 Ohio: \$46.5 Subtotal: \$64.9	Kentucky: \$2.5 Ohio: \$15.5 Subtotal: \$18.0	Kentucky: \$2.4 Ohio: \$12.1 Subtotal: \$14.5	Kentucky: \$2.4 Ohio: \$13.0 Subtotal: \$15.4	Kentucky: \$4.6 Ohio: \$19.9 Subtotal: \$24.5
Estimated Construction Costs (2008 plus 59.5% inflation) *Note: Main span bridge included in Kentucky costs	N/A	Kentucky: \$1,485.4 Ohio: \$880.6 Subtotal: \$2,366.0	Kentucky: \$1,260.4 Ohio: \$752.0 Subtotal: \$2,012.4	Kentucky: \$1,260.4 Ohio: \$752.0 Subtotal: \$2,012.4	Kentucky: \$1,474.1 Ohio: \$809.3 Subtotal: \$2,283.4	Kentucky: \$1,305.3 Ohio: \$1,079.3 Subtotal: \$2,384.6
Estimated Utilities Costs (relocation and right of way costs with inflation)	N/A	Kentucky: \$91.0 Ohio: \$91.0 Subtotal: \$182.0	Kentucky: \$20.2 Ohio: \$20.2 Subtotal: \$40.4	Kentucky: \$20.2 Ohio: \$20.2 Subtotal: \$40.4	Kentucky: \$20.2 Ohio: \$20.2 Subtotal: \$40.4	Kentucky: \$20.2 Ohio: \$20.2 Subtotal: \$40.4
Project Development Costs (with inflation)	N/A	Kentucky: \$151.6 Ohio: \$92.6 Subtotal: \$244.2	Kentucky: \$130.1 Ohio: \$80.3 Subtotal: \$210.4	Kentucky: \$130.1 Ohio: \$80.3 Subtotal: \$210.4	Kentucky: \$150.5 Ohio: \$85.8 Subtotal: \$236.3	Kentucky: \$134.4 Ohio: \$111.6 Subtotal: \$246.0
Total Estimated Costs *Total estimated costs include construction, real estate, utilities,	N/A	Kentucky: \$1,746.4 Ohio: \$1,110.7 \$2,857.10	Kentucky: \$1,413.2 Ohio: \$868.0 \$2,281.20	Kentucky: \$1,413.1 Ohio: \$864.6 \$2,277.70	Kentucky: \$1,647.2 Ohio: \$928.3 \$2,575.50	Kentucky: \$1,464.5 Ohio: \$1,231.0 \$2,695.50