COMPARISON OF ALTERNATIVES

Local Concept Development Study for Essex County/Hudson County Bridge Street Bridge over the Passaic River City of Newark, Essex County, NJ and Town of Harrison, Hudson County, NJ

Concept 6D, Existing Concept 7, New Concept 8, New Concept 1, Existing Concept 2, Existing Concept 3, Existing Concept 4, Existing Concept 5, Existing Concept 6A, Existing Concept 6B, Existing Concept 6C, Existing nment. Movable Location, Northern Location, Southern Modified Alignment, Fixed Alignment, Fixed Major Alignment, Fixed Alignment, Fixed Alignment, Fixed Alignment, Movable Alignment, Movable Alignment, Movable No Build Comparison Category/Issue Bridge with 1 80' Alianment, Fixed Alianment, Fixed idge with 16' Vertica Bridge with 18' Verti idge with 35' Vertica Bridge with 12' Bridge with 135' Bridge with 100' Bridge with 2-80' Channel, 1-58' Bridge with 12' ridge with 12' Vertica Vertical Clearance Clearance Clearance Clearance **Vertical Clearance Waterway Channe Waterway Channel Waterway Channels Vertical Clearance** Maintenance Chann Clearance No No Meets Project Purpose and Need No Yes Maintenance and Protection of Traffic N/A No No No No No No No No emporary Bridge Required No No umber of lanes provided during construction N/A 0 - Detour 1 - Detour 1 Lane in each direction 1 Lane in each direction 1.0 mile etour Required/Length None No No Controlling Substandard Design Elements Remaining ane width for Bridge Street Left Turn Lane at Passaic Avenue intersection Yes Yes Yes No No No N/A N/A No No No No Yes Yes Yes No No No No Yes ngle Point on Bridge Street Yes Outside shoulder width on Bridge Street Yes Yes Yes Yes Yes Yes No No Yes Yes Yes Yes Yes Yes Vertical Profile rofile Raise at the Bridge Street/McCarter Avenue intersection 0 ft N/A 0 ft 2 feet 3 feet N/A - intersection removed N/A - intersection remove 0 ft N/A 0 ft 0 ft 0 ft 0 ft 0 ft 0 ft ofile Raise at the Bridge Street/Passaic Avenue intersection 2 feet Construction Duration N/A 2.5 2.0 2.0 2.0 2.0 3.0 4.0 2.5 2.5 3.0 3.0 2.0 2.0 raffic Operations & Bicycle/Pedestrian Yes Yes dewalks provided with connectivity to approach roadways Yes Yes Yes Yes Bicycle compatibility provided with connectivity to approach roadways No No Nο Yes ddresses peak hour congestion at the Bridge St/Passaic Ave intersection No Yes Yes Yes N/A - intersection removed N/A - intersection remove Yes Yes Yes Yes Yes Yes Crash Reduction Impacts nticipated crash reduction at Bridge St/Passaic Avenue intersection Yes Yes Yes Right of Way Impacts 0.1 0.1 0.1 3.4 0.4 equired ROW (in fee - Acres) 1.6 1.6 10.6 + 0.1 umber of Temporary construction easements 0 4 4 0 0 1 + 1 + umber of partial residential property acquistions 1 + 1+ umber of entire residential property acquistions 0 0 0 0 0 0 5 + 4+ 0 0 0 0 0 0 4+ 3 + lumber of partial commercial property acquistions umber of entire commercial property acquistions Ω 0 0 0 3 3 6+ 8 + 0 0 0 2 0 ccess Yes otential Access Impacts to commercial properties No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes No Structural Design ridge Approach Safety Upgraded No Yes eismic Design addressed No Yes N/A N/A N/A N/A N/A N/A Mechanical and electrical components upgraded No Yes Yes Yes Yes Yes Yes N/A commodates Commercial & Recreational Users of River Yes Yes Yes No Yes Yes Yes Yes Yes No Environmental Impacts 0.04 ac 0.23 ac oodplain (acres) 0.0 0.04 ac 0.15 ac 0.18 ac 0.17 ac 0.25 ac 0.13 ac 0.23 ac 0.20 ac 0.20 ac 0.15 ac 0.15 ac iparian Zone (acres) 0.0 0.0 0.0 0.07 ac 0.07 ac 0.05 ac 0.05 ac 0.05 ac 0.07 ac 0.07 ac 0.07 ac 0.07 ac 0.07 ac 0.07 ac otal Wetland and State Open Water Permanent Impacts (acres) 0.0 0.04 ac 0.04 ac 0.08 ac 0.11ac 0.08 ac 0.08 ac 0.08 ac 0.16 ac 0.16 ac 0.13 ac 0.13 ac 0.08 ac 0.08 ac istoric Resources (# of sites) 3+ 3+ azardous Waste/Contaminated Sites 0 9 12 + 3 3 3 hreatened and Endangered Species Habitat No No No No No No No No No No

Yes

\$52,844,000

\$6,600,000

\$61,244,000

\$25,000

\$40,200,000

Yes

\$105,653,000

\$15,800,000

\$4.2 M +

\$125,653,000 +

\$50,000

\$89,000,000

Yes

\$345,067,000

\$69,000,000

\$14.2 M +

\$428,267,000 +

\$1,000,000

\$263,600,000

Yes

\$76,600,000

\$10,800,000

\$100 K

\$87,500,000

\$150,000

\$79,650,000

Yes

\$85,900,000

\$10,800,000

\$100 K

\$96,800,000

\$150,000

\$87 950 000

Yes

\$136,700,000

\$10,800,000

\$100 K

\$147,600,000

\$150,000

\$145,650,000

Yes

\$118,400,000

\$10,800,000

\$100 K

\$129,300,000

\$129 350 000

Yes

\$37,164,000

\$3,400,000

\$9.0 M

\$49,564,000

\$325,000

\$29,000,000

Yes

\$38,863,000

\$3,600,000

\$300 K

\$325,000

\$29,000,000

\$42,763,000

ompatible with Newark Waterfront Development & Passaic River Walkway

Total Construction Cost (\$ 2025)*

nual Maintenance and Operations Cost

ridge Life Cycle Cost (Present Value - 75 yr period)

Jtility Relocation Cost

Total Cost (\$ 2025)

Right of Way Cost

Yes

N/A

N/A

N/A

N/A

Yes

\$44,022,000

\$0

\$44,022,000

\$300,000

\$111.850.000

Yes

\$40,498,000

\$0

\$40,498,000

\$300,000

\$109 350 000

Yes

\$35,893,000

\$5,100,000

\$100 K

\$41,093,000

\$25,000

\$29,000,000

Yes

\$44,597,000

\$6,300,000

\$1.8 M

\$52,697,000

\$25,000

\$34 600 000

DRAFT