



COLUMBUS CROSSROADS

Phase 4 INFRA Application | February 25, 2020



OHIO DEPARTMENT OF
TRANSPORTATION

THE CITY OF
COLUMBUS
ANDREW J. GINTHER, MAYOR



MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

Basic Project Information:

What is the Project Name?

Columbus Crossroads Phase 4

Who are the Project Sponsors?

1. Ohio Department of Transportation (Lead Applicant)
2. City of Columbus, OH (Co-applicant)

Was an INFRA application for this project submitted previously? (If Yes, please include title).

Yes, in 2019. It was titled "Columbus Crossroads Phase 4."

Project Costs:

INFRA Request Amount

\$40,000,000.00

Estimated Federal funding (excl. INFRA), anticipated to be used in INFRA funded future project

\$52,850,000.00

Estimated non-Federal funding anticipated to be used in INFRA funded future project.

\$68,550,000.00

Future Eligible Project Cost (Sum of previous three rows)

\$161,400,000

Previously incurred project costs (if applicable)

\$149,200,000.00

Total Project Cost (Sum of 'previous incurred' and 'future eligible')

\$310,600,000.00

Are matching funds restricted to a specific project component? If so, which one?

No.

Project Eligibility: To be eligible, all future eligible project costs must fall into at least one of the following four categories:

Approximately how much of the estimated future eligible project costs will be spent on components of the project currently located on National Highway Freight Network (NHFN)?

\$110,000,000.00

Approximately how much of the estimated future eligible project costs will be spent on components of the project currently located on the National Highway System (NHS)?

\$161,400,000.00

Approximately how much of the estimated future eligible project costs will be spent on components constituting railway-highway grade crossing or grade separation projects?

\$0.00

Approximately how much of the estimated future eligible project costs will be spent on components constituting intermodal or freight rail projects, or freight projects within the boundaries of a public or private freight rail, water (including ports), or intermodal facility?

\$0.00

Project Location:

Columbus Crossroads Phase 4

<p>State(s) in which project is located.</p> <p>Small or large project</p> <p>Urbanized Area in which project is located, if applicable.</p> <p>Population of Urbanized Area (According to 2010 Census)</p> <p>Is the project located (entirely or partially) in an Opportunity Zone?</p> <p>Is the project currently programmed in the:</p> <ul style="list-style-type: none"> • TIP. • STIP. • MPO Long Range Transportation Plan. • State Long Range Transportation Plan. • State Freight Plan? 	<p>Ohio</p> <p>Large project</p> <p>Columbus, Ohio Urbanized Area</p> <p>1,368,035¹</p> <p>Yes, partially: Census Tract 39049005100</p> <p>Yes/no (<i>please specify in which plans the project is currently programmed</i>).</p> <p>Yes²</p> <p>Yes³</p> <p>Yes⁴</p> <p>No; Ohio's LRTP is a policy based plan that does not list specific projects. This project is not programmed within the document but is consistent with the goals and objectives of the plan.</p> <p>Yes⁵</p>
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¹ “A national 2010 urban area file containing a list of all urbanized areas and urban clusters (including Puerto Rico and the Island Areas) sorted by UACE code,” United States Census Bureau, accessed February 12, 2020, https://www2.census.gov/geo/docs/reference/ua/ua_list_all.xls.

² Yes, the Local Transportation Improvement Plan identifies multiple projects that are included in or impacted by Phase 4, including: Phases 4R, 4B. The project IDs are 3295 (4R), and 2874 (4B). “Detailed Project Listing Sorted by Agency & MORPC ID for the SFY 2018 to 2021 TIP,” Mid-Ohio Regional Planning Commission (MORPC), accessed February 12, 2020, <http://www.morpc.org/wordpress/wp-content/uploads/2017/12/MORPCTIP2018-2021ListingbyAgency.pdf>, pages 68, 56, and 74.

³ Yes, the State Transportation Improvement Plan includes Phases 4R, 4B, and 4A. The project IDs are 105523 (4R), 96053 (4B), and 77372 (4A). “Ohio Department of Transportation 2018-2021 STIP Project Listing (Appendix 6) as of 02/04/20 for District: 6,” Ohio Department of Transportation (ODOT), accessed February 12, 2020, <http://www.dot.state.oh.us/Divisions/Planning/STIP/Current%20STIP%20Project%20List/Current%20STIP%20District%206.pdf>, pages 20, 10-11, 18, and 6.

⁴ Yes, MORPC's Long Range Transportation Plan identifies the entire I-70 & I-71 overlap as a single project. The project ID is 270. “Chapter 8: Summary of Strategies and Projects,” MORPC, http://www.morpc.org/wordpress/wp-content/uploads/2017/12/000MTP_Report_Chapter8_merged.pdf, p. 8-10.

⁵ Yes, Ohio's State Freight Plan identifies multiple projects that are included in or impacted by Phase 4, including: K-5, Reconstruct/reconfigure I-70/71 from SR-315 to the I-70/71 split east of downtown Columbus; K-6, Reconstruct/reconfigure I-70 from Front St. to Grant Ave.. “Transport Ohio: Statewide Freight Plan” ODOT, accessed February 11, 2019, http://www.dot.state.oh.us/Divisions/Planning/SPR/StatewidePlanning/Documents/ODOT_FreightPlan_Updated%203.7.19.pdf, p. 59.

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1. Does the project generate national or regional economic, mobility, or safety benefits? 24

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4. Is the project based on the results of preliminary engineering? 25

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5b. Are contingency amounts available to cover unanticipated cost increases? 25

6. Is it the case that the project cannot be easily and efficiently completed without other Federal funding or financial assistance available to the project sponsor? 25

7. Is the project reasonably expected to begin construction not later than 18 months after the date of obligation of funds for the project? 25

I. Project Summary

This application is requesting \$40 million from the Infrastructure for Rebuilding America (INFRA) Discretionary Grant program to support Phase 4 of the Columbus Crossroads Project (Phase 4). The Columbus Crossroads Project, illustrated in **Figure 1** is a \$1.3 billion, multi-phase project developed by the Ohio Department of Transportation (ODOT) in partnership with the City of Columbus, the Mid-Ohio Regional Planning Commission (MORPC), and multiple local stakeholders. These partners have cast a comprehensive vision for the Columbus Crossroads Project. The project’s regional impact and importance goes beyond simply addressing serious safety and congestion issues in one of the most congested and dangerous functionally obsolete interstate crossroads. The partners have leveraged this major infrastructure investment to support continued economic development in Central Ohio, while reconnecting and restoring urban neighborhoods that were isolated and torn apart by the interstates’ initial construction.



Figure 1 - Phasing for the Columbus Crossroads Project.

A. Concise Project Description

The Columbus Crossroads is named for this intersection of two Primary Interstate Highways: Interstate 70 and Interstate 71. I-70 stretches from Cove Fort, UT to Baltimore, MD; and I-71 reaches from Louisville, Kentucky to Cleveland, Ohio. As shown in **Figure 1 above**, the primary focus of Phase 4’s freeway improvements is the 1.25 mile “overlap” of these nationally significant routes. The I-70/71 Overlap runs through the South Innerbelt Trench, which physically separates Downtown Columbus from neighborhoods immediately south: the Brewery District, historic German Village, Schumacher Place, and Livingston Park.

Phase 4 is necessary to relieve congestion and improve safety along a nationally and regionally important segment of the National Highway Freight Network’s Primary Highway Freight System (PHFS).⁶ As shown in **Figure 2**, freight from the South, Mid-Atlantic, and Midwest rely upon I-70/71 to move through Central Ohio.

Phase 4 is necessary regionally and locally to improve access to jobs and essential services in Downtown Columbus, and to restore neighborhood connections severed by the South Innerbelt Trench.

Phase 4 will be executed in two subphases. Phase 4’s first subphase, 4R, will be sold first, with an anticipated April 2020 sale date.⁷ The remainder of Phase 4 would follow in Fall 2022.⁸ This staggered approach will allow a separate but related project, Phase 6R, to relocate the existing westbound ramp. Phase 4’s involves multiple elements impacting freeways and urban avenues, including:

- Reconstructing eastbound I-70 and northbound I-71 through the I-70/71/SR 315 West Interchange, including two bridges carrying traffic across the Scioto River and railroad tracks ;

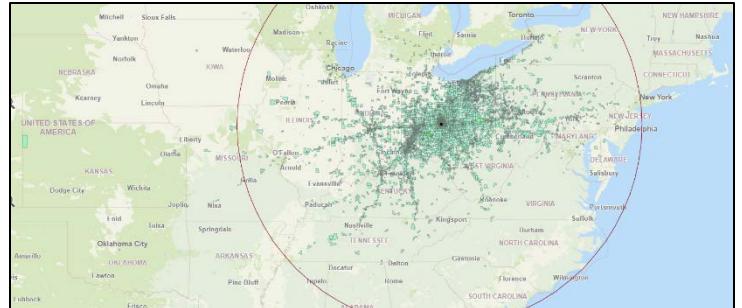


Figure 2 - Starting and ending census blocks of truck movements travelling through the I-70/71 Overlap in 2019. Red circle indicates approximately 500 miles from project area.

⁶ “National Highway Freight Network Map,” Federal Highway Administration, U.S. Department of Transportation, last modified February 1, 2017, https://ops.fhwa.dot.gov/freight/infrastructure/nfn/maps/nhfn_map.htm.

⁷ Although 4R’s costs will not be eligible for future INFRA reimbursement due to its sale date, it is an integral part of Phase 4 and its benefits will not be enjoyed until all of Phase 4 has been completed.

⁸ Phase 4 recombines the subphases currently designated as 4A and 4B. 4A includes the reconstruction of the mainline, eastbound freeway; and 4B includes the reconstruction of the High Street Bridge (previously identified as 4H in the 2019 INFRA application) with the reconstruction of the Third Street Bridge and Fourth Street Bridge.

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- Rebuilding the I-70/71 overlap section of freeway between High Street and Grant Avenue;
- Replacing four functionally obsolete bridges over I-70/71 at: Front Street, High Street, Third Street and Fourth Street;
- Constructing five new bridges, in addition to the bridges being replaced;
- Reconnecting Downtown Columbus and the neighborhoods immediately south through urban avenue improvements, bridge enhancements, and the installation of caps on the Front Street Bridge, High Street Bridge, and Third Street Bridge; and
- Facilitating innovative technology, including traffic signal preemption.

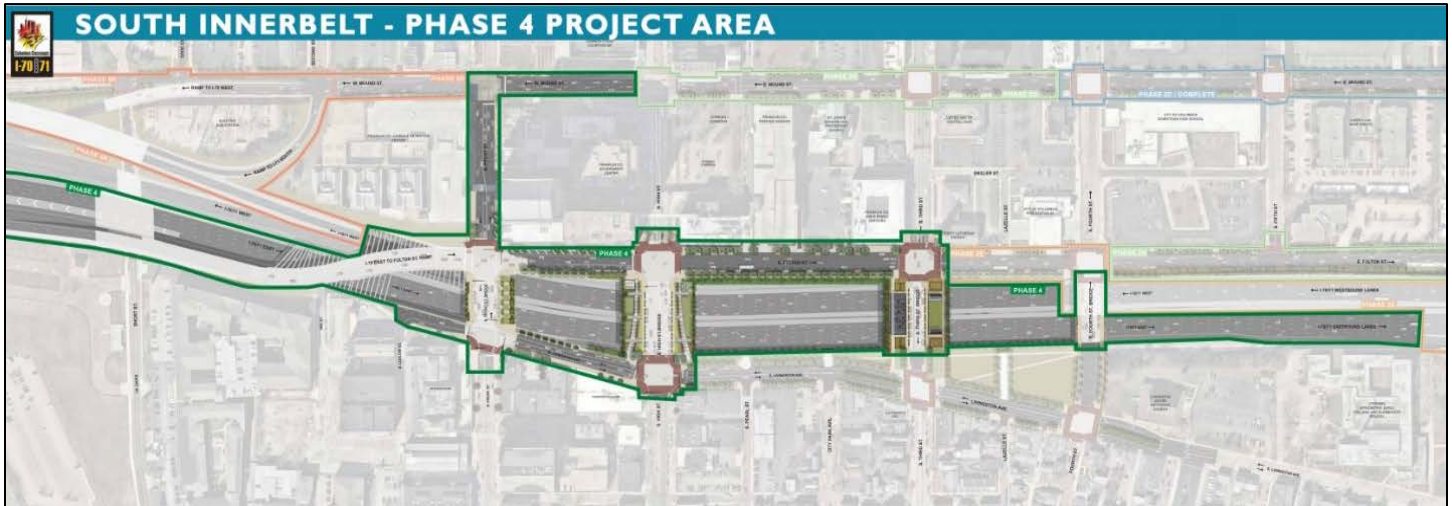


Figure 3 - Phase 4 improvements within the immediate South Innerbelt Trench area. The full exhibit is available at a larger scale in Appendix A and online at <https://www.morpc.org/columbuscrossroads/>.

B. Transportation challenges for Phase 4

Phase 4's transportation challenges arise from the I-70/71 Overlap's location at the heart of both freight and commuter traffic in Central Ohio. It serves as the southern leg of the Columbus Innerbelt (I-70/71/I-670/SR 315) that encompasses Downtown Columbus, and is one of the busiest and most vital sections of highway for freight and commuters in the region. Congestion and safety are the two most significant daily challenges confronting commuters and freight in the I-70/71 Overlap. The I-70/71 Overlap is measured as the **2nd worst freeway segment for travel time performance in Ohio⁹ and third overall in the state**. It earned this third overall ranking by performing poorly consistently in the following categories: Bottlenecks, Travel Time Performance, Safety Performance, Volume per Lane, Freight corridors, Incident Clearance, and Secondary Crashes.

The I-70/71 Overlap is at the epicenter of national freight movement between the East Coast and Midwest. Columbus has emerged as a logistics nexus because of its strategic location within 500 miles or a one-day truck trip of: **58% of the U.S. population, 50% of the Canadian population, 61% of U.S. manufacturing capacity, and 80% of U.S. corporate headquarters**. The I-70/71 Overlap lies directly between national industrial manufacturing hubs, such as Cleveland and Pittsburgh, and national distribution centers, such as Louisville and Chicago. However, congestion and safety issues limit freight's ability to move efficiently through this important PHFS section.

Moreover, the I-70/71 Overlap is at the center of significant regional and local growth. Central Ohio has grown significantly, and population estimates for the Columbus, Ohio MSA now exceed 2 million. People throughout the region use the I-70/71 Overlap to commute to or through the city center for work, healthcare, or entertainment. The Columbus Innerbelt, which includes Downtown Columbus, is the largest job center in the region,¹⁰ with more

⁹ ODOT defines Travel Time Performance as the Percent of Time motorists can travel at or near (90%) of the reference speed (free-flow/uncongested speed defined by data provider).

¹⁰ Major employers such as Nationwide Insurance, Huntington Bank, Nationwide Children's Hospital, PNC Bank, American Electric Power, OhioHealth, and Columbia Gas are all situated in and around the city core. Other major employers including the Ohio State University, JP Morgan Chase, Limited Brands, Defense Logistics Center, and Alliance Data are on the fringe of the city center core.

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than 100,000 jobs located inside and directly adjacent to the Innerbelt.¹¹ It provides essential medical services to the entire region from OhioHealth's Grant Medical Center, which is a Level 1 Trauma Center, and Nationwide Children's Hospital (NCH), which is Level 1 Pediatric Trauma Center. The seats of government for the State of Ohio, Franklin County, and the City of Columbus are all within this area. However, regional access to and through this area is limited due to significant congestion and safety issues in the I-70/71 Overlap.

Today, the corridor serves approximately 145,169 vehicles per day. Truck volumes on the freeway are 18,194 per day, which means the highway serves about 12 trucks per minute. Traffic has long surpassed the original design. Today, the highway exceeds its design capacity by about 50,000 vehicles per day, making it one of the top congestion locations in Ohio.

The I-70/71 Overlap freeway area is also one of the most hazardous. Although it makes up only 6% of the Columbus area freeway system, it is the site of 25% of all freeway crashes in the region, with an average of two crashes per day. Crashes are caused by congestion and characteristics of an outdated highway design, including:

- Intense weaving caused by the overlapping freeways. Motorists on I-71 are forced to cross several lanes of traffic to continue north or south through the downtown.
- Closely spaced interchanges add to the weaving and merging problems. This includes 21 ramps to and from city streets and three system interchanges within the 3.5-mile freeway.
- Insufficient lengths at ramps for acceleration, deceleration, and merging.
- Substandard horizontal curves.

Safety issues are not limited to vehicular traffic in the South Innerbelt Trench. Vehicles travelling locally across the bridges must contend with vehicles entering or exiting I-70/71. Pedestrians and bicyclists trying to cross the South Innerbelt Trench bridges must contend not only with vehicles entering or exiting I-70/71, but also with poor pedestrian and bicyclist facilities. Uncontrolled vehicular turning movements conflict with pedestrian movements along Fulton Street and Livingston Avenue, making particularly difficult and uncomfortable for older adults and persons with disabilities.

Properly addressing these transportation challenges creates an additional transportation challenge of managing a project of this magnitude while minimizing disruption to primary freight routes and essential commuter connections to the city and through the region.

C. Phase 4's approach to transportation challenges within the project area

This project will improve safety and reduce congestion challenges by adding lanes and consolidating the number of ramps to Downtown Columbus. Reducing congestion will improve the flow of freight through the I-70/71 Overlap, save time and money for commuters, emergency services, and support the emerging on-demand economy of the national logistics industry. Safety will be improved as consolidating the number of eastbound ramps into the downtown will reduce the number of necessary lane changes. Improved safety will also have a positive impact on congestion, as the high number of rear-end collisions that occur along this corridor decrease. In addition, by including accommodations for pedestrian and bicycle traffic on the reconstructed bridges to connect with similar facilities on adjacent urban avenues, safety for bicycle and pedestrian traffic will improve. Including these accommodations on the reconstructed bridges and adjacent urban avenues will reconnect neighborhoods, as well as improve pedestrian mobility and accessibility.

D. Project history and previously completed components

A good faith effort has been made to construct the Columbus Crossroads Project. The need to fix this congested, high-crash corridor has never been more critical. As one of the fastest growing regions in the Midwest,

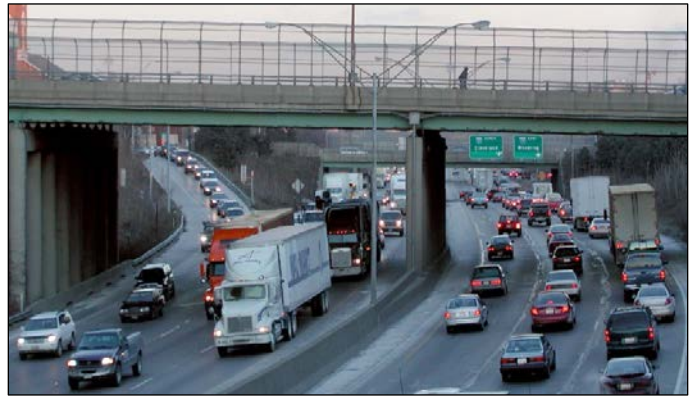


Figure 4 - Freight and commuters vying for lane position during rush hour congestion.

¹¹ MORPC calculated the downtown workforce using LEHD (Longitudinal Employer-Household Dynamics); for the selected geography inside and directly adjacent to the Columbus Innerbelt (I-70/71/I-670/SR 315), the estimated population was 107,125.

MORPC estimates that by 2040 Central Ohio could have: 25% population growth, 20% job growth, and 13% increase in regional vehicle trips. The proposed improvements – which are documented in the approved Interchange Modification Study (IMS), Environmental Assessment (EA), and Finding of No Significant Impact (FONSI) – are needed to improve safety and reduce congestion of this critical regional corridor.¹² The following project phases, which are mapped in Figure 1 on page 1, have either been completed or are currently underway using funds committed by ODOT, Columbus and MORPC:

- Phase 1 – The I-71/I-670 Interchange reconstruction was completed in 2014.
- Phase 2C, The Mound Street Connector – completed in 2015
- Phase 2B, I-70/71 Storm Sewer Outlet upgrade – completed 2017
- Phase 2G, Grant Avenue Bridge Replacement & Fulton Street Reconstruction – completed 2019
- Phase 2E, Eastbound I-70 Reconstruction – under construction, to be completed in 2021
- Phase 3B, Broad Street Bridge Replacement & I-71 Reconstruction – construction to start in Spring 2020

Funding availability has limited how quickly project phases have been implemented, including Phase 4. Limited funding forced ODOT to further divide Phase 4 into the following current subphases: 4R, 4B, and 4A, as well as delay construction for 4B and 4A. However, this is not the preferred approach. Phase 4 was initially developed as a single phase. All of its improvements work together as a system to optimize the national, regional, and local benefits. **This optimization is only possible once all the Phase 4 improvements have been constructed.** A successful INFRA application would allow the partners to leverage the INFRA funds into the full funding necessary to execute Phase 4 in rapid succession, as it was originally envisioned. MORPC and the City of Columbus have provided commitment letters that verify their share of the funds necessary to complete Phase 4 would be available if the project receives INFRA funding, and they are included in **Appendix C**.

E. Additional context and benefit to outlying rural areas

Although the Columbus Crossroads Project is situated in an urbanized area, it has a significant impact that reaches out from the urban core and into the surrounding rural areas. As illustrated in **Figure 5**, a significant number of personal trips through I-70/71 Overlap end in areas outside the urbanized area and urban clusters. See **Appendix D** for additional personal and commercial trip maps. Phase 4 will benefit (1) freight and industry located in the fringe urban and rural areas, (2) commuters living in rural areas, and (3) patients who live in rural areas but require advanced medical care. The first two rural impact areas will be discussed in greater detail in Sections V.D.5.a and V.D.6.a; the third shall be discussed here.

Phase 4's impact on central pieces of the region's interstate system will also have an unquestionable, positive impact on improving rural communities' access to essential medical services in and around Downtown Columbus. OhioHealth Grant Medical Center and Nationwide Children's Hospital (NCH) are major regional healthcare facilities in and around Downtown Columbus. At its primary campus alone, NCH estimates approximately 94,045 emergency department visits and 240,305 outpatient visits. In addition to local patient care, both facilities offer significant medical care to rural Central and Southeastern Ohio, including many counties in the Appalachian Region of Southern and Eastern Ohio. Grant Medical Center is one of twelve Level 1 Trauma Centers in Ohio, and one of the closest Level 1 Trauma Centers to Southeastern Ohio.¹³ NCH is one of only four Level 1 Pediatric Trauma Centers in Ohio,¹⁴ and

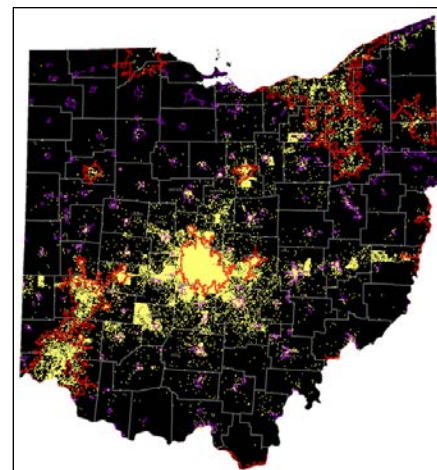


Figure 5 - Yellow dots indicate ends of personal trips passing through the I-70/71 overlap.

¹² Please see **Appendix B** for copies of the approved IMS and FONSI documents. The Columbus Crossroads Project's Environmental Assessment can be found here: <http://www.dot.state.oh.us/projects/7071/environmental/Documents/EN-02%20Environmental%20Assessment.pdf>.

¹³ The Ohio State University Medical Center is also a Level 1 Trauma Center in Columbus, Ohio. But the remaining nine Level 1 Trauma Centers are located in Akron, Cincinnati, Cleveland, Dayton, Toledo, and Youngstown. "Trauma Centers," Ohio Department of Public Safety, last modified January 6, 2020, https://www.ems.ohio.gov/links/ems_tc_alphaorder.pdf.

¹⁴ The other three are located in Cincinnati, Cleveland, and Dayton.

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it is one of only nine Ohio hospitals in the Children's Hospital Association.¹⁵ It is the closest children's hospital for much of southeastern Ohio, and NCH offers a range of important health services to the rural communities. Phase 4's solutions to congestion and safety issues will improve access to both medical facilities for patients from rural areas.

II. Project Location

Phase 4 is located in the City of Columbus, in the federally designated Columbus, Ohio Urbanized Area. The geographical coordinates are: 39°57'10"N, 83°00'33"W.

Phase 4 will extend along northbound I-71 from north of the Greenlawn Avenue interchange to the I-70/71 overlap, and then east along eastbound I-70/71 to east of the Fourth Street bridge. Both eastbound and westbound of the I-70/71 overlap will be reconstructed from east of Front Street to west of Grant Avenue. It also includes a new system of ramps connecting eastbound I-70, northbound I-71, and Downtown Streets. As shown previously in **Figure 3**, Eastbound exit ramps 100A and 100B will be consolidated and relocated and will empty onto Fulton Street at Front Street. The Front Street, High Street, Third Street, and Fourth Street bridges will be replaced along with the adjacent intersections along Fulton Street and Livingston Avenue. Front Street will be reconstructed from north of the Fulton Street intersection to Mound Street and Mound Street will be resurfaced from Front Street to High Street.

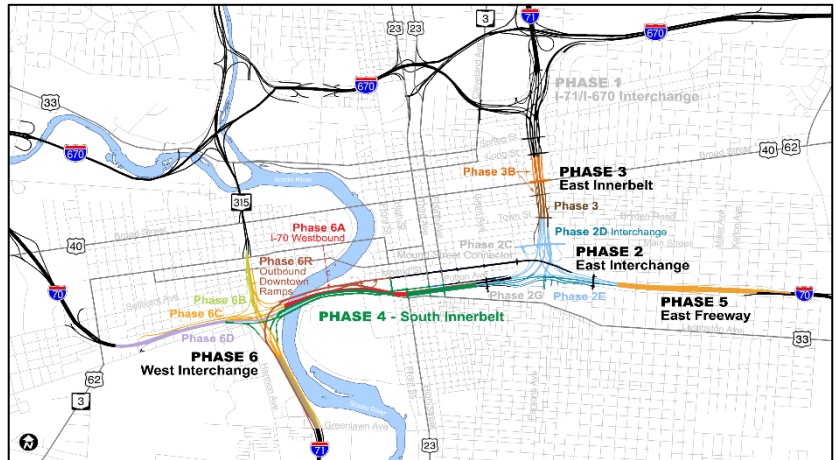


Figure 6 - Project location in relation to existing infrastructure.

III. Project Parties

The Columbus Crossroads Project is the result of more than a decade of partnership, planning, and public involvement involving ODOT, the City of Columbus, MORPC, and community stakeholders such as Nationwide Children's Hospital.¹⁶ The public involvement process has also included more than **500 community meetings**, and thousands of public comments. The I-70/71 South Innerbelt Project Design Enhancement Manual was created in 2010.¹⁷ This manual's purpose is to ensure the Columbus Crossroads Project's design enhancements reflect the input and needs of the surrounding neighborhoods and businesses, and also that that its design enhancements are consistently implemented throughout the entire project corridor. The Long Street Bridge and Cultural Wall, which was completed during an earlier Columbus Crossroads Project phase, is an example of what this partnership has already been able to achieve, and it is an example of what the partnership believes it will achieve during Phase 4.¹⁸

A. The Ohio Department of Transportation, lead applicant and proposed award recipient

ODOT is the administrative department of the state government responsible for developing and maintaining all state and federal roadways in Ohio with the exception of the Ohio Turnpike. It is the lead agency responsible for the Columbus Crossroads Project. ODOT has 12 district offices across the state in order to facilitate regional and local development. Each district is responsible for the planning, design, construction, and maintenance of state and federal highways in their region. Ohio's Columbus Crossroads Project is located in ODOT District 6. It is responsible for 4,921 US Route, State Route, and Interstate lane miles and 1,557 bridges throughout eight counties in Central Ohio.

ODOT's primary source of transportation funding in Ohio is gas tax revenue, which by statute can be used

¹⁵ The other eight are located in Akron, Cincinnati, Cleveland, Dayton, and Toledo. "Children's Hospital Directory," "Children's Hospital Association, <https://www.childrenshospitals.org/Directories/Hospital-Directory?state=OH>.

¹⁶ A complete list of Advisory Committee and Stakeholder Group members is available in **Appendix E**.

¹⁷ The Design Enhancement Manual is available online at <http://www.dot.state.oh.us/projects/7071/enhancements/Documents/7071DesignEnhancemetManual.pdf>.

¹⁸ The Federal Highway Administration has featured this bridge as an example of the type of community connection that it seeks to encourage as part of its Every Day Counts round four (EDC-4) community connections initiative. "Community Connections: Turning aging infrastructure into opportunities to revitalize cities," *Innovator*, Issue 62, last modified August 31, 2017, <https://www.fhwa.dot.gov/innovation/innovator/issue62/issue62.pdf>.

for highway construction, traffic enforcement and certain other activities. Each year there are more capital needs for passenger and freight improvements than there is funding available. The Ohio Revised Code in 1997 established the nine-member Transportation Review Advisory Council (TRAC) to assist in developing a project selection process for ODOT's largest investments and is chaired by ODOT's Director. This project is an ODOT priority, and TRAC has funded portions of the Columbus Crossroads Project. However, TRAC funds alone are insufficient to fund all of Phase 4. This is why ODOT is pursuing an INFRA award to complete the funding and construct all Phase 4 improvements in the near term.

B. The City of Columbus, co-applicant

The City of Columbus is the municipality in which the Columbus Crossroads Project is located. It is responsible for maintaining the Minor Collectors, Major Collectors, and Arterials within its corporate limits. The City has worked closely with ODOT on the Columbus Crossroads Project since the project's inception, and it has committed significant funds to the project, including **\$27 million** towards Phase 4. City staff from multiple departments have coordinated with the ODOT during the Columbus Crossroads Project, including the following: Development, Public Utilities, Public Safety, Recreation and Parks, Building and Zoning Services, and Public Service.

The City of Columbus is also closely coordinating its Livingston Avenue project with ODOT. This City project is a three-phase, \$28.3 million project to improve mobility and connectivity on Livingston Avenue that ties-in directly with the Phase 4 work on the Front Street Bridge, High Street Bridge, Third Street Bridge, and Fourth Street Bridge. Livingston Avenue runs parallel to the I-70/71 Overlap, and portions of the Livingston Avenue project are dependent upon a new retaining wall that will be constructed during Phase 4. Close coordination with ODOT will ensure a seamless streetscape, regardless of the agency responsible for a particular section.

C. The Mid-Ohio Regional Planning Commission

MORPC serves as the local Metropolitan Planning Organization and has been involved in prior planning for all phases of the Columbus Crossroads Project, including Phase 4. Across all phases, MORPC has committed \$20 million in funding to provide design enhancements including Complete Streets facilities to the city streets reconstructed as part of the Columbus Crossroads Project. MORPC also assisted with coordination of project partners and provided data and information for this INFRA application. This project was identified as a regional priority through the Competitive Advantage Projects (CAP) initiative. CAP is an initiative of Columbus 2020 and MORPC that prioritizes and advances strategic infrastructure investments across Central Ohio.¹⁹

IV. Grant Funds, Sources and Uses of all Project Funding

ODOT, the City of Columbus, and MORPC have already invested nearly \$385 million in the Columbus Crossroads Project, including planning, engineering, right of way acquisition and construction of the phases completed to date. This includes \$285 million in Federal Transportation and MPO-Federal Attributable funds, \$66 million in State Transportation funds, \$22 million in GARVEE monies, and more than \$12 million from Columbus. The sale of 4R in April 2020 will bring this total investment to nearly \$511.2 million, which includes the commitment of an additional \$64.7 million in Federal Transportation and MPO-Federal Attributable funds, \$14.2 million in State Transportation funds, \$25 million in state bonds, \$19 million in GARVEE monies, and \$3.3 million from Columbus.

The future eligible project cost for Phase 4 of the Columbus Crossroads Project is estimated to be approximately \$161.4 million. The following budget does not include the money already expended on design (\$17.8 million), right of way acquisition (\$5.2 million), or 4R's construction (\$126.2 million):

Category	Total Cost	INFRA	%	Other Fed.	%	Non-Fed.	%
Land, structures, rights-of-way, appraisals, etc.	\$2,500,000	\$0.00	0.00%	\$2,250,000	90.00%	\$250,000	10.00%
Project Inspection fees	\$10,400,000	\$0.00	0.00%	\$5,500,000	52.88%	\$4,900,000	47.12%
Construction & Contingencies	\$148,500,000	\$40,000,000	26.94%	\$45,100,000	30.37%	\$63,400,000	42.69%
Total:	\$161,400,000	\$40,000,000	24.78%	\$52,850,000	32.75%	\$68,550,000	42.47%

This INFRA application is seeking to obtain an award of **\$40 million** for construction costs for Phase 4. This award would be leveraged to ensure Phase 4 is fully funded. ODOT would commit an additional **\$90.4 million** in State and Federal Transportation funds for the design engineering, right of way acquisition, construction and

¹⁹ "Columbus Crossroads," MORPC, Competitive Advantage Projects, last accessed February 21, 2020, https://www.morpc.org/wordpress/wp-content/uploads/2019/02/FRA_Columbus_Crossroads.pdf

construction engineering for Phase 4’s future eligible costs; Columbus would commit **\$23.7 million** in local funding towards future eligible costs; and MORPC would commit **\$7.3 million** of federal Surface Transportation Block Grant (STBG) funding through MORPC towards future eligible costs. The City of Columbus and MORPC have provided commitment letters that are included in **Appendix C**.

V. Merit Criteria

A. Economic Vitality.

Phase 4 of the Columbus Crossroads sits at the epicenter of significant growth in the City of Columbus and Central Ohio. Between 2017 and 2018, the Columbus, OH Metropolitan Statistical Area’s gross domestic product grew by 4.24% to approximately \$129.3 billion,²⁰ and its population grew by 1.2% to approximately 2,082,475.²¹ The City of Columbus has experienced the eleventh largest numeric population increase (10,770) between July 1, 2017, and July 1, 2018 for cities with a population of 50,000 or more. The City’s total population is estimated to be 892,533, and it is the fourteenth largest city in the country.²² This growth is significant nationally, regionally, and locally; and Phase 4 will continue to support this growing economic vitality by: (1) addressing significant roadway safety concerns for all travel modes in the I-70/71 Overlap and city streets; (2) improving interactions between roadway users by significantly reducing the need for lane changes in the I-70/71 Overlap; (3) eliminating the I-70/71 Overlap’s long-standing freight bottleneck; (4) restoring the good condition of infrastructure that supports freight movement and economic growth; (5) supporting a vital sector of the Ohio economy, while also helping sustain and advance economic development in the City of Columbus; and (6) removing congestion related barriers to employment centers.

1. Phase 4 will address significant roadway safety concerns for all travel modes in the I-70/71 Overlap and city streets.

a. Phase 4’s freeway safety concerns and improvements.

The freeway improvements planned for Phase 4 of the Columbus Crossroads Project will have a dramatic impact on an area that consistently experiences a high number of crashes and has ranked within the annual top 10 high crash locations in Ohio for most of the last decade. Between 2016 and 2018 (most recent certified data), 872 crashes were reported having occurred along portions of I-70, I-71, and associated ramps identified for improvement in Phase 4 of the Columbus Crossroads Project. The majority of these reported crashes resulted in property damage only (PDO), however at least one person was injured in 26.9% of crashes. This includes five individuals being seriously injured and one individuals suffering fatal injuries. See **Appendix F**, for complete safety and congestion data.

A review of the data indicated an unanticipated, significant decrease (nearly 50%) in the total number of crashes along the Phase 4 freeway focus area from 2017 to 2018. This decrease is likely due to construction that was initiated along the I-71 NB segment just south of the I-70/71 interchange toward the end of 2017 that continued throughout 2018. Substantial construction activity, ramp and lane closures, and heavy back-ups at peak hour resulted in traffic detours to parallel routes. However, the risk factors that have contributed to unsafe driving conditions in the Phase 4 freeway focus area remain unchanged, and will remain unchanged until Phase 4 is complete.

As shown in **Table A**, rear-end and sideswipe crashes (crash types typically associated with excess congestion) were the two most prevalent crash types along the Phase 4 freeway focus area. Together they accounted for almost 90% of all crashes. Phase 4 will provide additional traffic lanes on the I-70/I-71 Overlap, reducing congestion and

Table A: Freeway crash type by severity.

Crash Type	Total Crashes	% Total	Injury Rate
Rear End	538	61.7%	30.9%
Sideswipe - Passing	235	26.9%	18.3%
Fixed Object	69	7.9%	26.1%
Other Non-Collision	9	1.0%	22.2%
Other Object	6	0.7%	16.7%
Head On	3	0.3%	33.3%
Left Turn	3	0.3%	33.3%
Right Turn	3	0.3%	66.7%
Parked Vehicle	2	0.2%	50.0%
Overturning	2	0.2%	100.0%
Backing	1	0.1%	100.0%
Animal	1	0.1%	0.0%
Grand Total	872	100.0%	27.3%

²⁰ “CAGDP1 Gross Domestic Product (GDP) summary by county and metropolitan area,” Bureau of Economic Analysis, U.S. Department of Commerce, last accessed February 24, 2020, <https://apps.bea.gov/itable/iTable.cfm?ReqID=70&step=1>.

²¹ “Estimates of Resident Population Change and Rankings: July 1, 2017 to July 1, 2018 - United States -- Metropolitan Statistical Area; and for Puerto Rico,” American FactFinder, U.S. Census Bureau, last accessed February 24, 2020, <https://factfinder.census.gov/bkmk/table/1.0/en/PEP/2018/PEPANNCHG.US24PR>.

²² “Census Bureau Reveals Fastest-Growing Large Cities,” U.S. Census Bureau, May 23, 2019, <https://www.census.gov/newsroom/press-releases/2019/subcounty-population-estimates.html>.

traffic backups that likely contribute to the high number of rear-end crashes (59.3% of crashes were attributed to either following too closely or failing to leave assured clear distance ahead). Also, by consolidating the eastbound ramps to downtown streets, the project will allow vehicles to exit the freeway with fewer lane changes – a likely action contributing to the high number of sideswipe crashes (18.3% of crashes were attributed to improper lane changes).

The I-70/I-71 corridor provides both north-south and east-west linkages critical to the national logistic network connecting the Midwest and East Coast markets. In addition, Central Ohio is a key freight distribution center, dependent on efficient truck movement into and through the region. Between 2016 and 2018, over 18% of crashes along the corridor involved at least one commercial vehicle. A commercial vehicle was involved in the fatal crash that occurred during this time period, and at least one commercial vehicle was involved in 20% of the injury crashes. These crashes involving commercial vehicles, as well as overall crashes along the corridor, delay freight delivery and undermine the reliability of the national freight system.

b. Phase 4’s city street safety concerns and improvements.

Phase 4 of the Columbus Crossroads Project will also work to improve safety conditions along several surface streets adjacent to and across the affected freeway segments. Between 2016 and 2018, 274 crashes were reported at intersections and along segments of surface streets identified for improvements in Phase 4. Approximately 20.1% of these crashes resulted in injury, including two serious injuries and one fatality. See **Appendix F**, for complete safety data.

The project will not just address vehicle-specific safety concerns; it will ultimately increase the ability of all roadway users to navigate to and from Downtown Columbus and neighborhoods to the south. As shown in **Table B**, 19 crashes in the focus area involved non-motorized users. While only accounting for 6.9% of non-freeway crashes, non-motorized crashes made up 31.5% of injury crashes overall, 50% of serious injury crashes, and 100% of fatal crashes.

Risks associated with these non-motorized crashes will be reduced through improvements to bicycle and pedestrian facilities all associated surface streets. Wider bridges will allow ODOT and the City of Columbus to implement Complete Streets principles to make bridge crossings safer and more comfortable for bicyclists and pedestrians, particularly older adults and individuals with disabilities. ODOT is incorporating bike lanes along city streets that are parallel to the Crossroads and connect into other components of the I-70/I-71 project phases that have already been built.

Construction of wider sidewalks on both sides of the four bridges associated with the project and the addition of sidewalk bulb-outs and brick crosswalks at intersections will shorten crosswalks and make pedestrians more visible to motorists.²³ Turning movements that currently flow uncontrolled through intersections or in conflict with pedestrian movements along Fulton Street and Livingston Avenue will be redesigned as part of this project to allow for safer pedestrian crossings.

2. Phase 4 will improve interactions between roadway users by significantly reducing the need for lane changes in the I-70/71 Overlap.

Phase 4 will significantly improve interactions between roadway users by eliminating 95% of eastbound lane changes through the I-70/71 Overlap. I-71 Northbound is currently reduced to a single lane as it enters the I-70/71 Overlap. This lane quickly terminates in the Front Street exit ramp into Downtown Columbus. Vehicles that want to continue northbound on I-71 must make two lane changes through eastbound I-70 traffic in order to resume travelling on I-71 at the I-70/71 Overlap’s eastern end. As **Figure 7 illustrates**, this weaving creates dangerous interactions between

Table B: City street crash type by severity.

Crash Type	Total Crashes	% Total	Injury Rate
Sideswipe - Passing	73	26.6%	6.8%
Rear End	56	20.4%	19.6%
Angle	45	16.4%	26.7%
Left Turn	25	9.1%	8.0%
Right Turn	19	6.9%	15.8%
Pedestrian	16	5.8%	100.0%
Backing	11	4.0%	9.1%
Parked Vehicle	11	4.0%	9.1%
Fixed Object	9	3.3%	0.0%
Pedalcycles	3	1.1%	66.7%
Head On	2	0.7%	50.0%
Other Non-Collision	2	0.7%	50.0%
Other Object	1	0.4%	0.0%
Sideswipe - Meeting	1	0.4%	0.0%
Grand Total	274	100.0%	20.1%

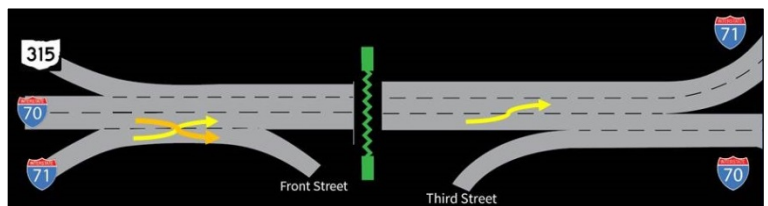


Figure 7 - Lane configuration before start of Phase 2E.

²³ See **Appendix G**, pages 12-15, for planned pedestrian improvements on Front Street, High Street, Third Street, and Fourth Street.

roadways users, which contribute significant to the I-70/71 Overlap’s safety and congestion problems.

Phase 4’s improvements to roadway user interactions in the I-70/71 Overlap’s center and western portion will work with Phase 2E’s improvements in the eastern portion to reduce the need for more than 95% of lane changes. Phase 2E began construction in 2019. As **Figure 8** demonstrates, I-70 will receive an additional through lane and I-71 will only have to make one lane change once Phase 2E is complete.

However, even this single lane change can create significant hazards for vehicles. As **Figure 9** demonstrates, Phase 4 will ensure I-70 and I-71 each have two through lanes once all the Phase 4 project work is complete. **Figure 10** illustrates current congestion created in this weave area, and the impact it has on the entire corridor. Completing all of Phase 4 will significantly improve congestion and safety in the I-70/71 Overlap. Phase 4 will help eliminate one of the top freight bottlenecks in the country; and will also improve commuter access to employment centers in both Columbus and Central Ohio.

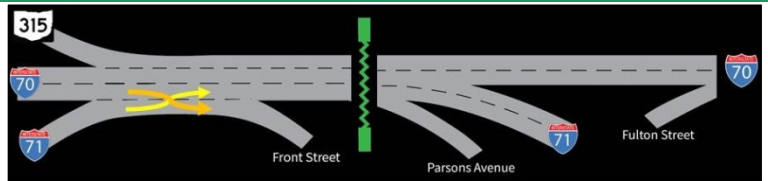


Figure 8 - Lane configuration before start of Phase 4R.

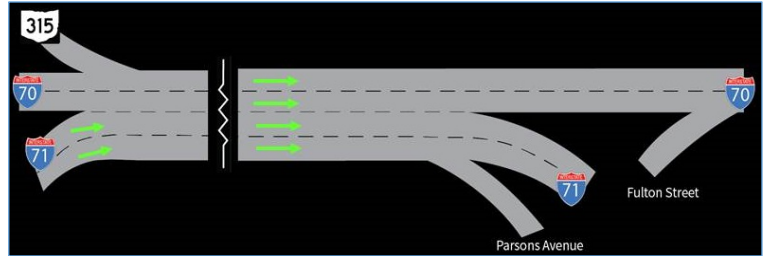


Figure 9 - Lane configuration after Phase 4.

Speed for I-70 bearing east between Exit 97/W Broad St and I-71 using INRIX data

Averaged by 15 minutes for 2018 (Every Tuesday, Wednesday, and Thursday) and 2019 (Every Tuesday, Wednesday, and Thursday)

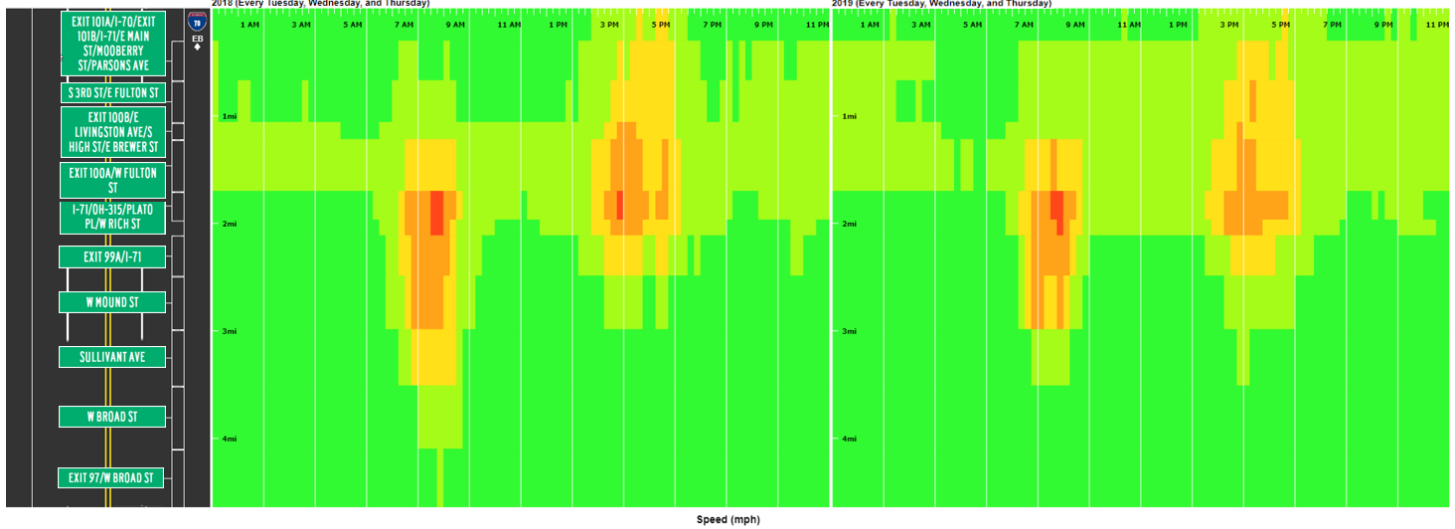


Figure 10 - Speed bearing east on I-70 between Exit 97/W Broad St and I-71 using INRIX data, average by 15 minutes. Full graphic, plus map of analysis area provided with the other safety and congestion data in Appendix F.

3. Phase 4 will finally eliminate the I-70/71 Overlap’s long-standing freight bottleneck.

Phase 4’s improvements will eliminate the I-70/71 Overlap’s freight bottleneck. Reducing freight congestion on its vital corridors is an economic priority for the Ohio Department of Transportation. ODOT has invested millions of dollars in improvements throughout the state’s I-70 corridor, and it is now preparing to construct Phase 4’s improvements. The I-70/71 Overlap is measured as the **2nd worst freeway segment for travel time performance in Ohio**. This bottleneck is a long-standing issue, and one of the original focal points of the Columbus Crossroads project. In 2009, the American Transportation Research Institute (ATRI) ranked the I-70/71 Overlap as the 46th worst truck bottleneck in the nation.²⁴ In 2020, ATRI ranked the I-70/71 Overlap as the 97th worst truck bottleneck in the nation, with the average speed (44.2 mph), peak average speed (37.3 mph), and nonpeak average speed (46.8

²⁴ “2009 Bottleneck Analysis of 100 Freight Significant Highway Locations,” American Transportation Research Institute, last accessed February 13, 2020, <https://truckingresearch.org/2010/05/08/944/#.XG7awKJKjRY>.

mph) all worsening from last year.²⁵ Earlier Columbus Crossroads phases have resulted in some modest congestion improvements. But the ultimate elimination of the bottleneck in the I-70/71 Overlap is only possible with Phase 4's planned improvements, which will eliminate this bottleneck and significantly reduce travel time delays

4. Phase 4 will restore the good condition of infrastructure that supports freight movement and economic growth.

Phase 4 will replace existing infrastructure that is in need of reconstruction – including four functionally obsolete bridges – and it will restore the good condition of roadways and bridges that support freight movement and economic growth. The I-70/71 Overlap was constructed in 1963. Since that time, the pavement has received asphalt overlays every 10-12 years. The pavement within the project area has exceeded its service life and is in need of replacement and reconstruction. Construction will reset the maintenance cycle, saving \$6.1 million within the next five to eight years. These costs are included in the Benefit-Cost Analysis' "no-build" construction costs.

Phase 4 will replace eight existing bridges: four bridges that carry the I-70/71 Overlap and four overhead bridges that carry city streets. It will also remove the long-closed Whittier Street Bridge over the I-70/71 Overlap. The current condition of the at-grade bridge structures carrying eastbound I-70/71 is in "good" condition and the overhead bridges range from "fair" to "poor". The four city street structures date back to the original construction in 1963 and are now functionally obsolete; while the bridge over Short Street predates the Interstate construction and had to be repaired recently. As a result, all four overhead bridges need



Figure 11 - Fourth Street Bridge current conditions.

substantial maintenance including deck replacement and structural steel painting within the next 5 to 7 years. ODOT was forced to make interim repairs to the four overhead bridges including placing debris containment on the superstructure to protect vehicles traveling below on the interstate until the bridges can be replaced. Incorporating these replacements as part of Phase 4 will save millions of dollars in system preservation costs.

5. Phase 4 will support a vital sector of the Ohio economy, and help sustain and advance economic development in the City of Columbus.

The I-70/71 Overlap is a vital transportation link that supports freight movements across the state and Midwest, while supporting and advancing economic development in Central Ohio and the City of Columbus. Phase 4 will (a) improve movement of freight, and (b) support additional economic development opportunities in and around Central Ohio.

a. Phase 4 will support a vital sector of the Ohio economy and improve an important freight connection in the Primary Highway Freight System.

Truck transportation is a \$7 billion industry in the State of Ohio. At 4.8% of the national gross domestic product for truck transportation, Ohio is the fourth largest state for truck transportation.²⁶ It is the sixth largest freight destination in the United States, with 314 million tons of goods, valued at \$193 billion, shipped to Ohio from international and out-of-state markets.²⁷ Ohio has the fifth highest number of miles on the Primary Highway Freight System (PHFS),²⁸ and **both I-70 and I-71 are important Central Ohio freight corridors on the PHFS**. I-70 is an essential east-west freight corridor across Ohio. I-71 is an essential north-south freight connection between Cincinnati, Columbus, and Cleveland. **Figure 12** on the following page shows total truck flows in Ohio, 2012 vs. 2040.

²⁵ "Columbus, OH: I-71 at I-70," 2020 Top 100 Truck Bottlenecks, American Transportation Research Institute, last accessed February 24, 2020, <https://secureservercdn.net/198.71.233.109/18r.63b.myftpupload.com/wp-content/uploads/2020/02/bn097-2020.pdf>.

²⁶ "Gross Domestic Product from Ohio, January 2020," Ohio Development Services Agency, last accessed February 13, 2020, <https://development.ohio.gov/files/research/E1001.pdf>.

²⁷ "Transport Ohio Statewide Freight Plan (updated 2019)"

http://www.dot.state.oh.us/Divisions/Planning/SPR/StatewidePlanning/Documents/ODOT_FreightPlan_Updated%203.7.19.pdf, p. 8

²⁸ "Transport Ohio Statewide Freight Plan," pg. 6.

An analysis of commercial vehicle data available through Streetlight Data shows the geographic scope of vehicles passing through the I-70/71 Overlap. This analysis looked at the start and end points of the specific trip through the I-70/71 Overlap and not necessarily the freight’s ultimate origin point or destination. As illustrated in **Figure 2** on page 1, the analysis showed commercial trips that started and ended at points across the Midwest, with at least one trip point as far west as Kansas and another one as far east as New Hampshire. As illustrated in **Figure 13**, further analysis of trip length indicates: 16.0% of the total trip volume was 100 miles or more in length; 12.4% of the total trip volume was 50-100 miles in length; 17.8% of the total trip volume was 20-50 miles in length; 18.1% of the total trip volume was 10-20 miles in length; 21.6% of the total trip volume was 5-10 miles in length; and 14.0% of the total trip volume was 0-5 miles in length. This data indicates that improving the intersection of Interstates 70 and 71 will not only benefit freight connecting to points beyond Central Ohio on I-70 or I-71, but also freight connecting to points within Central Ohio and the City of Columbus.

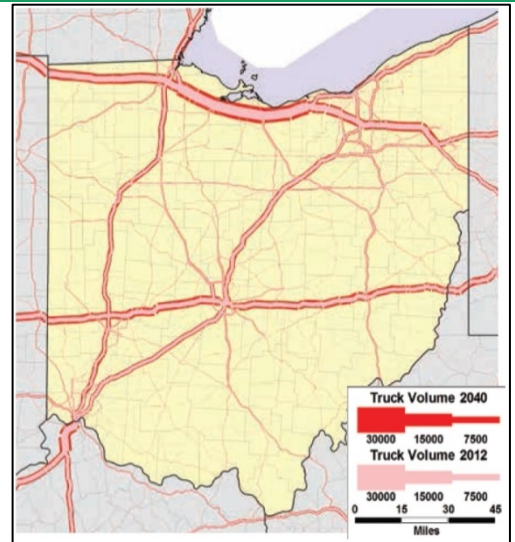


Figure 8 - Total truck flows in Ohio, 2012 vs. 2040.

Improving I-70 and I-71’s connection and overlap in Downtown Columbus will also improve connections to important freight destinations and intermodal facilities in both the City of Columbus and the Central Ohio Region. The City of Columbus and Central Ohio are emerging logistics centers in the Midwest. These facilities are located in urban, rural, and mixed areas. The Streetlight Analysis revealed noticeably higher volume of commercial vehicle traffic within census block groups with important distribution centers. As **Table C** highlights, four census blocks stood out in particular and accounted for 6.6% of the total volume of all commercial vehicle trips that used the I-70/71 Overlap.

Central Ohio is also served by two internationally significant airports – John Glenn International Airport (CMH) and Rickenbacker International Airport (LCK); and Ohio’s two largest intermodal facilities – Rickenbacker and Buckeye Yard. During the last statewide freight study in 2012, these two facilities completed 330,000 lifts in 2012, which was more than **37% of all lifts in the entire state**. Lifts have continued to increase at both facilities. According to tracking by MORPC, intermodal lifts exceeded 400,000 in 2015 and have increased each year after capacity expansion at both facilities. The Streetlight Analysis also revealed noticeably higher volumes of commercial vehicle traffic within (1) census block groups containing these airports and intermodal facility, and (2) census block groups immediately adjacent to those intermodal facilities. The Streetlight Data analysis indicates 4.3% of all commercial trips passing through the I-70/71 Overlap either originated or ended at the census block groups containing these intermodal facilities as well as the neighboring census block groups: 3.2% of commercial trips had an origin or destination near the Buckeye Yard intermodal facility; 0.5% of all commercial trips to Rickenbacker intermodal facility and surrounding census block groups, which include Rickenbacker International Airport (LCK); and 0.6% for John Glenn International Airport (CMH). On an average day in 2019, CMH enplaned 7,453 pounds of cargo and deplaned 10,180 pounds; while LCK

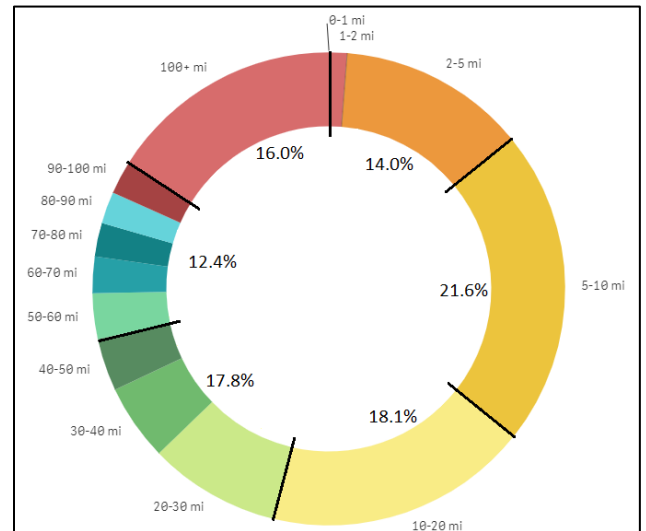


Figure 93 - Trip lengths of commercial vehicles travelling through the I-70/71 Overlap.

Table C - Major Origin/Destination Distribution Centers

BlockGroup	Urban/Rural	Location	Tot. Vol.	Facilities include:
390490082102	Urban	Columbus	3.2%	Big Lots, Walmart
390490083403	Urban	Columbus	2.1%	XPO Logistics
390970404001	Mix	West Jefferson	0.8%	Amazon, Target, FedEx
390897574001	Mix	Etna	0.5%	Amazon

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enplaned 260,578 pounds of cargo and deplaned 440,687.²⁹ Rickenbacker International Airport is a major gateway for domestic and international freight shipments, with regular service to destinations such as Hong Kong, Luxembourg, Dubai, and Moscow. International cargo increased 65% in 2017 and is projected to increase by 900% in the latest airport masterplan. Improving the flow of freight through the I-70/71 Overlap will benefit freight facilities and distribution centers in both urban and rural areas.

b. Phase 4 will sustain and advance regional economic development in and around Downtown Columbus.

Phase 4 will sustain and advance regional economic development in and around Downtown Columbus, which is Central Ohio's largest job center. MORPC predicts jobs in Downtown Columbus to increase by 13% and the residential population to grow by 120% between 2015 and 2040. This growth has resulted in a significant investment of private and public funds in Downtown Columbus. In 2018 alone, 17 projects (\$299 million) were completed; 23 projects (\$454 million) were under construction; and 37 projects (\$2.1 billion) were proposed.³⁰ Phase 4 will support economic development in Downtown Columbus and the neighborhoods immediately south of Downtown Columbus – including the Brewery District, historic German Village, Schumacher Place, and Livingston Park by (1) reconnecting Downtown Columbus to the neighborhoods to its south, and (2) improving areas for economic development opportunities.

Phase 4 will support continued economic development by reconnecting Downtown Columbus to the neighborhoods south of the I-70/71 Overlap's trench. The current bridges across the South Innerbelt Trench are not inviting to pedestrians – especially older adults and individuals with disabilities – and help to further isolate Downtown Columbus. Sidewalks are narrow, pushed up next to driving lanes, and in poor condition. Visual separation between the pedestrians and the interstate below is non-existent. Crosswalks are limited because of vehicles entering and exiting I-70/71. Phase 4 significantly improves these conditions. Broad sidewalks (at least ten feet wide) would be constructed on both sides of all four bridges. A line of planters or other visual barriers will be installed on both sides of all four bridges. Additional crosswalks will be installed at the intersections as Phase 4 permanently reroutes traffic entering and exiting the interstate. These improvements will encourage additional pedestrian and bicyclist traffic between Downtown Columbus and the neighborhoods immediately around it. These improvements will help bridge the physical barriers that isolate Downtown Columbus and encourage additional economic development in the neighborhoods south of the I-70/71 Overlap. **Appendix G** provides additional pictures and information regarding current conditions and Phase 4's improvements. With Phase 4's bridge and city street improvements, the communities immediately south of Downtown Columbus are reconnected to downtown and a vibrant catalyst for growth and economic development within their own neighborhoods. Without these improvements, the communities south of Downtown Columbus will remain cutoff from downtown and they will continue to remain in limbo on how redevelopment should proceed.

Phase 4 will improve economic development opportunities for areas inside and immediately surrounding the Phase 4 project area. The Phase 4 improvements combined with the City of Columbus's Livingston Avenue improvements will significantly improve access for sites on both Livingston Avenue and Front Street, while supporting multiple economic development opportunities. **Appendix H** includes maps of multiple economic opportunities, including the following:

- **Nationwide Children's Hospital (NCH) Campus Expansion** - One of the top-ranked children's hospitals in the nation, NCH is in the midst of a **\$1.25 billion reconstruction and expansion of its campus**, including



Figure 10 - High Street Bridge on eastern sidewalk of bridge (existing).



Figure 15 - High Street Bridge on eastern sidewalk of bridge

²⁹ Please see Columbus Air Cargo information provided by the Columbus Regional Airport Authority, which is provided in **Appendix H**.

³⁰ "State of Downtown Columbus, Year End 2018," Capital Crossroads & Discovery Special Improvement Districts, last accessed February 13, 2020, <https://downtowncolumbus.com/wp-content/uploads/2019/02/SID-2018-EOY-report-final-web-1.pdf>.

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the area directly south of the trench. Multiple phases of the Columbus Crossroads Project are providing essential support for NCH's expansion. Phase 4 will improve freeway access and ease congestion for staff and patients at NCH's main campus. It will also tie-in with the freeway improvements planned for Phase 2E of Columbus Crossroads Project. Phase 2E will construct a new ramp directly serving the complex, and it will realign Mooberry Street. **Appendix H** includes the Master Facilities II map. NCH has also acquired the **former Columbus Africentric High School site**, which is a 3.7 acre site just to the east of Phase 4.

- **Commercial Cap over I-70/71** – The City of Columbus' High Street Cap over I-670 was one of the very first commercial caps constructed in the country. This cap, which seamlessly reconnected Downtown Columbus to the Short North neighborhood, has become a case study for other cities looking for creative ways to restore and reconnect neighborhoods.³¹ The High Street Cap over I-670 also provides the City of Columbus with its own case study on



Figure 116 - High Street Cap over I-670.

how to develop additional commercial caps across the South Innerbelt Trench, including how to navigate some of the related legal challenges such as obtaining title to the land beneath the commercial cap and leasing the air space to be developed as a commercial cap. While Phase 4 improvements currently include dual sixty foot wide green caps for both the High Street Bridge and Third Street Bridge, both of these bridges will also have the ability to support commercial caps on both sides. At least initially, the City of Columbus is targeting the Third Street Bridge for the development of a commercial cap in conjunction with the development of new land fronting Livingston Avenue.

- **Livingston Avenue, between Third Street and Fourth Street** – The construction of a retaining wall on the southern edge of I-70/71 during Phase 4 will create 1.5 acres of newly developable land on Livingston Avenue, shown in **Figure 17**. This property is made accessible by Phase 4's urban avenue improvements to the Third Street Bridge, the Fourth Street Bridge; and the City of Columbus' related Livingston Avenue projects. The site is on the border between German Village and Downtown Columbus, and it is also near Nationwide Children's Hospital and a potential commercial cap on the Third Street Bridge. This location places it in a highly desirable area for development. The adjacent site to the east sold for nearly \$15 million, roughly \$4 million an acre.

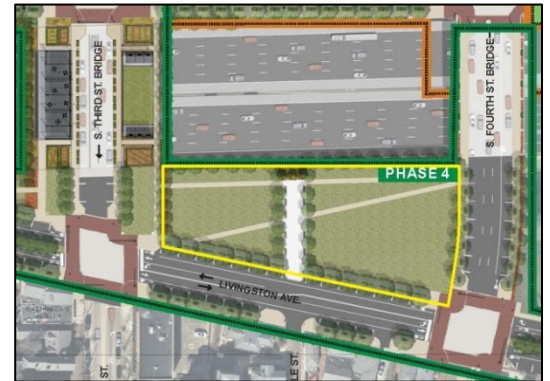


Figure 17 - New acreage available for development.

- **Former Wasserstrom Site** – A former brewery on 1.24 acres, this property has been underutilized since Wasserstrom Co. relocated its corporate headquarters in October 2017. The property recently sold for \$6.4 million and is targeted for a major redevelopment. The quality and success of this development will be heavily impacted by Phase 4, which directly abuts the north side of the property at the Front Street Bridge. Dwight McCabe, a developer for the property has told the Brewery District Commission that the planned Phase 4 improvements would “make the property’s location a ‘front door’ to Downtown that could boost his plans for ground-floor retail along with a hotel and offices.”³² He has continued to push forward with his redevelopment efforts, and the project received \$5 million in state historic preservation tax credits in June 2019.³³

³¹ “The Cap at Union Station,” ULI Development Case Studies, last modified February 26, 2007, <https://casestudies.uli.org/the-cap-at-union-station-5/>.

³² Marla Matzer Rose, “Brewery District attracting more interest from developers,” *The Columbus Dispatch*, December 23, 2017, <http://www.dispatch.com/news/20171223/brewery-district-attracting-more-interest-from-developers>.

³³ Jim Weiker, “Plan to turn Hoster Brewing complex into hotel, offices, restaurants gets preservation tax break from Ohio,” *The Columbus Dispatch*, last updated June 27, 2019, <https://www.dispatch.com/business/20190626/plan-to-turn-hoster-brewing-complex-into-hotel-offices-restaurants-gets-preservation-tax-break-from-ohio>.

Phase 4 will also support continued economic development by reconnecting Downtown Columbus to the neighborhoods south of the I-70/71 Overlap’s trench and encouraging additional economic development in the neighborhoods south of the I-70/71 Overlap.

6. Phase 4 will remove congestion related barriers to employment centers.

Phase 4 will reduce barriers separating workers from employment centers by removing employment barriers caused by congestion and make it easier for workers to reach employers in and around Downtown Columbus. Congestion creates a significant barrier separating workers from employment centers in Central Ohio. According to INRIX Research, Columbus is the most congested city in Ohio, the 25th most congested city in the United States, and the 135th most congested city in the world.³⁴ INRIX estimates Columbus drivers lost an average of 71 hours per year in congestion. INRIX estimates the cost of congestion to be \$990 per driver and \$734.9 million for the city. The I-70/71 Overlap is one of the most significant points of congestion in both the city and state. The I-70/71 Overlap was measured as the 2nd worst freeway segment for travel time performance in Ohio for 2018. This creates a significant barrier for workers who rely upon the I-70/71 Overlap to access either employment centers in the Innerbelt Area or employment centers across the city. Phase 4 will virtually remove this congestion barrier. According to the Benefit Cost Analysis, Phase 4’s improvements will reduce travel time delays in the I-70/71 Overlap by 97%. The Build condition is predicted to save over 8,000 person-hours of delay daily in the Opening Year and up to 10,400 daily person-hours of delays by the Design Year. This results in over \$38 million in lost time and productivity annually.

Phase 4 will make it physically safer and easier for workers to reach Innerbelt Area employment centers. Replacing the current Front Street exit ramp into Downtown Columbus will provide workers with a safer entrance to regional employment centers in the Innerbelt Area. For example, Phase 4 improvements will also help improve worker and patient access to Nationwide Children’s Hospital. The freeway improvements during Phase 4 will tie-in to Phase 2E’s new eastbound exit ramp at Mooberry Street. Phase 4’s urban avenue improvements will tie in with the City of Columbus’ Livingston Avenue projects, which will improve City street access to the NCH’s primary campus. This is significant because NCH currently employs approximately 11,909, with an additional 1,500 jobs anticipated as NCH continues to expand its main campus.

c. Removing these barriers will improve the connection between the Columbus, OH MSA’s periphery and employment centers in the core.

Removing these barriers will improve the connection between the Columbus, OH MSA peripheral regions and employment centers in Downtown Columbus and the MSA’s core. This is important because a significant percentage of the Columbus, OH MSA lives in rural areas towards the MSA’s periphery. During the most recent census, 313,122 people lived in rural communities, or 16.46% of the MSA’s total population. However, the percentage of people living in rural areas increases dramatically upon leaving the MSA’s core in Franklin County. In the nine other counties in the Columbus, OH MSA, **40.26% of the population, or 297,369 people, live in rural areas.** The workforce in the City of Columbus and Franklin County is dependent upon commuters from outside the MSA’s urban core. Of the 739,541 jobs in Franklin County in 2015, 279,058 are filled by workers from other counties, including 144,309 filled by workers who commute from the other nine counties in the MSA.³⁵ The number of in-commuting workers to Franklin County is documented in **Appendix J**, along with information regarding the rural percentage of each county.

This movement of workers from peripheral regions through the I-70/71 Overlap is evidenced in personal vehicle movements within the Columbus, OH MSA. As illustrated in **Figure 18**, A StreetLight Data analysis of

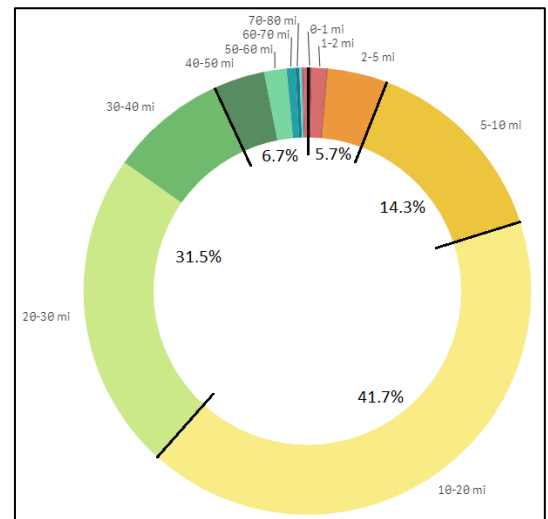


Figure 18 - Trip length for personal vehicles using the I-70/71 Overlap during peak hours.

³⁴ INRIX Research, Trevor Reed, Joshua Kidd, “INRIX Global Traffic Scorecard,” last accessed February 20, 2020, full report available for download at: <http://inrix.com/scorecard/>.

³⁵ “Franklin County 2015 Inflow and Outflow Report,” Ohio Labor Market Information, Ohio Department of Job and Family Services, last modified September 27, 2017, http://ohiolmi.com/census/Franklin_InflowOutflow.pdf.

personal vehicles travelling through the I-70/71 Overlap during peak AM and PM hours indicates a significant percentage of personal vehicle trips appear to use the I-70/71 Overlap to travel between the MSA's core and points towards the periphery: 5.7% of the total trip volume was 0-5 miles in length; 14.3% of the total trip volume was 5-10 miles in length; 41.7% of the total trip volume was 10-20 miles in length; 31.5% of the total trip volume was 20-40 miles in length; and 6.7% of the total trip volume was more than 40 miles in length. Removing congestion barriers will provide a significant benefit to those commuting between the MSA's periphery and core.

7. Benefit Cost Analysis Summary

d. Introduction

A Benefit-Cost Analysis (BCA) has been performed to determine the value of quantifiable benefits that would be generated by Phase 4 of the Columbus Crossroads Project. It is contained in **Appendix I-ColumbusCrossroadsBCA**. The benefits looked at as part of this BCA include travel time benefits from reduction in delay and a portion of the safety benefits. Other benefits will be generated from completion of Phase 4, however those are not quantifiable at this time. Other benefits, including safety benefits, emissions reduction benefits, and quality-of-life are just a few benefits that may result from this project, but are not quantified in this document. Therefore, the documented benefits are conservative and are likely higher than quantified in this report.

Construction costs will be \$346,000,000.00 in real (2019) dollars over the life of the construction project (2026). The project will cost \$260,840,059.73 using a 7% discount over the life of the project (2045). The benefits are estimated to be \$270,573,002.74 at 7% discount over the life of the project. A summary of the annual costs and benefits can be found below.

e. Benefits

(1) Travel Time Delay Reduction Benefits

Delay reduction benefits for the Columbus Crossroads Project were estimated using traffic volumes and the statewide travel demand model. Travel time delay reduction was determined to be 634,604,550.66 vehicle hours for cars, 89,277,748.63 vehicle hours for trucks. This creates a vehicle operating cost reduction benefits of \$24,814,243.20. The project eliminates the existing I-70 eastbound loop ramp to SR 315 northbound. This will reduce traffic volumes feeding the adjacent section of SR 315, which was ODOT's #1 ranked location on their 2016 Congestion Priority list for freeways.

(2) Safety Benefits

Safety benefits for were calculated via the ODOT Economic Crash Analysis Tool (ECAT), which uses methodology from the AASHTO Highway Safety Manual (HSM) for calculating the expected crash reduction associated with roadway improvements. Crash reductions associated with the increase of I-70/71 eastbound through lanes from 3 to 4 lanes was calculated in ECAT. Using FHWA values for crash severity types, the ECAT program calculates over \$2 million in annual safety benefits. Other safety elements of this project, such as greatly reducing weaving traffic and stopped traffic, are not countermeasures for which HSM/ECAT can quantify crash reductions. As they cannot be quantified at this time, the safety benefits will be much larger.

(3) Maintenance Costs Savings Benefits

The improvements will create nearly \$8 million savings in maintenance costs over its 20-year design life. The existing bridges in the corridor are reaching the end of their lifespan. If they are not replaced, it is assumed that bridge redecking will be required to keep the bridges functional over the next 20 years. This project will replace eight aging bridges – four that carry I-70/I-71, and four that carry downtown streets over I-70/I-71. Using a unit cost of \$75 per square foot for bridge redecking, the project will result in a savings of over \$20 million in bridge maintenance work that will no longer be required in the next 20 years

(4) Non-Quantifiable Benefits

In addition to the quantifiable benefits, Phase 4 will also have numerous non-quantifiable benefits:

- Improved Regional Connectivity – Regionally, the Build condition will add a second lane of I-71 northbound through the project area. The current interchange configuration only provides a single-lane ramp connection for I-71 northbound through traffic – the only single-lane portion of I-71 northbound between Louisville, Kentucky and Cleveland. The existing I-71 northbound also contains a 40 mile-per-hour curve. The proposed Phase 4 improvements will provide a new two-lane I-71 northbound connection designed for freeway speeds. This meets driver expectations that through freeway movements will have multiple lanes, and provide enhanced regional

connectivity along the I-71 corridor.

- Improved Neighborhood Connectivity – On a neighborhood level, the improvements will provide improved connectivity across the I-70/I-71 freeway, create new commercial space on the Third Street Bridge, and reclaim 1.5 acres of newly developable land on Livingston Avenue. The project will allow for the conversion of Front Street to two-way operations between Livingston Avenue and Mound Street, the final segment in the City of Columbus’s long-term plan to convert Front Street from one-way to two-way. The improvements will also provide better pedestrian connectivity over the freeway. A new sidewalk connection will be constructed on the west side of Front Street. Existing sidewalks on High Street and Front Street will be upgraded, providing a better connection between Downtown and the adjacent Brewery District and German Village neighborhoods to the south
- Safety – In addition to the quantified safety improvements documented above, the improvements will have many other positive impacts on safety. The project will eliminate a major weaving section of traffic on I-70/I-71 between SR 315 and Front Street. Several segments of the project freeway have ranked among the highest on ODOT’s Safety Priority list for excess crashes along urban freeway locations over the last decade. As recently as the 2015 Safety Priority list, 3 of the top 10 urban freeway segments were within the project limits. Eliminating the congestion and weaving movements in the I-70/I-71 eastbound freeway will help to reduce crashes. Also, the existing I-70/I-71 eastbound ramp to Front Street is observed to back up onto the freeway during peak hours. The improvements will replace this relatively short ramp with a new, much longer connection that will keep stopped traffic from spilling out onto the mainline freeway system.

f. Costs

The project costs consist of two components: (1) cost of initial construction, and (2) maintenance costs. The methodology of estimating these project costs are explained in the sections below:

(1) Initial Construction Costs

Preliminary construction costs have been developed for this project. Costs for roadway and pavement quantities were determined using Ohio Department of Transportation’s Estimator software with unit prices generated by ODOT’s interactive Bid History Catalog. Costs for erosion control, traffic control, maintenance of traffic, and utility work were established using ODOT’s Procedure for Construction Budget Estimating spreadsheet and/or input from specific manufacturers. The preliminary cost estimates do not include costs for utility relocation. A 15% contingency was applied to the construction costs. The costs were converted to from current year dollars to forecast construction year (2021) dollars using the ODOT Office of Estimating Construction Cost Inflation Spreadsheet tool.

The remaining engineering design for this is estimated to be 10% of the construction cost. Construction management and inspection is estimated to be 7% of the construction cost. Right-of-way costs were estimated based on property values of the affected parcels.

B. Leveraging of Federal Funding

This application requests a **\$40 million** INFRA program grant award for Phase 4 of the Columbus Crossroads Project. The total request is less than 25% of Phase 4’s estimated cost, and less than 3.1% of the combined cost (**\$1.3 billion**) of all phases of the Columbus Crossroads project. ODOT would leverage the INFRA award to complete Phase 4’s funding package. Based on feedback received from USDOT regarding its previous INFRA application, ODOT has worked to find ways to significantly increase the percentage of non-federal funding.³⁶ For the eligible future costs (which do not include 4R), Phase 4’s balance of federal and non-federal funds is approximately **57.53% federal and 42.47% non-federal**. Other federal sources include State-designated Federal program funds, MPO delegated funds, and GARVEE Bonds. Non-federal funding sources include State Surface Transportation Preservation funding and City of Columbus local funding.

ODOT has used local partnerships to inject non-federal funding into Phase 4 of the Columbus Crossroads projects. The Columbus Crossroads project has leveraged a necessary maintenance and reconstruction project into a transformational project for the city and region. For Phase 4, ODOT and the City of Columbus have partnered to design and construct the improvements (better ramps, wider bridges, sidewalks, bicycle and pedestrian facilities, freeway caps, etc.) necessary to improve access to the Columbus Innerbelt Area, expand economic development

³⁶ The FY2019 Columbus Crossroads Phase 4 INFRA application had a funding balance of 71.21% federal and 27.29% non-federal.

opportunities, and reconnect Downtown Columbus to neighborhoods across the South Innerbelt Trench. The City of Columbus is contributing \$23.7 million towards Phase 4's future eligible costs, which is 14.68% of Phase 4's future eligible costs. This amount of local contribution is quite significant for an interstate-freeway focused project, reflecting the strong partnership between state and local officials to complete the project as it has been envisioned.

C. Potential for Innovation

1. The accelerated deployment of innovative technology

ODOT and the City of Columbus look for ways to incorporate new and innovative technologies in their roadways. Inside the city limits, ODOT has installed a Queue Warning System (QWS) that informs drivers of the presence of downstream stop-and-go traffic so that drivers can anticipate emergency braking or slow down, avoid erratic behavior, and reduce queuing-related collisions. For drivers headed east on I-70 towards the I-70/71 Overlap, the QWS is able to provide congestion warnings on overhead dynamic message signs based on real-time traffic detection, as ODOT has three radar detection sites between the QWS sign on I-70 EB and the conflict area at the I-70/71 Overlap. Phase 4 of the Columbus Crossroads Project will support the delivery of two additional innovative technologies in Downtown Columbus: (a) signal preemption technology; and (b) DC Fast Chargers for Electric Vehicles.

a. Signal preemption technology

The installation of signal preemption technology on Fulton Street and Mound Street is part of the improvements planned for the Columbus Crossroads Project as a whole. This technology is being installed for the benefit of Columbus Fire Division units responding from Columbus Fire Station 2, which is situated at the northwest corner of the intersection of Fourth Street and Fulton Street directly north of the highway trench, and transporting patients to OhioHealth Grant Medical, which is a Level 1 Trauma Center in Downtown Columbus. Opticom GPS priority emergency signal preemption for traffic signals will be installed at signals on both Mound Street, from Front Street to Fourth Street, and Fulton Street from Third Street to Washington Avenue. The overall phasing of the Columbus Crossroads Project means this aspect of the project will be completed over multiple phases, including Phases 4, 2C, 2D, Phase 2E, and Phase 2G. The City of Columbus has already installed fiber optic infrastructure for the signals on Fulton Street and Mound Street, and it is in the process of integrating signal preemption technology into its central traffic control system in other areas of the city.

b. DC Fast Chargers for Electric Vehicles

The City of Columbus recently installed the infrastructure necessary for electric vehicle DC fast chargers on Fulton Street.³⁷ The infrastructure is situated just outside of Phase 4's project area on Fulton Street as part of Phase 2G. Greenspot privately installed the DC fast chargers privately installed and maintained after the infrastructure is in place. However, installing and maintaining the DC fast chargers will not be economically viable unless there is a critical mass of users who can easily reach these stations. Phase 4's improvements to the exit for eastbound traffic entering Downtown Columbus on Fulton Street will help ensure a critical mass of users are able to easily access the DC fast chargers while travelling eastbound through the Downtown.

2. Use of innovative permitting, contracting, and other project delivery practices

ODOT has incorporated two innovative aspects regarding Phase 4's project delivery: (a) ODOT's Performance Based Project Development (PBPD) process, (b) ODOT's NEPA Assignment, (c) Contractor Assisted Design Review.

a. Performance Based Project Development (PBPD)

ODOT has adopted PBPD as a planning and design philosophy that proposes targeted, right sized improvements based on a project's specific needs. This philosophy places less emphasis on strict adherence to design standards and more significance on safety and operational performance. PBPD techniques were used in the development of phases for the Columbus Crossroads Project. Phase 4 proposes a deviation from standard shoulder widths in order to allow space for an additional northbound lane for I-71 through the west interchange, which will advance improvements to safety and reduce congestion as part of this project phase.

b. NEPA Assignment

The Environmental Assessment for the Columbus Crossroads Project was approved and a **Finding of No**

³⁷ Dean Narciso, "Quick, easy fill-up available for Downtown Columbus electric vehicle users," *The Columbus Dispatch*, last updated January 14m 2020, <https://www.dispatch.com/news/20200114/quick-easy-fill-up-available-for-downtown-columbus-electric-vehicle-users>.

Significant Impact (FONSI) was issued on July 8, 2009. A reevaluation is currently being prepared for Phase 4 of the Columbus Crossroads Project to address construction access and the multi-year construction schedule along the Lower Scioto Bikeway that crosses the project area. ODOT is one of a handful of states nationwide that has, under NEPA Assignment, the authority to assume the FHWA's NEPA responsibilities. ODOT's NEPA Assignment ensures a single point of contact that understands both project details and the regulatory process. As ODOT is best suited to ensure compliance with all local agreements and partner commitments, as well as Federal NEPA requirements, coordination inefficiencies have been dramatically lessened using this approach, eliminating extra steps in the review/approval process which can adversely affect the overall project schedule. This innovative delivery method allows ODOT to streamline the environmental approval process for this reevaluation. When ODOT entered into the NEPA Assignment Program, it estimated the reduction would equate to approximately 20% time savings for our overall program. Since implementation of NEPA Assignment in Ohio, ODOT has saved approximately 8,550 days of review time and approximately \$32.42 million dollars.

c. Contractor Assisted Design Review

ODOT successfully implemented design-build on the first major portion of the Columbus Crossroads, and Phase 4, with multiple items of work and construction phases, appears to be well-matched to pilot a related approach, known as Contractor Assisted Design Review. This approach is another way to promote innovation and reduce risk by involving potential contractors in design review of traditional design-bid-build projects. Contractors would provide written, confidential comments to the design. The intent of the contractor provided comments is to identify areas of risk and possible improvements. The written comments' origination would remain confidential until after contract award. Contractors who provided written comments would be engaged in pre-established "Contractor Engaged Value-Engineering" sessions (CEVE). These CEVE sessions would address and highlight the confidential comments. The intent of the CEVE sessions, in addition to saving project costs, would also address high risk areas, potential change of condition items, opportunities for improvement, and plan accuracy.

3. Innovative financing

State and local governments have been working diligently to implement innovative funding and financing for future projects, including (a) gas tax increases at the state level, (b) additional vehicle registration fees at the county level, and (c) tax increment financing at the local level.

a. Innovative financing - state efforts

The State of Ohio has prioritized raising additional non-federal revenue for transportation infrastructure investment. Governor DeWine created the Governor's Advisory Committee on Transportation Infrastructure in January 2019. The Governor instructed the committee to "study the current conditions of Ohio's roadways and recommend options for maintaining and enhancing the state's transportation infrastructure."³⁸ The Advisory Committee recommended increasing the gas tax.³⁹ Governor DeWine adopted the committee's recommendation, and was instrumental in guiding a significant fuel tax increase through the state legislature. The Ohio General Assembly approved to increase the state tax on gasoline by 10.5-cents per gallon and the state tax on diesel fuel by 19-cents per gallon. The full increase went into effect July 1, 2019 and is projected generate an estimated **\$865 million** in additional gas tax revenue, with 55% of the funds going to the state and 45% going to local government entities.⁴⁰ In addition to the Governor's support, the increase enjoyed broad support from a range of stakeholders, who came together under the banner of Fix Our Roads Ohio (FOR Ohio). These stakeholders included MORPC, the Columbus Chamber of Commerce, the Central Ohio Mayors and Managers Association, Ohio Municipal League, the Ohio Mayors Alliance, the Ohio Council of County Officials, the County Engineers Association of Ohio, the Ohio Association of Regional Councils, and the Ohio Rural Development Alliance.⁴¹

³⁸ "Governor DeWine Announces Creation of Governor's Advisory Committee on Transportation Infrastructure," Office of the Governor, State of Ohio, January 28, 2019, <https://governor.ohio.gov/wps/portal/gov/governor/media/news-and-media/012819b>.

³⁹ Marty Schladen, "Governor's panel recommends Ohio gas tax hike, but no amount given," *The Columbus Dispatch*, February 15, 2019, <https://www.dispatch.com/news/20190215/governors-panel-recommends-ohio-gas-tax-hike-but-no-amount-given>.

⁴⁰ Jim Siegel, "Ohio legislature approves 10.5 cent gas-tax increase, 19 cents for diesel," *The Columbus Dispatch*, last updated April 3, 2019, <https://www.dispatch.com/news/20190402/ohio-legislature-approves-105-cent-gas-tax-increase-19-cents-for-diesel>

⁴¹ "Fix Our Roads Ohio Coalition," FOR Ohio, last accessed February 15, 2020, <https://fixourroadsOhio.com/meet-the-coalition/>.

b. Innovative financing - regional efforts

Efforts to create new non-federal revenue for transportation infrastructure investment are not limited to the City of Columbus' corporate limits. Regional efforts have involved (1) expanding the local permissive tax, and (2) creating a Transportation Improvement District.

Local government stakeholders worked with the Ohio General Assembly in 2017 to craft and pass legislation that allows county governments to add an additional \$5 fee to the cost of vehicle registrations to generate funding for road and highway improvements. Franklin County, where the Columbus Crossroads Project is located, opted to enact the fee in 2018 and generating more than \$5.5 million annually, in addition to existing permissive taxes collected from vehicle registrations. These funds will be leveraged with existing transportation funding to advance major roadway projects throughout the county.

Franklin County recently created a Transportation Improvement District (TID). A TID is authorized by Ohio Revised Code 5540, and it is an innovative and collaborative government body that could potentially provide funds to be leveraged with city, state, and federal resources in order to complete larger, more impactful projects on a shorter timeframe. TIDs have authority to collect revenues over multi-year agreements with project funders and can issue their own bonds, outside of the bonding authority of local government partners, to accelerate project construction. This funding source and structure will benefit future projects of regional significance.

c. Innovative financing - local efforts

The City of Columbus' actively seeks to identify and create new non-federal revenue for transportation infrastructure investment. Local efforts include (1) tax increment financing, (2) parking benefit districts, (3) private contributions and public-private partnerships, and (4) lease revenue.

The City of Columbus uses Tax Increment Financing (TIF) as one of its primary mechanisms for creating local revenue to support infrastructure improvements. TIFs allow the city to redirect new property tax revenues to invest in infrastructure that supports ongoing development. Since January 1, 2015, the City of Columbus has created seventeen TIFs, which are expected to generate significant non-federal revenue for transportation infrastructure investment by December 31, 2027.⁴²

The City of Columbus has begun to use portions of its parking revenue to augment local investment in neighborhood transportation and mobility improvements. It created a Parking Benefit District (PBD) for the Short North Arts District, which has generated approximately \$300,000 in its first year alone; and discussions are currently underway to create a PBD for Downtown Columbus.⁴³

The City of Columbus also works regularly with developers and other private entities that benefit from transportation infrastructure projects to identify ways for these entities to contribute to these projects. For example, Nationwide Children's Hospital will benefit significantly from the City of Columbus' Livingston Avenue Phase C project, which directly connects to the Phase 4 improvements. NCH has agreed to contribute \$1,000,000 towards design costs, and it has also agreed to donate land for right of way valued at \$320,000. The City of Columbus has also used public-private partnerships to create non-federal revenue for local infrastructure projects.

Finally, the City of Columbus believes it will be possible to use lease revenue generated by any future commercial cap on the Third Street Bridge and place the revenue in a fund for transportation improvements. The precise timeframe for this funding would depend upon whether a developer is found for the commercial cap and a lease agreement approved by the Columbus City Council prior to designs being completed. The fund would be created at the same time the commercial lease agreement is approved by the Columbus City Council.

D. Performance and Accountability

ODOT commits to start construction for the future eligible portions of Phase 4's by December 31, 2022. This is well in advance of the required September 2023 obligation deadline. It also commits that construction will be substantially complete by December 31, 2025. Based on feedback received from USDOT regarding its previous

⁴² The following seventeen TIFs have been created since January 1, 2015, including seven in 2019: Dublin Granville West TIF (2015), Milo-Grogan TIF (2015), Old Dublin Road TIF (2015), Polaris II TIF (2015), Brice Road TIF (2016), Buggyworks TIF (2016), Jaeger Site TIF (2016), Founders Park TIF (2018), Polaris III TIF (2018), West Goodale TIF (2018), Grandview Crossing TIF (2019), Hyatt Regency TIF (2019), Jaeger 2 (2019), Marriott AC TIF (2019), North Market TIF (2019), Quarry Trails (2019), and Vine TIF Area No. 1 (2019)

⁴³ See, e.g., Brent Warren, "Group to Decide How to Spend Downtown Parking Meter Revenue," *Columbus Underground*, January 29, 2020, <https://www.columbusunderground.com/group-to-decide-how-to-spend-downtown-parking-meter-revenue-bw1>.

INFRA application, ODOT expressly acknowledges that if it fails to meet either this construction start or construction end date, the project will be subject to forfeit or return of up to 10% of the awarded funds, or \$10 million, whichever is lower.

Once construction is complete, ODOT commits to measuring project success by comparing the following two factors at regular intervals before and after construction: (1) travel time performance, and (2) bottlenecks. Travel Time Performance is the percent of time motorists can travel at or near (90%) of the reference speed (free-flow/uncongested speed defined by data provider). The 70/71 Overlap was measured as the 2nd worst freeway segment for travel time performance in Ohio. A potential bottleneck is detected when speeds on a segment drop to 65% of reference speeds and cause at least a two-minute delay. The segment of I-71 approaching the overlap is expected to improve most in this measure. These metrics are already part of ODOT's Traffic Operation Assessment Systems Tool (TOAST), which it uses to make data-driven decisions and determine operationally sensitive corridors.⁴⁴

Once construction is complete, the facilities will be maintained by both ODOT and the City of Columbus. Maintenance agreements will be executed to clearly establish each entity's roles and responsibilities. These agreements will ensure that neither party diverts funds or services that they are obligated to provide. In addition to these formal protections, both entities have significant experience coordinating maintenance and preservation tasks, individually and jointly. Both entities have established processes and guidelines for maintaining assets, and ODOT has developed a Transportation Asset Management Decision Support Tool (TAM_DST)⁴⁵ to aid in its preservation and maintenance efforts statewide. Finally, parties have the funding sufficient for the maintenance and preservation needs. ODOT can draw funds from multiple sources, including its State Surface Transportation Preservation funds. The City of Columbus can also draw funds from multiple sources, including its Street and Highways Bond Fund. According to the BCA, the total maintenance expenditures over the project lifecycle are expected to be \$7.6 million.

VI. Project Readiness

A. Technical Feasibility

The Columbus Crossroads Project is proposed to improve safety and reduce congestion at the crossroads of I-70 and I-71. The proposed improvements were recommended based on operational efficiency, local accessibility, mobility, safety, environmental and community issues, constructability, cost effectiveness and cost. The Columbus Crossroads Project will reconfigure the freeway system interchanges and add lanes for improved route continuity, reducing the amount of lane changes in the I-70/71 Overlap. Additionally, the project will consolidate ramps serving the downtown area through the use of one-way urban avenues. This will reduce the number of freeway access points and minimize the amount of weaving traffic on the freeway. Even though the number of access points will decrease, the urban avenues will allow easy access to all city streets that cross the freeways.

Phase 4 will consolidate two eastbound ramps to one location in order to reduce the weaving traffic along I-70/71. It will connect this new ramp to the downtown street network by reconstructing Fulton Street for one-way eastbound traffic between Front Street and High Street, connecting with the portion of Fulton Street that was reconstructed as part of previous phases of the Columbus Crossroads Project. Additionally, Phase 4 will add a continuous lane for northbound I-71 from SR 315 to the I-70/71 East Interchange, reducing the amount of lanes changes and increasing the freeway capacity. These improvements will improve safety and reduce congestion along eastbound I-70/71. The South Innerbelt Trench renderings in **Appendix A** and the project schematics in **Appendix K** help illustrate Phase 4's planned improvements.

The need to relocate the westbound ramp out of Downtown Columbus onto I-70/71 requires staggering Phase 4's construction, and selling the project as two separate contracts. The portion of Phase 4 currently designated as 4R, which relocates the eastbound ramp into Downtown Columbus and replaces the Front Street bridge) – has an anticipated April 2020 sale date, with construction to begin shortly after its sale. The eastern portion of Phase 4 will

⁴⁴ "TOAST: Traffic Operation Assessment Systems Tool," ODOT, last visited March 1, 2019, <http://www.dot.state.oh.us/Divisions/Operations/Traffic-Management/Documents/TOAST%20One-Pager.pdf>.

⁴⁵ TAM_DST is a web based application that lets users extract relevant information on ODOT assets, roads, bridges, culverts, etc. for display in reports and on maps. The application is broken down into 5 areas of reports: Inventory, Performance, Planning, Asset Expenditures, and Maintenance. The application also works in companion to TIMS (Transportation Information Mapping System) allowing the user to run a report and render the results into the TIMS application with full utilization of the mapping tool. This is a one of kind Business Intelligence (BI) application that will further enhance the decision making and return efficiencies to ODOT's investment portfolio.

commence once the westbound ramp has been relocated. The remaining portions of Phase 4 are scheduled to sell Fall 2022, with construction to begin shortly after its sale.

Based on the Aug. 10, 2010 Revised Interchange Modification Study, the project is expected to obtain a Level of Service (LOS) of D or better for all freeways and ramps within the Columbus Crossroads Project area in the 2035 design year. Additionally, a LOS of D or better will be obtained at all the urban avenue intersections with city streets.

Improvements proposed in Phase 4 for Fulton Street and the Front Street, High Street, Third Street, and Fourth Street bridges over I-70/71 are necessary to improve mobility along the corridor. As shown in **Figure 3** and **Appendix A**, Fulton Street will be reconstructed with sidewalks that have bulb-outs at intersections for shorter pedestrian crossings, enhanced crosswalks that will be more visible to drivers, and new traffic signals that will control vehicle traffic to allow for pedestrian crossings at intersections. A new bike lane is proposed along Fulton Street and bus pads will be constructed for new Central Ohio Transit Authority bus stops. The city street bridges over the freeway will be rebuilt with wider, 10 foot sidewalks, along with adjacent greenspace, to encourage pedestrians crossing the freeway corridor between downtown and the adjacent neighborhoods. These proposed features of the project will improve safety for pedestrians and bicyclists, along with encouraging the use of alternative modes of transportation through the corridor. These features will also tie-in with the urban avenue improvements that the City of Columbus is completing during related projects.

Phase 4 includes the construction of new retaining walls along both sides of the freeway in order to minimize the environmental impact and right of way acquisition needed. These walls will reduce the effect on the Brewery District and German Village, which are both listed on the National Register of Historic Places.

B. Cost Estimate

Final Design cost estimates are complete for Phase 4R. Preliminary 50% design complete cost estimates were developed for Phases 4A and 4B and will be updated as the project planning and design is further developed. Costs for roadway and pavement quantities were determined using ODOT's Estimator software with unit prices generated by ODOT's interactive Bid History Catalog. Costs for erosion control, traffic control, maintenance of traffic, and utility work were established using ODOT's Procedure for Construction Budget Estimating spreadsheet and/or input from specific manufacturers. The preliminary cost estimates include costs for the relocation of public utilities that will be included with the project, but do not include costs for private utility relocations that will be necessary. Varying rates of contingency were applied to the construction costs for non-itemized pay items and for the uncertainty associated with the preliminary plans available at this time. Design engineering was estimated as 10% of the proposed construction cost and construction engineering was estimated as 7%, based on ODOT's historical average for this type of work. Remaining right of way acquisition costs are estimated to be \$260,000. The costs were converted from current year dollars to forecast construction year (2023) dollars using the ODOT Office of Estimating Construction Cost Inflation Spreadsheet tool. The total project cost for Phase 4 is estimated \$310.6 million, including \$161.4 million in future eligible costs.

C. Risk Mitigation

As part of the planning and preliminary engineering process, alignments, profiles and preliminary cross sections have been prepared for all of Phase 4, along with type studies for bridges and retaining walls. These were used to develop project construction limits for the NEPA documentation, which determined environmental commitments for the project. The 4R portion of Phase 4 has been further developed with final design plans ready to sell April 2020. In addition to plan development, right of way acquisition for 4R was completed in December 2019. This accounts for more than 95% of the total right of way required for Phase 4. A significant amount of the work has already been completed for the project, making delays going forward less likely. Design plans for the remaining subphases that will be recombined with INFRA funding are already at advanced stages: 4A and 4B design plans are at 50%. This project is ideally suited for quick progression to construction. The known risks to scope, schedule, and budget are minimal. It is the applicants' understanding that the project was determined to be low risk during previous evaluations of a 2018 BUILD application and 2019 INFRA application for a similar scope.

D. Environmental Risk Mitigation

The NEPA Environmental Assessment (EA) has been completed and a FONSI has been obtained for the project. Petroleum contaminated soils and other buried regulated materials are present at some locations along the project corridor and will need to be disposed of according to ODOT standard procedures. The necessary provisions

are being included in the project construction plans for this work. Freshwater mussels were found in the Scioto River and, in order to avoid harming these species, ODOT will relocate the all mussels prior to project construction. The minimal impacts to the Scioto River are known as they were identified in the EA. Stream mitigation will be developed as part of the Army Corps of Engineers' (ACE) Section 404 permitting process. A 408 permit required for construction impacts to flood control infrastructure has been submitted and will have a 4 month review by the ACE. The approval is expected by the end of March 2020.

1. Utility Relocation Risk Mitigation

The location of existing utilities and ownership has already been identified using Level B subsurface utility location techniques throughout the project corridor. Public water, and sewer, electric and telecommunication utilities are proposed to be relocated as part of the construction contract and have been planned to the level of detail matching the rest of the project improvements. In addition, there have been regular coordination meetings held with private utility owners with facilities along the corridor regarding their facilities, including AEP overhead and underground electric lines, AT&T overhead and underground telecommunication lines, Columbia Gas lines. Columbia Gas has already relocated its facilities and is clear of the proposed project. AEP has also relocated their overhead transmission line near Short Street. AEP will be relocating another portion of the overhead facilities later this year. Coordination has occurred with AEP regarding the relocation of an underground 138kV line that lies under the freeway between Third and Fourth Streets. If INFRA grant funds are obtained, then final planning and relocation will occur prior to the sale date in Fall 2022. AT&T is currently preparing relocation plans for their facilities.

2. Construction Cost Mitigation

Inflation is an important element of risk to account for within the estimate of cost. Annual construction cost inflation in the past 15 years has been as high as 12% in FY 2006 and as low as -3% in FY 2010. For ODOT, inflation over the past 15 years has averaged approximately 3.5%. ODOT has developed a process of updating an inflation forecast in January and July to stay on top of any inflationary developments.

Inflation is not a discount rate. Inflation is applied to an estimate of cost because we expect the price of inputs into a construction project to change over time. Federal Highway Administration guidance suggests calculating year of expenditure costs for all the major elements of a project, accounting for differing inflation rates for each. ODOT's construction cost mitigation process, which incorporates applicable FHWA guidance, is being followed for Phase 4 to minimize the risk of escalating construction costs.

3. Right of Way Risk Management

Phase 4 will require the acquisition of permanent right of way and temporary construction easements. Most of the right of way acquisition necessary for Phase 4 has already been completed as part of 4R. Acquisition for 4R was completed in December 2019. Remaining Phase 4 acquisition should be complete by January 1, 2022.


E. Project Schedule

The project has completed the NEPA process and has received the Finding for No Significant Impact (FONSI) on July 8, 2009. It also received IMS approval by the Federal Highway Administration on July 10, 2009. The right of way plans are complete for all Phase 4, and acquisition already has been completed for 4R, which includes over 95% percent of Phase 4's total right of way requirements.

(Project Narrative is continued on the next page, starting with a detailed project schedule)

Columbus Crossroads Phase 4

Stage	Phase	2019				2020				2021				2022				2023				2024				2025			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Stage 2 Design	4R																												
	Phase 4																												
ROW Acquisition	4R																												
	Phase 4																												
Utilities Cleared	4R																												
	Phase 4																												
Stage 3 Design	4R																												
	Phase 4																												
Final Plans	4R																												
	Phase 4																												
PS&E	4R																												
	Phase 4																												
Award/Construction	4R																												
	Phase 4																												

 anticipated federal obligation date

As shown in the schedule above, the remainder of Phase 4 is in Stage 2 Design, and the anticipated federal obligation date is approximately one year before the September 2023 obligation deadline. The project is included in local and state transportation plans as noted in the following **Required Approvals** section. The project is moving forward with the design, right of way acquisition and construction per the detailed project schedule. All necessary activities to complete Phase 4 will allow the INFRA funds to be obligated in advance of the September 30, 2023 obligation deadline, and for construction to commence well before the March 30, 2025 construction start deadline.

F. Required Approvals

The Columbus Crossroads Project has completed the NEPA process and gained approval of the following documents on the dates noted:

- On July 8, 2009, the Federal Highway Administration issued a Finding of No Significant Impact (FONSI) for the I-70/71 South Innerbelt Project, FRA-70-8.93 PID 77369. The FONSI was based upon an Environmental Assessment (EA) from December 2008 and a Final Section 4(f) Evaluation from June 2009.
- On September 22, 2010, the FHWA approved the Environmental Reevaluation prepared to confirm the 2009 FONSI was applicable to the first of the six smaller projects: Phase 1 – I-71/I-670 Interchange (FRA-71-17.76 PID 77369).
- On May 20, 2015, the FHWA approved the Environmental Reevaluation prepared to confirm the 2009 FONSI was applicable to Phase 2 – I-70/71 East Interchange, Phase 3 – I-71 East Trench, and Phase 6 – I-70/71/SR 315 West Interchange. At that time, Phase 6 included construction of new eastbound and westbound bridges over the Scioto River, CSX Railroad, and Short Street. It also involves reconstruction of the Mound Street and High Street bridges over I-70/71, a new off-ramp bridge to Fulton Street, and work on portions of Fulton and Front Streets.
- IMS was approved by FHWA on July 10, 2009.

All of the NEPA documents associated with the project can be found at the following link: <http://www.dot.state.oh.us/projects/7071/environmental/Pages/default.aspx>.

The EA, which can be found at the link above, includes discussions with the appropriate agencies and the link contains the approval showing compliance with NEPA and the applicable Federal environmental reviews and approvals. Chapter 4 of the EA includes a summary of the agency coordination and a description of public engagement about the project that has occurred and the commitments made.

The project is included:

- As part of #270 on the MORPC 2016-2040 Metropolitan Transportation Plan, which can be found at the following link: <http://www.morpc.org/mtp2040/>. It is also included as #270 on the current draft MORPC 2020-2050 Metropolitan Transportation Plan, which is expected to be approved local in May 2020. A webmap of the proposed 2020-2050 MTP can be found at the following link: <http://www.morpc.org/mtp2050/>.
- On the MORPC 2018-2021 Transportation Improvement Plan (TIP) as #2874 and #3295.
- I-70 and I-71 are part of the Interstate System and are included in the Ohio 2040 Long Range Transportation Plan: which can be found at the following link:

http://www.dot.state.oh.us/Divisions/Planning/SPR/StatewidePlanning/access.ohio/AO40_library/ODOT AccessOhio2014.pdf

- I-70 and I-71 are part of the Primary Highway Freight System (PHFS) per the February 2018 Transport Ohio Statewide Freight Plan, which can be found at the below link: http://www.dot.state.oh.us/Divisions/Planning/SPR/StatewidePlanning/Documents/ODOT_FreightPlan_Updated%203.7.19.pdf

G. Assessment of Project Risks and Mitigation Strategies

With the completion of the NEPA document, FONSI approval and IMS approval, risks moving forward with the Phase 4 of the Columbus Crossroads Project have been minimized. As previously detailed in **Section V** under **Technical Feasibility, Risk Mitigation**, the potential for encountering petroleum contaminated soils and other regulated materials during construction are known as they were identified in the NEPA document and will be addressed as part of construction contract provisions. The relocation of freshwater mussels will be completed prior to the project construction and stream mitigation will be developed as part of the COE Section 404 permitting process. Preparation of a COE 408 permit is currently underway and is expected to be obtained well in advance of the project construction start. The relocation of utilities has already started for Phase 4 and the planning and coordination necessary for relocating the remaining utilities is also underway. Project costs have included a contingency percentage and have been escalated for inflation using ODOT's process, which has been developed to stay on top of fluctuations in construction pricing. Phase 4's right of way acquisition is almost complete, minimizing the impact of future land value increases. Only one parcel remains, which is currently valued at \$260,000. If the requested INFRA funds are committed to Phase 4, the right of way acquisition will be completed well before the construction deadline of March 30, 2025.

Commitments from MORPC Attributable Funds and the City of Columbus are included in **Appendix C**. These demonstrate the commitments to funding the balance of the Phase 4's costs as well as to the legislative approval if the INFRA funds are made available.

VII. Large/Small Project Requirements

1. Does the project generate national or regional economic, mobility, or safety benefits?

Yes. The project generates economic, mobility, and safety benefits on both a national scale and a regional scale.

2. Is the project cost effective?

Yes. According to the BCA in Appendix I, the project will cost \$260,840,059.73 using a 7% discount over the life of the project (2045). The benefits are estimated to be \$270,573,002.74 at 7% discount over the life of the project.

3. Does the project contribute to one or more of the Goals listed under 23 U.S.C. 150 (and shown below)?

(1) Safety. Yes. In 2015, three of the top ten freeway crash locations in Ohio were segments situated in the I-70/71 overlap. Phase 4, in conjunction with Phase 2E's, is projected to **eliminate 95% of the weaving that has made this public road so dangerous.**

(2) Infrastructure condition. Yes. The pavement within the project area has exceeded its service life and is in need of replacement and reconstruction. The current condition of the at-grade bridge structures carrying eastbound I-70/71 are in "good" condition and the four overhead bridges range from "fair" to "poor". Phase 4 will restore the good condition of roadways and bridges that supports freight movement and economic growth, and will reset the maintenance cycle, saving \$6.1 million within the next five to eight years.

(3) Congestion reduction. Yes. Phase 4 will eliminate one of the top truck bottlenecks in the country and, in conjunction with Phase 2E, reduce travel time delays in the I-70/71 Overlap by 97% during the AM peak hour.

(4) System reliability. Yes. Addressing significant congestion and safety issues will improve the overall efficiency of the surface transportation system by reducing the trip duration and trip speed differentials between peak and non-peak hours. See **Appendix F** for Safety and Congestion information.

(5) Freight movement and economic vitality. Yes. This project will improve national, regional, and local freight movement by removing one of the top truck bottlenecks in the county; it will support economic growth in Central Ohio; and it will make it easier for workers to use I-70/71 to commute to employment centers in Downtown Columbus and across the region, especially workers commuting from surrounding counties who are unable to use local surface roads to avoid congestion.

(6) Environmental sustainability. Yes. The NEPA Environmental Assessment (EA) has been completed and a FONSI has been obtained for the project. The inclusion of pedestrian and bicycle facilities on the bridges spanning the I-70/71 trench will increase the viability of bike and pedestrian modes. The planting of street trees on Phase 4's bridge caps and urban avenues will improve air quality in and around the trench.

(7) Reduced project delivery delays. Yes. As mentioned in the Potential for Innovation section, Ohio is already a leader in reducing project delivery time. In addition to further refining existing NEPA models on this project, ODOT will consider new innovations or partnerships with USDOT, FHWA, or local partners to deliver the improvements as quickly as possible.

4. Is the project based on the results of preliminary engineering?

Yes. Preliminary Engineering has already been completed for all project components; The NEPA EA has been completed; and a FONSI has been obtained for the project.

With respect to non-Federal financial commitments, does the project have one or more stable and dependable funding or financing sources to construct, maintain, and operate the project?

Yes. This project has multiple stable and dependable sources to construct, maintain, and operate the infrastructure, as detailed in the Leveraging of Federal Funding merit criteria section. Construction of the project is backed by significant non-federal funds committed by both the State of Ohio (\$44.85 million) and the City of Columbus (\$23.7 million) towards the total future eligible costs. ODOT and the City of Columbus will maintain and operate the infrastructure once it is constructed. Both entities have the technical expertise, financial resources, and program experience necessary to operate the infrastructure and maintain it in a state of good repair.

5b. Are contingency amounts available to cover unanticipated cost increases?

Yes, the current project cost estimates include a \$19,500,000 contingency. This contingency has been developed based on the amount of preliminary engineering and design development that has already been completed. Additionally, ODOT and the City of Columbus will absorb any additional cost overruns that exceed the contingency.

6. Is it the case that the project cannot be easily and efficiently completed without other Federal funding or financial assistance available to the project sponsor?

Yes, the Columbus Crossroads Phase 4 cannot be easily and efficiently completed without other Federal funding or financial assistance. Limited funding forced ODOT to further divide Phase 4 into the following current subphases: 4R, 4B, and 4A. However, this is not the preferred approach. Subdividing Phase 4 is financially inefficient because it increases the costs for each sub-phase. Subdividing Phase 4 is operationally inefficient because Phase 4 was developed as a single phase. All of its improvements work together as a system to optimize the national, regional, and local benefits. This optimization is only realized once all the Phase 4 improvements have been constructed. Increased state fuel tax revenues have allowed ODOT to start 4R, additional funding will not be available to construct the remaining subphases for at least several more years. Completing the remaining subphases would require ODOT to commit a the overwhelming majority of its system preservation fund, which is necessary to keep infrastructure in good repair throughout the state's eighty-eight counties, on just one project in one county. While executing a single Phase 4 is both financially and operationally efficient, it will be very difficult financially without the additional influx of INFRA Grants program funding.

7. Is the project reasonably expected to begin construction not later than 18 months after the date of obligation of funds for the project?

Yes. ODOT expects to 4R to sell in April 2020, but these are not future eligible costs. For the remainder of Phase 4, which are future eligible costs, it expects to obligate funds in Fall 2022 and begin construction within three months of obligation. Phase 4 will be ready for construction well in advance of the statutory construction deadline, and ODOT has committed to starting construction well before the deadline in the Performance and Accountability Section.