Part 1 Base Information

1.	Project Title			Bridge	Stre	eet & I-76 Interchange	
2.	2. Project <i>Start/End</i> points or Geographic Area <i>Provide a map with submittal, as</i> <i>appropriate</i>		I-76 ar	nd Bi	ridge Street		
3.	Project Spor construct/com responsible for	ISOF (entity that pplete and be fina the project)	will Incially	City of Brighton			
4.	Project Cont Phone Num	tact Person, Ti ber, and Email	tle, I	Christo Cmont	ophe toya	er Montoya, Public Works @brightonco.gov	Engineering Manager, 303-655-2037,
5.	 Does this project touch CDOT Righ access RTD property, or request R⁻ 			-of-Way, D involve	invo mer	olve a CDOT roadway, nt to operate service?	Yes No If yes, provide applicable concurrence documentation with submittal
				RCOG 204	lO Fi	scally Constrained Regior	al Transportation Plan (2040 FCRTP)
6.	What plann document(s this project	planning ment(s) identifies roject?	🔀 Lo plan:	🛛 Local 🛛 C Dlan:		City of Brighton Transportation Master Plan (Adopted 2016)	
			🖂 Ot	Other(s): I-76 and Bridge Street Interchange Environmental Assessment (2015)			rchange Environmental Assessment
			Provide with su	e link to document/s and referenced page number if possible, or provide documentation ubmittal			
7.	Identify the	project's key e	elements				
						Grade Separation	
	🗌 Rapid T	ransit Canacit	v (2040 F	CRTP)		🗌 Roadway	,
		Other:	.y (20401	citri j	Railway		
		Facility		Bicycle			
	Pedestrian Facility			Pedestrian		an	
 Safety Improvements Roadway Capacity or Managed Lanes (2040 FCRTP) 					Roadway Paven	nent Reconstruction/Rehab	
			d Lanes		Bridge Replace/	Reconstruct/Rehab	
	🔀 Roadway Operational						Technology Components
						Other:	

8. **Problem Statement** What specific Metro Vision-related subregional problem/issue will the transportation project address?

The I-76 and Bridge interchange is at the center of high growth urban development, where growth has been accompanied by more affordable housing outside of the heart of the Denver Metro area. On the contrary, the demand for transportation in this area has restricted access to the I-76 interstate, resulting in significant congestion at I-76 and Bromley Lane, as well as I-76 and Baseline Rd. (WCR 2) interchanges. To further complicate matters, there is limited access to public transportation or alternative forms of transportation. The congestion currently extends across Weld and Adams County, however, the interchange is located at the north-east corridor of Adams County in the City of Brighton, as well as just south of congested areas in the Town of Lochbuie.

An interchange at this location will reduce significant traffic delays and queues at alternate route intersections, and enhance access to the I-76 interstate for growth. This interchange will allow capitalization of existing infrastructure, and integrated multi-modal facilities will connect into long-term planned trail systems and bike facilities, as well as extend the life of the currently used alternate route infrastructure for an additional 5 years. The subsequent extension of life span will allow Brighton to direct funding to more appropriate infrastructure needs.

References: I-76 & Bridge Street Interchange Environmental Assessment (January 2015).

9. Define the scope and specific elements of the project.

The scope of work is to design a new interchange using existing bridge infrastructure located at I-76 and Bridge street. This includes possible roundabouts at the frontage road as identified in the environmental assessment.

10. What is the status of the proposed project?

The interchange has been identified as a major capital improvement project for the City of Brighton, when the Environmental Assessment was completed in January 2015. The City of Brighton has designed and is currently under construction to make improvements at I-76 and Bromley Lane to help mitigate traffic impacts in the larger impacted area. The I-76 and Bridge interchange is ready to be solicited for design and is planned to begin design in 2019.

🛛 Yes 🗌 No

11. Would a smaller DRCOG-allocated funding amount than requested be acceptable, while maintaining the original intent of the project?

If yes, define smaller meaningful limits, size, service level, phases, or scopes, along with the cost for each.

A. Project Financial Information and Funding Request

1.	\$1,000,000.00		
2.	Total amount of DRCOG Subregional Share Funding Request	\$300,000.00	30 % of total project cost
3.	Outside Funding Partners (other than DRCOG Subregional Share funds) List each funding partner and contribution amount.	\$\$ Contribution Amount	% of Contribution to Overall Total Project Cost
	N/A	\$0	
		\$	
		\$	
		\$	
		\$	
		\$	
То	tal amount of funding provided by other funding partners (private, local, state, Regional, or federal)	\$0	

Funding Breakdown (year by year)*

*The proposed funding plan is not guaranteed if the project is selected for funding. While DRCOG will do everything it can to accommodate the applicants' request, final funding will be assigned at DRCOG's discretion within fiscal constraint. Funding amounts must be provided in year of expenditure dollars using an inflation factor of 3% per year from 2019.

	FY 2020	FY 2021	FY 2022	FY 2023	Total		
Federal Funds	\$0	\$	\$	\$	\$0		
State Funds	\$ O	\$	\$	\$	\$0		
Local Funds	\$1,000,000.00	\$	\$	\$	\$0		
Total Funding	\$1,000,000.00	\$0	\$0	\$0	\$0		
4. Phase to be Initiated <i>Choose from Design, ENV,</i> <i>ROW, CON, Study, Service,</i> <i>Equip. Purchase, Other</i>	Design	Choose an item	Choose an item	Choose an item			
5. By checking this box,	By checking this box, the applicant's Chief Elected Official (Mayor or County Commission Chair)						

or City/County Manager for local governments or Agency Director or equivalent for others, has certified it allows this project request to be submitted for DRCOG-allocated funding and will follow all DRCOG policies and state and federal regulations when completing this project, if funded.

Part 2 Evaluation Criteria, Questions, and Scoring

A. Subregional significance of proposed project

Provide qualitative and quantitative (derived from Part 3 of the application) responses to the following questions on the subregional significance of the proposed project.

1. Why is this project important to your subregion?

For the region near I-76 and Bridge Street within the City of Brighton, which is also the north side of Adams County and south side of Weld County, there are limited thoroughfare roadway segements to support the increased land development. The 3 major east to west arterials in this area are Baseline Rd (WCR 2), Bridge Street, and Bromley Lane, with no current interchange at Bridge Street and I-76. Both of the existing aretrials connecting to I-76 have experienced significant degradation of level of service, where development and traffic growth have occured, resulting in levels of service of E and F.

2. Does the proposed project cross and/or benefit multiple municipalities? If yes, which ones and how?

Adams County, Weld County, Town of Lochbuie, and City of Brighton.

3. Does the proposed project cross and/or benefit another subregion(s)? If yes, which ones and how?

The project is not located in other subregions, however it will relieve traffic congestion at Baseline Rd. and I-76, which is located in Weld County.

4. How will the proposed project address the specific transportation problem described in the Problem Statement (as submitted in Part 1, #8)?

Reduce congestion, improve level of service at adjacent intersections and interchanges, provide pedestrian and multi-modal facilities. Further more, the interchange will improve regional connectivity.

5. One foundation of a sustainable and resilient economy is physical infrastructure and transportation. How will the <u>completed</u> project allow people and businesses to thrive and prosper?

In reducing congestion, time delays are reduced and allow more time to be alloacted in more productive and meaningful ways. Further more, housing affordability typically results in development beyond the central metro area of Denver, increasing the travel miles for the area. It is ideal for these miles to be efficient and excessive delays mitigated. Providing better access, in this instance direct access, to the interstate system will enchance all the above said factors. I-76 and US85 are both used for freight as well, which will retain similar benefirts.

6. How will connectivity to different travel modes be improved by the proposed project?

Sidewalks and trails will be incorporated in the project connecting to regional and local trail systems and walkways.

7. Describe funding and/or project partnerships (other subregions, regional agencies, municipalities, private, etc.) established in association with this project.

The City of Brighton currently does not have any project partnerships given the interchange is solely confined within the City of Brighton jurisdictional limits.

B. DRCOG Board-approved Metro Vision TIP Focus Areas

WEIGHT 40%

Provide gualitative and quantitative (derived from Part 3 of the application) responses to the following questions on how the proposed project addresses the three DRCOG Board-approved Focus Areas (in bold). 1. Describe how the project will improve mobility infrastructure and services for vulnerable populations (including improved transportation access to health services). The primary benefit will be access to trails and sidewalks, however the benefits to vulnerable populations is limited. 2. Describe how the project will increase reliability of existing multimodal transportation network. Increased connectivity to regional and local trail and sidewalk systems. 3. Describe how the project will improve transportation safety and security. Given the current configuration, the intersections are not as safe at the frontage road as any of the proposed options. It is anticipated that there would be a reduction of traffic incidents at this locaiton (percentage based on traffic volume), as well as a reduction at the other current intersections and interchanges that are utilized in leiu of proposed interchange. C. Consistency & Contributions to Transportation-focused Metro Vision 20% WEIGHT **Objectives** Provide qualitative and quantitative responses (derived from Part 3 of the application) to the following items on how the proposed project contributes to Transportation-focused Objectives (in bold) in the adopted Metro Vision plan. Refer to the expanded Metro Vision Objective by clicking on links. MV objective 2 Contain urban development in locations designated for urban growth and services. 1. Will this project help focus and facilitate future growth in locations where urban-level Yes No infrastructure already exists or areas where plans for infrastructure and service expansion are in place? Describe, including supporting quantitative analysis Yes, the area is actually already developing, both residentially and commercially. Recently a 1.7 million square foot building was proposed and is under construction. Further, there are multiple residential developments being completed, under construction, and proposed around this area. Increase housing and employment in urban centers. MV objective 3 2. Will this project help establish a network of clear and direct multimodal connections within 🗌 Yes 🖂 No and between urban centers, or other key destinations? Describe, including supporting quantitative analysis Even though multimodal implementation will be incorporated, direct connections to the interstate for multimodal will be incorporated, however limited application to as a connection between ubran centers or other key destinations. There is consideration of addition a pedestrian underpass to connect north and south trails, allowing greater connectivity to the local and regional trail system. Improve or expand the region's multimodal transportation system, services, and MV objective 4 connections.

3.	Will this project he goods, or services?	Ip increase mobility choices within and beyond your subregion for people	e, 🗌 Yes 🔀 No
	Describe, including	supporting quantitative analysis	
	The primary benef	iciary will be vehicles, both passenger and commerical.	
	MV objective 6a	Improve air quality and reduce greenhouse gas emissions.	
4.	Will this project he monoxide, particul	lp reduce ground-level ozone, greenhouse gas emissions, carbon late matter, or other air pollutants?	🗌 Yes 🛛 No
	Describe, including	supporting quantitative analysis	
	The environentma	l assessment did not indicate any air quality improvements.	
	MV objective 7b	Connect people to natural resource or recreational areas.	
5.	Will this project he improve other mul assets?	Ip complete missing links in the regional trail and greenways network or limodal connections that increase accessibility to our region's open space	e 🗌 Yes 🔀 No
	Describe, including	supporting quantitative analysis	
	MV objective 10	Increase access to amenities that support healthy, active choices.	
6.	Will this project ex	pand opportunities for residents to lead healthy and active lifestyles?	🗌 Yes 🛛 No
	Describe, including	supporting quantitative analysis	
	MV objective 13	Improve access to opportunity.	
7.	Will this project he by promoting relia Describe, <i>including</i>	Ip reduce critical health, education, income, and opportunity disparities ble transportation connections to key destinations and other amenities? a supporting quantitative analysis	🗌 Yes 🛛 No
	MV objective 14	Improve the region's competitive position.	
8.	Will this project he health and vitality	Plp support and contribute to the growth of the subregion's economic	🛛 Yes 🗌 No
	Describe, including		
	time delay from co	pment near the proposed interchange will experience improved traffic c ongestion.	onditions and reduced
D.	Project Levera	ging	WEIGHT 10%

9.	What percent of outside funding sources
	(non-DRCOG-allocated Subregional Share
	funding) does this project have?

Part 3 Additional Considerations

The ADCOG Subregional Forum has established five additional considerations to guide project selection within the subregional process. These considerations may be used by the ADCOG Subregional Forum in the project evaluation process in combination with the above listed criteria. The five additional considerations are:

• Does the project benefit a small community, which for this process is defined as a community with a population of less than 50,000 people?

The City of Brighton has approximately 41,000 residents. The Town of Lochbuie has approximately 6,500 residents. The combination of both of these still is less than 50,000 residents, which would classify as a small community.

- Is this project a suburban connector? The interchange is not a suburban connector, however, it does provide better connection to arterial and collector roadways, which could be construed as a suburban connector from the suburban area of Brighton to the interstate system.
- Does the project address a gap in existing service? As development originally began in the early 2000's, the City of Brighton identified the prospect interchange for connection to the interstate system. An Environmental Assessment was completed, which also evaluated the existing interchange and connecting roadway systems at Bromley Lane and Baseline Road.
- Is this the logical next step of a project? The next logical step would be to proceed with design, currently budgeted for the 2020 fiscal year by the City of Brighton, followed by construction in about 5 years, contingent on available funds. The City of Brighton currently has significant traffic impact fees, which would be subject to contribution towards the interchange at Bridge Street & I76.
- Is the project construction ready?

The project is not construction ready, as plans need to be designed and reviewed, in addition to submittals to CDOT for review and approval prior to construction. There will also be a traffic signal to be eventually added just west of the future interchange to help mitigate traffic flows, which is planned for around 2022 and will be budgeted fully by the City of Brighton. This signal was also identified in the Environmental Assessment.

Applicants should provide an attachment to the application to address these additional considerations.

Part 4

Project Data Worksheet – Calculations and Estimates

(Complete all subsections applicable to the project)

A. Transit Use

- 1. Current ridership weekday boardings
- **2.** Population and Employment

N/A

Total Pop and Employ within 1 mile	Employment within 1 mile	Population within 1 mile	Year
N/A	N/A	N/A	2020
N/A	N/A	N/A	2040

	Transit Use Calculations	Year of Opening	2040 Weekday Estimate
3.	Enter estimated additional daily transit boardings after project is completed. (Using 50% growth above year of opening for 2040 value, unless justified) Provide supporting documentation as part of application submittal	0	0
4.	Enter number of the additional transit boardings (from #3 above) that were previously using a different transit route. (Example: {#3 X 25%} or other percent, if justified)	0	0
5.	Enter number of the new transit boardings (from #3 above) that were previously using other non-SOV modes (walk, bicycle, HOV, etc.) (Example: {#3 X 25%} or other percent, if justified)	0	0
6.	= Number of SOV one-way trips reduced per day $(#3 - #4 - #5)$	0	0
7.	Enter the value of {#6 x 9 miles} . (= the VMT reduced per day) (Values other than the default 9 miles must be justified by sponsor; e.g., 15 miles for regional service or 6 miles for local service)	0	0
8.	= Number of pounds GHG emissions reduced (#7 x 0.95 lbs.)	0	0
9.	If values would be distinctly greater for weekends, describe the magnitu N/A	de of difference:	

10. If different values other than the suggested are used, please explain here:

N/A

Biovelo Llee

D.	Dicycle Use	
1.	Current weekday bicyclists	0
2.	Population and Employment	

Year	Population within 1 mile	Employment within 1 mile	Total Pop and Employ within 1 mile
2020	0	0	0
2040	0	0	0

	Bicycle Use Calculations	Year of Opening	2040 Weekday Estimate
3.	Enter estimated additional weekday one-way bicycle trips on the facility after project is completed.	0	0
4.	Enter number of the bicycle trips (in #3 above) that will be diverting from a different bicycling route. (Example: {#3 X 50%} or other percent, if justified)	0	0

5.	= Initial number of new bicycle trips from project (#3 – #4)	0	0	
6.	Enter number of the new trips produced (from #5 above) that are replacing an SOV trip. (Example: {#5 X 30%} (or other percent, if justified)	0	0	
7.	= Number of SOV trips reduced per day (#5 - #6)	0	0	
8.	Enter the value of {#7 x 2 miles} . (= the VMT reduced per day) (Values other than 2 miles must be justified by sponsor)	0	0	
9.	= Number of pounds GHG emissions reduced (#8 x 0.95 lbs.)	0	0	
10.	If values would be distinctly greater for weekends, describe the magnit	ude of difference:		
	N/A			
11. If different values other than the suggested are used, please explain here:				

N/A

C. Pedestrian Use

1.	Current weekday pedestrians (include users of all non-pedaled devices)	0
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2. Population and Employment

Year	Population within 1 mile	Employment within 1 mile	Total Pop and Employ within 1 mile
2020	0	0	0
2040	0	0	0

	Pedestrian Use Calculations	Year of Opening	2040 Weekday Estimate
3.	Enter estimated additional weekday pedestrian one-way trips on the facility after project is completed	0	0
4.	Enter number of the new pedestrian trips (in #3 above) that will be diverting from a different walking route (Example: {#3 X 50%} or other percent, if justified)	0	0
5.	= Number of new trips from project (#3 – #4)	0	0
6.	Enter number of the new trips produced (from #5 above) that are replacing an SOV trip. (Example: {#5 X 30%} or other percent, if justified)	0	0
7.	= Number of SOV trips reduced per day (#5 - #6)	0	0
12.	Enter the value of {#7 x .4 miles} . (= the VMT reduced per day) (Values other than .4 miles must be justified by sponsor)	0	0
8.	= Number of pounds GHG emissions reduced (#8 x 0.95 lbs.)	0	0
9.	If values would be distinctly greater for weekends, describe the magnitude	tude of difference:	

10. If different values other than the suggested are used, please explain here:

D. Vulnerable Populations			
	Vulnerable Populations	Population within 1 mile	
	1. Persons over age 65	0	
Use Current	2. Minority persons	0	
Census Data	3. Low-Income households	0	
	4. Linguistically-challenged persons	0	
	5. Individuals with disabilities	0	
	6. Households without a motor vehicle	0	
	7. Children ages 6-17	0	
	8. Health service facilities served by project	0	

E. Travel Delay (Operational and Congestion Reduction)

Sponsor must use industry standard Highway Capacity Manual (HCM) based software programs and procedures as a basis to calculate estimated weekday travel delay benefits. *DRCOG staff may be able to use the Regional Travel Model to develop estimates for certain types of large-scale projects.*

1.	aily traffic volume) on applicable segments 36,000
2.	81,000
3.	le hours of delay (VHD) (before project) 81.2 (2,596.4)
3.	le hours of delay (VHD) (before project) 81 (2,596.4)

	Travel Delay Calculations	Year of Opening
4.	Enter calculated future weekday VHD (after project)	12.5 (817.3)
5.	Enter value of {#3 - #4} = Reduced VHD (Using Bridge Street Projected)	68.7 (1,779.1)
6.	Enter value of {#5 X 1.4} = Reduced person hours of delay (Value higher than 1.4 due to high transit ridership must be justified by sponsor)	96.18 (2,490.74)
7.	After project peak hour congested average travel time reduction per vehicle (includes persons, transit passengers, freight, and service equipment carried by vehicles). If applicable, denote unique travel time reduction for certain types of vehicles	3 minutes

- If values would be distinctly different for weekend days or special events, describe the magnitude of difference.
 N/A
- 9. If different values other than the suggested are used, please explain here: The after project completion VHD on line 4 was for Bridge Street only. The better comparison would be the 2035 no action and the 2035 preferred alternative, which is 2,596.4 (no action) vs. 817.3 (action), which are shown in parentheses on each of those line items. Given the environmental assessment was conducted using 2013 numbers and project 2035 figures, it is being proposed to use the study projects for 2035.
- F. Traffic Crash Reduction

1.	Provide the current number of crashes involving motor vehicle and pedestrians (most recent 5-year period of data)	es, bicyclists,		
	Fatal crashes	2		
	Serious Injury crashes	N/A	Sponsor mus	t use industry
	Other Injury crashes	N/A	accepted cra	sh reduction factors
	Property Damage Only crashes	N/A	(CRF) or accid	dent modification
2.	Estimated reduction in crashes <u>applicable to the project scope</u> (per the five-year period used above)	<u>.</u>	factor (AMF)	practices (<i>e.g.,</i> <i>ct 17-25, NCHRP</i>
	Fatal crashes reduced	N/A	methodoloav	or DIEXSYS 1).
	Serious Injury crashes reduced	N/A	,	,
	Other Injury crashes reduced	N/A		
	Property Damage Only crashes reduced	N/A		
G.	Facility Condition			
	Sponsor must use a current industry-accepted pavement of average condition across all sections of pavement being re Applicants will rate as: Excellent, Good, Fair, or Poor	condition metho placed or modif	d or system an ied.	d calculate the
Ro	adway Pavement			
1.	Current roadway pavement condition			Good-Fair
2.	Describe current pavement issues and how the project will ad	dress them.		
	The pavement would be milled and overlaid and re-constructe simply be new infrastructure.	d where necessa	ary. Many com	ponents would
3.	Average Daily User Volume			7,000
Bic	ycle/Pedestrian/Other Facility			
4.	Current bicycle/pedestrian/other facility condition			Not Existing
5.	Describe current condition issues and how the project will add	dress them.		
	There will be addition of pedestrian/trails to connect into reginal located to the west.	onal and existing	infrastructure	, which is primarily
6.	Average Daily User Volume			0
н.	Bridge Improvements			
1.	Current bridge structural condition from CDOT			
	Good			
2.	Describe current condition issues and how the project will add	dress them.		
	Maintenance activities only. The existing bridge infrastructure interchange, creating substantial value engineering, where mo infrastructure work, such as Bromley and US 85 in the City of E	would be incorp ost interchange p Brighton, which h	orated into th rojects require has a project co	e design of the e substantial bridge ost of nearly four

times.

3.	Other functional obsolescence issues to be addressed by project N/A	
4.	Average Daily User Volume over bridge	2,000
Ι.	Other Beneficial Variables (identified and calculated by the sponsor)	
1.	Benefit of pursing the project in advance to waiting for excessive congestion, resulting in add alternative interchange routes.	itional costs for
2.	to calculate, however assuming a 3% to 4% annual cost increase, the grand total savings coul \$400,000 to \$500,000 of construction costs saving, based on a \$15,000,000 project.	d approach
3.		
J.	Disbenefits or Negative Impacts (identified and calculated by the sponsor)	
J. 1.	Disbenefits or Negative Impacts (identified and calculated by the sponsor) Increase in VMT? If yes, describe scale of expected increase	🗌 Yes 🛛 No
J. 1.	Disbenefits or Negative Impacts (identified and calculated by the sponsor) Increase in VMT? If yes, describe scale of expected increase N/A	🗌 Yes 🛛 No
J. 1. 2.	Disbenefits or Negative Impacts (identified and calculated by the sponsor) Increase in VMT? If yes, describe scale of expected increase N/A Negative impact on vulnerable populations	🗌 Yes 🛛 No
J. 1. 2.	Disbenefits or Negative Impacts (identified and calculated by the sponsor) Increase in VMT? If yes, describe scale of expected increase N/A Negative impact on vulnerable populations Even with the interstate improvement, there currently is not transit located in the area. Othe travel alternatives are more desired, but not available at this time.	☐ Yes 🛛 No r more feasible
J. 1. 2. 3.	Disbenefits or Negative Impacts (identified and calculated by the sponsor) Increase in VMT? If yes, describe scale of expected increase N/A Negative impact on vulnerable populations Even with the interstate improvement, there currently is not transit located in the area. Othe travel alternatives are more desired, but not available at this time. Other:	☐ Yes 🛛 No r more feasible