INFORMATION ITEM

DATE:	July 29, 2021
TO:	Technical Advisory Committee
PREPARED BY:	Joe Barbeau, Senior Planner (651-602-1705) Steve Peterson, Manager of Highway Planning and TAC/TAB Process (651-602-1819) Elaine Koutsoukos, TAB Coordinator (651-602-1717)
SUBJECT:	2022 Regional Solicitation: Potential Roadway Measure Changes

Through the surveys and meeting discussions, partners and applicants had comments on specific scoring measures, particularly new measures. Last month focused on a series of potential measure changes such as those under Risk Assessment. This month staff will recap discussions at various committee levels and then concentrate on any potential changes to the four roadway applications.

1. Pedestrian Safety Measure in Roadway Applications (Strategic Capacity, Modernization, and Spot Mobility and Safety)

In the previous solicitation, three of the Roadway categories (Strategic Capacity, Modernization, and Spot Mobility and Safety) had the following pedestrian safety measure:

"Discuss how the project will improve safety for pedestrians. Safety countermeasures for pedestrians can include those identified by the FHWA as part of its Safe Transportation for Every Pedestrian program or others in its Proven Safety Countermeasures (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals). More information about pedestrian safety best practices is also available in MnDOT's Best Practices for Pedestrian/Bicycle Safety.

SCORING GUIDANCE (30 Points)

The project that will provide the most improvement to pedestrian safety will receive full points. Remaining projects will receive a share of the full points at the scorer's discretion."

The following proposal would replace this existing measure in these three application categories. The first part identifies projects that are largely not intended to benefit pedestrians and assigns a score of zero for the overall worksheet without applicants having to complete the remainder. There are then three sub-measures. The first is centered on how the project's design will impact pedestrian safety, including specific pedestrian safety countermeasures as well as any added risks and mitigation that is introduced from the project's design. The other two sub-measures evaluate existing safety risk and exposure factors, based on trends and patterns identified in crash data analysis done as part of the Regional Pedestrian Safety Action Plan.

The included scoring guidance assumes that overall pedestrian safety measure weighting will remain unchanged from the previous application cycle.

Determine if these measures do not apply to your project.

Does the project match either of the following descriptions?

- □ Project is primarily a freeway (or transitioning to a freeway) **and** does not provide safe and comfortable pedestrian facilities and crossings.
- □ Existing location lacks any pedestrian facilities (e.g., sidewalks, marked crossings, wide shoulders in rural contexts) **and** project does not add pedestrian elements (e.g., reconstruction of a roadway without sidewalks, that doesn't also add pedestrian crossings and sidewalk or sidepath on one or both sides).

If either of the items above are checked, then **score for entire pedestrian safety measure is zero**. Applicant does not need to respond to the sub-measures and can proceed to the next section.

SUB-MEASURE 1: Project-Based Pedestrian Safety Enhancements and Risk Elements

To receive maximum points in this category, pedestrian safety countermeasures selected for implementation in projects should be, to the greatest extent feasible, consistent with the countermeasure recommendations in the Regional Pedestrian Safety Action Plan and state and national best practices. Links to resources are provided on the Regional Solicitation Resources web page.

Please answer the following two questions with as much detail as possible based on the known attributes of the proposed design. If any aspect referenced in this section is not yet determined, describe the range of options being considered, to the greatest extent available. If there are project elements that may increase pedestrian risk, describe how these risks are being mitigated.

• Describe how this project will address the safety needs of people crossing the street at signalized intersections, unsignalized intersections, midblock locations, and roundabouts.

Treatments and countermeasures should be well-matched to the roadway's context (e.g., appropriate for the speed, volume, crossing distance, and other location attributes). Refer to the Regional Solicitation Resources web page for guidance links. (Limit 2,800 characters; approximately 400 words)

Considerations

Is the distance in between signalized intersections increasing (e.g., removing a signal)?

- No
 - Yes. If yes, describe what measures are being used to fill the gap between protected crossing opportunities for pedestrians (e.g., adding High-Intensity Activated Crosswalk beacons to help motorists yield and help pedestrians find a suitable gap for crossing, turning signal into a roundabout to slow motorist speed, etc.). (Limit 1,400 characters; approximately 200 words)

- Will your design increase the crossing distance or crossing time across any leg of an intersection? (e.g., by adding turn or through lanes, widening lanes, using a multi-phase crossing, prohibiting crossing on any leg of an intersection, pedestrian bridge requiring length detour, etc.). This does not include any increases to crossing distances solely due to the addition of bike lanes (i.e., no other through or turn lanes being added or widened).
 - No
 - Yes. If yes:
 - How many intersections will likely be affected?
 - Describe what measures are being used to reduce exposure and delay for pedestrians (e.g., median crossing islands, curb bulbouts, etc.) (Limit 1,400 characters; approximately 200 words)
 - If grade separated pedestrian crossings are being added and increasing crossing time, describe any features that are included that will reduce the detour required of pedestrians and make the separated crossing a more appealing option (e.g., shallow tunnel that doesn't require much elevation change instead of pedestrian bridge with numerous switchbacks). (Limit 1,400 characters; approximately 200 words):
- If mid-block crossings are restricted or blocked, explain why this is necessary and how pedestrian crossing needs and safety are supported in other ways (e.g., nearest protected or enhanced crossing opportunity). (Limit 1,400 characters; approximately 200 words)
- Describe how motorist speed will be managed in the project design, both for through traffic and turning movements. Describe any project-related factors that may affect speed directly or indirectly, even if speed is not the intended outcome (e.g., wider lanes and turning radii to facilitate freight movements, adding turn lanes to alleviate peak hour congestion, etc.). Note any strategies or treatments being considered that are intended to help motorists drive slower (e.g., visual narrowing, narrow lanes, truck aprons to mitigate wide turning radii, etc.) or protect pedestrians if increasing motorist speed (e.g. buffers or other separation from moving vehicles, crossing treatments appropriate for higher speed roadways, etc.). (Limit 2,800 characters; approximately 400 words)

 If known, what are the existing and proposed design, operation, and posted speeds? Is this an increase or decrease from existing conditions? (Limit 1,400 characters; approximately 200 words)

SCORING GUIDANCE (X Points)

Projects that will provide the most improvement to pedestrian safety across the two questions will receive full points. Other projects will receive a share of the full points, based on scorer's discretion, considering the following scoring guidance. Weight the responses to each of these questions equally and consider them cumulatively when scoring. If mid-block crossings are not applicable for the project, and the applicant's explanation adequately shows that pedestrian needs are still being safely met, do not penalize the applicant.

See the FHWA STEP Studio resource, FHWA STEP Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations, NCHRP Report 926: Guidance to Improving Pedestrian and Bicyclist Safety at Intersections, and related resources referenced in the application prompt for state-of-practice guidance on pedestrian-oriented safety design and treatments.

Assume that pedestrians may need to travel along and across the entire extent of the project, and evaluate how well the pedestrian safety countermeasures described serve those needs. Projects that serve those needs with the greatest safety and least pedestrian delay, detour, or discomfort should score highest. For example, projects that provide safe at-grade crossings or comfortable tunnels with minimal detour and elevation change should score higher than projects that include pedestrian bridges requiring lengthy detours and elevation change. Projects that provide frequent crossing opportunities or crossing opportunities well-aligned with transit or other likely places with pedestrian crossing needs should score higher than projects that have infrequent or non-existent protected crossings.

Consider how safely, easily, and comfortably children, older adults, and people with disabilities will be able to navigate crossing the street. Score projects more highly if the safety countermeasures selected are designed to be comfortably used by people of all ages and abilities.

Consider pedestrian-oriented safety treatments in context with motor vehicle design elements. If there are motor vehicle design elements that raise concerns about pedestrian safety (e.g., increased speed, increased crossing distance) that are not fully mitigated by the pedestrian safety countermeasures described, consider a lower score. For roadway expansion projects, where all projects *by definition* will be increasing crossing distance, consider how much additional distance is added as well as the types of countermeasures being considered. If the only element causing an increase in crossing distance is the addition of bike lanes or other bike facilities, especially if the project has reduced other elements to help mitigate this impact (e.g., reducing through lane widths), do not penalize the score for the crossing distance attributable to bike lanes.

Regardless of the speed limit, score projects more highly if they include design elements to help motorists drive slowly. For example, narrow lanes, visual narrowing, and elements to help motorists turn slowly, such as tight turning/corner radius or truck aprons, curb extensions, medians/crossing islands, and hardened centerlines.

SUB-MEASURE 2: Existing Location-Based Pedestrian Safety Risk Factors

These factors are based on based on trends and patterns observed in pedestrian crash analysis done for the Regional Pedestrian Safety Action Plan. Check off how many of the following factors are present. Applicants receive more points if more risk factors are present.

- Existing road configuration is **<u>either</u>**:
 - o One-way, 3+ through lanes
 - Two-way, 4+ through lanes
- Existing road has a design speed, posted speed limit, or speed study/data showing 85th percentile travel speeds in excess of:
 - o 30 MPH or more
- Existing road has AADT of greater than 15,000 vehicles per day (List the AADT_____)

SCORING GUIDANCE (X Points)

Multiply the score from Sub-Measure 1 by the proportion of risk factors indicated to calculate the number of points earned for Sub-Measure 2. Applications where all three factors are present score additional points equal to 100% of their Sub-Measure 1 score. Applications where two of the three factors are present score additional points equal to 2/3 (or 67%) of their Sub-Measure 1 score. And so on. To earn the maximum possible score on Sub-Measure 2, a project would need to earn maximum points on Sub-Measure 1 and also have all 3 risk factors present.

SUB-MEASURE 3: Existing Location-Based Pedestrian Safety Exposure Factors

These factors are based on based on trends and patterns observed in pedestrian crash analysis done for the Regional Pedestrian Safety Action Plan. Check off how many of the following existing location exposure factors are present. Applicants receive more points if more risk factors are present.

- Existing road has transit running on or across it with 1+ transit stops in the project area
- Existing road has High Frequency transit running on or across it and 1+ High Frequency stops in the project area
- Existing road is within 500' of 1+ shopping, dining, or entertainment destinations (e.g., grocery store, restaurant)

If yes, please describe (Limit 1,400 characters; approximately 200 words):

□ Existing road is within 500' of other known pedestrian generators (e.g., school, civic/community center, senior housing, multifamily housing, regulatorily designated affordable housing)

If yes, please describe (Limit 1,400 characters; approximately 200 words):

SCORING GUIDANCE (X Points)

Multiply the score from Sub-Measure 1 by the proportion of exposure factors indicated to calculate the number of points earned for Sub-Measure 3. Applications where all four factors are present score additional points equal to 100% of their Sub-Measure 1 score. Applications where two of the four factors are present score additional points equal to 2/4 (or 50%) of their Sub-Measure 1 score. And so on. To earn the maximum possible score on Sub-Measure 3 a project would need to earn maximum points on Sub-Measure 1 and also have all 4 exposure factors present.

Proposed Scoring / Weighting

The current pedestrian safety measure is weighted as 30 points for roadway strategic capacity and roadway reconstruction projects, and 50 points for spot mobility & safety projects. Submeasures 2 and 3 are scored by multiplying a percentage ranging from 0-100% by the score earned in sub-measure 1, so all three of these elements are effectively weighted equally. If this measure replaces the existing measure and keeps the same number of points, consider weighting each sub-measure equally in the worksheet as follows:

Sub-Measure	Points Distribution – Roadway Strategic Capacity and Roadway Modernization	Points Distribution – Spot Mobility & Safety
SUB-MEASURE 1: Project-Based Pedestrian Safety Enhancements	10	16.67
SUB-MEASURE 2: Existing Location-Based Pedestrian Safety Risk Factors	10	16.67
SUB-MEASURE 3: Existing Location-Based Pedestrian Safety Exposure Factors	10	16.67
TOTAL POINTS	30	50

Funding & Programming Committee Comments

At its July 22, 2021 meeting, members provided the following comments:

• The proposed measure will require a lot of work for few points, along with a lot of scorer interpretation and discretion.

- Basing the measure on easy-to-obtain checkboxes would not address the trend of increasing pedestrian-related crashes.
- New roadways would have a difficult time scoring points in sub-measures 1 and 2.
- Sub-measures 2 and 3 may need simplification. Also:
 - Sub-measure 2 may not lead to very much differentiation since most of the eligible roadways are four lanes with speeds above 35 mph.
 - In sub-measure 3, the Urban Center Thrive community checkbox is redundant with transit checkboxes.
- Overall, members were supportive, but encouraged simplification of the measure. The above draft measure reflects this and other discussion in the following ways:
 - One of the original four questions in sub-measure 1 was removed, while two more were combined.
 - o In sub-measure 2, the AADT threshold has been increased from 7,000 to 15,000.
 - In sub-measure 2, the speed threshold was standardized at 30 mph; it had been 30 mph for Urban Center communities and 35 mph for others
 - In sub-measure 3, a checkbox awarding points for inclusion in an Urban Center Thrive community has been removed

2. Traffic Counts and Transit Usage

Usage is a criterion in four of the five roadway applications. Project sponsors are asked to use MnDOT traffic maps and transit ridership data as part of an equation that yields person throughput. Traffic counts are typically completed on roadways once every three years.

Given the dramatic decline in traffic volumes, particularly in 2020, should applicants be able to use an older count? This approach would allow for a fairer comparison between projects, so one project is not using a 2019 count (pre-COVID 19) when traffic counts were normal, while another project is using a 2020 count (during the height of COVID when traffic counts were greatly diminished). Similarly, should applicants use 2019 transit ridership numbers given the dramatic changes in transit ridership in 2020 and 2021? Some of these topics were discussed by the Transit Work Group on July 28. Any feedback from this group will be discussed at TAC.

Usage

This criterion quantifies the project's potential impact by measuring the current daily person throughput and future vehicular traffic that will be served by the project. These roadway users directly benefit from the project improvements.

- A. MEASURE: Metropolitan Council staff will calculate the current daily person throughput at one location along the A-minor arterial or non-freeway principal arterial project length using the current average annual daily traffic (AADT) volume and average daily transit ridership. If more than one corridor or location is included in the project, then the applicant should select the corridor where the most investment is being made with the project. The applicant must identify the location along the project length and provide the current AADT volume from the <u>MnDOT Traffic Mapping Application</u>. Due to the potential timing issues with when a traffic count was taken relative to the COVID-19 pandemic (and resulting drop in traffic volumes), applicants may also use a historic AADT volume from the MnDOT Traffic Mapping Application (instructions under the Help Document). Reference the "Transit Connections" map for transit routes along the project. Ridership data will be provided by the Metropolitan Council staff, if public transit is currently provided on the project length. (85 points)
- Current Daily Person Throughput = (current average annual daily traffic volume x 1.30 vehicle occupancy) + average annual daily transit ridership (2019)

RESPONSE:

- Location:
- Current AADT volume:_____
- Existing transit routes at the location noted above:______

Upload the "Transit Connections" map.

Funding & Programming Committee Comments

At its July 22, 2021 meeting, members provided the following comments:

- Similar consideration should be given to transit ridership data, particularly for transit expansion projects meant to improve frequency. It will be difficult to use 2019 data to project future ridership, but it might still be better than using 2020 transit ridership due to the dramatic drop in service. See pages 9 and 10 for proposed changes in response to this discussion.
- Regional Solicitation language should provide clear guidance.

Proposed Edits to Regional Solicitation Scoring – Measures Impacted by Transit

Transit Expansion

Measure 2A – Urban and Suburban Local Routes... (Existing)

Use peer routes that are currently in service to develop a ridership estimate for the third year of service. Applicants must use the most recent annual ridership figures that are available. To select the peer routes, the applicant should identify routes in the same transit market area (as defined in the 2040 Transportation Policy Plan), or routes that serve locations with similar development patterns. Applicants must use the average passengers per service hour of at least three peer routes to apply a rate of ridership for the proposed service project. Additionally, describe how a peer route was selected in the response and any assumptions used.

Measure 2A – Urban and Suburban Local Routes... (Proposed)

Use peer routes that are currently in service to develop a ridership estimate for the third year of service. To account for impacts of the COVID-19 pandemic while still recognizing the resiliency of certain routes through 2020, applicants will use their best judgement to choose annual ridership figures from 2019 or 2020. The year chosen should be appropriate to the proposed service. To select the peer routes, the applicant should identify routes in the same transit market area (as defined in the 2040 Transportation Policy Plan), or routes that serve locations with similar development patterns. Applicants must use the average passengers per service hour of at least three peer routes to apply a rate of ridership for the proposed service project. The route proposed for expansion and all three routes must use the same year's annual ridership. Additionally, describe how a peer route was selected in the response and any assumptions used. The applicant must also explain why they chose a given year for their forecast.

Transit Modernization

Measure 2B (Existing)

The applicant with the highest existing annual ridership will receive the full points. Remaining projects will receive a proportionate share of the full points equal to the existing ridership of the project being scored divided by the project with the highest existing ridership multiplied by the maximum points available for the measure (325). For example, if the application being scored had ridership of 1,000 riders and the top project had a ridership of 1,500 riders, this applicant would receive (1,000/1,500)*325 points or 217 points.

Measure 2B (Proposed)

The applicant with the highest existing annual ridership will receive the full points. To account for the impacts of the COVID-19 pandemic while still recognizing the resiliency of certain routes through 2020, annual ridership will be based on a weighted average of 2019 and 2020 annual ridership. The weighted average will be based on the following formula:

(2019 Annual Ridership x 0.75) + (2020 Annual Ridership x 0.25)

Remaining projects will receive a proportionate share of the full points equal to the existing ridership of the project being scored divided by the project with the highest existing ridership multiplied by the maximum points available for the measure (325). For example, if the application being scored had ridership of 1,000 riders and the top project had a ridership of 1,500 riders, this applicant would receive (1,000/1,500)*325 points or 217 points.



Transit Expansion & Modernization

Measure 1B (Existing)

The applicant with route connections having the highest number of weekday trips will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had connecting ridership of 100 trips and the top project had 150 trips, this applicant would receive (100/150)*35 points or 23 points.

Measure 1B (Proposed)

The applicant with route connections having the highest number of weekday trips will receive the full points. To account for the impacts of the COVID-19 pandemic while still recognizing the resiliency of certain routes through 2020, average weekday trips will be based on a weighted average of 2019 and 2020 trips. The weighted average will be based on the following formula: (Average 2019 Weekday Trips x 0.75) + (Average 2020 Weekday Trips x 0.25)

Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had connecting **ridership** <u>service</u> of 100 trips and the top project had 150 trips, this applicant would receive (100/150)*35 points or 23 points.

3. Potential Point Changes in Spot Mobility and Safety (Pages 13 and 40)

Technical committee members discussed the possibility of increasing the number of Safety points in the Spot Mobility and Safety application category to reflect the increasing number of fatalities on the transportation system relative to past years. One TAC member proposed reallocating the number of points between safety and congestion/air quality by giving 2/3 of the points to safety, and the remaining 1/3 to congestion/air quality (see the Spot Mobility and Safety application cover page for details). This idea will be brought to TAB on July 21st and then any TAB feedback will be brought the following day to this committee. If the concept is generally accepted by TAB, staff requests TAC Funding & Programming feedback on how to allocate the change of points within each criterion (since there are two measures in both Safety and Congestion/Air Quality). As currently shown, the increase in points is applied to the "crashes reduced" measure since the "pedestrian safety" measure will likely be brand new and staff would like to see how it plays out. Points are shown to be removed from the two measures in Congestion/Air Quality in a manner that is proportional to their existing distribution and relative weighting.

Funding & Programming Committee Comments

At its July 22, 2021 meeting, members supported increasing the value for safety, preferring Option 3 for the following reasons:

- While increasing the value of safety was supported, members still value vehicle delay (Option 1) since this is one of the two primary reasons for the Spot Mobility and Safety application category.
- Risk assessment (Option 2) still applies to spot mobility and safety projects, particularly in the case of roundabouts, which tend to necessitate right-of-way acquisition.
- The Truck Corridor Study Tiers measure (Option 3) is not as pertinent to these smaller, at-grade intersection improvement projects as noted in the surveys, so would be a better place for a point reduction.

4. Crash Modification Factors (Pages14-18)

Proposed new text is shown in roadway measures that states: "As part of the Regional Solicitation Before & After Study, Phase 2 (2021), a list of commonly used crash modification factors was created. Applicants have the option to use these crash modification factors (posted on the Metropolitan Council's Regional Solicitation website, under Application Resources) or find a more appropriate one on FHWA's Clearinghouse."

Funding & Programming Committee Comments

At its July 22, 2021 meeting, members supported this effort. Theynoted that the list may need to be refreshed before each funding cycle.

5. Equity and Affordable Housing (Pages 19-22)

In previous cycles, the "Equity and Affordable Housing" criterion has been split into one measure from each topic. The attached proposed changes combine them more holistically into one measure containing three measures, along with a fourth for bonus points. The measure are:

- 1. Equity Population Engagement (30%). This was used for socio-economic equity over the past two cycles and would now apply to housing.
- 2. Equity Population Benefits and Impacts (40%). This reflects the evolving primary measure used for the socio-economic equity in recent cycles. The ability to deduct points for negative impacts is removed.
- 3. Affordable Housing Access (30%). This is similar to the new affordable housing access sub-measure established in 2020, though the data will be provided in the mapping tool.

- 4. Bonus points. This was used in 2020 for the socio-economic measure and will apply to the three above measures, encompassing housing for the first time. Bonus points will be assigned as follows, based on the highest-scoring geography the project contacts:
 - a. 25 points to projects within an Area of Concentrated Poverty with 50% or more people of color
 - b. 2025 points to projects within an Area of Concentrated Poverty
 - c. 15 points to projects within census tracts with the percent of population in poverty or population of color above the regional average percent
 - d. 10 points for all other areas

Several changes are reflected in the above (and attached associated language). The term "elderly" has been changed to "older adults" to reflect current terminology. Regarding the bonus points, Council has discontinued use of the geography titled "Area of Concentrated Poverty where 50% or more of residents are people of color."

Prior to 2020, housing was entirely scored with the Housing Performance Score (HPS). This was used as a "carrot" to entice applicants to improve affordable housing policy. The Metropolitan Council's Community Development staff, however, does not think that this is a successful strategy. For 2020, 20% of the housing score was dedicated to a more project-specific qualitative element (Connection to Affordable Housing).

Describe and map any affordable housing developments— planned, under construction or existing, within ½ mile of the proposed project. The applicant should note the development stage, number of units, number of bedrooms per unit, and level of affordability using 2019 affordability limits. Also note whether the affordability is guaranteed through funding restrictions (i.e. LIHTC, 4d) or is unsubsidized, if housing choice vouchers are/will be accepted, and if there is a fair housing marketing plan required or in place.

Describe how the proposed project will improve or impact access for residents of the affordable housing locations within ½ mile of the project. This should include a description of improved access by all modes, automobiles, transit, bicycle and pedestrian access. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements.

Applicants found it difficult to find all the information being requested. This is particularly true for transit projects that have several stops/stations. Similarly, this was difficult for TDM applicants, who tend not to be connected to housing data. As referenced above, this will be addressed by placing data into the maps generated by the application process.

Funding & Programming Committee Comments

At its July 22, 2021 meeting, members supported this effort, adding the following comments:

- Members are interested in training options for applicants.
- Care should be taken that the character limit does not hinder appropriate responses.
- The half-mile housing buffer might not be as appropriate in rural and suburban areas, where projects tend to impact people further away.

Spot Mobility and Safety Scoring Changes Options

		Exis	ting	Opti	ion 1	Opti	ion 2	Opt	ion 3
Criteri	a and Measures	Pts	% of Total Pts						
1.	Role in the Regional Transportation System and Economy	175	16%	175	16%	175	16%	115	10%
	Measure A - Congestion within the Project Area, Level of Adjacent Congestion, Principal Arterial Intersection Conversion Study Priorities, or CMSP	100		100		100		70	
	Measure B - Regional Truck Corridor	75		75		75		45	
2.	Equity and Housing Performance	100	9%	100	9%	100	9%	100	3%
	Measure A - Benefits and outreach to disadvantaged	50		50		50		50	
	Measure B - Affordable housing connection	50		50		50		50	
3.	Congestion Reduction/Air Quality	275	25%	215	20%	275	25%	275	25%
	Measure A - Vehicle delay reduced	200	(140		200		200	
	Measure B - Kg of emissions reduced	75		75		75		75	
4.	Safety	275	25%	335	30%	335	30%	335	30%
	Measure A - Crashes reduced	225		235		235		235	
	Measure B - Pedestrian Crash Reduction	50		100		100		100	
5.	Multimodal Elements and Existing Connections	100	9%	100	9%	100	9%	100	9%
	Measure A - Transit, bicycle, or pedestrian project elements & connections	100		100		100	_	100	
6.	Risk Assessment	75	7%	75	7%	15	1%	75	7%
	Measure A - Risk Assessment Form	75		75		15		75	
7.	Cost Effectiveness	100	9%	100	9%	100	9%	100	9%
	Measure A - Cost effectiveness	100		100		100		100	
Total		1,100		1,100	-	1,100	-	1,100	



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MEMORANDUM

Date:	December 16 th , 2020
To:	Derek Leuer, P.EMnDOT
From:	Ross Tillman, P.E.
	Chloe Weber, EIT
Subject:	Regional Solicitation Before and After Study Phase II: HSIP CMF Guide Project No.: T41.121214

Depending on staffing at various agencies who may apply for HSIP funds, the level of expertise in terms of safety analysis widely varies. In addition, there are times when two applications for a similar project will utilize different CMFs with varying levels of anticipated crash reductions. Based on these factors, there is a desire to simplify the process as well as consolidate a list of CMFs for use to the extent possible. Certain projects will always require further research and analysis using the Highway Safety Manual or CMF Clearinghouse, but a simple guide could satisfy the needs for most other projects.

Our team began by collecting the 2016 and 2018 HSIP project information. Frequency of CMFs utilized was determined as a starting point to understand which CMFs to include in an overall guide. See **Table 1**.

				CMF	Applied	per Category					
Lighting Improvement or Installation	Frequency	Roundabout Improvement or Construction	Frequency	Signal Improvements or Construction	Frequency	Turn Lane Construction	Frequency	Pedestrian Improvements	Frequency	Roadway Construction	Frequency
578	5	227	3	1414	3	3948	2	175	3	8111	1
192	1	228	3	1419	1	3950	1	4123	3	1967	4
193	1	229	1	1420	6	253	1			6942	1
433	3	207	1	1428	4	255	3			2265	3
		211	1	1485	3	268	2			2276	3
		230	1	2334	2	272	2			2841	2
		206	4	1993	3	287	2			6703	2
		210	1	4140	1	583	1			1516	1
		225	1	4177	3	8431	1				
		4699	1	8790	1						
		4700	2	5272	6						
		4927	1	6858	2						
				7684	3						
				7690	3						
				3072	1						
				8824	2						

Table 1: CMFs applied per category, from 2016 and 2018 application data

Ultimately, the team incorporated all the used CMFs into the guide based on relevancy and overall effort. This information was sorted by CMF to include and compare the details of the CMFs used in those years' HSIP applications. These details include the value of the CMF, the standard error, if it is listed in the HSM, the star rating, crash type, and crash severity. These details differentiate one CMF from the next and allow applicants to find the CMF that best fits the scenario of the project being applied for. From

Name:Regional Solicitation Before and After Study Phase II: HSIP CMF GuideDate:December 16, 2020Page:2

there, counterpart CMFs (rural vs. urban, for example) were added from the CMF Clearinghouse to round out the options one might want to consider when choosing a CMF for an HSIP application. The guide was split into two parts to differentiate between CMFs that apply to all/property damage only crashes and those that are focused on injury crashes only.

Lastly, the team developed a simple step by step list for use of the guide and application of CMFs, intended to go along with the guides in future HSIP applications as an attachment. This list walks users through the categories in the guide, as well as highlights specific measures to be aware of when choosing a CMF for a project.

Steps for using the CMF guides and applying CMFs:

- 1. Look through the project types and sub-types that may be applicable to the project
- 2. Consider additional qualifiers that may help fit the CMF to the project (often, these are existing conditions of what is to be improved)
- 3. Choose which area type the project exists in (Urban, Rural, Suburban, etc.)
- 4. Consider the crash types and crash severities
- 5. Select a CMF for use that best fit the project as well as context of the area. Some projects may require the use of multiple CMFs to best represent the improvements, although the use of more than two is not recommended for most HSIP projects
- 6. Ensure you are applying the CMF to the correct crash severities and types. CMFs that cover all severities and types should be used with caution
- 7. Ensure that the crashes utilized match the timeframe/conditions of the application. Use whole calendar years

See the attached CMF guide information which could be appended to future HSIP solicitation packets.

CMF Guide (All-Severity and Property Damage Only Crashes)

		патторстсу В	unnuge	Only crus					
Project Type	Additional Qualifiers	Area Type	CMF	Value	Adjusted Standard Error	Star Rating	In HSM?	Crash type	Crash Severity
		Pedestrian		•					
Median Construction	Marked, Uncontrolled Pedestrian Crossing	Urban/Suburban	175	0.54	0.48	3	No	Veh/Ped	All
Median Construction	Uncontrolled Pedestrian Crossing, Marked or Unmarked	Urban/Suburban	8800	0.742	NA	4	No	All	All
High Visibility Crosswalk	High Visibility Crosswalk	Urban	4123	0.6	NA	2	No	Veh/Ped	All
Install Shared Path	No Share Path Present	Urban	9250	0.75	NA	- 3	No	Veh/Bicycle	All
Install Bike Lanes	No Bike Facilities Present	Urban	2159	1.05	NA	3	No	All	All
Install Bike Lanes	No Bike Facilities Present	Urban	4658	0.855	NA	3	No	Veh/Ped	All
		d Conflict Intersections*	1000	0.000					
RCUT	Previously Signalized or Stop Controlled	All	10382	0.8	NA	4	No	All	All
RCUT	Previously Two Way Stop Controlled	All	10384	0.42	NA	4	No	All	All
J-Turn	Previously Two Way Stop Controlled	Rural	5555	0.652	NA	4	No	All	All
		Intersection	_	-					
Turn Lane	Install Left Turn Lane	Urban	3950	0.8	NA	3	No	All	PDO
Turn Lane	Install Left Turn Lane	Rural	7853	0.69	NA	2	No	All	All
Turn Lane	Left Turn Lane on One Major Approach	Rural	253	0.56	0.07	2	Yes	All	All
Turn Lane	Left Turn Lane on Both Major Approaches	Rural	268	0.52	0.04	4	Yes	All	All
Turn Lane	Two Way Left Turn Lanes	Rural	583	0.64	0.04	5	No	All	All
Turn Lane	Improve Angle of Channelized Right Turn Lane	Not Specified	8431	0.937	0.397	3	No	Right Turn, Other	All
Single Lane Roundabout		All	227	0.56	0.05	4	Yes	All	All
Single Lane Roundabout	Originally Stop Controlled Originally Stop Controlled	Rural	229	0.29	0.05	5	Yes	All	All
		Rural	229	0.29	0.05	5 4		All	All
Single Lane Roundabout	Originally Stop Controlled Originally Stop Controlled	Urban	207	0.42	0.13	4	No No	All	All
Single Lane Roundabout Single Lane Roundabout						4			
	Originally Signalized, Stop Controlled, and Non-Controlled	Rural	9333	0.48	NA	3	No	Other	All
Single Lane Roundabout	Originally Signalized	Rural	225 4699	0.52	0.06 NA	4	Yes No	All	All
Single Lane Roundabout	High Speed	All	4899	1.062	NA	4	No		All
Multi-Lane Roundabout	Originally No Control, Yield, TWSC, AWSC, or Signal Control Add Signal (Additional Primary Head)				NA	4		All	
Signal Head		Urban	1414	0.72		3	No	All	All
Signal Head	Add Signal (Additional Primary Head)	Urban	1419	0.65	NA	2	No	Angle	All
Signal Head	Add Signal (Additional Primary Head)	Urban	1416	0.69	NA	3	No	All	PDO All
Signal Head	Convert Signal From Pedestal-Mounted to Mast Arm	Not Specified All	1420	0.51 0.26	NA NA	3	No	All	All
Signal Head	Convert Signal From Pedestal-Mounted to Mast Arm	Urban	1428 1485	0.28	NA	3	No No	Angle	All
Signal Head	Add Signal (One Over Each Approach Lane)		2334	0.54		2		Angle	
Signal Head	Replace 8" Red with 12"	Not Specified	1993		NA NA	3	No No	Veh/Ped	All
Signal Phasing Intersection Traffic Control	Leading Pedestrian Interval Change Permissive Left to Protected or Protected/Permissive	Urban Urban	4140	0.413	NA	2	No	All	All
		Urban	4140	0.806	NA	2	No	Left Turn	All
Intersection Traffic Control	Change Protected/Permissive to Flashing Yellow Arrow		8790	0.808	NA	4			All
Intersection Traffic Control Intersection Traffic Control	Install Pedestrian Countdown Timer	Not Specified		0.912	NA	4	No No	All Veh/Ped	All
	Install Pedestrian Countdown Timer Install Adaptive Traffic Signal Control	Not Specified	5272 6858	0.3	NA	4	-	All	All
Intersection Traffic Control		Urban/Suburban				4	No		All
Intersection Traffic Control	Change from Permissive Only to Flashing Yellow Arrow Change from Protected Only to Flashing Yellow Arrow	Not Specified	7684 7690	0.598	NA NA	<u>ک</u> 4	No	Left Turn	All
Intersection Traffic Control		Not Specified		e^-0.0444(Y-X)	NA	4	No	All Rear End	All
Intersection Traffic Control Advanced Technology and ITS	Change Number of Traffic Signal Cycles Per Hour on Arterial with Signal Coordination From X to Y Install Red-Light Indicator Lights	Urban/Suburban	3072 8824	, ,	NA	3 4	No		All
		Not Specified		0.713		4	No	Other	
Access Management	Create Directional Median Openings to Allow Left-Turns and U-Turns	Not Specified Roadway	1516	0.49	NA	Z	No	All	All
	Illuncia di		400	0.52	0.25	2	N'		550
Lighting	Illumination	Not Specified	496	0.69	0.36	3	No	All	PDO
Lighting	Highway Lighting	All	193	0.83	0.07	4	Yes	Nighttime	PDO
Wet-Reflective Pavement Markings	Previously Standard Markings	Not Specified	8111	0.538	NA	4	No	Run Off Road	All
Median	Install Cable Median Barrier (High Tension)	Not Specified	1967	0.04	0.06	3	No	Cross Median, Frontal and Opposing Direction Sideswipe,	All
Install Centerline and Shoulder Rumble Strips	No Existing Rumble Strips	Rural	6942	0.653	NA	4	No	Head On All	All
Improve Pavement Friction	Increase Skid Resistance	All	2265	0.589	0.216	4	No	All	All
Improve Pavement Friction	Increase Skid Resistance	All	2205	0.304	0.216	3	No	Rear End	All
Road Diet	Previously Four Lane Undivided	Suburban	2276	0.304	0.086 NA	5	No	All	All
Road Diet	Previously Four Lane Undivided	Urban	5553	0.748	NA	4	No	All	All
	· · · · · · · · · · · · · · · · · · ·	oulder Treatments	5555	0.746	NA .	+	UV	All	All
								Fixed Object, Head on, Run Off	
Widen Shoulder	Previously Narrow Paved Shoulder	Rural	6703	0.67	NA	4	Yes***	Road, Sideswipe	PDO
*Minnesota study underway									

*Minnesota study underway

**Results in Minnesota have indicated an increase in crashes

***See section 13.4.2.4 in the HSM for additional shoulder CMF information

CMF Guide (Injury Crashes)

		<u> </u>							
Project Type	Additional Qualifiers	Area Type	CMF	Value	Adjusted Standard Error	Star Rating	In HSM?	Crash type	Crash Severity
rioject Type			Civil	Value	LIIOI	Star Nating	III II JIVI:	clash type	Clash Sevency
		Pedestrian							
Median Treatment for Ped/Bike Safety	Install Various Treatments Such as Fencing, Planters, Pedestrian Islands	Urban	9121	0.91	NA	4	No	All	К, А, В
Install Sidewalk	No Exisitng Sidewalk	Urban	9240	0.41	NA	2	No	Veh/Bicycle	К, А
Install Bike Lanes	No Bike Facilities Present	Urban	4660	0.946	NA	3	No	All	K, A, B, C
		Reduced Conflict Intersecti	ons*						
J-Turn	Previously Two Way Stop Controlled	Rural	5559	0.14	NA	2	No	All	А
		Intersection							
Turn Lane	Install Left Turn Lane	Urban	3948	0.79	NA	3	No	All	К, А, В, С
Turn Lane	Install Left Turn Lane	Rural	7852	0.73	NA	3	No	All	К, А, В, С
Turn Lane	Left Turn Lane on One Major Approach	Rural	255	0.45	0.1	4	Yes	All	K, A, B, C
Turn Lane	Left Turn Lane on Both Major Approaches	Rural	272	0.42	0.04	5	Yes	All	К, А, В, С
Turn Lane	Right Turn Lane on One Major Approach	All	287	0.77	0.08	4	Yes	All	К, А, В, С
Lighting	Provide Intersection Illumination	Not Specified	433	0.62	0.13	4	Yes	Nighttime	А, В, С
Single Lane Roundabout	Originally Stop Controlled	All	228	0.18	0.04	5	Yes	All	А, В, С
Single Lane Roundabout	Originally Stop Controlled	Rural	211	0.18	0.16	4	No	All	А, В, С
Single Lane Roundabout	Originally Stop Controlled	Rural	230	0.13	0.04	5	Yes	All	A, B, C
Single Lane Roundabout	Originally Stop Controlled	Urban	210	0.12	0.14	4	No	All	A, B, C
Single Lane Roundabout	High Speed	Rural	4700	0.11	NA	4	No	All	А, В, С
Multi-Lane Roundabout	Originally No Control, Yield, TWSC, AWSC, or Signal Control	All	4927	0.367	NA	4	No	All	К, А, В, С
Single or Multi-Lane Roundabout	Originally TWSC	All	4931	0.65	NA	4	No	All	К, А, В, С
Roundabout	Originally AWSC	All	4933	0.544	NA	3	No	All	К, А, В, С
Low Speed Roundabout	Originally No Control, Yield, TWSC, AWSC, or Signal Control	All	5228	0.473	NA	4	No	All	К, А, В, С
		Roadway							
Lighting	Illumination	Urban	578	0.69	0.07	4	No	All	А, В, С
Lighting	Illumination	All	571	0.31	0.36	3	No	All	К
Lighting	Highway Lighting	All	192	0.72	0.06	4	Yes	Nighttime	A, B, C
Median	Install Cable Median Barrier (High Tension)	Rural	8214	0.47	NA	3	No	Other	К, А
		Shoulder Treatments							
Widen Shouler	Previously Narrow Paved Shoulder	Urban	6705	0.74	NA	3	No	Fixed Object, Head on, Run Off Road, Sideswipe	А, В, С

*Minnesota study underway

3. Equity and Affordable Housing (100 Points)

This criterion addresses the <u>Council's role in advancing equity</u> by examining how a project directly benefits or impacts (positively and negatively) Black, Indigenous, and People of Color (BIPOC) populations, low-income populations, people with disabilities, youth, older adults, and residents of affordable housing. The criterion evaluates whether the applicant engaged these populations to identify transportation needs and potential solutions and how the project will address these identified needs. The criterion also evaluates a community's overall efforts to implement affordable housing and how the project improves multimodal access to affordable housing.

A. **MEASURE**: Engagement (0 to 30 points). This measure is a qualitative scoring measure.

A successful project is the result of active engagement of Black, Indigenous, and People of Color populations, low-income populations, persons with disabilities, youth, older adults, and residents in affordable housing. Engagement should occur prior to and during project development, with the intent to provide direct benefits or solve an expressed transportation issue, while also limiting and mitigating any negative impacts.

- i. Describe any Black, Indigenous, and People of Color populations, low-income populations, disabled populations, youth, or older adults within a ½ mile of the proposed project. Describe how these populations relate to regional context. Location of affordable housing will be addressed in Measure C.
- ii. Describe how Black, Indigenous, and People of Color populations, low-income populations, persons with disabilities, youth, older adults, and residents in affordable housing were engaged, whether through community planning efforts, project needs identification, or during the project development process.
- iii. Describe the progression of engagement activities in this project. A full response should answer these questions:
 - 1. What engagement methods and tools were used?
 - 2. How did you engage specific communities and populations likely to be directly impacted by the project?
 - 3. What techniques did you use to reach populations traditionally not involved in community engagement related to transportation projects?
 - 4. How were the project's purpose and need identified?
 - 5. How was the community engaged as the project was developed and designed?
 - 6. How did you provide multiple opportunities for of Black, Indigenous, and People of Color populations, low-income populations, persons with disabilities, youth, older adults, and residents in affordable housing to engage at different points of project development?
 - 7. How did engagement influence the project plans or recommendations? How did you share back findings with community and re-engage to assess responsiveness of these changes?
 - 8. If applicable, how will NEPA or Title VI regulations will guide engagement activities?

(Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (0 to 30 Points)

Each application will be qualitatively scored based on the available points and will receive the number of points awarded.

B. **MEASURE**: Equity Population Benefits and Impacts (0 to 40 points). This measure is a qualitative scoring measure.

Successful projects are designed to provide direct benefits to Black, Indigenous, and People of Color populations, low-income populations, persons with disabilities, youth, older adults. All projects must mitigate potential negative benefits as required under federal law. Projects that are designed to provide benefits go beyond the mitigation requirement to proactively provide transportation benefits and solve transportation issues experienced by Equity populations. Benefits to residents of affordable housing are addressed in Measure C.

Describe the project's benefits to Black, Indigenous, and People of Color populations, lowincome populations, children, people with disabilities, youth, and older adults. Benefits could relate to:

- pedestrian and bicycle safety improvements;
- public health benefits;
- direct access improvements for residents or improved access to destinations such as jobs, school, health care, or other;
- travel time improvements;
- gap closures;
- new transportation services or modal options;
- leveraging of other beneficial projects and investments;
- and/or community connection and cohesion improvements.

This is not an exhaustive list. A full response will support the benefits claimed, identify benefits specific to Equity populations residing or engaged in activities near the project area, identify benefits addressing a transportation issue affecting Equity populations specifically identified through engagement, and substantiate benefits with data.

Acknowledge and describe any negative project impacts to Black, Indigenous, and People of Color populations, low-income populations, children, people with disabilities, youth, and older adults. Describe measures to mitigate these impacts. Unidentified or unmitigated negative impacts may result in a reduction in points.

Below is a list of potential negative impacts. This is not an exhaustive list.

- Decreased pedestrian access through sidewalk removal / narrowing, placement of barriers along the walking path, increase in auto-oriented curb cuts, etc.
- Increased speed and/or "cut-through" traffic.
- Removed or diminished safe bicycle access.
- Inclusion of some other barrier to access to jobs and other destinations.

(Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (0 to 40 Points)

Each application will be qualitatively scored based on the available points and will receive the number of points awarded.

C. **MEASURE**: Affordable Housing Access (0 to 30 points). This measure is a qualitative scoring measure.

Describe any affordable housing developments—existing, under construction, or planned within ½ mile of the proposed project. The applicant should note the number of existing subsidized units, which will be provided on the Socio-Economic Conditions map. Applicants can also describe other types of affordable housing (e.g., naturally-occurring affordable housing, manufactured housing) and under construction or planned affordable housing that is within a half mile of the project. If applicable, the applicant can provide self-generated PDF maps to support these additions. Applicants are encouraged to provide a self-generated PDF map describing how a project connects affordable housing residents to destinations (e.g., childcare, grocery stores, schools, places of worship).

Describe the project's benefits to current and future affordable housing residents within ½ mile of the project. Benefits must relate to affordable housing residents. Examples may include:

- specific direct access improvements for residents
- improved access to destinations such as jobs, school, health care or other;
- new transportation services or modal options;
- and/or community connection and cohesion improvements.

This is not an exhaustive list. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements. A full response will support the benefits claimed, identify benefits specific to residents of affordable housing, identify benefits addressing a transportation issue affecting residents of affordable housing specifically identified through engagement, and substantiate benefits with data.

(Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (30 Points)

The project that best provides meaningful improvements to access to affordable housing units will receive the full 30 points. Multiple projects may receive the highest possible score of 30

points based on this assessment. Remaining projects will receive a share of the full points at the scorer's discretion.

D. BONUS POINTS (0 TO 25 POINTS ABOVE THE TOTAL CRITERION POINTS): Those

projects that score at least 80% of the maximum total points available through Measures A, B, and C will be awarded bonus points based on the geographic location of the project. These points will be assigned as follows, based on the highest-scoring geography the project contacts:

- 25 points to projects within an Area of Concentrated Poverty
- 15 points to projects within census tracts with the percent of population in poverty or population of color above the regional average percent
- 10 points for all other areas

Upload the "Socio-Economic Conditions" map used for this measure.

RESPONSE (Select one, based on the "Socio-Economic Conditions" map):

- Project is located in an Area of Concentrated Poverty:
- Project's census tracts are above the regional average for population in poverty or population of color: □
- Project located in a census tract that is below the regional average for population in poverty or populations of color: □

SCORING GUIDANCE (0 to 25 Points)

If the applicant receives at least 80% of the available points in Measures A, B, and C (e.g., 80 points for the Roadway applications) the project will receive Bonus points as described. If an applicant qualifies for Bonus points it may result in an Equity and Affordable Housing score of more than the total points available.

Equity and Housing Score Changes

Current Measures	Traffic Mgmt.	Spot Mobility/ Safety	Strategic Capacity	Roadway Recon/ Mod	Bridges	Transit Expansion	Transit Mod	TDM	Multiuse Trails	Pedestrian	SRTS
Measure A: Socio- Economic Equity	50	50	50	50	50	150	125	100	70	70	70
Sub-measure 1: Equity Population Engagement	20	20	20	20	20	60	50	40	30	30	30
Sub-measure 2: Equity Population Benefits and Impacts	30	30	30	30	30	90	75	60	40	40	40
Bonus Points	25	25	25	25	25	25	25	25	25	25	25
Measure B: Housing	50	50	50	50	50	50	50	50	50	50	50
Housing Performance Score	40	40	40	40	40	40	40	40	40	40	40
Affordable Housing Access	10	10	10	10	10	10	10	10	10	10	10
Total Possible (Excluding Bonus)	100	100	100	100	100	200	175	150	120	120	120

Proposed Measures	Traffic Mgmt.	Spot Mobility/ Safety	Strategic Capacity	Roadway Recon/ Mod	Bridges	Transit Expansion	Transit Mod*	TDM	Multiuse Trails	Pedestrian	SRTS
Measure A: Engagement	30	30	30	30	30	60	50	45	36	36	36
Measure B: Equity Population Benefits and Impacts	40	40	40	40	40	80	75	60	48	48	48
Measure C: Affordable Housing Access	30	30	30	30	30	60	50	45	36	36	36
Bonus	25	25	25	25	25	25	25	25	25	25	25
Total Possible (Excluding Bonus)	100	100	100	100	100	200	175	150	120	120	120

*Proposed points rounded to avoid half-points.

Traffic Management Technologies (Roadway System Management) -**Prioritizing Criteria and Measures**

September 15, 2021

Definition: An Intelligent Transportation System (ITS) or similar project that primarily benefits roadway users. Traffic Management Technology projects can include project elements along a single corridor, multiple corridors, or within a specific geographic area such as a downtown area. To be eligible, projects must make improvements to at least one A-minor arterial or non-freeway principal arterial. Projects that are more transit-focused must apply in the Transit Modernization application category.

Examples of Traffic Management Technology Projects:

- Flashing yellow arrow traffic signals
- Traffic signal retiming projects • •
 - Integrated corridor signal coordination
- Traffic signal control system upgrades •
- New/replacement detectors •
- Passive detectors for bicyclists and peds •
- Other emerging ITS technologies •
- New/replacement traffic mgmt. centers
- New/replacement traffic communication
- New/replacement CCTV cameras
- New/replacement variable message signs • & other info improvements
- Incident management coordination
- Vehicle to Infrastructure Technology

Scoring:

Criteria and Measures	Points	% of Total Points
1. Role in the Regional Transportation System and Economy	175	16%
Measure A - Functional classification of project	50	
Measure B - Regional Truck Corridor Study Tiers	50	
Measure C - Integration within existing traffic management systems	50	
Measure D - Coordination with other agencies	25	
2. Usage	125	11%
Measure A - Current daily person throughput	85	
Measure B - Forecast 2040 average daily traffic volume	40	
3. Equity and Housing Performance	100	9%
Measure A - Benefits and outreach to disadvantaged populations	50	
Measure B - Housing Performance Score / affordable housing connection	50	
4. Infrastructure Age	75	7%
Measure A - Upgrades to obsolete equipment	75	
5. Congestion Reduction/Air Quality	200	18%
Measure A - Congested roadway	150	
Measure B - Emissions and congestion benefits of project	50	
6. Safety	200	18%

Criter	a and Measures	Points	% of Total Points
	Measure A - Crashes reduced	50	
	Measure B – Safety issues in project area	150	
7.	Multimodal Elements and Existing Connections	50	5%
	Measure A - Transit, bicycle, or pedestrian project elements and connections	50	
8.	Risk Assessment	75	7%
	Measure A - Risk Assessment Form	75	
9.	Cost Effectiveness	100	9%
	Measure A - Cost effectiveness (total points awarded/total project cost)	100	
Total		1,100	

1. Role in the Regional Transportation System and Economy (175 Points)

Tying regional policy (Thrive MSP2040) to the Regional Solicitation, this criterion measures the project's ability to serve a transportation purpose within the regional transportation system and economy based on how well it fulfills its functional classification role, aligns with the Regional Truck Corridor Study, and integrates with existing traffic management systems, and provides coordination across agencies. The project must be located on at least one non-freeway principal arterial or A-minor arterial.

A. MEASURE: Reference the functional classification(s) that the project would serve. Investment in a higher functionally classified roadway (i.e., the principal arterial system) serves a more regional purpose and will result in more points.

RESPONSE (Select one):

- The majority of the project funds will be invested on the principal arterial system: □ (50 points)
- The majority of the project funds will be invested on the A-minor arterial system: □ (25 points)
- The majority of the project funds will be invested on the collector or local system with some investment either on the principal arterial or A-minor arterial system: □ (0 points)

SCORING GUIDANCE (50 Points)

The scorer will assign points based on which of the above scores applies. Note that multiple applicants are able to score the maximum point allotment. If no applicant scores 50 points, the 25-point projects will be adjusted to 50 points, while the zero-point projects will remain at zero.

B. **MEASURE**: This criterion relies on the results of the Regional Truck Corridor Study, which prioritized all principal and minor arterials based on truck volume, truck percentage of total traffic, proximity to freight industry clusters, and proximity to regional freight terminals. <u>The truck corridors were grouped into tiers 1, 2, and 3, in order of priority</u>. Use the 2021 Updated Regional Truck Corridors tiers to respond to this measure: 2021 Updated Regional Truck <u>Corridors</u>. (50 points)

2 | P a g e

Use the final study report for this measure:

RESPONSE (Select one for your project, based on the <u>updated 2021</u> Regional Truck Corridors<u>Study</u>):

- The majority of the project funds will be invested on either a Tier 1, Tier 2, or Tier 3 corridor: □ (50 Points) Miles (to the nearest 0.1 miles):_____
- No project funds will be invested on a Tier 1, Tier 2, or Tier 3 corridor:
 (0 Points)

SCORING GUIDANCE (50 Points)

The scorer will assign points based on which of the scores applies. Note that multiple applicants can score the maximum point allotment. If no applicant scores 50 points, the 25-point projects will be adjusted to 50 points, while the zero-point projects will remain at zero.

C. MEASURE: Discuss how the proposed project integrates and/or builds on existing traffic management infrastructure (examples of systems include traffic signal systems, freeway management systems, and incident management systems). (50 Points)

RESPONSE (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (50 Points)

The applicant will describe how the project would build on other infrastructure and management systems. Prioritizing projects that complement existing infrastructure and management methods, the scorer will award the full share of points to the project that best builds on other infrastructure and management systems. Remaining projects will receive a share of the full points at the scorer's discretion. This response is intended to be qualitative.

D. MEASURE: Demonstrate how the project provides or enhances coordination among operational and management systems and/or jurisdictions. (25 points)

RESPONSE (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (25 Points)

The project that best provides or enhances coordination among operational and management systems and/or jurisdictions will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion.

2. Usage (125 Points)

This criterion quantifies the project's potential impact by measuring the current daily person throughput and future vehicular traffic that will be served by the project. These roadway users directly benefit from the project improvements.

- A. MEASURE: Metropolitan Council staff will calculate the current daily person throughput at one location along the A-minor arterial or non-freeway principal arterial project length using the current average annual daily traffic (AADT) volume and average daily transit ridership. If more than one corridor or location is included in the project, then the applicant should select the corridor where the most investment is being made with the project. The applicant must identify the location along the project length and provide the current AADT volume from the <u>MnDOT</u> <u>Traffic Mapping Application.MnDOT 50-series maps</u> (select Twin Cities Metro Area Street Series under Traffic Volume (AADT)) Due to the potential timing issues with when a traffic count was taken relative to the COVID-19 pandemic (and resulting drop in traffic volumes), applicants may also use a historic AADT volume from the MnDOT Traffic Mapping Application (instructions under the Help Document). Reference the "Transit Connections" map for transit routes along the project. Ridership data will be provided by the Metropolitan Council staff, if public transit is currently provided on the project length. (85 points)
- Current Daily Person Throughput = (current average annual daily traffic volume x 1.30 vehicle occupancy) + average annual daily transit ridership (2019)

RESPONSE:

- Location:_____
- Current AADT volume:_____
- Existing transit routes at the location noted above:

Upload the "Transit Connections" map.

SCORING GUIDANCE (85 Points)

The project with highest current daily person throughput will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a daily person throughput of 1,000 people and the top project had a daily person throughput of 1,500 people, this applicant would receive (1,000/1,500) *85 points or 56 points.

B. MEASURE: Provide the forecast (2040) average daily traffic volume at the same location along the A-minor arterial or non-freeway principal arterial project length, as identified in the previous measure. The applicant may choose to use a county or city travel demand model based on the Metropolitan Council model to identify the forecast (2040) average daily traffic volume or have Metropolitan Council staff determine the forecast volume using the Metropolitan Council model and project location. Respond as appropriate to the use of one type of forecast model. (40 points)

RESPONSE:

- Use Metropolitan Council model to determine forecast (2040) ADT volume□
- If checked, METC Staff will provide Forecast (2040) ADT volume □

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OR

RESPONSE:

- Identify the approved county or city travel demand model to determine forecast (2040) ADT volume□
- Forecast (2040) ADT volume: _____

SCORING GUIDANCE (40 Points)

The applicant with the highest forecast (2040) ADT volume will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a daily forecast of 28,000 vehicles and the top project had a daily forecast of 32,000 vehicles, this applicant would receive (28,000/32,000)* 40 points or 35 points.

3. Equity and Housing Performance (100 Points)

This criterion addresses the <u>Council's role in advancing equity</u> by examining how a project directly provides benefits to, or impacts (positive and negative) low-income populations, people of color, people with disabilities, youth and the elderlyolder adults. The criterion evaluates whether the applicant engaged these populations to identify transportation needs and potential solutions and how the project will address these identified needs. The criterion also evaluates a community's overall efforts to implement affordable housing and how the project improves multimodal access to affordable housing residents.

- A. MEASURE: Socio-Economic Equity
- 1. Sub-measure: Equity Population Engagement (0 to 20 points): A successful project is one that is the result of active engagement of low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. Engagement should occur prior to and during a project's development, with the intent to provide direct benefits to, or solve, an expressed transportation issue, while also limiting and mitigating any negative impacts. Describe and map the location of any low-income populations, people of color, disabled populations, youth or the elderlyolder adults within a 1/2 mile of the proposed project. Describe how these specific populations were engaged and provided outreach to, whether through community planning efforts, project needs identification, or during the project development process. Describe what engagement methods and tools were used and how the input from these groups is reflected in the project's' purpose and need and design. Elements of quality engagement include: outreach and engagement to specific communities and populations that are likely to be directly impacted by the project; techniques to reach out to populations traditionally not involved in community engagement related to transportation projects; feedback from these populations identifying potential positive and negative elements of the proposed project through engagement, study recommendations, or plans that provide feedback from populations that may be impacted by the proposed project. If relevant, describe how NEPA or Title VI regulations will guide engagement activities.

(Limit 1,400 characters; approximately 200 words):

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- 2. Sub-measure: Equity Population Benefits and Impacts (0 to 30 points): A successful project is one that has been designed to provide direct benefits to low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. All projects must mitigate potential negative benefits as required under federal law. Projects that are designed to provide benefits go beyond the mitigation requirement to proactively provide transportation benefits and solve transportation issues experienced by Equity populations.
 - a. (0 to 30 points) Describe the project's benefits to low-income populations, people of color, children, people with disabilities, and the elderlyolder adults. Benefits could relate to pedestrian and bicycle safety improvements; public health benefits; direct access improvements for residents or improved access to destinations such as jobs, school, health care or other; travel time improvements; gap closures; new transportation services or modal options, leveraging of other beneficial projects and investments; and/or community connection and cohesion improvements. Note that this is not an exhaustive list.

(Limit 2,800 characters; approximately 400 words):

b. (-10 to 0 points) Describe any negative impacts to low-income populations, people of color, children, people with disabilities, and the elderlyolder adults created by the project, along with measures that will be taken to mitigate them. Negative impacts that are not adequately mitigated can result in a reduction in points.

(Limit 2,800 characters; approximately 400 words):

Below is a list of negative impacts. Note that this is not an exhaustive list.

- Increased difficulty in street crossing caused by increased roadway width, increased traffic speed, wider turning radii, or other elements that negatively impact pedestrian access.
- Increased noise.
- Decreased pedestrian access through sidewalk removal / narrowing, placement of barriers along the walking path, increase in auto-oriented curb cuts, etc.
- Project elements that are detrimental to location-based air quality by increasing stop/start
 activity at intersections, creating vehicle idling areas, directing an increased number of
 vehicles to a particular point, etc.
- Increased speed and/or "cut-through" traffic.
- · Removed or diminished safe bicycle access.
- Inclusion of some other barrier to access to jobs and other destinations.
- Displacement of residents and businesses.
- Mitigation of temporary construction/implementation impacts such as dust; noise; reduced access for travelers and to businesses; disruption of utilities; and eliminated street crossings.
- Other

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- 3. **Sub-measure: Bonus Points (0 to 25 points)** Those projects that score at least 80% of the maximum total points available through sub-measures 1 and 2 will be awarded bonus points based on the geographic location of the project. These points will be assigned as follows, based on the highest-scoring geography the project contacts:
 - a. 25 points to projects within an Area of Concentrated Poverty with 50% or more people of color
 - b.a. <u>20-25</u> points to projects within an Area of Concentrated Poverty
 - e-<u>b.</u>15 points to projects within census tracts with the percent of population in poverty or population of color above the regional average percent
 - d.c.10 points for all other areas

Upload the "Socio-Economic Conditions" map used for this measure.

RESPONSE (Select one, based on the "Socio-Economic Conditions" map):

- Project is located in an Area of Concentrated Poverty where 50% or more of residents are people of color (ACP50):
- Project is located in an Area of Concentrated Poverty:
- Project's census tracts are above the regional average for population in poverty or population of color:
- Project located in a census tract that is below the regional average for population in poverty
 or populations of color, or includes children, people with disabilities, or the elderly: □

SCORING GUIDANCE (50 Points)

Each application will be qualitatively scored based on the available points for each measure and will receive the number of points awarded. If the applicant receives at least 80% of the available points, i.e., 40 points for the Roadway applications, the project will receive Bonus points as described under sub-measure 3. If an applicant qualifies for Bonus points it will result in a Socio-Economic Equity score of more than the total points available.

B. MEASURE: Projects will be scored based on two housing measures: 1. the 2019 Housing Performance Score for the city or township in which the project is located (40 points) and 2. the project's connection to affordable housing (10 points) as described below.

Part 1 (40 points): Housing Performance Score

A city or township's housing performance score is calculated annually by the Metropolitan Council using data from four categories: new affordable or mixed-income housing completed in the last ten years; preservation projects completed in the last seven years and/or substantial rehabilitation projects completed in the last three years; housing program participation and production, and housing policies and ordinances; and characteristics of the existing housing stock. Data for the housing performance scores are updated each year by the Council, and the city or township is provided with an opportunity to review and revise the information.

Council staff will use the most current housing score for each city or township. If the project is located in more than one jurisdiction, the points will be awarded based on a weighted average using the percent of total funds to be spent in each jurisdiction. If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project will not be

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disadvantaged by this measure and the project's total score will be adjusted during scoring to remove this scoring measure.

RESPONSE:

- City/Township:
- Total project cost:
- Funds to be spent within each City/Township:
- Percent of total funds to be spent within City/Township: ____

Part 2 (10 points): Affordable Housing Access

This measure is a qualitative scoring measure. Describe and map any affordable housing developments— planned, under construction or existing, within ½ mile of the proposed project. The applicant should note the development stage, number of units, number of bedrooms per unit, and level of affordability using 2019 affordability limits. Also note whether the affordability is guaranteed through funding restrictions (i.e. LIHTC, 4d) or is unsubsidized, if housing choice vouchers are/will be accepted, and if there is a fair housing marketing plan required or in place.

Describe how the proposed project will improve or impact access for residents of the affordable housing locations within ½ mile of the project. This should include a description of improved access by all modes, automobiles, transit, bicycle and pedestrian access. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements.

RESPONSE:

(Limit 2,100 characters; approximately 300 words):

SCORING GUIDANCE (50 Points)

Part 1 (40 points): The applicant with the highest 2019 Housing Performance Score will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a Housing Performance Score of 55 and the top project had a Housing Performance Score of 90, this applicant would receive (55/90)*40 points or 24 points.

Projects will use the city Housing Performance Score based on the project location. If a project is located in more than one jurisdiction, the points will be awarded based on a weighted average of the city or township scores for the project location based on the funds spent in each jurisdiction.

If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project's total score will be adjusted as a result. If this is the case, the hold-harmless method will be used: the total points possible in the application will be 960 instead of 1,000. The total points awarded through the rest of the application (900 as a hypothetical example) will be divided by 960, then multiplied by 1,000. Therefore, a project scoring 900 out of 960, will equate to 938 points on a 1,000-point scale. If a portion of the project is located in a city with an affordable housing allocation and the other portion is located in a township with no affordable housing allocation, then a combination of the Housing Performance Score (or weighted average) and the hold-harmless method should be used. This will result in a total score that will be somewhere between 960 and 1,000; then the score will need to be adjusted to fit a 1,000-point scale. NOTE: Any community without a Housing Performance Score

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in 2019 will be awarded the better of its new score in 2020 and the above method. NOTE: in these cases, the raw points from Part 2 will be included in the 960-point total.

Part 2 (10 points): The project that best provides meaningful improvements to access to the affordable housing units will receive the full 10 points. Multiple projects may receive the highest possible score of 10 points based on this assessment. Remaining projects will receive a share of the full points at the scorer's discretion.

Final Score (50 points): The scores in Parts 1 and 2 will be totaled. If no application gets 50 points, the highest-scoring project will be awarded 50 points, with other projects adjusted proportionately.

Note: Metropolitan Council staff will score this measure.

4. Infrastructure Age (75 Points)

This criterion will assess the degree to which functionally obsolete infrastructure elements are being replaced and improved.

A. **MEASURE**: Describe how various equipment will be improved or replaced as part of this project relative to its age and whether it is functionally obsolete.

RESPONSE (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (75 Points)

The project that best provides for stewardship of public funds and resource by replacing functionally obsolete equipment and finding cost-effective solutions to upgrade viable equipment will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion.

5. Congestion Reduction/Air Quality (200 Points)

This criterion measures the project's ability to make improvements in congested corridors using speed data from the Congestion Management Process Plan. The project will also be measured based on its ability to reduce emissions.

MEASURE: Council staff will provide travel speed data to compare the peak hour travel speed in the project area to free flow conditions on the "Level of Congestion" map. If more than one corridor or location is included in the project, then the applicant should select the corridor on which the most investment is being made with the project. The applicant must identify the corridor as part of the response. It is anticipated that the Congestion Management Process Plan will be further incorporated into the Regional Solicitation as part of the 2022 Regional Solicitation funding cycle. (150 Points)

RESPONSE:

- Corridor:_
- Corridor Start and End Points:
- Free-Flow Travel Speed:_____
- Peak Hour Travel Speed:_
- Percentage Decrease in Travel Speed in Peak Hour Compared to Free-Flow (online calculation):

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Upload the "Level of Congestion" map used for this measure.

SCORING GUIDANCE (150 Points)

The applicant with the most congestion (measured by the largest percentage decrease in peak hour travel speeds relative to free flow conditions) will receive the full points for the measure. Remaining projects will receive a proportionate share of the points. For example, if the application being scored showed a 5% decrease of travel speeds in the peak hour relative to free flow conditions and the top project had a 10% reduction, this applicant would receive (5/10)*150 points, or 75 points.

B. MEASURE: Discuss how the project will reduce emissions and congestion. The applicant should focus on any reduction in CO, NOX, and VOC. Projects on roadways that provide relief to congested, parallel principal arterial roadways should reference the current MnDOT Metro Freeway Congestion Report and discuss the systemwide emissions and congestion impact of the proposed improvements.

RESPONSE: (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (50 Points)

The project that is most likely to reduce emissions and congestion will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion.

6. Safety (200 Points)

This criterion addresses the project's ability to correct deficiencies and improve the overall safety of an existing or future roadway facility. It will assess the project's monetized safety benefits.

A. MEASURE: Calculate the reduction in the total number of crashes due to improvements on the A-minor arterial or non-freeway principal arterial made by the project. The applicant must base the estimate of crash reduction on the methodology consistent with the latest MnDOT Metro District Highway Safety Improvement Program (HSIP) application (<u>www.dot.state.mn.us/stateaid/trafficsafety.html</u>). Applicants should focus on the crash analysis for reactive projects.

Crash data must be obtained for the project length using the MnDOT TIS system average for calendar years 2016-2018 through 20182020. Crash data should include all crash types and severities, including pedestrian and bicycle crashes.

Applicants should request crash data from MnDOT as early as possible. The applicant must then attach a listing of the crashes reduced and the HSIP Benefit/Cost (B/C) worksheet (<u>www.dot.state.mn.us/stateaid/trafficsafety.html</u>) that identifies the resulting benefit associated with the project. As part of the response, please detail and attach the crash modification factor(s) used from FHWA's Crash Modification Factors Clearinghouse: <u>http://www.cmfclearinghouse.org/</u>. As part of the Regional Solicitation Before & After Study, Phase 2 (2021), a list of commonly used crash modification factors (posted on the Metropolitan Council's Regional Solicitation website, under Application Resources) or find a more appropriate one on FHWA's Clearinghouse.

Commented [PS3]: New text

This measure requests the monetized safety benefit of the project. The cost of the project is scored in the Cost Effectiveness criterion.

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RESPONSE:

- Crash Modification Factors Used (Limit 700 characters; approximately 100 words):
- Rationale for Crash Modifications Selected (Limit 1,400 characters; approximately 200 words):
- Project Benefit (\$) from B/C ratio: ____
- Total Fatal (K) Crashes:
- Total Serious Injury (A) Crashes:
- Total Non-Motorized Fatal and Serious Injury Crashes: _____
- Total Crashes: _
- Total Fatal (K) Crashes Reduced by Project: _____
- Total Serious Injury (A) Crashes Reduced by Project: _
- Total Non-Motorized Fatal and Serious Injury Crashes Reduced by Project: _____
- Total Crashes Reduced by Project: _____

Upload Crash Modification Factors and B/C Worksheet.

SCORING GUIDANCE (50 Points)

The applicant with the highest dollar value of benefits will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had safety benefits of \$11,000,000 and the top project had safety benefits of \$16,000,000, this applicant would receive (11,000,000/16,000,000)* 50 points or 34 points.

B. MEASURE: Discuss how the project will improve safety issues in the project area. As part of the response, the applicant may want to reference the project relative to County Highway Safety Plan or similar planning documents and what the project will specifically do to improve the safety issue.

RESPONSE (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (150 Points)

The project that will provide the most safety benefits and alleviate identified safety concerns will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion.

7. Multimodal Elements and Existing Connections (50 Points)

This criterion measures how the project improves the travel experience, safety, and security for other modes of transportation, and addresses the safe integration of these modes. The Transportation Policy Plan requires that explicit consideration of all users of the transportation system be considered in the planning and scoping phase of roadway projects.

- A. **MEASURE**: Describe how the project positively affects the multimodal system.
- Discuss any bicycle, pedestrian, or transit elements that are included as part of the project and how they improve the travel experience, safety, and security for users of these modes. Applicants should make sure that new multimodal elements described in the response are accounted for as part of the cost estimate form earlier in the application. Applicants should note if there is no transit service in the project area and identify supporting studies or plans that address why a mode may not be incorporated in the project (e.g., a bicycle system plan that locates bikeway facilities on a lower-volume parallel route).

Commented [PS4]: See information item for proposed new text, which would replace this content.

- Describe how the proposed multimodal improvements positively affect identified alignments in the Regional Bicycle Transportation Network (RBTN) or along a regional trail, if applicable.
- Describe how the proposed multimodal improvements either provide a new, or improve an existing Major River Bicycle Barrier Crossing (MRBBC) as defined in the 2040 Transportation Policy Plan (TPP) or how they provide a new or improved crossing of a Regional Bicycle Barrier with respect to the tiered Regional Bicycle Barrier Crossing Improvement Areas as defined in the TPP and Technical Addendum to the Regional Bicycle Barriers Study (May 2019), if applicable.
- Discuss the existing bicycle, pedestrian, and transit connections and how the project enhances these connections.
- Discuss whether the project implements specific locations identified as being deficient in a completed ADA Transition Plan.

RESPONSE (Limit 2, 800 characters; approximately 400 words)

SCORING GUIDANCE (50 Points)

The project that most positively affects the multimodal system will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion. The project score will be based on the quality of the improvements, as opposed to being based solely on the number of modes addressed. Points can be earned for incorporating multimodal project elements, positively affecting identified alignments in the Regional Bicycle Transportation Network (RBTN) regional trail, Major River Bicycle Barrier Crossing, or Regional Bicycle Barrier, for making connections with existing multimodal systems, or helping to implement an ADA Transition Plan. Projects do not need all of these elements to be awarded all of the points. Multimodal elements for rural roadway projects may include wider shoulders that will be used by bicyclists and pedestrians.

8. Risk Assessment (75 Points)

This criterion measures the number of risks associated with successfully building the project. Highrisk applications increase the likelihood that projects will withdraw at a later date. If this happens, the region is forced to reallocate the federal funds in a short amount of time or return them to the US Department of Transportation. These risks are outlined in the checklist in the required Risk Assessment.

MEASURE: Applications involving construction must complete the Risk Assessment. This checklist includes activities completed to-date, as well as an assessment of risks (e.g., right-of-way acquisition, proximity to historic properties, etc.).

RESPONSE (Complete Risk Assessment):

Please check those that apply and fill in anticipated completion dates for all projects, <u>-except for nNew/expanded transit service projects</u> will receive full credit for items 2-5 but must fill out item 1. <u>-or tTransit vehicle purchases will receive full credit</u>.

1. Public Involvement (20 Percent of Points)

Projects that have been through a public process with residents and other interested public entities are more likely than others to be successful. The project applicant must indicate that events and/or targeted outreach (e.g., surveys and other web-based input) were held to help identify the transportation problem, how the potential solution was selected instead of other

options, and the public involvement completed to date on the project. <u>The focus of this</u> section is on the *opportunity for public input* as opposed to the quality of input. NOTE: A written response is required and failure to respond will result in zero points.

List Dates of most recent meetings and outreach specific to this project:

Meeting with general public: _____

Meeting with partner agencies: _____

Targeted online/mail outreach:

Number of respondents: _____

100% Multiple types of targeted outreach efforts (such as meetings or online/mail outreach)Meetings specific to this project with the general public and partner agencies have been used to help identify the project need.

75% Targeted outreach specific to this project with the general public and partner agencies have been used to help identify the project need.

50% At least one meeting specific to this project with the general public has been used to help identify the project need.

50% At least one meeting-online/mail outreach effort specific to this project with the general public_key partner agencies has been used to help identify the project need.

25% D No meeting or outreach specific to the project was conducted, but the project was identified through meetings and/or outreach related to a larger planning effort.

0% No outreach has led to the selection of this project.

RESPONSE (Limit 2,800 characters; approximately 400 words). <u>Describe the type(s) of outreach</u> <u>selected for this project (i.e., online or in-person meetings, surveys, demonstration projects), the</u> <u>method(s) used to announce outreach opportunities, and how many people participated. Include any</u> public website links to outreach opportunities.:

2. Layout (25 Percent of Points)

Layout should includes proposed geometrics and existing and proposed right-of-way boundaries. A basic layout should include a base map (north arrow; scale; legend;* city and/or county limits; existing ROW, labeled; existing signals;* and bridge numbers*) and design data (proposed alignments; bike and/or roadway lane widths; shoulder width;* proposed signals;* and proposed ROW). An aerial photograph with a line showing the project's termini does not suffice and will be awarded zero points.

*If applicable

100% Layout approved by the applicant and all impacted jurisdictions (i.e., cities/counties/<u>MnDOT</u> that the project goes through or agencies that maintain the readway(s)). If a <u>MnDOT</u> trunk highway is impacted, approval by <u>MnDOT</u> must have occurred to receive full points.- A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

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<u>str</u> lay	100% A layout does not apply (signal replacement/signal timing, stand-alone streetscaping, minor intersection improvements). Applicants that are not certain whether a layout is required should contact Colleen Brown at MnDOT Metro State Aid – colleen.brown@state.mn.us.			
	50% Layout completed but not approved by all jurisdictions. A PDF of the layout must be attached to receive points.			
25% Layout has been started but is not complete. A PDF of the layout must be attached to receive points.				
0%	5 🗌 L	ayout has not been started		
3. Anticipated date or date of completion:				
4. <u>3.</u>	Revi	iew of Section 106 Historic Resources (15 Percent of Points)		
100%		No known historic properties eligible for or listed in the National Register of Historic Places are located in the project area, and project is not located on an identified historic bridge		
100%		There are historical/archeological properties present but determination of "no historic properties affected" is anticipated.		
80%		Historic/archeological property impacted; determination of "no adverse effect" anticipated		
40%		Historic/archeological property impacted; determination of "adverse effect" anticipated		
0%		Unsure if there are any historic/archaeological properties in the project area.		
Project is located on an identified historic bridge:				
5. <u>4.</u>	Righ	nt-of-Way (25 Percent of Points)		
100% Right-of-way, permanent or temporary easements, and MnDOT agreement/limited- use permit either not required or all have been acquired				
	50% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required, plat, legal descriptions, or official map complete			
	25% Right-of-way, permanent or temporary easements <u>, and/or MnDOT</u> agreement/limited-use permit required, parcels identified			
	0% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited- use permit required, parcels not all identified			

_

Anticipated date or date of acquisition _____

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6.5. Railroad Involvement (15 Percent of Points)

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100%	No railroad involvement on project or railroad Right-of-Way agreement is executed (include signature page, if applicable)
50%	Railroad Right-of-Way Agreement required; negotiations have begun
0%	Railroad Right-of-Way Agreement required; negotiations have not begun.

Anticipated date or date of executed Agreement _____

SCORING GUIDANCE (75 Points)

The applicant with the most points on the Risk Assessment (more points equate to less project risk) will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 40 points and the top project had 70 points, this applicant would receive (40/70)*75 points or 43 points.

9. Cost Effectiveness (100 Points)

This criterion will assess the project's cost effectiveness based on the total TAB-eligible project cost (not including noise walls) and total points awarded in the previous 8 criteria.

- A. MEASURE: Calculate the cost effectiveness of the project. Metropolitan Council staff will divide the number of points awarded in the previous criteria by the TAB-eligible project cost (not including noise walls). If a project has been awarded other outside, competitive funding (e.g., state bonding, Transportation Economic Development Program, Minnesota Highway Freight Program), project sponsors may reduce the total project cost for the purposes of this scoring measure by the amount of the outside funding award.
- Cost effectiveness = total number of points awarded in previous criteria/total TAB-eligible project cost (not including noise walls)

RESPONSE (This measure will be calculated after the scores for the other measures are tabulated by the Scoring Committee):

- Total Project Cost (entered in Project Cost Form): ______ (automatically calculated)
- Enter amount of Noise Walls: _
- Enter amount of any outside, competitive funding (attach documentation of award): _
- Points Awarded in Previous Criteria: ____ (entered by Metropolitan Council staff)

SCORING GUIDANCE (100 Points)

The applicant with the most points (i.e., the benefits) per dollar will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the top project received .0005 points per dollar and the application being scored received .00025 points per dollar, this applicant would receive (.00025/.0005)*100 points or 50 points.

The scorer for this measure will also complete a reasonableness check of the total project cost that is used for this measure. The scorer may follow up with the applicant to clarify any questions. Up to 50 percent of points awarded for this measure can be deducted if the scorer does not believe that the cost estimate is reasonable.

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TOTAL: 1,100 POINTS

Prioritizing Criteria and Measures

September 15, 2021

Definition: An at-grade intersection or corridor-level intersection improvement project that focuses on mobility and safety (described as a Regional Mobility project under Spot Mobility in the TPP). New interchanges or projects that add new thru lane capacity (e.g., two-lane to four-lane expansions) should apply in the Strategic Capacity application category. Projects that address mobility and safety at multiple intersections on a corridor are encouraged. However, projects that propose to reconstruct the roadway for the length of the corridor should apply in the Roadway Reconstruction/Modernization application category.

Examples of Spot Mobility and Safety Projects:

- New or extended turn lanes at one or more intersections
- New intersection controls such as roundabouts or traffic signals
- Unsignalized or signalized reduced conflict intersections
- Other innovative/alternative intersection designs such as green t-intersections

Scoring:

Criteri	a and Measures	Points	% of Total Points
1.	Role in the Regional Transportation System and Economy	175<u>115</u>	<mark>16<u>10</u>%</mark>
	Measure A - Congestion within the Project Area, Level of Adjacent Congestion, Principal Arterial Intersection Conversion Study Priorities, or Congestion Management Safety Plan Opportunity Areas	100<u>70</u>	
	Measure B - Regional Truck Corridor Study Tiers	75 45	
2.	Equity and Housing Performance	100	9%
	Measure A - Benefits and outreach to disadvantaged populations	50	
	Measure B - Housing Performance Score / affordable housing connection	50	
3.	Congestion Reduction/Air Quality	275	25%
	Measure A - Vehicle delay reduced	200	
	Measure B - Kg of emissions reduced	75	
4.	Safety	275<u>335</u>	25<u>30</u>%
	Measure A - Crashes reduced	225 235	
	Measure B - Pedestrian Crash Reduction (Proactive)	50<u>100</u>	
5.	Multimodal Elements and Existing Connections	100	9%
	Measure A - Transit, bicycle, or pedestrian project elements & connections	100	
6.	Risk Assessment	75	7%
	Measure A - Risk Assessment Form	75	
7.	Cost Effectiveness	100	9%
	Measure A - Cost effectiveness (total points awarded/total project cost)	100	
Total		1,100	

1. Role in the Regional Transportation System and Economy (175 Points)

Tying regional policy (Thrive MSP2040) to the Regional Solicitation, this criterion measures the project's ability to serve a transportation purpose within the regional transportation system and economy based on the congestion in the project area, congestion levels along the regional transportation system near the project, how it aligns with the Principal Arterial Intersection Conversion Study, Congestion Management Safety Plan IV, , and the Regional Truck Corridor Study.

A. MEASURE: Identify the level of congestion within the project area. This measure uses speed data as was used as part of the Congestion Management Process (CMP) Plan. It is anticipated that the CMP Plan will be further incorporated into the Regional Solicitation as part of the 2022 Regional Solicitation funding cycle. Also, identify the level of congestion on a parallel route and how the project area is prioritized in the Principal Arterial Intersection Conversion Study and Congestion Management Safety Plan IV. Respond to each of the four sub-sections below. Projects will get the highest score of the four sub-sections.

Congestion within Project Area:

The measure will analyze the level of congestion within the project area. Council staff will provide travel speed data on the "Level of Congestion" map. The analysis will compare the peak hour travel speed within the project area to free-flow conditions.

RESPONSE:

- Free-Flow Travel Speed:
- Peak Hour Travel Speed: _____
- Percentage Decrease in Travel Speed in Peak Hour Compared to Free-Flow (calculation):

Upload the "Level of Congestion" map used for this measure.

Congestion on adjacent Parallel Routes:

The measure will analyze the level of congestion on an adjacent parallel A-minor arterial or principal arterial to determine the importance of the roadway in managing congestion on the Regional Highway System. Council staff will provide travel speed data on an applicant-selected adjacent parallel route that is adjacent to the proposed project on the "Level of Congestion" map. The analysis will compare the peak hour travel speed on an adjacent parallel route to free-flow conditions on this same route to understand congestion levels in the area of the project, which correlates to the role that the project plays in the regional transportation system and economy. The applicant must identify the adjacent parallel corridor as part of the response. The end points of this adjacent parallel corridor must align as closely as possible to the project end points.

RESPONSE:

- Adjacent Parallel Corridor: _____
- Adjacent Parallel Corridor Start and End Points:
- Free-Flow Travel Speed): _____
- Peak Hour Travel Speed:
- Percentage Decrease in Travel Speed in Peak Hour Compared to Free-Flow (calculation):

Upload the "Level of Congestion" map used for this measure.

Principal Arterial Intersection Conversion Study:

The measure relies on the results of the Principal Arterial Intersection Conversion Study, which prioritized non-freeway principal arterial intersections. In addition to interchange projects, other lane expansion projects that make improvements to a low-, medium-, or high-priority intersection can also earn points in this measure.

Use the final study report for this measure: metrocouncil.org/PAICs

RESPONSE (Select one for your project, based on the Principal Arterial Intersection Conversion Study):

- Proposed at-grade project that reduces delay at a High Priority Intersection: □ (100 Points)
- Proposed at-grade project that reduces delay at a Low Priority Intersection: □ (80 Points)
- Not listed as a priority in the study: □ (0 Points)

Congestion Management Safety Plan IV:

The measure relies on the results on MnDOT's Congestion Management Safety Plan IV (CMSP IV), which prioritized lower cost/high benefit, spot mobility projects on MnDOT-owned roadways. For the Regional Solicitation, only the CMSP opportunity areas on the A-minor arterial or non-freeway principal arterial systems are eligible. Principal arterial projects on the freeway system are not eligible for funding per TAB-adopted rules.

Use the final list of <u>CMSP IV opportunity area locations</u> as depicted in the 2040 Transportation Policy Plan (2018).

RESPONSE (Select one for your project):

- Proposed at-grade project that reduces delay at a CMSP opportunity area: □ (100 Points)
- Not listed as a CMSP priority location: □ (0 Points)

SCORING GUIDANCE (100 Points)

Due to the four scoring methods, more than one project can score the maximum points. In order to be awarded points for this measure the proposed project itself must show some delay reduction in measure 3A. If the project does not reduce delay, then it will score 0 points for this measure.

Congestion within Project Area: The applicant with the most congestion within the project area (measured by the largest percentage decrease in peak hour travel speeds relative to free-flow conditions) will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored showed a 5% decrease of travel speeds in the peak hour relative to free flow conditions and the top project had a 10% reduction, this applicant would receive (5/10)*100 points, or 50 points. If the project covers more than one segment of speed data, the applicants can use the one that is most beneficial to their score.

Congestion on adjacent Parallel Routes: The applicant with the most congestion on an adjacent parallel route (measured by the largest percentage decrease in peak hour travel speeds relative to free-flow

conditions) will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored showed a 5% decrease of travel speeds in the peak hour on the adjacent parallel route relative to free flow conditions and the top project had a 10% reduction, this applicant would receive (5/10)*100 points, or 50 points. Applicants can use the adjacent parallel route that is most beneficial to their score.

Principal Arterial Intersection Conversion Study: Projects will be scored based on their Principal Arterial Intersection Conversion Study priorities.

Congestion Management and Safety Plan IV: Projects will be scored based on whether their project location is in a Congestion Management and Safety Plan opportunity area.

The scorer will assess if the applicant would score highest with congestion on adjacent parallel routes part of the measure, the Principal Arterial Intersection Conversion Study part of the measure, or the CMSP IV part of the measure and give the applicant the highest of the four scores out of a maximum of 1000 points.

Note: Due to the use of multiple sub-sections, multiple applicants may receive the full 100 points.

B. MEASURE: This criterion relies on the results on the Truck Highway Corridor Study, which prioritized all principal and minor arterials based on truck volume, truck percentage of total traffic, proximity to freight industry clusters, and proximity to regional freight terminals. <u>The truck corridors were grouped into tiers 1, 2, and 3, in order of priority. Use the 2021 Updated Regional Truck Corridors tiers to respond to this measure: 2021 Updated Regional Truck Corridors.</u> (75 points)

Use the final study report for this measure:

RESPONSE: (Select one for your project, based on the <u>updated 2021</u> Regional Truck Corridors<u>Study</u>):

- Along Tier 1: □ Miles (to the nearest 0.1 miles): ____
- Along Tier 3: □ Miles (to the nearest 0.1 miles) ____
- The project provides a direct and immediate connection (i.e., intersects) with either a Tier 1, Tier 2, or Tier 3 corridor: □
- None of the tiers: □

SCORING GUIDANCE (75 Points)

Applicants will be awarded points as assigned in the above tiers:

- Projects along Tier 1: 75 points
- Projects along Tier 2: 65 points
- Projects along Tier 3: 55 points
- Projects that that provide a direct and immediate connection to a corridor: 10 points.
- None of the tiers: 0 points

If no applicant is along Tier 1, the top-scoring application(s) will be adjusted to 75 points, with the others

adjusted proportionately.

Note: Due to the use of tiered scoring, multiple applications can receive the full points.

2. Equity and Housing Performance (100 Points)

This criterion addresses the <u>Council's role in advancing equity</u> by examining how a project directly provides benefits to, or impacts (positive and negative) low-income populations, people of color, people with disabilities, youth and the elderlyolder adults. The criterion evaluates whether the applicant engaged these populations to identify transportation needs and potential solutions and how the project will address these identified needs. The criterion also evaluates a community's overall efforts to implement affordable housing and how the project improves multimodal access to affordable housing residents.

- A. MEASURE: Socio-Economic Equity
- 1. Sub-measure: Equity Population Engagement (0 to 20 points): A successful project is one that is the result of active engagement of low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. Engagement should occur prior to and during a project's development, with the intent to provide direct benefits to, or solve, an expressed transportation issue, while also limiting and mitigating any negative impacts. Describe and map the location of any low-income populations, people of color, disabled populations, youth or the elderlyolder adults within a 1/2 mile of the proposed project. Describe how these specific populations were engaged and provided outreach to, whether through community planning efforts, project needs identification, or during the project development process. Describe what engagement methods and tools were used and how the input from these groups is reflected in the project's' purpose and need and design. Elements of guality engagement include: outreach and engagement to specific communities and populations that are likely to be directly impacted by the project; techniques to reach out to populations traditionally not involved in community engagement related to transportation projects; feedback from these populations identifying potential positive and negative elements of the proposed project through engagement, study recommendations, or plans that provide feedback from populations that may be impacted by the proposed project. If relevant, describe how NEPA or Title VI regulations will guide engagement activities.

(Limit 1,400 characters; approximately 200 words):

- 2. Sub-measure: Equity Population Benefits and Impacts (0 to 30 points): A successful project is one that has been designed to provide direct benefits to low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. All projects must mitigate potential negative benefits as required under federal law. Projects that are designed to provide benefits go beyond the mitigation requirement to proactively provide transportation benefits and solve transportation issues experienced by Equity populations.
 - a. (0 to 30 points) Describe the project's benefits to low-income populations, people of color, children, people with disabilities, and the olderlyolder adults. Benefits could relate to pedestrian and bicycle safety improvements; public health benefits; direct access improvements for residents or improved access to destinations such as jobs, school, health care or other; travel time improvements; gap closures; new transportation services or modal

options, leveraging of other beneficial projects and investments; and/or community connection and cohesion improvements. Note that this is not an exhaustive list.

(Limit 2,800 characters; approximately 400 words):

b. (-10 to 0 points) Describe any negative impacts to low-income populations, people of color, children, people with disabilities, and the elderlyolder adults created by the project, along with measures that will be taken to mitigate them. Negative impacts that are not adequately mitigated can result in a reduction in points.

(Limit 2,800 characters; approximately 400 words):

Below is a list of negative impacts. Note that this is not an exhaustive list.

- Increased difficulty in street crossing caused by increased roadway width, increased traffic speed, wider turning radii, or other elements that negatively impact pedestrian access.
- Increased noise.
- Decreased pedestrian access through sidewalk removal / narrowing, placement of barriers along the walking path, increase in auto-oriented curb cuts, etc.
- Project elements that are detrimental to location-based air quality by increasing stop/start
 activity at intersections, creating vehicle idling areas, directing an increased number of
 vehicles to a particular point, etc.
- Increased speed and/or "cut-through" traffic.
- Removed or diminished safe bicycle access.
- Inclusion of some other barrier to access to jobs and other destinations.
- Displacement of residents and businesses.
- Mitigation of temporary construction/implementation impacts such as dust; noise; reduced access for travelers and to businesses; disruption of utilities; and eliminated street crossings.
- Other
- 3. **Sub-measure: Bonus Points (0 to 25 points)** Those projects that score at least 80% of the maximum total points available through sub-measures 1 and 2 will be awarded bonus points based on the geographic location of the project. These points will be assigned as follows, based on the highest-scoring geography the project contacts:

a. 25 points to projects within an Area of Concentrated Poverty with 50% or more people of color

b.a. <u>20-25</u> points to projects within an Area of Concentrated Poverty

e-<u>b.15 points to projects within census tracts with the percent of population in poverty or</u> population of color above the regional average percent

d.c.10 points for all other areas

Upload the "Socio-Economic Conditions" map used for this measure.

RESPONSE (Select one, based on the "Socio-Economic Conditions" map):

- Project is located in an Area of Concentrated Poverty where 50% or more of residents are people of color (ACP50);
- Project is located in an Area of Concentrated Poverty:
- Project's census tracts are above the regional average for population in poverty or population of color:
- Project located in a census tract that is below the regional average for population in poverty
 or populations of color, or includes children, people with disabilities, or the elderly:

SCORING GUIDANCE (50 Points)

Each application will be qualitatively scored based on the available points for each measure and will receive the number of points awarded. If the applicant receives at least 80% of the available points, i.e., 40 points for the Roadway applications, the project will receive Bonus points as described under sub-measure 3. If an applicant qualifies for Bonus points it will result in a Socio-Economic Equity score of more than the total points available.

B. **MEASURE**: Projects will be scored based on two housing measures: 1. the 2019 Housing Performance Score for the city or township in which the project is located (40 points) and 2. the project's connection to affordable housing (10 points) as described below.

Part 1 (40 points): Housing Performance Score

A city or township's housing performance score is calculated annually by the Metropolitan Council using data from four categories: new affordable or mixed-income housing completed in the last ten years; preservation projects completed in the last seven years and/or substantial rehabilitation projects completed in the last three years; housing program participation and production, and housing policies and ordinances; and characteristics of the existing housing stock. Data for the housing performance scores are updated each year by the Council, and the city or township is provided with an opportunity to review and revise the information

Council staff will use the most current housing score for each city or township. If the project is located in more than one jurisdiction, the points will be awarded based on a weighted average using length or population of the project in each jurisdiction. For stand-alone intersection, bridge, underpass, and interchange projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer. If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project will not be disadvantaged by this measure and the project's total score will be adjusted during scoring to remove this scoring measure.

RESPONSE: (NOTE: The below bullets vary slightly by funding category)

- City/Township:
- Total project cost:

• Percent of total funds to be spent within City/Township: ____

Part 2 (10 points): Affordable Housing Access

This measure is a qualitative scoring measure. Describe and map any affordable housing developments— planned, under construction or existing, within ½ mile of the proposed project. The applicant should note the development stage, number of units, number of bedrooms per unit, and level of affordability using 2019 affordability limits. Also note whether the affordability is guaranteed through funding restrictions (i.e. LIHTC, 4d) or is unsubsidized, if housing choice vouchers are/will be accepted, and if there is a fair housing marketing plan required or in place.

Describe how the proposed project will improve or impact access for residents of the affordable housing locations within ½ mile of the project. This should include a description of improved access by all modes, automobiles, transit, bicycle and pedestrian access. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements.

RESPONSE:

(Limit 2,100 characters; approximately 300 words):

SCORING GUIDANCE (50 Points)

Part 1 (40 points): The applicant with the highest 2019 Housing Performance Score will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a Housing Performance Score of 55 and the top project had a Housing Performance Score of 90, this applicant would receive (55/90)*40 points or 24 points.

Projects will use the city Housing Performance Score based on the project location. If a project is located in more than one jurisdiction, the points will be awarded based on a weighted average of the city or township scores for the project location based on the length of the project in each jurisdiction. For stand-alone roadway (intersection, bridge, underpass, and interchange) projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer.

If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project's total score will be adjusted as a result. If this is the case, the hold-harmless method will be used: the total points possible in the application will be 960 instead of 1,000. The total points awarded through the rest of the application (900 as a hypothetical example) will be divided by 960, then multiplied by 1,000. Therefore, a project scoring 900 out of 960, will equate to 938 points on a 1,000-point scale. If a portion of the project is located in a city with an affordable housing allocation and the other portion is located in a township with no affordable housing allocation, then a combination of the Housing Performance Score (or weighted average) and the hold-harmless method should be used. This will result in a total score that will be somewhere between 960 and 1,000; then the score will need to be adjusted to fit a 1,000-point scale. NOTE: Any community without a Housing Performance Score in 2018 will be awarded the better of its new score in 2020 and the above method. NOTE: in these cases, the raw points from Part 2 will be included in the 960-point total.

Part 2 (10 points): The project that best provides meaningful improvements to access to the affordable

housing units will receive the full 10 points. Multiple projects may receive the highest possible score of 10 points based on this assessment. Remaining projects will receive a share of the full points at the scorer's discretion.

Final Score (50 points): The scores in Parts 1 and 2 will be totaled. If no application gets 50 points, the highest-scoring project will be awarded 50 points, with other projects adjusted proportionately.

Note: Metropolitan Council staff will score this measure.

3. Congestion Reduction/Air Quality (275-190 Points)

This criterion measures the project's ability to reduce intersection delay and emissions during peak hour conditions. In addition, it will address its ability to improve congested intersections operating at unacceptable levels of service during peak hour conditions.

A. MEASURE: Conduct a capacity analysis at one or more of the intersections being improved by the roadway project using existing turning movement counts (collected within the last three years) in the weekday a.m. or p.m. peak hour and Synchro or HCM software. The analysis must include build and no build conditions (with and without the project improvements). The applicant must show the current total peak hour delay at one or more intersections and the reduction in total peak hour intersection delay at these intersections in seconds, due to the project. If more than one intersection is examined, then the delay reduced by each intersection can be can added together to determine the total delay reduced by the project.

The applicant should include the appropriate Synchro or HCM full reports (including the Timing Page Report) that support the improvement in total peak hour delay and should conduct the analysis using the following:

- Under the network settings, all defaults should be used for lanes, saturation flow rates, volumes, and simulation
- Use Synchro's automatic optimization to determine cycle, offset and splits (for traffic signals). Use the setting when assessing delay both with and without the project. This methodology will ensure that all applicants start with their signal systems optimized when determining existing delay.
- Project improvements assumed in the build condition should be reflected in the total project cost, such as additional through or turn lanes and protective left-turn phasing
- Roadway lengths for intersection approaches must be the same length for before and after scenarios
- An average weekday should be used for the existing conditions instead of a weekend, peak holiday, or special event time period that is not representative of the corridor for most of the year
- For most projects, the volumes with and without the project should be the same; however, some project types such as new roadways, new ramps, or new interchanges may have different volumes.

Total Peak Hour Delay Reduced (Seconds) = Total Peak Hour Delay Per Vehicle x Vehicles Per Hour

RESPONSE:

- Total Peak Hour Delay/Vehicle without the Project (Seconds/Vehicle):_
- Total Peak Hour Delay/Vehicle with the Project (Seconds/Vehicle):_____

Commented [PS1]: Points may shift depending on committee feedback.

- Total Peak Hour Delay/Vehicle Reduced by the Project (Seconds/Vehicle): (automatically calculated)
- Volume with the Project (Vehicles Per Hour):
- Total Peak Hour Delay Reduced by the Project (Seconds): _____ (automatically calculated)

EXPLANATION of date of last signal retiming for signalized corridors (Limit 1,400 characters; approximately 200 words):

Upload Synchro or HCM Report

SCORING GUIDANCE (200-140 Points)

The applicant with the most peak hour vehicle delay reduced by the project improvement will receive the full points for the measure. Remaining projects will receive a proportionate share of the points. For example, if the application being scored reduced delay by 5,000 seconds and the top project reduced delay by 25,000 seconds, this applicant would receive (5,000/25,000)*200-140 points, or 40-28 points.

- B. MEASURE: Using the Synchro or HCM analysis completed in the previous measure, identify the total peak hour emissions reduction in kilograms (CO, NOX, VOC) due to the project. The applicant should include the appropriate Synchro or HCM reports (including the Timing Page Report) that support the improvement in total peak hour emissions. If more than one intersection is examined, then the emissions reduced by each intersection can be can added together to determine the total emissions reduced by the project.
 - Total Peak Hour Emissions Reduced (Kilograms) = Total Peak Hour Emissions without the project – Total Peak Hour Emissions with the Project

RESPONSE (Calculation):

- Total (CO, NOX, and VOC) Peak Hour Emissions without the Project (Kilograms):______
- Total (CO, NOX, and VOC) Peak Hour Emissions with the Project (Kilograms):
- Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):______

EXPLANATION of methodology and assumptions used (Limit 1,400 characters; approximately 200 words):

SCORING GUIDANCE (75-50 Points)

The applicant with the most kilograms reduced by the project improvement will receive the full points for the measure. Remaining projects will receive a proportionate share of the full. For example, if the application being scored reduced emissions by 3 kilograms and the top project reduced emissions by 5 kilograms, this applicant would receive $(3/5)^{*75-50}$ points or 45-30 points.

4. Safety (275360 Points)

This criterion addresses the project's ability to correct deficiencies and improve the overall safety of an existing roadway facility. It will assess the project's monetized safety benefits.

Commented [PS2]: Points may shift depending on committee feedback.

A. MEASURE: Calculate the reduction in the total number of crashes due to improvements on the A-minor arterial or non-freeway principal arterial made by the project. The applicant must base the estimate of crash reduction on the methodology consistent with the latest Highway Safety Improvement Program (HSIP) application (<u>www.dot.state.mn.us/stateaid/trafficsafety.html</u>). Applicants should focus on the crash analysis for reactive projects.

Crash data must be obtained for the project length using the MnDOT TIS system average for calendar years 2016 through 2018. Crash data should include all crash types and severities, including pedestrian and bicycle crashes.

Applicants should request crash data from MnDOT as early as possible. The applicant must then attach a listing of the crashes reduced and the HSIP Benefit/Cost (B/C) worksheet (www.dot.state.mn.us/stateaid/trafficsafety.html) that identifies the resulting benefit associated with the project. As part of the response, please detail and attach the crash modification factor(s) used from FHWA's Crash Modification Factors Clearinghouse: <u>http://www.cmfclearinghouse.org/</u>. As part of the Regional Solicitation Before & After Study, Phase 2 (2021), a list of commonly used crash modification factors (posted on the Metropolitan Council's Regional Solicitation website, under Application Resources) or find a more appropriate one on FHWA's Clearinghouse.

This measure requests the monetized safety benefit of the project. The cost of the project is scored in the Cost Effectiveness criterion.

RESPONSE:

- Crash Modification Factors Used (Limit 700 characters; approximately 100 words):
- Rationale for Crash Modifications Selected (Limit 1,400 characters; approximately 200 words): ______
- Project Benefit (\$) from B/C ratio: ____
- Total Fatal (K) Crashes:
- Total Serious Injury (A) Crashes: _
- Total Non-Motorized Fatal and Serious Injury Crashes: _____
- Total Crashes: _
- Total Fatal (K) Crashes Reduced by Project: _____
- Total Serious Injury (A) Crashes Reduced by Project: _
- Total Non-Motorized Fatal and Serious Injury Crashes Reduced by Project: _____
- Total Crashes Reduced by Project: _

Upload Crash Modification Factors and B/C Worksheet.

Commented [PS3]: New text

SCORING GUIDANCE (225-310 Points)

The applicant with the highest dollar value of benefits will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had safety benefits of \$11,000,000 and the top project had safety benefits of \$16,000,000, this applicant would receive (11,000,000/16,000,000)*225-310 points or 155-213 points.

B. MEASURE: Discuss how the project will improve safety for pedestrians. Safety countermeasures for pedestrians can include those identified by the FHWA as part of its <u>Safe Transportation for Every Pedestrian program</u> or others in its <u>Proven Safety Countermeasures</u> (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals). More information about pedestrian safety best practices is also available in MnDOT's <u>Best Practices for Pedestrian/Bicycle Safety</u>

SCORING GUIDANCE (50 Points)

The project that will provide the most improvement to pedestrian safety will receive full points. Remaining projects will receive a share of the full points at the scorer's discretion.

5. Multimodal Elements and Existing Connections (100 Points)

This criterion measures how the project improves the travel experience, safety, and security for other modes of transportation and addresses the safe integration of these modes. The Transportation Policy Plan requires that explicit consideration of all users of the transportation system be considered in the planning and scoping phase of roadway projects.

- A. **MEASURE**: Describe how the project positively affects the multimodal system.
- Discuss any bicycle, pedestrian, or transit elements that are included as part of the project and how they improve the travel experience, safety, and security for users of these modes. Applicants should make sure that new multimodal elements described in the response are accounted for as part of the cost estimate form earlier in the application. Applicants should note if there is no transit service in the project area and identify supporting studies or plans that address why a mode may not be incorporated in the project (e.g., a bicycle system plan that locates bikeway facilities on a lower-volume parallel route).
- Describe how the proposed multimodal improvements positively affect identified alignments in the Regional Bicycle Transportation Network (RBTN) or along a regional trail, if applicable.
- Describe how the proposed multimodal improvements either provide a new, or improve an
 existing Major River Bicycle Barrier Crossing (MRBBC) as defined in the 2040 Transportation
 Policy Plan (TPP) or how they provide a new or improved crossing of a Regional Bicycle Barrier
 with respect to the tiered Regional Bicycle Barrier Crossing Improvement Areas as defined in
 the TPP and Technical Addendum to the Regional Bicycle Barriers Study (May 2019), if
 applicable.
- Discuss the existing bicycle, pedestrian, and transit connections and how the project enhances these connections.
- Discuss whether the project implements specific locations identified as being deficient in a completed ADA Transition Plan.

RESPONSE (Limit 2, 800 characters; approximately 400 words):

Commented [PS4]: See information item for proposed new text, which would replace this content.

SCORING GUIDANCE (100 Points)

The project that most positively affects the multimodal system will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion. The project score will be based on the quality of the improvements, as opposed to being based solely on the number of modes addressed. Points can be earned for incorporating multimodal project elements, positively affecting identified alignments in the Regional Bicycle Transportation Network (RBTN), regional trail, Major River Bicycle Barrier Crossing, or Regional Bicycle Barrier, for making connections with existing multimodal systems, or helping to implement an ADA Transition Plan. Projects do not need all of these elements to be awarded all of the points. Multimodal elements for rural roadway projects may include wider shoulders that will be used by bicyclists and pedestrians.

6. Risk Assessment (75 Points)

This criterion measures the number of risks associated with successfully building the project. High-risk applications increase the likelihood that projects will withdraw at a later date. If this happens, the region is forced to reallocate the federal funds in a short amount of time or return them to the US Department of Transportation. These risks are outlined in the checklist in the required Risk Assessment.

A. MEASURE: Applications involving construction must complete the Risk Assessment. This checklist includes activities completed to-date, as well as an assessment of risks (e.g., right-of-way acquisition, proximity to historic properties, etc.).

RESPONSE (Complete Risk Assessment):

Please check those that apply and fill in anticipated completion dates for all projects, <u>except for</u> <u>mN</u>ew/expanded transit service projects <u>will receive full credit for items 2-5 but must fill out item</u> 1. <u>or t</u>Transit vehicle purchases will receive full credit.

1. Public Involvement (20 Percent of Points)

Projects that have been through a public process with residents and other interested public entities are more likely than others to be successful. The project applicant must indicate that events and/or targeted outreach (e.g., surveys and other web-based input) were held to help identify the transportation problem, how the potential solution was selected instead of other options, and the public involvement completed to date on the project. The focus of this section is on the opportunity for public input as opposed to the quality of input. NOTE: A written response is required and failure to respond will result in zero points.

List Dates of most recent meetings and outreach specific to this project:

- Meeting with general public: _
- Meeting with partner agencies:
- Targeted online/mail outreach: _____
 - Number of respondents: _____

100% Multiple types of targeted outreach efforts (such as meetings or online/mail outreach)Meetings specific to this project with the general public and partner agencies have been used to help identify the project need.

75% Targeted outreach specific to this project with the general public and partner agencies have been used to help identify the project need.

50% At least one meeting specific to this project with the general public has been used to help identify the project need.

50% At least one meeting online/mail outreach effort specific to this project with the general public key partner agencies has been used to help identify the project need.

25% D No meeting or outreach specific to the project was conducted, but the project was identified through meetings and/or outreach related to a larger planning effort.

0% No outreach has led to the selection of this project.

RESPONSE (Limit 2,800 characters; approximately 400 words). <u>Describe the type(s) of outreach</u> <u>selected for this project (i.e., online or in-person meetings, surveys, demonstration projects), the</u> <u>method(s) used to announce outreach opportunities, and how many people participated. Include any</u> <u>public website links to outreach opportunities.</u>

2. Layout (25 Percent of Points)

Layout should includes proposed geometrics and existing and proposed right-of-way boundaries. A basic layout should include a base map (north arrow; scale; legend;* city and/or county limits; existing ROW, labeled; existing signals;* and bridge numbers*) and design data (proposed alignments; bike and/or roadway lane widths; shoulder width;* proposed signals;* and proposed ROW). An aerial photograph with a line showing the project's termini does not suffice and will be awarded zero points.

*If applicable

100% Layout approved by the applicant and all impacted jurisdictions (i.e., cities/counties/<u>MnDOT</u> that the project goes through or agencies that maintain the roadway(s)). If a MnDOT trunk highway is impacted, approval by MnDOT must have occurred to receive full points.- A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

100% A layout does not apply (signal replacement/signal timing, stand-alone streetscaping, minor intersection improvements). Applicants that are not certain whether a layout is required should contact Colleen Brown at MnDOT Metro State Aid – colleen.brown@state.mn.us.

50% Layout completed but not approved by all jurisdictions. A PDF of the layout must be attached to receive points.

25% Layout has been started but is not complete. A PDF of the layout must be attached to receive points.

0% Layout has not been started

3. Anticipated date or date of completion: _____

4.3. Review of Section 106 Historic Resources (15 Percent of Points)

	100%		No known historic properties eligible for or listed in the National Register of Historic Places are located in the project area, and project is not located on an identified historic bridge	
	100%		There are historical/archeological properties present but determination of "no historic properties affected" is anticipated.	
	80%		Historic/archeological property impacted; determination of "no adverse effect" anticipated	
	40%		Historic/archeological property impacted; determination of "adverse effect" anticipated	
	0%		Unsure if there are any historic/archaeological properties in the project area.	
	Project	t is lo	cated on an identified historic bridge:	
	<u>5.4.</u>	Righ	nt-of-Way (25 Percent of Points)	
			Right-of-way, permanent or temporary easements <u>, and MnDOT agreement/limited-</u> mit either not required or all have been acquired	
	50% <u>agr</u>	% 🗌	Right-of-way, permanent or temporary easements <u>, and/or MnDOT</u> ent/limited-use permit required, plat, legal descriptions, or official map complete	
			Right-of-way, permanent or temporary easements <u>, and/or MnDOT</u> ent/limited-use permit required , parcels identified	
			Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited- mit required, parcels not all identified	
	Ant	ticipa	ted date or date of acquisition	
	6. 5.	Rail	road Involvement (15 Percent of Points)	
	100%		No railroad involvement on project or railroad Right-of-Way agreement is executed (include signature page, if applicable)	
	50%		Railroad Right-of-Way Agreement required; negotiations have begun	
	0%		Railroad Right-of-Way Agreement required; negotiations have not begun.	
	Anticip	ated	date or date of executed Agreement	
SCOR	ING GU		NCE (75 Points)	

The applicant with the most points on the Risk Assessment (more points equate to less project risk) will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 40 points and the top project had 70 points, this applicant would receive (40/70)*75 points or 43 points.

7. Cost Effectiveness (100 Points)

This criterion will assess the project's cost effectiveness based on the total TAB-eligible project cost (not including noise walls) and total points awarded in the previous 8 criteria. If a project has been awarded other outside, competitive funding (e.g., state bonding, Transportation Economic Development Program, Minnesota Highway Freight Program), project sponsors may reduce the total project cost for the purposes of this scoring measure by the amount of the outside funding award.

- A. **MEASURE**: This measure will calculate the cost effectiveness of the project. Metropolitan Council staff will divide the number of points awarded in the previous criteria by the TAB-eligible project cost (not including noise walls).
 - Cost effectiveness = total number of points awarded in previous criteria/total TAB-eligible project cost (not including noise walls)

RESPONSE (This measure will be calculated after the scores for the other measures are tabulated by the Scoring Committee):

- Total Project Cost (entered in Project Cost Form): _____ (automatically calculated)
- Enter amount of Noise Walls: _
- Enter amount of any outside, competitive funding (attach documentation of award):
- Points Awarded in Previous Criteria: ____ (entered by Metropolitan Council staff)

SCORING GUIDANCE (100 Points)

The applicant with the most points (i.e., the benefits) per dollar will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the top project received .0005 points per dollar and the application being scored received .00025 points per dollar, this applicant would receive (.00025/.0005)*100 points or 50 points.

The scorer for this measure will also complete a reasonableness check of the total project cost that is used for this measure. The scorer may follow up with the applicant to clarify any questions. Up to 50 percent of points awarded for this measure can be deducted if the scorer does not believe that the cost estimate is reasonable.

TOTAL: 1,100 POINTS

Strategic Capacity (Roadway Expansion)

Prioritizing Criteria and Measures

September 15, 2021

Definition: A roadway project that adds thru-lane capacity (described as a Regional Mobility project under Strategic Capacity Enhancements in the TPP). Projects must be located on a non-freeway principal arterial or A-minor arterial functionally classified roadway, consistent with the latest TAB approved functional classification map. However, A-minor connectors cannot be expanded with new thru-lane capacity with these federal funds per regional policy.

Examples of Roadway Expansion Projects:

- New roadways
- Two-lane to four-lane expansions
- Other thru-lane expansions (excludes additions of a continuous center turn lane)
- Four-lane to six-lane expansions
- New interchanges with or without associated frontage roads
- Expanded interchanges with either new ramp movements or added thru lanes
- New bridges, overpasses and underpasses

Scoring:

Criteria and Measures	Points	% of Total Points
1. Role in the Regional Transportation System and Economy	210	19%
Measure A - Congestion within Project Area, Level of Adjacent	80	
Congestion, or Principal Arterial Intersection Conversion Study Priorities		
Measure B - Connection to Total Jobs, Manufacturing/Distribution Jobs, and Students	50	
Measure C - Regional Truck Corridor Study Tiers	80	
2. Usage	175	16%
Measure A - Current daily person throughput	110	
Measure B - Forecast 2040 average daily traffic volume	65	
3. Equity and Housing Performance	100	9%
Measure A - Benefits and outreach to disadvantaged populations	50	
Measure B - Housing Performance Score/ affordable housing connection	50	
4. Infrastructure Age	40	4%
Measure A - Date of construction	40	
5. Congestion Reduction/Air Quality	150	14%
Measure A - Vehicle delay reduced	100	
Measure B - Kg of emissions reduced	50	
6. Safety	150	14%
Measure A - Crashes reduced	120	
Measure B - Pedestrian Crash Reduction (Proactive)	30	

Criteri	a and Measures	Points	% of Total Points
7.	Multimodal Elements and Existing Connections	110	10%
	Measure A - Transit, bicycle, or pedestrian project elements and connections	110	
8.	Risk Assessment	75	7%
	Measure A – Risk Assessment Form	75	
9.	Cost Effectiveness	100	9%
	Measure A – Cost effectiveness (total points awarded/total project cost)	100	
Total		1,100	

1. Role in the Regional Transportation System and Economy (210 Points)

Tying regional policy (Thrive MSP2040) to the Regional Solicitation, this criterion measures the project's ability to serve a transportation purpose within the regional transportation system and economy based on congestion in the project area, congestion levels along the regional transportation system near the project, how it aligns with the Principal Arterial Intersection Conversion Study, how it connects to employment, manufacturing/distribution-related employment, and students, and how it aligns with the Regional Truck Corridor Study.

A. **MEASURE**: Identify the level of congestion within the project area. This measure uses speed data as was used as part of the Congestion Management Process (CMP) Plan. It is anticipated that the CMP Plan will be further incorporated into the Regional Solicitation as part of the 2022 Regional Solicitation funding cycle. Also, identify the level of congestion on a parallel route and how the project area is prioritized in the Principal Arterial Intersection Conversion Study. Respond to each of the three sub-sections below. Projects will get the highest score of the three sub-sections.

Congestion within Project Area:

The measure will analyze the level of congestion within the project area. Council staff will provide travel speed data on the "Level of Congestion" map. The analysis will compare the peak hour travel speed within the project area to free-flow conditions.

RESPONSE:

- Free-Flow Travel Speed: _
- Peak Hour Travel Speed: _____
- Percentage Decrease in Travel Speed in Peak Hour compared to Free-Flow (calculation):

Upload the "Level of Congestion" map used for this measure.

Congestion on adjacent Parallel Routes:

The measure will analyze the level of congestion on an adjacent parallel A-minor arterial or principal arterial to determine the importance of the roadway in managing congestion on the Regional Highway System. Council staff will provide travel speed data on an applicant-selected adjacent parallel route that is adjacent to the proposed project on the "Level of Congestion" map. The analysis will compare the peak hour travel speed on an adjacent parallel route to free-flow conditions on this same route to understand congestion levels in the area of the

project, which correlates to the role that the project plays in the regional transportation system and economy. The applicant must identify the adjacent parallel corridor as part of the response. The end points of this adjacent parallel corridor must align as closely as possible to the project end points.

RESPONSE:

- Adjacent Parallel Corridor:
- Adjacent Parallel Corridor Start and End Points: _____
- Free-Flow Travel Speed): _
- Percentage Decrease in Travel Speed in Peak Hour Compared to Free-Flow (calculation):

Upload the "Level of Congestion" map used for this measure.

Principal Arterial Intersection Conversion Study:

The measure relies on the results of the Principal Arterial Intersection Conversion Study, which prioritized non-freeway principal arterial intersections. In addition to interchange projects, other lane expansion projects that make improvements to a low-, medium-, or high-priority intersection can also earn points in this measure.

Use the final study report for this measure: metrocouncil.org/PAICS

RESPONSE (Select one for your project, based on the Principal Arterial Intersection Conversion Study):

- Proposed interchange or at-grade project that reduces delay at a High Priority Intersection:

 (80 Points)
- Proposed at-grade project that reduces delay at a Medium Priority Intersection: □ (60 Points)
- Proposed at-grade project that reduces delay at a Low Priority Intersection: □ (50 Points)
- Proposed interchange project that reduces delay at a Medium Priority Intersection: □ (40 Points)
- Proposed interchange project that reduces delay at a Low Priority Intersection: □ (0 Points)
- Not listed as a priority in the study: □ (0 Points)

SCORING GUIDANCE (80 Points)

Due to the three scoring methods, more than one project can score the maximum points. In order to be awarded points for this measure the proposed project itself must show some delay reduction in measure 5A. If the project does not reduce delay, then it will score 0 points for this measure.

Congestion within Project Area: The applicant with the most congestion within the project area (measured by the largest percentage decrease in peak hour travel speeds relative to free-flow conditions) will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored showed a 5% decrease of travel speeds in the peak hour relative to free flow conditions and the top project had a 10% reduction, this applicant would receive (5/10)*80 points, or 40 points. If the project covers more than one segment of speed data, the

applicants can use the one that is most beneficial to their score.

Congestion on adjacent Parallel Routes: The applicant with the most congestion on an adjacent parallel route (measured by the largest percentage decrease in peak hour travel speeds relative to free-flow conditions) will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored showed a 5% decrease of travel speeds in the peak hour on the adjacent parallel route relative to free flow conditions and the top project had a 10% reduction, this applicant would receive (5/10)*80 points, or 40 points. Applicants can use the adjacent parallel route that is most beneficial to their score.

Principal Arterial Intersection Conversion Study: Projects will be scored based on their Principal Arterial Intersection Conversion Study priorities.

The scorer will assess if the applicant would score highest with congestion on the adjacent parallel routes part of the measure or the Principal Arterial Intersection Conversion Study part of the measure and give the applicant the highest of the two scores out of a maximum of 80 points. However, all interchange projects must only use the scoring output from the Principal Arterial Intersection Conversion Study.

Note: Due to the use of multiple sub-sections, multiple applicants may receive the full 80 points.

B. **MEASURE**: Reference the "Regional Economy" map generated at the beginning of the application process. Report the existing employment, manufacturing/distribution-related employment, and post-secondary students enrolled within one mile, as depicted on the "Regional Economy" map.

RESPONSE (Data from the "Regional Economy" map):

- Existing Employment within 1 Mile:_____(Maximum of 50 points)
- Existing Manufacturing/Distribution-Related Employment within 1 Mile: (Maximum of 50 points)
- Existing Post-Secondary Students within 1 Mile: _____(Maximum of 30 points)
- Upload the "Regional Economy" map used for this measure.

SCORING GUIDANCE (50 Points)

All Census block groups that are included within or intersect the buffer area around the project will be included.

The applicant with the highest existing total employment will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 1,000 workers within one mile and the top project had 1,500 workers, this applicant would receive (1,000/1,500)*50 points or 33 points.

The applicant with the highest existing manufacturing/distribution-related employment will receive the full points. Remaining projects will receive a proportionate share of the full points equal to the existing manufacturing/distribution-related employment within one mile of the project being scored divided by the project with the highest manufacturing/distribution-related employment within one mile multiplied by the maximum points available for the measure. For example, if the application being scored had 1,000 manufacturing/distribution-related workers within one mile and the top project had 1,500

manufacturing/distribution-related workers, this applicant would receive (1,000/1,500)*50 points or 33 points.

The applicant with the highest number of post-secondary students will receive 30 points. Remaining projects will receive a proportionate share of the 30 points. For example, if the application being scored had 1,000 students within one mile and the top project had 1,500 students, this applicant would receive (1,000/1,500)*30 points or 20 points.

The scorer will assess if the applicant would score highest with the total employment part of the measure, the manufacturing/distribution employment part of the measure, or the education part of the measure and give the applicant the highest of the three scores out of a maximum of 50 points.

Note: Due to the use of multiple sub-measures, two applicants can receive the full 50 points.

C. MEASURE: This criterion relies on the results on the Truck Highway Corridor Study, which prioritized all principal and minor arterials based on truck volume, truck percentage of total traffic, proximity to freight industry clusters, and proximity to regional freight terminals. <u>The truck corridors were grouped into tiers 1, 2, and 3, in order of priority. Use the 2021 Updated Regional Truck Corridors tiers to respond to this measure: 2021 Updated Regional Truck Corridors.</u> (80 points)

Use the final study report for this measure:

RESPONSE: (Select one for your project, based on the <u>2021 updated</u> Regional Truck Corridors Study):

- Along Tier 1: □ Miles (to the nearest 0.1 miles) :______
- Along Tier 2: □ Miles (to the nearest 0.1 miles) :_____
- Along Tier 3: □ Miles (to the nearest 0.1 miles) :_
- The project provides a direct and immediate connection (i.e., intersects) with either a Tier 1, Tier 2, or Tier 3 corridor:
- None of the tiers: □

SCORING GUIDANCE (80 Points)

Applicants will be awarded points as assigned in the above tiers:

- Projects along Tier 1: 80 points
- Projects along Tier 2: 60 points
- Projects along Tier 3: 40 points
- Projects that that provide a direct and immediate connection to a corridor: 10 points.
- None of the tiers: 0 points

If no applicant is along Tier 1, the top-scoring application(s) will be adjusted to 80 points, with the others adjusted proportionately.

Note: Due to the use of tiered scoring, multiple applications can receive the full points.

2. Usage (175 Points)

This criterion quantifies the project's potential impact by measuring the current daily person throughput and future vehicular traffic that will be served by the project. These roadway users directly benefit from the project improvements on the A-minor arterial or non-freeway principal arterial.

- A. MEASURE: The applicant must identify the location along the project length and provide the current AADT volume from the <u>MnDOT Traffic Mapping Application MnDOT 50 series maps</u> (select Twin Cities Metro Area Street Series under Traffic Volume (AADT)) and existing transit routes that travel on the road (reference "Transit Connections" map). <u>Due to the potential timing issues with when a traffic count was taken relative to the COVID-19 pandemic (and resulting drop in traffic Mapping Application (instructions under the Help Document). Ridership data will be provided by the Metropolitan Council staff, if public transit is currently provided on the project length. Metropolitan Council staff will calculate the current daily person throughput at one location along the A-minor arterial or non-freeway principal arterial project length using the current average annual daily traffic (AADT) volume and average annual ridership.</u>
 - Current Daily Person Throughput = (current average annual daily traffic volume x 1.30 vehicle occupancy) + average annual daily transit ridership (2019)
 - For new roadways, identify the estimated existing daily traffic volume based on traffic modeling.

RESPONSE:

- Location:
- Current AADT volume:
- Existing Transit Routes on the Project:____

Transit routes that will likely be diverted to the new proposed roadway (if applicable):_____Upload "Transit Connections" map.

SCORING GUIDANCE (110 Points)

The applicant with highest current daily person throughput will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a daily person throughput of 1,000 people and the top project had a daily person throughput of 1,000 people, this applicant would receive (1,000/1,500)*110 points or 73 points.

- B. MEASURE: Provide the forecast (2040) average daily traffic volume at the same location along the A-minor arterial or non-freeway principal arterial project length, as identified in the previous measure. The applicant may choose to use a county or city travel demand model based on the Metropolitan Council model to identify the forecast (2040) average daily traffic volume or have Metropolitan Council staff determine the forecast volume using the Metropolitan Council model and project location. Respond as appropriate to the use of one type of forecast model. (65 Points)
 - · For new roadways, identify the modeled forecast daily traffic volume

RESPONSE:

• Use Metropolitan Council model to determine forecast (2040) ADT volume□

Commented [PS1]: New text

Commented [PS2]: Confirm year

• If checked, METC Staff will provide Forecast (2040) ADT volume _

OR

RESPONSE:

- Identify the approved county or city travel demand model to determine forecast (2040) ADT volume: ______
- Forecast (2040) ADT volume: _____

SCORING GUIDANCE (65 Points)

The applicant with the highest forecast (2040) ADT volume will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a daily forecast of 28,000 vehicles and the top project had a daily forecast of 32,000 vehicles, this applicant would receive (28,000/32,000)*65 points or 57 points.

3. Equity and Housing Performance (100 Points)

This criterion addresses the *Council's role in advancing equity* by examining how a project directly provides benefits to, or impacts (positive and negative) low-income populations, people of color, people with disabilities, youth and the elderlyolder adults. The criterion evaluates whether the applicant engaged these populations to identify transportation needs and potential solutions and how the project will address these identified needs. The criterion also evaluates a community's overall efforts to implement affordable housing and how the project improves multimodal access to affordable housing residents.

A. MEASURE: Socio-Economic Equity

1. Sub-measure: Equity Population Engagement (0 to 20 points): A successful project is one that is the result of active engagement of low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. Engagement should occur prior to and during a project's development, with the intent to provide direct benefits to, or solve, an expressed transportation issue, while also limiting and mitigating any negative impacts. Describe and map the location of any low-income populations, people of color, disabled populations, youth or the elderlyolder adults within a 1/2 mile of the proposed project. Describe how these specific populations were engaged and provided outreach to, whether through community planning efforts, project needs identification, or during the project development process. Describe what engagement methods and tools were used and how the input from these groups is reflected in the project's' purpose and need and design. Elements of quality engagement include: outreach and engagement to specific communities and populations that are likely to be directly impacted by the project; techniques to reach out to populations traditionally not involved in community engagement related to transportation projects; feedback from these populations identifying potential positive and negative elements of the proposed project through engagement, study recommendations, or plans that provide feedback from populations that may be impacted by the proposed project. If relevant, describe how NEPA or Title VI regulations will guide engagement activities.

(Limit 1,400 characters; approximately 200 words):

- 2. Sub-measure: Equity Population Benefits and Impacts (0 to 30 points): A successful project is one that has been designed to provide direct benefits to low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. All projects must mitigate potential negative benefits as required under federal law. Projects that are designed to provide benefits go beyond the mitigation requirement to proactively provide transportation benefits and solve transportation issues experienced by Equity populations.
 - a. (0 to 30 points) Describe the project's benefits to low-income populations, people of color, children, people with disabilities, and the elderlyolder adults. Benefits could relate to pedestrian and bicycle safety improvements; public health benefits; direct access improvements for residents or improved access to destinations such as jobs, school, health care or other; travel time improvements; gap closures; new transportation services or modal options, leveraging of other beneficial projects and investments; and/or community connection and cohesion improvements. Note that this is not an exhaustive list.

(Limit 2,800 characters; approximately 400 words):

b. (-10 to 0 points) Describe any negative impacts to low-income populations, people of color, children, people with disabilities, and the olderlyolder adults created by the project, along with measures that will be taken to mitigate them. Negative impacts that are not adequately mitigated can result in a reduction in points.

(Limit 2,800 characters; approximately 400 words):

Below is a list of negative impacts. Note that this is not an exhaustive list.

- Increased difficulty in street crossing caused by increased roadway width, increased traffic speed, wider turning radii, or other elements that negatively impact pedestrian access.
- Increased noise.
- Decreased pedestrian access through sidewalk removal / narrowing, placement of barriers along the walking path, increase in auto-oriented curb cuts, etc.
- Project elements that are detrimental to location-based air quality by increasing stop/start
 activity at intersections, creating vehicle idling areas, directing an increased number of
 vehicles to a particular point, etc.
- Increased speed and/or "cut-through" traffic.
- Removed or diminished safe bicycle access.
- Inclusion of some other barrier to access to jobs and other destinations.

- Displacement of residents and businesses.
- Mitigation of temporary construction/implementation impacts such as dust; noise; reduced access for travelers and to businesses; disruption of utilities; and eliminated street crossings.
- Other
- 3. Sub-measure: Bonus Points (0 to 25 points) Those projects that score at least 80% of the maximum total points available through sub-measures 1 and 2 will be awarded bonus points based on the geographic location of the project. These points will be assigned as follows, based on the highest-scoring geography the project contacts:
 - a. 25 points to projects within an Area of Concentrated Poverty with 50% or more people of color
 - b.a. <u>20-25</u> points to projects within an Area of Concentrated Poverty
 - e.<u>b.</u>15 points to projects within census tracts with the percent of population in poverty or population of color above the regional average percent
 - d.c.10 points for all other areas

Upload the "Socio-Economic Conditions" map used for this measure.

RESPONSE (Select one, based on the "Socio-Economic Conditions" map):

- Project is located in an Area of Concentrated Poverty where 50% or more of residents are people of color (ACP50):
- Project is located in an Area of Concentrated Poverty: □
- Project's census tracts are above the regional average for population in poverty or population of color:
- Project located in a census tract that is below the regional average for population in poverty
 or populations of color, or includes children, people with disabilities, or the elderly:

SCORING GUIDANCE (50 Points)

Each application will be qualitatively scored based on the available points for each measure and will receive the number of points awarded. If the applicant receives at least 80% of the available points, i.e., 40 points for the Roadway applications, the project will receive Bonus points as described under sub-measure 3. If an applicant qualifies for Bonus points it will result in a Socio-Economic Equity score of more than the total points available.

B. **MEASURE**: Projects will be scored based on two housing measures: 1. the 2019 Housing Performance Score for the city or township in which the project is located (40 points) and 2. the project's connection to affordable housing (10 points) as described below.

Part 1 (40 points): Housing Performance Score

A city or township's housing performance score is calculated annually by the Metropolitan Council using data from four categories: new affordable or mixed-income housing completed in the last ten years; preservation projects completed in the last seven years and/or substantial rehabilitation projects completed in the last three years; housing program participation and production, and housing policies and ordinances; and characteristics of the existing housing stock. Data for the housing performance scores are updated each year by the Council, and the city or township is provided with an opportunity to review and revise the information.

Council staff will use the most current housing score for each city or township. If the project is located in more than one jurisdiction, the points will be awarded based on a weighted average using length or population of the project in each jurisdiction. For stand-alone intersection, bridge, underpass, and interchange projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer. If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project will not be disadvantaged by this measure and the project's total score will be adjusted during scoring to remove this scoring measure.

RESPONSE: (NOTE: The below bullets vary slightly by funding category)

- City/Township:
- Total project cost:
- Length of Segment (For stand-alone projects, enter population from Regional Economy map) within each City/Township:
- Percent of total funds to be spent within City/Township: _____

Part 2 (10 points): Affordable Housing Access

This measure is a qualitative scoring measure. Describe and map any affordable housing developments— planned, under construction or existing, within ½ mile of the proposed project. The applicant should note the development stage, number of units, number of bedrooms per unit, and level of affordability using 2019 affordability limits. Also note whether the affordability is guaranteed through funding restrictions (i.e. LIHTC, 4d) or is unsubsidized, if housing choice vouchers are/will be accepted, and if there is a fair housing marketing plan required or in place.

Describe how the proposed project will improve or impact access for residents of the affordable housing locations within ½ mile of the project. This should include a description of improved access by all modes, automobiles, transit, bicycle and pedestrian access. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements.

RESPONSE:

(Limit 2,100 characters; approximately 300 words):

SCORING GUIDANCE (50 Points)

Part 1 (40 points): The applicant with the highest 2019 Housing Performance Score will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a Housing Performance Score of 55 and the top project had a Housing Performance Score of 90, this applicant would receive (55/90)*40 points or 24 points.

Projects will use the city Housing Performance Score based on the project location. If a project is located in more than one jurisdiction, the points will be awarded based on a weighted average of the city or township scores for the project location based on the length of the project in each jurisdiction. For stand-alone roadway (intersection, bridge, underpass, and interchange) projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points

will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer.

If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project's total score will be adjusted as a result. If this is the case, the hold-harmless method will be used: the total points possible in the application will be 960 instead of 1,000. The total points awarded through the rest of the application (900 as a hypothetical example) will be divided by 960, then multiplied by 1,000. Therefore, a project scoring 900 out of 960, will equate to 938 points on a 1,000-point scale. If a portion of the project is located in a city with an affordable housing allocation and the other portion is located in a township with no affordable housing allocation, then a combination of the Housing Performance Score (or weighted average) and the hold-harmless method should be used. This will result in a total score that will be somewhere between 960 and 1,000; then the score will need to be adjusted to fit a 1,000-point scale. NOTE: Any community without a Housing Performance Score in 2018 will be awarded the better of its new score in 2020 and the above method. NOTE: in these cases, the raw points from Part 2 will be included in the 960-point total.

Part 2 (10 points): The project that best provides meaningful improvements to access to the affordable housing units will receive the full 10 points. Multiple projects may receive the highest possible score of 10 points based on this assessment. Remaining projects will receive a share of the full points at the scorer's discretion.

Final Score (50 points): The scores in Parts 1 and 2 will be totaled. If no application gets 50 points, the highest-scoring project will be awarded 50 points, with other projects adjusted proportionately.

Note: Metropolitan Council staff will score this measure.

4. Infrastructure Age (40 Points)

This criterion will assess the age of the roadway facility being improved. Roadway improvement investments should focus on the higher needs of an aging facility, whereas improvements to a recently reconstructed roadway does not display as efficient use of funds.

A. MEASURE: Identify the year of the roadway's original construction or most recent reconstruction. If the reconstruction date is used for the roadway, a full reconstruction must have been completed during the indicated year. Routine maintenance, such as an overlay or sealcoating project does not constitute a reconstruction and should not be used to determine the infrastructure age.

If construction was completed over several years, enter the segment lengths for each year. The average age will be calculated.

RESPONSE:

- Year of original roadway construction or most recent reconstruction: _____
- Segment length: _
- Average Age: _____ (online calculation)

SCORING GUIDANCE (40 Points)

The applicant with the oldest roadway will receive full points. Remaining projects will receive a

proportionate share of the full points. For example, if the application being scored was constructed 41 years ago and the oldest project was constructed 48 years ago, this applicant would receive (41/48)*40 points or 34 points.

This measure is not applicable to new roadway projects, so the project's total score for new roadways will be adjusted as a result.

If this is the case, then the total points possible in the application will be 960 instead of 1,000. The total points awarded through the rest of the application (900 as a hypothetical example) will be divided by 960, then multiplied by 1,000. Therefore, a project scoring 900 out of 960, will equate to 938 points on a 1,000-point scale.

Note: Because of the reporting of year of construction, it is possible for multiple projects to receive the full allotment of 40 points.

5. Congestion Reduction/Air Quality (150 Points)

This criterion measures the project's ability to reduce intersection delay and emissions during peak hour conditions. In addition, it will address its ability to improve congested intersections operating at unacceptable levels of service during peak hour conditions.

- A. MEASURE: Conduct a capacity analysis at one or more of the intersections (or rail crossings) being improved by the roadway project using existing turning movement counts (collected within the last three years) in the weekday a.m. or p.m. peak hour and Synchro or HCM software. The analysis must include build and no build conditions (with and without the project improvements). The applicant must show the current total peak hour delay at one or more intersections (or rail crossings) and the reduction in total peak hour intersection delay at these intersections (or rail crossings) in seconds, due to the project. If more than one intersection is examined, then the delay reduced by each intersection (or rail crossing) can be can added together to determine the total delay reduced by the project.
 - For new roadways, identify the key intersection(s) on any parallel roadway(s) that will experience reduced delay as a result of traffic diverting to the new roadway. If more than one intersection is examined, then the delay reduced by each intersection can be can added together.
 - For roadway projects that include a railroad crossing, the applicant should conduct fieldwork during either the weekday a.m. or p.m. peak hour to determine the total peak hour delay reduced by the project. Applicants can also add together intersection delay reduced and railroad delay reduced, if they both will be improved by the project.

The applicant should include the appropriate Synchro or HCM full reports (including the Timing Page Report) that support the improvement in total peak hour delay and should conduct the analysis using the following:

- Under the network settings, all defaults should be used for lanes, saturation flow rates, volumes, and simulation
- Use Synchro's automatic optimization to determine cycle, offset and splits (for traffic signals). Use the setting when assessing delay both with and without the project. This methodology will ensure that all applicants start with their signal systems optimized when determining existing delay.

- Project improvements assumed in the build condition should be reflected in the total project cost, such as additional through or turn lanes and protective left-turn phasing
- Roadway lengths for intersection approaches must be the same length for before and after scenarios
- An average weekday should be used for the existing conditions instead of a weekend, peak holiday, or special event time period that is not representative of the corridor for most of the year
- For most projects, the volumes with and without the project should be the same; however, some project types such as new roadways, new ramps, or new interchanges may have different volumes.

Total Peak Hour Delay Reduced (Seconds) = Total Peak Hour Delay Per Vehicle x Vehicles Per Hour

RESPONSE:

- Total Peak Hour Delay/Vehicle without the Project (Seconds/Vehicle):_____
- Total Peak Hour Delay/Vehicle with the Project (Seconds/Vehicle):_
- Total Peak Hour Delay/Vehicle Reduced by the Project (Seconds/Vehicle): (automatically calculated)
- Volume without the Project (Vehicles Per Hour): _
- Volume with the Project (Vehicles Per Hour): _
- Total Peak Hour Delay Reduced by the Project (Seconds): _____ (automatically calculated)

EXPLANATION of methodology used to calculate railroad crossing delay, if applicable, or date of last signal retiming for signalized corridors (Limit 1,400 characters; approximately 200 words):

Upload Synchro or HCM Report

SCORING GUIDANCE (100 Points)

The applicant with the most peak hour vehicle delay reduced by the project improvement will receive the full points for the measure. Remaining projects will receive a proportionate share of the points. For example, if the application being scored reduced delay by 5,000 seconds and the top project reduced delay by 25,000 seconds, this applicant would receive (5,000/25,000)*100 points, or 20 points.

B. MEASURE: Using the Synchro or HCM analysis completed in the previous measure, identify the total peak hour emissions reduction in kilograms (CO, NOX, VOC) due to the project. The applicant should include the appropriate Synchro or HCM reports (including the Timing Page Report) that support the improvement in total peak hour emissions. If more than one intersection is examined, then the emissions reduced by each intersection can be can added together to determine the total emissions reduced by the project.

Roadway projects that do not include new roadway segments or railroad gradeseparation elements:

 Total Peak Hour Emissions Reduced (Kilograms) = Total Peak Hour Emissions without the project – Total Peak Hour Emissions with the Project

RESPONSE (Calculation):

- Total (CO, NOX, and VOC) Peak Hour Emissions without the Project (Kilograms):______
- Total (CO, NOX, and VOC) Peak Hour Emissions with the Project (Kilograms):
- Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project
- (Kilograms):_____

Roadway projects that are constructing new roadway segments, but do not include railroad grade-separation elements:

For new roadways, identify the key intersection(s) on any parallel roadway(s) that will experience reduced emissions as a result of traffic diverting to the new roadway (using Synchro). If more than one intersection is examined, then the emissions reduced by each intersection can be can added together.

However, new roadways will also generate new emissions compared to existing conditions as traffic diverts from the parallel roadways. The applicant needs to estimate four variables to determine the new emissions generated once the project is completed on any major intersections. Those variables include: speed, vehicle mile traveled, delay, and total vehicle stops. The applicant needs to detail any assumptions used for conditions after the project is built. The variables will be used in the exact same equation used Synchro required of the other project types.

The equation below should only be used to estimate the new emissions generated by new roadways.

Enter data for Parallel Roadways and New Roadways.

Parallel Roadways

 Total Peak Hour Emissions Reduced (Kilograms) = Total Peak Hour Emissions without the project – Total Peak Hour Emissions with the Project

RESPONSE:

- Total (CO, NOX, and VOC) Peak Hour Emissions without the Project (Kilograms): ______ (Applicant inputs number)
- Total (CO, NOX, and VOC) Peak Hour Emissions with the Project (Kilograms): ______ (Applicant inputs number)
- Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):_____ (Online Calculation)

New Roadway Portion

Enter data for New Roadway.

- Cruise speed in miles per hour with the project:_____ (Applicant inputs number)
- Vehicle miles traveled with the project: _____ (Applicant inputs number)
- Total delay in hours with the project: ______(Applicant inputs number)
- Total stops in vehicles per hour with the project:_____ (Applicant inputs number)
- Fuel consumption in gallons: _____ (Applicant inputs number)

 Total (CO, NOX, and VOC) Peak Hour Emissions Reduced or Produced on New Roadway (Kilograms):______

EXPLANATION of methodology and assumptions used: (Limit 1,400 characters; approximately 200 words)

Speed = cruise speed in miles per hour Total Travel = vehicle miles traveled Total Delay = total delay in hours Stops = total stops in vehicles per hour K4 = 0.075283-0.0015892 * Speed + 0.000015066 * Speed2 K2 = 0.7329 K5 = 0.0000061411 * Speed2

F2 = Fuel consumption in gallons

CO = F2 * 0.0699 kg/gallon NOX = F2 * 0.0136 kg/gallon VOC = F2 * 0.0162 kg/gallon

Total = Total Peak Hour Emissions reduced on Parallel Roadways - (CO + NOx + VOC)

 Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms): ______ (calculated online)

Roadway projects that include railroad grade-separation elements:

For roadway projects that include a railroad crossing, the applicant needs to input four variables before and after the project to determine the change in emissions. Those variables include: speed, vehicle mile traveled, delay, and total vehicle stops. The applicant needs to conduct fieldwork during either the a.m. or p.m. peak hour to determine the existing conditions and then detail any assumptions used for conditions after the project is built. The variables will be used in the exact same equation used within the software program (i.e., Synchro) required of the other project types. Therefore, the approach to calculate the kilograms emissions reduced for railroad grade-separation projects will be comparable to intersection improvement projects.

RESPONSE:

- Cruise speed in miles per hour without the project:_____ (Applicant inputs number)
- Vehicle miles traveled without the project: _____ (Applicant inputs number)
- Total delay in hours without the project:_____ (Applicant inputs number)
- Total stops in vehicles per hour without the project: _____ (Applicant inputs number)
- Cruise speed in miles per hour with the project: _____ (Applicant inputs number)
- Vehicle miles traveled with the project:_____ (Applicant inputs number)
- Total delay in hours with the project: _____ (Applicant inputs number)
- Total stops in vehicles per hour with the project: _____ (Applicant inputs number)
- Fuel consumption in gallons (F1)
- Fuel consumption in gallons (F2)
- Fuel consumption in gallons (F3)

Speed = cruise speed in miles per hour Total Travel = vehicle miles traveled Total Delay = total delay in hours Stops = total stops in vehicles per hour K1 = 0.075283-0.0015892 * Speed + 0.000015066 * Speed2 K2 = 0.7329 K3 = 0.0000061411 * Speed2

F1 (or F2 - without the project) = Fuel consumption in gallons

F1 = Total Travel * k1 + Total Delay * k2 + Stops * k3 F2 = Total Travel * k1 + Total Delay * k2 + Stops * k3

F3 = F1 - F2

CO = F3 * 0.0699 kg/gallon NOX = F3 * 0.0136 kg/gallon VOC = F3 * 0.0162 kg/gallon

Equation Automatically Provides Emissions Reduced:

Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):
 _____ (Online Calculation)

EXPLANATION of methodology and assumptions used (Limit 1,400 characters; approximately 200 words):

SCORING GUIDANCE (50 Points)

The applicant with the most kilograms reduced by the project improvement will receive the full points for the measure. Remaining projects will receive a proportionate share of the full. For example, if the application being scored reduced emissions by 3 kilograms and the top project reduced emissions by 5 kilograms, this applicant would receive (3/5)*50 points or 30 points.

6. Safety (150 Points)

This criterion addresses the project's ability to correct deficiencies and improve the overall safety of an existing or future roadway facility. It will assess the project's monetized safety benefits.

A. **MEASURE**: Respond as appropriate to one of the two project types below.

Roadway projects that do not include railroad grade-separation elements:

Calculate the reduction in the total number of crashes due to improvements on the A-minor arterial or non-freeway principal arterial made by the project. The applicant must base the estimate of crash reduction on the methodology consistent with the latest Highway Safety Improvement Program (HSIP) application (<u>www.dot.state.mn.us/stateaid/trafficsafety.html</u>). Applicants should focus on the crash analysis for reactive projects.

Crash data must be obtained for the project length using the MnDOT TIS system average for calendar years <u>2016-2018</u> through <u>20182020</u>. Crash data should include all crash types and severities, including pedestrian and bicycle crashes.

Applicants should request crash data from MnDOT as early as possible. The applicant must then attach a listing of the crashes reduced and the HSIP Benefit/Cost (B/C) worksheet (<u>www.dot.state.mn.us/stateaid/trafficsafety.html</u>) that identifies the resulting benefit associated with the project. As part of the response, please detail and attach the crash modification factor(s) used from FHWA's Crash Modification Factors Clearinghouse:

http://www.cmfclearinghouse.org/. As part of the Regional Solicitation Before & After Study, Phase 2 (2021), a list of commonly used crash modification factors was created. Applicants have the option to use these crash modification factors (posted on the Metropolitan Council's Regional Solicitation website, under Application Resources) or find a more appropriate one on FHWA's Clearinghouse.

This measure requests the monetized safety benefit of the project. The cost of the project is scored in the Cost Effectiveness criterion.

New Roadways:

- 1. For new roadways, identify the parallel roadway(s) from which traffic will be diverted to the new roadway.
- Using the crash data for 20162018-20182020, calculate the existing crash rate for the parallel roadway(s) identified in Step 1.
- 3. Identify the daily traffic volume that will be relocated from the parallel roadway(s) to the new roadway.
- 4. Calculate the number of crashes on the parallel roadway(s) using the existing crash rate from Step 2 and the relocated traffic volume to determine the change in number of crashes due to the relocated traffic volume. For instance, if 5,000 vehicles are expected to relocate from the existing parallel roadway to the new roadway, calculate the number of crashes related to the 5,000 vehicles.
- Identify the average crash rate for the new roadway using MnDOT's average crash rates by roadway type. Using the average crash rate for the new roadway, calculate the number of crashes related to the relocated traffic (i.e., the 5,000 vehicles).
- Calculate the crash reduction factor using the existing number of crashes on the existing parallel roadway (Step 4) compared to the estimated crashes calculated for the new roadway (Step 5), due to the relocated traffic volume (i.e., the 5,000 vehicles).
- 7. The calculated crash reduction factor should be used in the HSIP B/C worksheet.
- 8. Upload additional documentation materials into the "Other Attachments" Form in the online application.

RESPONSE:

- Crash Modification Factor Used (Limit 700 characters; approximately 100 words): _____
- Rationale for Crash Modifications Selected (Limit 1,400 characters; approximately 200 words): ______
- Project Benefit (\$) from B/C ratio: _____
- Total Fatal (K) Crashes:
- Total Serious Injury (A) Crashes: ____
- Total Non-Motorized Fatal and Serious Injury Crashes:
- Total Crashes: ____

Commented [PS3]: New text

- Total Serious Injury (A) Crashes Reduced by Project:
- Total Non-Motorized Fatal and Serious Injury Crashes Reduced by Project: _____
- Total Crashes Reduced by Project: ____

Upload Crash Modification Factors and B/C Worksheet.

Roadway projects that include railroad grade-separation elements:

Since the number of observed crashes at an existing at-grade railroad crossing is minor compared to an intersection, this measure will assess crash risk exposure that exists in order to compare projects. As a proactive safety measure, railroad grade-separation projects eliminate the crash risk exposure.

 Crash Risk Exposure Eliminated = current average annual daily traffic volume x average number of daily trains at the at-grade crossing

RESPONSE (Calculation):

- Current AADT volume:_
- Average daily trains:_____
- Crash Risk Exposure eliminated: (automatically calculated) _____

SCORING GUIDANCE (150 Points)

This measure will be considered separately for projects that do and do not include a railroad gradeseparation project. As a result, two projects (one project without a railroad grade-separation project and one with a railroad grade-separation project) may receive the full points.

For projects that do not include a grade-separation project, the applicant with the highest dollar value of benefits will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had safety benefits of \$11,000,000 and the top project had safety benefits of \$16,000,000, this applicant would receive (11,000,000/16,000,000)*150 points or 103 points.

For railroad grade-separation projects, the applicant with the highest crash risk exposure eliminated due to the project will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored reduced 11,000 exposures and the top project reduced 16,000 exposures this applicant would receive (11,000 /16,000)*150 points or 103 points.

B. MEASURE: Discuss how the project will improve safety for pedestrians. Safety countermeasures for pedestrians can include those identified by the FHWA as part of its <u>Safe Transportation for Every Pedestrian program</u> or others in its <u>Proven Safety Countermeasures</u> (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals). More information about pedestrian safety best practices is also available in MnDOT's <u>Best Practices for Pedestrian/Bicycle Safety</u>.

SCORING GUIDANCE (30 Points)

The project that will provide the most improvement to pedestrian safety will receive full points. Remaining projects will receive a share of the full points at the scorer's discretion.

7. Multimodal Elements and Existing Connections (100 Points)

This criterion measures how the project improves the travel experience, safety, and security for other modes of transportation and addresses the safe integration of these modes. The Transportation Policy Plan requires that explicit consideration of all users of the transportation system be considered in the planning and scoping phase of roadway projects.

- A. **MEASURE**: Describe how the project positively affects the multimodal system.
- Discuss any bicycle, pedestrian, or transit elements that are included as part of the project and how they improve the travel experience, safety, and security for users of these modes. Applicants should make sure that new multimodal elements described in the response are accounted for as part of the cost estimate form earlier in the application. Applicants should note if there is no transit service in the project area and identify supporting studies or plans that address why a mode may not be incorporated in the project (e.g., a bicycle system plan that locates bikeway facilities on a lower-volume parallel route).
- Describe how the proposed multimodal improvements positively affect identified alignments in the Regional Bicycle Transportation Network (RBTN) or along a regional trail, if applicable.
- Describe how the proposed multimodal improvements either provide a new, or improve an
 existing Major River Bicycle Barrier Crossing (MRBBC) as defined in the 2040 Transportation
 Policy Plan (TPP) or how they provide a new or improved crossing of a Regional Bicycle Barrier
 with respect to the tiered Regional Bicycle Barrier Crossing Improvement Areas as defined in
 the TPP and Technical Addendum to the Regional Bicycle Barriers Study (May 2019), if
 applicable.
- Discuss the existing bicycle, pedestrian, and transit connections and how the project enhances these connections.
- Discuss whether the project implements specific locations identified as being deficient in a completed ADA Transition Plan.

RESPONSE (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (100 Points)

The project that most positively affects the multimodal system will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion. The project score will be based on the quality of the improvements, as opposed to being based solely on the number of modes addressed. Points can be earned for incorporating multimodal project elements, positively affecting identified alignments in the Regional Bicycle Transportation Network (RBTN), regional trail, Major River Bicycle Barrier Crossing, or Regional Bicycle Barrier, for making connections with existing multimodal systems, or helping to implement an ADA Transition Plan. Projects do not need all of these elements to be awarded all of the points. Multimodal elements for rural roadway projects may include wider shoulders that will be used by bicyclists and pedestrians.

8. Risk Assessment (75 Points)

This criterion measures the number of risks associated with successfully building the project. High-risk applications increase the likelihood that projects will withdraw at a later date. If this happens, the region is forced to reallocate the federal funds in a short amount of time or return them to the US Department of Transportation. These risks are outlined in the checklist in the required Risk Assessment.

Commented [PS4]: See information item for proposed new text, which would replace this content.

A. MEASURE: Applications involving construction must complete the Risk Assessment. This checklist includes activities completed to-date, as well as an assessment of risks (e.g., right-of-way acquisition, proximity to historic properties, etc.).

RESPONSE (Complete Risk Assessment):

Please check those that apply and fill in anticipated completion dates for all projects, <u>except for</u> <u>mN</u>ew/expanded transit service projects <u>will receive full credit for items 2-5 but must fill out item</u> 1. <u>or t</u>Transit vehicle purchases will receive full credit.

1. Public Involvement (20 Percent of Points)

Projects that have been through a public process with residents and other interested public entities are more likely than others to be successful. The project applicant must indicate that events and/or targeted outreach (e.g., surveys and other web-based input) were held to help identify the transportation problem, how the potential solution was selected instead of other options, and the public involvement completed to date on the project. The focus of this section is on the opportunity for public input as opposed to the quality of input. NOTE: A written response is required and failure to respond will result in zero points.

List Dates of most recent meetings and outreach specific to this project:

Meeting with general public: _____

Meeting with partner agencies: _____

Targeted online/mail outreach:

Number of respondents:

100% Multiple types of targeted outreach efforts (such as meetings or online/mail outreach). Meetings specific to this project with the general public and partner agencies have been used to help identify the project need.

75% Targeted outreach specific to this project with the general public and partner agencies have been used to help identify the project need.

50% At least one meeting specific to this project with the general public has been used to help identify the project need.

50% At least one meeting-online/mail outreach effort specific to this project with the general public -key partner agencies has been used to help identify the project need.

25% D No meeting or outreach specific to the project was conducted, but the project was identified through meetings and/or outreach related to a larger planning effort.

0% No outreach has led to the selection of this project.

RESPONSE (Limit 2,800 characters; approximately 400 words). <u>Describe the type(s) of outreach</u> selected for this project (i.e., online or in-person meetings, surveys, demonstration projects), the method(s) used to announce outreach opportunities, and how many people participated. Include any public website links to outreach opportunities.

2. Layout (25 Percent of Points)

Layout should includes proposed geometrics and existing and proposed right-of-way boundaries. A basic layout should include a base map (north arrow; scale; legend;* city and/or county limits; existing ROW, labeled; existing signals;* and bridge numbers*) and design data (proposed alignments; bike and/or roadway lane widths; shoulder width;* proposed signals;* and proposed ROW). An aerial photograph with a line showing the project's termini does not suffice and will be awarded zero points.

*If applicable

100% Layout approved by the applicant and all impacted jurisdictions (i.e., cities/counties/<u>MnDOT that the project goes through or agencies that maintain the roadway(s)</u>). If a MnDOT trunk highway is impacted, approval by MnDOT must have occurred to receive full points.- A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

100% A layout does not apply (signal replacement/signal timing, stand-alone streetscaping, minor intersection improvements). Applicants that are not certain whether a layout is required should contact Colleen Brown at MnDOT Metro State Aid – colleen.brown@state.mn.us.

50% Layout completed but not approved by all jurisdictions. A PDF of the layout must be attached to receive points.

25% Layout has been started but is not complete. A PDF of the layout must be attached to receive points.

0% Layout has not been started

3. Anticipated date or date of completion: _____

4.3. Review of Section 106 Historic Resources (15 Percent of Points)

100%	No known historic properties eligible for or listed in the National Register of Historic
	Places are located in the project area, and project is not located on an identified
	historic bridge

- 100% There are historical/archeological properties present but determination of "no historic properties affected" is anticipated.
- 80% Historic/archeological property impacted; determination of "no adverse effect" anticipated
- 40% Historic/archeological property impacted; determination of "adverse effect" anticipated
- 0% Unsure if there are any historic/archaeological properties in the project area.

Project is located on an identified historic bridge:

5.4. Right-of-Way (25 Percent of Points)

100% Right-of-way, permanent or temporary easements, and MnDOT agreement/limited- use permit either not required or all have been acquired					
	50% Right-of-way, permanent or temporary easements <u>, and/or MnDOT</u> agreement/limited-use permit required, - plat, legal descriptions, or official map complete				
25% Right-of-way, permanent or temporary easements <u>, and/or MnDOT</u> agreement/limited-use permit required , - p arcels identified					
0% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited- use permit required, parcels not all identified					
Anticipated date or date of acquisition					
6-5. Railroad Involvement (15 Percent of Points)					
100%		No railroad involvement on project or railroad Right-of-Way agreement is executed (include signature page, if applicable)			
50%		Railroad Right-of-Way Agreement required; negotiations have begun			
0%		Railroad Right-of-Way Agreement required; negotiations have not begun.			
Anticipated date or date of executed Agreement					

SCORING GUIDANCE (75 Points)

The applicant with the most points on the Risk Assessment (more points equate to less project risk) will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 40 points and the top project had 70 points, this applicant would receive (40/70)*75 points or 43 points.

9. Cost Effectiveness (100 Points)

This criterion will assess the project's cost effectiveness based on the total TAB-eligible project cost (not including noise walls) and total points awarded in the previous 8 criteria.

- A. MEASURE: This measure will calculate the cost effectiveness of the project. Metropolitan Council staff will divide the number of points awarded in the previous criteria by the TAB-eligible project cost (not including noise walls). If a project has been awarded other outside, competitive funding (e.g., state bonding, Transportation Economic Development Program, Minnesota Highway Freight Program), project sponsors may reduce the total project cost for the purposes of this scoring measure by the amount of the outside funding award.
 - Cost effectiveness = total number of points awarded in previous criteria/total TAB-eligible • project cost (not including noise walls)

RESPONSE (This measure will be calculated after the scores for the other measures are tabulated by the Scoring Committee):

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- Total Project Cost (entered in Project Cost Form):_____ (automatically calculated)
- Enter amount of Noise Walls:
- Enter amount of any outside, competitive funding (attach documentation of award):
- Points Awarded in Previous Criteria: _____ (entered by Metropolitan Council staff)

SCORING GUIDANCE (100 Points)

The applicant with the most points (i.e., the benefits) per dollar will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the top project received .0005 points per dollar and the application being scored received .00025 points per dollar, this applicant would receive (.00025/.0005)*100 points or 50 points.

The scorer for this measure will also complete a reasonableness check of the total project cost that is used for this measure. The scorer may follow up with the applicant to clarify any questions. Up to 50 percent of points awarded for this measure can be deducted if the scorer does not believe that the cost estimate is reasonable.

TOTAL: 1,100 POINTS

Prioritizing Criteria and Measures

September 15, 2021

Definition: A roadway project that does not add thru-lane capacity, but reconstructs, reclaims, and/or modernizes a corridor with improved safety, multimodal, or mobility elements (e.g., new turn lanes, traffic signal, or roundabout). Routine maintenance including mill and overlay projects are not eligible. Projects must be located on a non-freeway principal arterial or A-minor arterial functionally classified roadway, consistent with the latest TAB approved functional classification map.

Examples of Roadway Reconstruction/Modernization Projects:

- Intersection improvements, including innovative intersection designs
- Alternative intersections such as unsignalized or signalized reduced conflict intersections (one intersection or multiple intersections)
- · Interchange reconstructions that do not involve new ramp movements or added thru lanes
- Turn lanes
- Two-lane to three-lane conversions (with a continuous center turn lane)
- Four-lane to three-lane conversions
- Roundabouts
- Addition or replacement of traffic signals
- Shoulder improvements
- Strengthening a non-10-ton roadway
- · Raised medians, frontage roads, access modifications, or other access management
- Roadway improvements with the addition of multimodal elements
- Roadway improvements that add safety elements
- · New alignments that replace an existing alignment and do not expand the number of lanes

Scoring:

Criteri	a and Measures	Points	% of Total Points
1.	Role in the Regional Transportation System and Economy	105	10%
	Measure A - Connection to Total Jobs and Manufacturing/ Distribution Jobs	65	
	Measure B - Regional Truck Corridor Study Tiers	40	
2.	Usage	175	16%
	Measure A - Current daily person throughput	110	
	Measure B - Forecast 2040 average daily traffic volume	65	
3.	Equity and Housing Performance	100	9%
	Measure A - Benefits and outreach to disadvantaged populations	50	
	Measure B - Housing Performance Score/ affordable housing connection	50	
4.	Infrastructure Age/Condition	175	16%
	Measure A - Date of construction	50	
	Measure B - Geometric, structural, or infrastructure deficiencies	125	
5.	Congestion Reduction/Air Quality	80	7%

Criteri	a and Measures	Points	% of Total Points
	Measure A - Vehicle delay reduced	50	
	Measure B - Kg of emissions reduced	30	
6.	Safety	180	16%
	Measure A - Crashes reduced	150	
	Measure B – Pedestrian Crash Reduction (Proactive)	30	
7.	Multimodal Elements and Existing Connections	110	10%
	Measure A - Transit, bicycle, or pedestrian project elements and connections	110	
8.	Risk Assessment	75	7%
	Measure A – Risk Assessment Form	75	
9.	Cost Effectiveness	100	9%
	Measure A – Cost effectiveness (total points awarded/total project cost)	100	
Total		1,100	

Role in the Regional Transportation System and Economy (170 Points)

Tying regional policy (Thrive MSP2040) to the Regional Solicitation, this criterion measures the project's ability to serve a transportation purpose within the regional transportation system and economy based on how it connects to employment, manufacturing/distribution-related employment, and post-secondary students; and how it aligns with the Regional Truck Corridor Study.

A. MEASURE: Reference the "Regional Economy" map generated at the beginning of the application process. Report the existing employment and manufacturing/distribution-related employment, and post-secondary students enrolled within one mile, as depicted on the "Regional Economy" map.

RESPONSE (Data from the "Regional Economy" map):

- Existing Employment within 1 Mile:_____(Maximum of 65 points)
- Existing Manufacturing/Distribution-Related Employment within 1 Mile:_____ (Maximum of 65 points)
- Existing Post-Secondary Students within 1 Mile: _____(Maximum of 40 points)

Upload the "Regional Economy" map used for this measure.

SCORING GUIDANCE (65 Points)

All Census block groups that are included within or intersect the buffer area around the project will be included.

The applicant with the highest existing total employment will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 1,000 workers within one mile and the top project had 1,500 workers, this applicant would receive (1,000/1,500)*65 points or 43 points.

The applicant with the highest existing manufacturing/distribution-related employment will receive the

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full points. Remaining projects will receive a proportionate share of the full points equal to the existing manufacturing/distribution-related employment within one mile of the project being scored divided by the project with the highest manufacturing/distribution-related employment within one mile multiplied by the maximum points available for the measure (30). For example, if the application being scored had 1,000 manufacturing/distribution-related workers within one mile and the top project had 1,500 manufacturing/distribution-related workers, this applicant would receive (1,000/1,500)*65 points or 43 points.

The applicant with the highest number of post-secondary students will receive 40 points. Remaining projects will receive a proportionate share of the 40 points. For example, if the application being scored had 1,000 students within one mile and the top project had 1,500 students, this applicant would receive (1,000/1,500)*40 points or 27 points.

The scorer will assess if the applicant would score highest with the total employment part of the measure, the manufacturing/distribution employment part of the measure, or the education part of the measure and give the applicant the highest of the three scores out of a maximum of 65 points.

Note: Due to the use of multiple sub-measures, two applicants can receive the full 65 points.

B. MEASURE: This criterion relies on the results on the Regional Truck Corridor Study, which prioritized all principal and minor arterials based on truck volume, truck percentage of total traffic, proximity to freight industry clusters, and proximity to regional freight terminals. <u>The truck corridors were grouped into tiers 1, 2, and 3, in order of priority. Use the 2021 Updated Regional Truck Corridors tiers to respond to this measure: 2021 Updated Regional Truck Corridors.</u> (40 points)

Use the final study report for this measure:

RESPONSE: (Select one for your project, based on the <u>updated 2021</u> Regional Truck Corridors<u>Study</u>):

- Along Tier 1: □ Miles (to the nearest 0.1 miles) :____
- Along Tier 2: □ Miles (to the nearest 0.1 miles) :_____
- Along Tier 3: □ Miles (to the nearest 0.1 miles) :_
- The project provides a direct and immediate connection (i.e., intersects) with either a Tier 1, Tier 2, or Tier 3 corridor: □
- None of the tiers: □

SCORING GUIDANCE (40 Points)

Applicants will be awarded points as assigned in the above tiers:

- Projects along Tier 1: 40 points
- Projects along Tier 2: 30 points
- Projects along Tier 3: 20 points
- Projects that that provide a direct and immediate connection to a corridor: 10 points.
- None of the tiers: 0 points

If no applicant is along Tier 1, the top-scoring application(s) will be adjusted to 40 points, with the others

adjusted proportionately.

Note: Due to the use of tiered scoring, multiple applications can receive the full points.

2. Usage (175 Points)

This criterion quantifies the project's potential impact by measuring the current daily person throughput and future vehicular traffic that will be served by the project. These roadway users directly benefit from the project improvements on the A-minor arterial or non-freeway principal arterial. For interchange reconstruction projects, the cross-street traffic volumes should be used instead of the mainline volumes.

- A. MEASURE: The applicant must identify the location along the project length and provide the current AADT volume from the <u>MnDOT Traffic Mapping Application MnDOT 50-series maps</u> (select Twin Cities Metro Area Street Series under Traffic Volume (AADT)) and existing transit routes that travel on the road (reference "Transit Connections" map). Due to the potential timing issues with when a traffic count was taken relative to the COVID-19 pandemic (and resulting drop in traffic Volumes), applicants may also use a historic AADT volume from the MnDOT Traffic Mapping Application (instructions under the Help Document). Ridership data will be provided by the Metropolitan Council staff, if public transit is currently provided on the project length. Metropolitan Council staff will calculate the current daily person throughput at one location along the A-minor arterial or non-freeway principal arterial project length using the current average annual daily traffic (AADT) volume and average annual ridership.
 - Current Daily Person Throughput = (current average annual daily traffic volume x 1.30 vehicle occupancy) + average annual daily transit ridership (2019)

RESPONSE:

- Location:_
- Current AADT volume:_____
- Existing Transit Routes on the Project:

Upload "Transit Connections" map.

SCORING GUIDANCE (110 Points)

The applicant with highest current daily person throughput will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a daily person throughput of 1,000 people and the top project had a daily person throughput of 1,000 people, this applicant would receive (1,000/1,500)*110 points or 73 points.

B. MEASURE: Provide the forecast (2040) average daily traffic volume at the same location along the A-minor arterial or non-freeway principal arterial project length, as identified in the previous measure. The applicant may choose to use a county or city travel demand model based on the Metropolitan Council model to identify the forecast (2040) average daily traffic volume or have Metropolitan Council staff determine the forecast volume using the Metropolitan Council model and project location. Respond as appropriate to the use of one type of forecast model. Commented [PS1]: New text

Commented [PS2]: Confirm year with F&P

RESPONSE:

- Use Metropolitan Council model to determine forecast (2040) ADT volume□
- If checked, METC Staff will provide Forecast (2040) ADT volume □

OR

RESPONSE:

- Identify the approved county or city travel demand model to determine forecast (2040) ADT volume:
- Forecast (2040) ADT volume : _____

SCORING GUIDANCE (65 Points)

The applicant with the highest forecast (2040) ADT volume will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a daily forecast of 28,000 vehicles and the top project had a daily forecast of 32,000 vehicles, this applicant would receive (28,000/32,000)*65 points or 57 points.

3. Equity and Housing Performance (100 Points)

This criterion addresses the <u>Council's role in advancing equity</u> by examining how a project directly provides benefits to, or impacts (positive and negative) low-income populations, people of color, people with disabilities, youth and the elderlyolder adults. The criterion evaluates whether the applicant engaged these populations to identify transportation needs and potential solutions and how the project will address these identified needs. The criterion also evaluates a community's overall efforts to implement affordable housing and how the project improves multimodal access to affordable housing residents.

- A. MEASURE: Socio-Economic Equity
- 1. Sub-measure: Equity Population Engagement (0 to 20 points): A successful project is one that is the result of active engagement of low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. Engagement should occur prior to and during a project's development, with the intent to provide direct benefits to, or solve, an expressed transportation issue, while also limiting and mitigating any negative impacts. Describe and map the location of any low-income populations, people of color, disabled populations, youth or the elderlyolder adults within a 1/2 mile of the proposed project. Describe how these specific populations were engaged and provided outreach to, whether through community planning efforts, project needs identification, or during the project development process. Describe what engagement methods and tools were used and how the input from these groups is reflected in the project's' purpose and need and design. Elements of quality engagement include: outreach and engagement to specific communities and populations that are likely to be directly impacted by the project; techniques to reach out to populations traditionally not involved in community engagement related to transportation projects; feedback from these populations identifying potential positive and negative elements of the proposed project through engagement, study recommendations, or plans that provide feedback from populations that may be impacted by the proposed project. If relevant, describe how NEPA or Title VI regulations will guide engagement activities.

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(Limit 1,400 characters; approximately 200 words):

- 2. Sub-measure: Equity Population Benefits and Impacts (0 to 30 points): A successful project is one that has been designed to provide direct benefits to low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. All projects must mitigate potential negative benefits as required under federal law. Projects that are designed to provide benefits go beyond the mitigation requirement to proactively provide transportation benefits and solve transportation issues experienced by Equity populations.
 - a. (0 to 30 points) Describe the project's benefits to low-income populations, people of color, children, people with disabilities, and the elderlyolder adults. Benefits could relate to pedestrian and bicycle safety improvements; public health benefits; direct access improvements for residents or improved access to destinations such as jobs, school, health care or other; travel time improvements; gap closures; new transportation services or modal options, leveraging of other beneficial projects and investments; and/or community connection and cohesion improvements. Note that this is not an exhaustive list.

(Limit 2,800 characters; approximately 400 words):

b. (-10 to 0 points) Describe any negative impacts to low-income populations, people of color, children, people with disabilities, and the olderlyolder adults created by the project, along with measures that will be taken to mitigate them. Negative impacts that are not adequately mitigated can result in a reduction in points.

(Limit 2,800 characters; approximately 400 words):

Below is a list of negative impacts. Note that this is not an exhaustive list.

- Increased difficulty in street crossing caused by increased roadway width, increased traffic speed, wider turning radii, or other elements that negatively impact pedestrian access.
- Increased noise.
- Decreased pedestrian access through sidewalk removal / narrowing, placement of barriers along the walking path, increase in auto-oriented curb cuts, etc.
- Project elements that are detrimental to location-based air quality by increasing stop/start
 activity at intersections, creating vehicle idling areas, directing an increased number of
 vehicles to a particular point, etc.
- Increased speed and/or "cut-through" traffic.
- Removed or diminished safe bicycle access.
- Inclusion of some other barrier to access to jobs and other destinations.

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- Displacement of residents and businesses.
- Mitigation of temporary construction/implementation impacts such as dust; noise; reduced access for travelers and to businesses; disruption of utilities; and eliminated street crossings.
- Other
- 3. Sub-measure: Bonus Points (0 to 25 points) Those projects that score at least 80% of the maximum total points available through sub-measures 1 and 2 will be awarded bonus points based on the geographic location of the project. These points will be assigned as follows, based on the highest-scoring geography the project contacts:
 - a. 25 points to projects within an Area of Concentrated Poverty with 50% or more people of color
 - b.a. <u>20-25</u> points to projects within an Area of Concentrated Poverty
 - e.<u>b.</u>15 points to projects within census tracts with the percent of population in poverty or population of color above the regional average percent
 - d.c.10 points for all other areas

Upload the "Socio-Economic Conditions" map used for this measure.

RESPONSE (Select one, based on the "Socio-Economic Conditions" map):

- Project is located in an Area of Concentrated Poverty where 50% or more of residents are people of color (ACP50):
- Project is located in an Area of Concentrated Poverty: □
- Project's census tracts are above the regional average for population in poverty or population of color:
- Project located in a census tract that is below the regional average for population in poverty
 or populations of color, or includes children, people with disabilities, or the elderly:

SCORING GUIDANCE (50 Points)

Each application will be qualitatively scored based on the available points for each measure and will receive the number of points awarded. If the applicant receives at least 80% of the available points, i.e., 40 points for the Roadway applications, the project will receive Bonus points as described under sub-measure 3. If an applicant qualifies for Bonus points it will result in a Socio-Economic Equity score of more than the total points available.

B. **MEASURE**: Projects will be scored based on two housing measures: 1. the 2019 Housing Performance Score for the city or township in which the project is located (40 points) and 2. the project's connection to affordable housing (10 points) as described below.

Part 1 (40 points): Housing Performance Score

A city or township's housing performance score is calculated annually by the Metropolitan Council using data from four categories: new affordable or mixed-income housing completed in the last ten years; preservation projects completed in the last seven years and/or substantial rehabilitation projects completed in the last three years; housing program participation and production, and housing policies and ordinances; and characteristics of the existing housing stock. Data for the housing performance scores are updated each year by the Council, and the city or township is provided with an opportunity to review and revise the information.

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Council staff will use the most current housing score for each city or township. If the project is located in more than one jurisdiction, the points will be awarded based on a weighted average using length or population of the project in each jurisdiction. For stand-alone intersection, bridge, underpass, and interchange projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer. If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project will not be disadvantaged by this measure and the project's total score will be adjusted during scoring to remove this scoring measure.

RESPONSE: (NOTE: The below bullets vary slightly by funding category)

- City/Township:
- Total project cost:
- Length of Segment (For stand-alone projects, enter population from Regional Economy map) within each City/Township: ______
- Percent of total funds to be spent within City/Township: _____

Part 2 (10 points): Affordable Housing Access

This measure is a qualitative scoring measure. Describe and map any affordable housing developments— planned, under construction or existing, within ½ mile of the proposed project. The applicant should note the development stage, number of units, number of bedrooms per unit, and level of affordability using 2019 affordability limits. Also note whether the affordability is guaranteed through funding restrictions (i.e. LIHTC, 4d) or is unsubsidized, if housing choice vouchers are/will be accepted, and if there is a fair housing marketing plan required or in place.

Describe how the proposed project will improve or impact access for residents of the affordable housing locations within ½ mile of the project. This should include a description of improved access by all modes, automobiles, transit, bicycle and pedestrian access. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements.

RESPONSE:

(Limit 2,100 characters; approximately 300 words):

SCORING GUIDANCE (50 Points)

Part 1 (40 points): The applicant with the highest 2019 Housing Performance Score will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a Housing Performance Score of 55 and the top project had a Housing Performance Score of 90, this applicant would receive (55/90)*40 points or 24 points.

Projects will use the city Housing Performance Score based on the project location. If a project is located in more than one jurisdiction, the points will be awarded based on a weighted average of the city or township scores for the project location based on the length of the project in each jurisdiction. For stand-alone roadway (intersection, bridge, underpass, and interchange) projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points

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will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer.

If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project's total score will be adjusted as a result. If this is the case, the hold-harmless method will be used: the total points possible in the application will be 960 instead of 1,000. The total points awarded through the rest of the application (900 as a hypothetical example) will be divided by 960, then multiplied by 1,000. Therefore, a project scoring 900 out of 960, will equate to 938 points on a 1,000-point scale. If a portion of the project is located in a city with an affordable housing allocation and the other portion is located in a township with no affordable housing allocation, then a combination of the Housing Performance Score (or weighted average) and the hold-harmless method should be used. This will result in a total score that will be somewhere between 960 and 1,000; then the score will need to be adjusted to fit a 1,000-point scale. NOTE: Any community without a Housing Performance Score in 2018 will be awarded the better of its new score in 2020 and the above method. NOTE: in these cases, the raw points from Part 2 will be included in the 960-point total.

Part 2 (10 points): The project that best provides meaningful improvements to access to the affordable housing units will receive the full 10 points. Multiple projects may receive the highest possible score of 10 points based on this assessment. Remaining projects will receive a share of the full points at the scorer's discretion.

Final Score (50 points): The scores in Parts 1 and 2 will be totaled. If no application gets 50 points, the highest-scoring project will be awarded 50 points, with other projects adjusted proportionately.

Note: Metropolitan Council staff will score this measure.

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4. Infrastructure Age/Condition (175 Points)

This criterion will assess the age of the roadway facility being improved. Roadway improvement investments should focus on the higher needs of an aging facility, whereas, improvements to a recently reconstructed roadway does not display an efficient use of funds.

A. **MEASURE**: Identify the year of the roadway's original construction or most recent reconstruction. If the reconstruction date is used for the roadway, a full reconstruction must have been completed during the indicated year. Routine maintenance, such as an overlay or sealcoating project does not constitute a reconstruction and should not be used to determine the infrastructure age.

If construction was completed over several years, enter the segment lengths for each year. The average age will be calculated.

RESPONSE:

- Year of original roadway construction or most recent reconstruction: _____
- Location(s) used: _

SCORING GUIDANCE (50 Points)

The applicant with the oldest roadway will receive full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored was constructed 41 years ago and the oldest project was constructed 48 years ago, this applicant would receive (41/48)*50 points or 43 points.

Note: Because of the reporting of year of construction, it is possible for multiple projects to receive the full allotment of 50 points.

B. **MEASURE**: Select the geometric, structural, or infrastructure deficiencies listed below that will be improved as part of this project, as reflected in the project cost estimate. (125 Points)

RESPONSE (Select all that apply. Please identify the proposed improvement):

- Improved roadway to better accommodate freight movements: □ 0-15 pts
 - RESPONSE (Limit 700 characters; approximately 100 words):
- Improved clear zones or sight lines:
 0-10 pts
- RESPONSE (Limit 700 characters; approximately 100 words)
- Improved roadway geometrics: □ 0-15 pts
 PESPONSE (Limit 700 characters: approximately)
- RESPONSE (Limit 700 characters; approximately 100 words)
 Access management enhancements: □ 0-20 pts
- Access management enfancements.

 0-20 pts
 RESPONSE (Limit 700 characters; approximately 100 words)
- Vertical/horizontal alignment improvements:

 0-10 pts
 - RESPONSE (Limit 700 characters; approximately 100 words)
 Improved stormwater mitigation: □ 0-10 pts
 - RESPONSE (Limit 700 characters; approximately 100 words)
- Signals/lighting upgrades: \Box 0-10 pts
 - RESPONSE (Limit 700 characters; approximately 100 words)
- Other Improvements: □ 0-10 pts

RESPONSE (Limit 700 characters; approximately 100 words)

SCORING GUIDANCE (125 Points)

Within each improvement sub-measure, the answer most responsive to the need will receive full points (e.g., the top project that improves clear zones or sight lines will receive 10 points), with each remaining project receiving a share of the full points at the scorer's discretion. It is possible for more than one project to receive maximum points for a sub-measure.

The highest-scoring application for this measure will be adjusted to receive the full 125 points. Remaining projects will receive a proportionate share of the full points equal to the points for the project being scored divided by the points assigned to the highest-scoring project multiplied by the maximum points available for the measure (100). For example, if the application being scored had 25 points and the top project had 50 points, this applicant would receive (25/50)*125 points or 63 points.

5. Congestion Reduction/Air Quality (80 Points)

This criterion measures the project's ability to reduce congestion. In addition, it will address its ability to improve congested intersections operating at unacceptable levels of service during peak hour conditions. The project will also be measured based on its ability to reduce emissions.

- A. MEASURE: Conduct a capacity analysis at one or more of the intersections (or rail crossings) being improved by the roadway project using existing turning movement counts (collected within the last three years) in the weekday a.m. or p.m. peak hour and the Synchro or HCM software. The applicant must show the current total peak hour delay at one or more intersections (or rail crossings) and the reduction in total peak hour intersection delay at these intersections (or rail crossings) in seconds due to the project. If more than one intersection (or rail crossing) is examined, then the delay reduced by each intersection can be can added together to determine the total delay reduced by the project.
 - For roadway projects that include a railroad crossing, the applicant should conduct fieldwork during either the weekday a.m. or p.m. peak hour to determine the total peak hour delay reduced by the project. Applicants can also add together intersection delay reduced and railroad delay reduced, if they both will be improved by the project.
 - The applicant should include the appropriate Synchro or HCM full reports (including the Timing Page Report) that support the improvement in total peak hour delay and should conduct the analysis using the following:
 - Under the network settings, all defaults should be used for lanes, saturation flow rates, volumes, and simulation
 - Use Synchro's automatic optimization to determine cycle, offset and splits (for traffic signals). Use the setting when assessing delay both with and without the project. This methodology will ensure that all applicants start with their signal systems optimized when determining existing delay.
 - Project improvements assumed in the build condition should be reflected in the total project cost, such as additional through or turn lanes and protective left-turn phasing
 - Roadway lengths for intersection approaches must be the same length for before and after scenarios
 - An average weekday should be used for the existing conditions instead of a weekend, peak holiday, or special event time period that is not representative of the corridor for most of the year

Total Peak Hour Delay Reduced (Seconds) = Total Peak Hour Delay/Vehicle x Vehicles Per Hour

RESPONSE:

- Total Peak Hour Delay/Vehicle without the Project (Seconds/Vehicle):

- Volume (Vehicles Per Hour):
- Total Peak Hour Delay Reduced by the Project (Seconds): _____ (automatically calculated)

EXPLANATION of methodology used to calculate railroad crossing delay, if applicable (Limit 1,400 characters; approximately 200 words):

SCORING GUIDANCE (50 Points)

The applicant with the most peak hour vehicle delay reduced by the project improvement will receive the full points for the measure. Remaining projects will receive a proportionate share of the points. For example, if the application being scored reduced delay by 5,000 seconds and the top project reduced delay by 25,000 seconds, this applicant would receive (5,000/25,000)*50 points, or 10 points.

B. MEASURE: Using the Synchro or HCM analysis completed in the previous measure, identify the total peak hour emissions reduction in kilograms (CO, NOX, VOC) due to the project. The applicant should include the appropriate Synchro or full HCM reports (including the Timing Page Report) that support the improvement in total peak hour emissions. If more than one intersection is examined, then the emissions reduced by each intersection can be can added together to determine the total emissions reduced by the project.

Roadway projects that do not include railroad grade-separation elements:

 Total Peak Hour Emissions Reduced (Kilograms)= Total Peak Hour Emissions without the project – Total Peak Hour Emissions with the Project

RESPONSE:

- Total (CO, NOX, and VOC) Peak Hour Emissions without the Project (Kilograms):_______
- Total (CO, NOX, and VOC) Peak Hour Emissions with the Project (Kilograms):_
- Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):______ (calculated online)

If more than one intersection is examined, the response should include a total of all emissions reduced.

Roadway projects that include railroad grade-separation elements:

• For roadway projects that include a railroad crossing, the applicant needs to input four variables before and after the project to determine the change in emissions. Those variables include: speed, vehicle mile traveled, delay, and total vehicle stops. The applicant needs to conduct fieldwork during either the a.m. or p.m. peak hour to determine the existing

conditions and then detail any assumptions used for conditions after the project is built. The variables will be used in the exact same equation used within the software program (i.e., Synchro) required of the other project types. Therefore, the approach to calculate the kilograms emissions reduced for railroad grade-separation projects will be comparable to intersection improvement projects.

RESPONSE:

- Cruise speed in miles per hour without the project:_____ (Applicant inputs number)
- Vehicle miles traveled without the project: _____ (Applicant inputs number)
- Total delay in hours without the project: _____ (Applicant inputs number)
- Total stops in vehicles per hour without the project: _____ (Applicant inputs number)
- Cruise speed in miles per hour with the project: _____ (Applicant inputs number)
- Vehicle miles traveled with the project:_____ (Applicant inputs number)
- Total delay in hours with the project: _____ (Applicant inputs number)
- Total stops in vehicles per hour with the project: _____ (Applicant inputs number)
- Fuel consumption in gallons (F1)
- Fuel consumption in gallons (F2)
- Fuel consumption in gallons (F3)

Speed = cruise speed in miles per hour Total Travel = vehicle miles traveled Total Delay = total delay in hours Stops = total stops in vehicles per hour

K1 = 0.075283-0.0015892 * Speed + 0.000015066 * Speed2 K2 = 0.7329 K3 = 0.0000061411 * Speed2

F1 (or F2 – without the project) = Fuel consumption in gallons

F1 = Total Travel * k1 + Total Delay * k2 + Stops * k3 F2 = Total Travel * k1 + Total Delay * k2 + Stops * k3

F3 = F1 - F2

CO = F3 * 0.0699 kg/gallon NOX = F3 * 0.0136 kg/gallon VOC = F3 * 0.0162 kg/gallon

Equation Automatically Provides Emissions Reduced:

Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):
 _____ (Online Calculation)

EXPLANATION of methodology and assumptions used (Limit 1,400 characters; approximately 200 words):

SCORING GUIDANCE (30 Points)

The applicant with the most kilograms reduced by the project improvement will receive the full points for the measure. Remaining projects will receive a proportionate share of the full. For example, if the application being scored reduced emissions by 3 kilograms and the top project reduced emissions by 5 kilograms, this applicant would receive (3/5)*30 points or 18 points.

6. Safety (180 Points)

This criterion addresses the project's ability to correct deficiencies and improve the overall safety of a roadway facility. It will assess the project's monetized safety benefits.

A. MEASURE: Respond as appropriate to one of the two project types below. (175 Points)

Roadway projects that do not include railroad grade-separation elements:

Calculate the reduction in the total number of crashes due to improvements on the A-minor arterial or non-freeway principal arterial made by the project. The applicant must base the estimate of crash reduction on the methodology consistent with the latest Highway Safety Improvement Program (HSIP) application (<u>www.dot.state.mn.us/stateaid/trafficsafety.html</u>). Applicants should focus on the crash analysis for reactive projects.

Crash data must be obtained for the project length using the MnDOT TIS system average for calendar years 2016-2018 through 20182020. Crash data should include all crash types and severities, including pedestrian and bicycle crashes.

Applicants should request crash data from MnDOT as early as possible. The applicant must then attach a listing of the crashes reduced and the HSIP Benefit/Cost (B/C) worksheet (<u>www.dot.state.mn.us/stateaid/trafficsafety.html</u>) that identifies the resulting benefit associated with the project. As part of the response, please detail and attach the crash modification factor(s) used from FHWA's Crash Modification Factors Clearinghouse: <u>http://www.cmfclearinghouse.org/</u>. As part of the Regional Solicitation Before & After Study, Phase 2 (2021), a list of commonly used crash modification factors was created. Applicants have the option to use these crash modification Resources) or find a more appropriate one on FHWA's Clearinghouse.

This measure requests the monetized safety benefit of the project. The cost of the project is scored in the Cost Effectiveness criterion.

RESPONSE:

- Rationale for Crash Modifications Selected (Limit 1,400 characters; approximately 200 words): ______
- Project Benefit (\$) from B/C ratio: ____
- Total Fatal (K) Crashes: _____
- Total Serious Injury (A) Crashes:
- Total Non-Motorized Fatal and Serious Injury Crashes: ______
- Total Crashes:
- Total Fatal (K) Crashes Reduced by Project:
- Total Serious Injury (A) Crashes Reduced by Project:
- Total Non-Motorized Fatal and Serious Injury Crashes Reduced by Project: _____
- Total Crashes Reduced by Project: _____

Commented [PS3]: New text

Upload Crash Modification Factors and B/C Worksheet.

Roadway projects that include railroad grade-separation elements:

Since the number of observed crashes at an existing at-grade railroad crossing is minor compared to an intersection, this measure will assess crash risk exposure that exists in order to compare projects. As a proactive safety measure, railroad grade-separation projects eliminate the crash risk exposure.

Crash Risk Exposure Eliminated = current average annual daily traffic volume x average number of daily trains at the at-grade crossing

RESPONSE:

- Current AADT volume:_____
- Average daily trains:_
- Crash Risk Exposure eliminated:_____

SCORING GUIDANCE (175 Points)

This measure will be considered separately for projects that do and do not include a railroad gradeseparation project. As a result, two projects (one without a railroad grade-separation project and one with a railroad grade-separation) may receive the full points.

For projects that do not include a grade-separation project, the applicant with the highest dollar value of benefits will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had safety benefits of \$11,000,000 and the top project had safety benefits of \$16,000,000, this applicant would receive (11,000,000/16,000,000)*175 points or 120 points.

For railroad grade-separation projects, the applicant with the highest crash risk exposure eliminated due to the project will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored reduced 11,000 exposures and the top project reduced 16,000, this applicant would receive (11,000 /16,000)*175 points or 120 points.

B. MEASURE: Discuss how the project will improve safety for pedestrians. Safety countermeasures for pedestrians can include those identified by the FHWA as part of its <u>Safe Transportation for Every Pedestrian program</u> or others in its <u>Proven Safety Countermeasures</u> (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals). More information about pedestrian safety best practices is also available in MnDOT's Best Practices for Pedestrian/Bicycle Safety.

SCORING GUIDANCE (30 Points)

The project that will provide the most improvement to pedestrian safety will receive full points. Remaining projects will receive a share of the full points at the scorer's discretion.

Commented [PS4]: See information item for proposed new text, which would replace this content.

7. Multimodal Elements and Existing Connections (110 Points)

This criterion measures how the project improves the travel experience, safety, and security for other modes of transportation and addresses the safe integration of these modes. The Transportation Policy Plan requires that explicit consideration of all users of the transportation system be considered in the planning and scoping phase of roadway projects.

- A. **MEASURE**: Describe how the project positively affects the multimodal system.
 - Discuss any bicycle, pedestrian, or transit elements that are included as part of the project and how they improve the travel experience, safety, and security for users of these modes. Applicants should make sure that new multimodal elements described in the response are accounted for as part of the cost estimate form earlier in the application. Applicants should note if there is no transit service in the project area and identify supporting studies or plans that address why a mode may not be incorporated in the project (e.g., a bicycle system plan that locates bikeway facilities on a lower-volume parallel route).
 - Describe how the proposed multimodal improvements positively affect identified alignments in the Regional Bicycle Transportation Network (RBTN) or along a regional trail, if applicable.
 - Describe how the proposed multimodal improvements either provide a new, or improve an existing Major River Bicycle Barrier Crossing (MRBBC) as defined in the 2040 Transportation Policy Plan (TPP) or how they provide a new or improved crossing of a Regional Bicycle Barrier with respect to the tiered Regional Bicycle Barrier Crossing Improvement Areas as defined in the TPP and Technical Addendum to the Regional Bicycle Barriers Study (May 2019), if applicable.
 - Discuss the existing bicycle, pedestrian, and transit connections and how the project enhances these connections.
 - Discuss whether the project implements specific locations identified as being deficient in a completed ADA Transition Plan.

RESPONSE (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (110 Points)

The project that most positively affects the multimodal elements system will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion. The project score will be based on the quality of the improvements, as opposed to being based solely on the number of modes addressed. Points can be earned for incorporating multimodal project elements, positively affecting identified alignments in the Regional Bicycle Transportation Network (RBTN), regional trail, Major River Bicycle Barrier Crossing, or Regional Bicycle Barrier, or for making connections with existing multimodal systems or helping to implement an ADA Transition Plan. Projects do not need all of these elements to be awarded all of the points. Multimodal elements for rural roadway projects may include wider shoulders that will be used by bicyclists and pedestrians.

8. Risk Assessment (75 Points)

This criterion measures the number of risks associated with successfully building the project. High-risk applications increase the likelihood that projects will withdraw at a later date. If this happens, the region is forced to reallocate the federal funds in a short amount of time or return them to the US Department of Transportation. These risks are outlined in the checklist in the required Risk Assessment.

A. MEASURE: Applications involving construction must complete the Risk Assessment. This checklist includes activities completed to-date, as well as an assessment of risks (e.g., right-of-way acquisition, proximity to historic properties, etc.).

RESPONSE (Complete Risk Assessment):

Please check those that apply and fill in anticipated completion dates for all projects, <u>except for</u> <u>eN</u>ew/expanded transit service projects <u>will receive full credit for items 2-5 but must fill out item</u> 1. <u>or t</u>Transit vehicle purchases will receive full credit.

1. Public Involvement (20 Percent of Points)

Projects that have been through a public process with residents and other interested public entities are more likely than others to be successful. The project applicant must indicate that events and/or targeted outreach (e.g., surveys and other web-based input) were held to help identify the transportation problem, how the potential solution was selected instead of other options, and the public involvement completed to date on the project. The focus of this section is on the opportunity for public input as opposed to the quality of input. NOTE: A written response is required and failure to respond will result in zero points.

List Dates of most recent meetings and outreach specific to this project:

Meeting with general public: _____

Meeting with partner agencies: _____

Targeted online/mail outreach:

Number of respondents:

100% Multiple types of targeted outreach efforts (such as meetings or online/mail <u>outreach</u>). Meetings specific to this project with the general public and partner agencies have been used to help identify the project need.

75% Targeted outreach specific to this project with the general public and partner agencies have been used to help identify the project need.

50% At least one meeting specific to this project with the general public has been used to help identify the project need.

50% At least one meeting-online/mail outreach effort specific to this project with the general public -key partner agencies has been used to help identify the project need.

25% D No meeting or outreach specific to the project was conducted, but the project was identified through meetings and/or outreach related to a larger planning effort.

0% No outreach has led to the selection of this project.

RESPONSE (Limit 2,800 characters; approximately 400 words). <u>Describe the type(s) of</u> outreach selected for this project (i.e., online or in-person meetings, surveys, demonstration projects), the method(s) used to announce outreach opportunities, and how many people participated. Include any public website links to outreach opportunities.

2. Layout (25 Percent of Points)

Layout should-includes proposed geometrics and existing and proposed right-of-way boundaries. A basic layout should include a base map (north arrow; scale; legend;* city and/or county limits; existing ROW, labeled; existing signals;* and bridge numbers*) and design data (proposed alignments; bike and/or roadway lane widths; shoulder width;* proposed signals;* and proposed ROW). An aerial photograph with a line showing the project's termini does not suffice and will be awarded zero points.

*If applicable

100% Layout approved by the applicant and all impacted jurisdictions (i.e., cities/counties/<u>MnDOT</u>-that the project goes through or agencies that maintain the readway(s)). If a MnDOT trunk highway is impacted, approval by MnDOT must have occurred to receive full points.- A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

<u>100%</u> A layout does not apply (signal replacement/signal timing, stand-alone streetscaping, minor intersection improvements). Applicants that are not certain whether a layout is required should contact Colleen Brown at MnDOT Metro State Aid – colleen.brown@state.mn.us.

50% Layout completed but not approved by all jurisdictions. A PDF of the layout must be attached to receive points.

25% Layout has been started but is not complete. A PDF of the layout must be attached to receive points.

0% Layout has not been started

3. Anticipated date or date of completion: _____

4.3. Review of Section 106 Historic Resources (15 Percent of Points)

100%	No known historic properties eligible for or listed in the National Register of Historic Places are located in the project area, and project is not located on an identified historic bridge
100%	There are historical/archeological properties present but determination of "no historic properties affected" is anticipated.
80%	Historic/archeological property impacted; determination of "no adverse effect" anticipated
40%	Historic/archeological property impacted; determination of "adverse effect" anticipated

0% Unsure if there are any historic/archaeological properties in the project area.

Project is located on an identified historic bridge:

5.4. Right-of-Way (25 Percent of Points)

100% Right-of-way, permanent or temporary easements, and MnDOT agreement/limited-use permit either not required or all have been acquired
50% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required, plat, legal descriptions, or official map complete
25% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required, plat, legal descriptions, or official map complete

0% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limiteduse permit required, -- parcels not all identified

Anticipated date or date of acquisition _____

6.5. Railroad Involvement (15 Percent of Points)

100% No railroad involvement on project or railroad Right-of-Way agreement is executed (include signature page, if applicable)

50% Railroad Right-of-Way Agreement required; negotiations have begun

0% Railroad Right-of-Way Agreement required; negotiations have not begun.

Anticipated date or date of executed Agreement _____

SCORING GUIDANCE (75 Points)

The applicant with the most points on the Risk Assessment (more points equate to less project risk) will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 40 points and the top project had 70 points, this applicant would receive (40/70)*75 points or 43 points.

9. Cost Effectiveness (100 Points)

This criterion will assess the project's cost effectiveness based on the total TAB-eligible project cost (not including noise walls) and total points awarded in the previous criteria.

- A. MEASURE: This measure will calculate the cost effectiveness of the project. Metropolitan Council staff will divide the number of points awarded in the previous criteria by the TAB-eligible project cost (not including noise walls). If a project has been awarded other outside, competitive funding (e.g., state bonding, Transportation Economic Development Program, Minnesota Highway Freight Program), project sponsors may reduce the total project cost for the purposes of this scoring measure by the amount of the outside funding award.
 - Cost- effectiveness = total number of points awarded in previous criteria/total TAB-eligible project cost

RESPONSE (This measure will be calculated after the scores for the other measures are tabulated by the Scoring Committee):

- Total Project Cost (entered in Project Cost Form):_____ (automatically calculated)
- Enter amount of Noise Walls:
- Enter amount of any outside, competitive funding (attach documentation of award):
- Points Awarded in Previous Criteria: ____ (entered by Metropolitan Council staff)

SCORING GUIDANCE (100 Points)

The applicant with the most points (i.e., the benefits) per dollar will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the top project received .0005 points per dollar and the application being scored received .00025 points per dollar, this applicant would receive (.0005/.00025) *100 points for 50 points.

The scorer for this measure will also complete a reasonableness check of the total project cost that is used for this measure. The scorer may follow up with the applicant to clarify any questions. Up to 50 percent of points awarded for this measure can be deducted if the scorer does not believe that the cost estimate is reasonable.

TOTAL: 1,100 POINTS

Bridges

Prioritizing Criteria and Measures

September 15, 2021

Definition: A bridge rehabilitation or replacement project located on a non-freeway principal arterial or A-minor arterial functionally classified roadway, consistent with the latest TAB-approved functional classification map. Bridge structures that have a separate span for each direction of travel can apply for both spans as part of one application.

The bridge must carry vehicular traffic but may also include accommodations for other modes. Bridges that are **exclusively** for bicycle or pedestrian traffic must apply under one of the Bicycle and Pedestrian Facilities application categories. Rail-only bridges are not eligible for funding. Completely new bridges, interchanges, or overpasses should apply in the Roadway Expansion application category.

Examples of Bridge Rehabilitation/Replacement Projects:

- Bridge rehabilitation of 20 or more feet with a National Bridge Inventory Condition rating of 6 or less.
- Bridge replacement of 20 or more feet with a National Bridge Inventory Condition rating of 4 or less.

Scori	ng:		
Criter	a and Measures	Points	% of Total Points
1.	Role in the Regional Transportation System and Economy	195	18%
	Measure A - Distance to the nearest parallel bridge	100	
	Measure B - Connection to Total Jobs, Manufacturing/Distribution Jobs, and post-secondary students	30	
	Measure C - Regional Truck Corridor Study tiers	65	
2.	Usage	130	12%
	Measure A - Current daily person throughput	100	
	Measure B - Forecast 2040 average daily traffic volume	30	
3.	Equity and Housing Performance	100	9%
	Measure A - Benefits and outreach to disadvantaged populations	50	
	Measure B - Housing Performance Score/ affordable housing connection	50	
4.	Infrastructure Condition	400	36%
	Measure A – National Bridge Inventory Condition Rating	300	
	Measure B – Load-Posting	100	
5.	Multimodal Elements and Existing Connections	100	9%
	Measure A - Transit, bicycle, or pedestrian project elements & connections	100	
6.	Risk Assessment	75	7%
	Measure A - Risk Assessment Form	75	

Criteria and Measures		% of Total Points
7. Cost Effectiveness	100	9%
Measure A - Cost effectiveness (total points awarded/total project cost)	100	
Total	1,100	

Role in the Regional Transportation System and Economy (195 Points)

Tying regional policy (Thrive MSP2040) to the Regional Solicitation, this criterion measures the project's ability to serve a transportation purpose within the regional transportation system and economy based on how well it fulfills its functional classification role, connects to employment, post-secondary students, and manufacturing/distribution-related employment, and aligns with the Regional Truck Corridor Study tiers.

A. MEASURE: Address how the project route fulfills its role in the regional transportation system by measuring the diversion to the nearest parallel crossing (must be an A-minor arterial or principal arterial) if the proposed project is closed. The project itself must be located on a nonfreeway principal arterial or an A-minor arterial.

RESPONSE:

- Location of nearest parallel crossing:_
- Explanation (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (100 Points)

The applicant with the furthest distance from the closest parallel A-minor arterial or principal arterial bridge will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the project being scored had a distance of 8 miles and the top project was had a distance of 10 miles, this applicant would receive (8/10)*100 points or 80 points.

B. MEASURE: Reference the "Regional Economy" map generated at the beginning of the application process. Report the employment, manufacturing/distribution-related employment, and post-secondary students enrolled within one mile, as depicted on the "Regional Economy" map.

RESPONSE: (Data from the "Regional Economy" map):

- Existing Employment within 1 Mile: _____(Maximum of 30 points)
- Existing Manufacturing/Distribution-Related Employment within 1 Mile:_____ (Maximum of 30 points)
- Existing Post-Secondary Students within 1 Mile: _____(Maximum of 18 points)

Upload the "Regional Economy" map used for this measure.

SCORING GUIDANCE (30 Points)

All Census block groups that are included within or intersect the buffer area around the project will be included.

The applicant with the highest existing total employment will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 1,000 workers within one mile and the top project had 1,500 workers, this applicant would receive (1,000/1,500)*30 points or 20 points.

The applicant with the highest existing manufacturing/distribution-related employment will receive the full points. Remaining projects will receive a proportionate share of the full points equal to the existing manufacturing/distribution-related employment within one mile of the project being scored divided by the project with the highest manufacturing/distribution-related employment within one mile multiplied by the maximum points available for the measure (20). For example, if the application being scored had 1,000 manufacturing/distribution-related workers within one mile and the top project had 1,500 manufacturing/distribution-related workers, this applicant would receive (1,000/1,500)*30 points or 20 points.

The applicant with the highest number of post-secondary students will receive 18 points. Remaining projects will receive a proportionate share of the 18 points. For example, if the application being scored had 1,000 students within one mile and the top project had 1,500 students, this applicant would receive (1,000/1,500)*18 points or 12 points.

The scorer will assess if the applicant would score highest with the total employment part of the measure, the manufacturing/distribution employment part of the measure, or the education part of the measure and give the applicant the highest of the three scores out of a maximum of 30 points.

Note: Due to the use of multiple sub-measures, two applicants can receive the full 30 points.

C. MEASURE: This measure relies on the results in the Regional Truck Corridor Study, which prioritized all principal and minor arterials based on truck volume, truck percentage of total traffic, proximity to freight industry clusters, and proximity to regional freight terminals. <u>The truck corridors were grouped into tiers 1, 2, and 3, in order of priority. Use the 2021 Updated Regional Truck Corridors tiers to respond to this measure: 2021 Updated Regional Truck Corridors.</u> (65 points)

Use the final study report for this measure:

RESPONSE (Select one for your project, based on the <u>updated 2021</u> Regional Truck Corridors <u>Study</u>):

•	Along Tier 1: 🗆 Miles	to the nearest 0.1 miles):	(65 points)

Along Tier 2: □ Miles (to the nearest 0.1 miles): (55 points)
Along Tier 3: □ Miles (to the nearest 0.1 miles) (45 points)

The project is located on either a Tier 1, Tier 2, or Tier 3 corridor: □ (65 Points) Miles (to the nearest 0.1 miles) :

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- The project provides a direct and immediate connection (i.e., intersects) with either a Tier 1, Tier 2, or Tier 3 corridor:

 (10 Points)
- The project is not located on a Tier 1, Tier 2, or Tier 3 corridor:
 (0 Points)

SCORING GUIDANCE (65 Points)

The scorer will assign points based on which of the scores applies.

If no applicant is along Tier 1, the top-scoring application(s) will be adjusted to 65 points, with the others adjusted proportionately.

Note that multiple applicants can score the maximum point allotment.

2. Usage (130 Points)

This criterion quantifies the project's potential impact by measuring the current daily person throughput and future vehicular traffic that will be served by the project. These roadway users directly benefit from the project improvements on the A-minor arterial or non-freeway principal arterial.

- A. MEASURE: Metropolitan Council staff will calculate the current daily person throughput at one location on the A-minor arterial or non-freeway principal arterial bridge using the current average annual daily traffic (AADT) volume and average annual ridership. The applicant must identify the location along the project length and provide the current AADT volume from the <u>MnDOT 50-series maps</u> (select Twin Cities Metro Area Street Series under Traffic Volume (AADT)). Due to the potential timing issues with when a traffic count was taken relative to the COVID-19 pandemic (and resulting drop in traffic volumes), applicants may also use a historic AADT volume or take their own count, assuming the methodology is consistent with MnDOT's methodology. Reference the "Transit Connections" map for transit routes along the project. Ridership data will be provided by the Metropolitan Council staff, if public transit is currently provided on the project length.
 - Current Daily Person Throughput = (current average annual daily traffic volume x 1.30 vehicle occupancy) + average annual daily transit ridership (2019)

RESPONSE:

- Location:_
- Current AADT volume:
- Existing Transit Routes on the Project:
- Upload the "Transit Connections" map.

SCORING GUIDANCE (100 Points)

The applicant with highest current daily person throughput will receive the full points for the measure. Remaining projects will receive a proportionate share of the full. For example, if the application being scored had a daily person throughput of 1,000 people and the top project had a daily person throughput of 1,500 people, this applicant would receive (1,000/1,500)*100 points or 67 points.

B. MEASURE: Provide the forecast (2040) average daily traffic volume at the same location on the A-minor arterial or non-freeway principal arterial bridge, as identified in the previous measure. The applicant may choose to use a county or city travel demand model based on the

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Metropolitan Council model to identify the forecast (2040) average daily traffic volume or have Metropolitan Council staff determine the forecast volume using the Metropolitan Council model and project location. Respond as appropriate to the use of one type of forecast model. (30 points)

RESPONSE:

- Use Metropolitan Council model to determine forecast (2040) ADT volume □
- METC Staff-Forecast (2040) ADT volume □

OR

RESPONSE:

- Identify the approved county or city travel demand model to determine forecast (2040) ADT volume□
- Forecast (2040) ADT volume : _____

SCORING GUIDANCE (30 Points)

The applicant with the highest forecast (2040) ADT volume will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a daily forecast of 28,000 vehicles and the top project had a daily forecast of 32,000 vehicles, this applicant would receive (28,000/32,000)*30 points or 26 points.

3. Equity and Housing Performance (100 Points)

This criterion addresses the *Council's role in advancing equity* by examining how a project directly provides benefits to, or impacts (positive and negative) low-income populations, people of color, people with disabilities, youth and the elderlyolder adults. The criterion evaluates whether the applicant engaged these populations to identify transportation needs and potential solutions and how the project will address these identified needs. The criterion also evaluates a community's overall efforts to implement affordable housing and how the project improves multimodal access to affordable housing residents.

- A. MEASURE: Socio-Economic Equity
- 1. Sub-measure: Equity Population Engagement (0 to 20 points): A successful project is one that is the result of active engagement of low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. Engagement should occur prior to and during a project's development, with the intent to provide direct benefits to, or solve, an expressed transportation issue, while also limiting and mitigating any negative impacts. Describe and map the location of any low-income populations, people of color, disabled populations, youth or the elderlyolder adults within a ½ mile of the proposed project. Describe how these specific populations were engaged and provided outreach to, whether through community planning efforts, project needs identification, or during the project development process. Describe what engagement methods and tools were used and how the input from these groups is reflected in the project's' purpose and need and design. Elements of quality engagement include: outreach and engagement to specific communities and populations that are likely to be directly impacted by the project; techniques to reach out to populations traditionally not involved in community engagement related to transportation projects; feedback from these populations identifying potential positive and negative elements of the proposed project through engagement, study

recommendations, or plans that provide feedback from populations that may be impacted by the proposed project. If relevant, describe how NEPA or Title VI regulations will guide engagement activities.

(Limit 1,400 characters; approximately 200 words):

- 2. Sub-measure: Equity Population Benefits and Impacts (0 to 30 points): A successful project is one that has been designed to provide direct benefits to low-income populations, people of color, persons with disabilities, youth and the elderlyolder adults. All projects must mitigate potential negative benefits as required under federal law. Projects that are designed to provide benefits go beyond the mitigation requirement to proactively provide transportation benefits and solve transportation issues experienced by Equity populations.
 - a. (0 to 30 points) Describe the project's benefits to low-income populations, people of color, children, people with disabilities, and the olderlyolder adults. Benefits could relate to pedestrian and bicycle safety improvements; public health benefits; direct access improvements for residents or improved access to destinations such as jobs, school, health care or other; travel time improvements; gap closures; new transportation services or modal options, leveraging of other beneficial projects and investments; and/or community connection and cohesion improvements. Note that this is not an exhaustive list.

(Limit 2,800 characters; approximately 400 words):

b. (-10 to 0 points) Describe any negative impacts to low-income populations, people of color, children, people with disabilities, and the elderlyolder adults created by the project, along with measures that will be taken to mitigate them. Negative impacts that are not adequately mitigated can result in a reduction in points.

(Limit 2,800 characters; approximately 400 words):

Below is a list of negative impacts. Note that this is not an exhaustive list.

- Increased difficulty in street crossing caused by increased roadway width, increased traffic speed, wider turning radii, or other elements that negatively impact pedestrian access.
- Increased noise.
- Decreased pedestrian access through sidewalk removal / narrowing, placement of barriers along the walking path, increase in auto-oriented curb cuts, etc.

- Project elements that are detrimental to location-based air quality by increasing stop/start
 activity at intersections, creating vehicle idling areas, directing an increased number of
 vehicles to a particular point, etc.
- Increased speed and/or "cut-through" traffic.
- Removed or diminished safe bicycle access.
- Inclusion of some other barrier to access to jobs and other destinations.
- Displacement of residents and businesses.
- Mitigation of temporary construction/implementation impacts such as dust; noise; reduced access for travelers and to businesses; disruption of utilities; and eliminated street crossings.
- Other
- 3. Sub-measure: Bonus Points (0 to 25 points) Those projects that score at least 80% of the maximum total points available through sub-measures 1 and 2 will be awarded bonus points based on the geographic location of the project. These points will be assigned as follows, based on the highest-scoring geography the project contacts:
 - a. 25 points to projects within an Area of Concentrated Poverty with 50% or more people of color
 - b.a. <u>20-25</u> points to projects within an Area of Concentrated Poverty
 - e.<u>b.15</u> points to projects within census tracts with the percent of population in poverty or population of color above the regional average percent
 - d.c.10 points for all other areas

Upload the "Socio-Economic Conditions" map used for this measure.

RESPONSE (Select one, based on the "Socio-Economic Conditions" map):

- Project is located in an Area of Concentrated Poverty where 50% or more of residents are people of color (ACP50):
- Project is located in an Area of Concentrated Poverty:
- Project's census tracts are above the regional average for population in poverty or population of color:
- Project located in a census tract that is below the regional average for population in poverty
 or populations of color, or includes children, people with disabilities, or the elderly:

SCORING GUIDANCE (50 Points)

Each application will be qualitatively scored based on the available points for each measure and will receive the number of points awarded. If the applicant receives at least 80% of the available points, i.e., 40 points for the Roadway applications, the project will receive Bonus points as described under sub-measure 3. If an applicant qualifies for Bonus points it will result in a Socio-Economic Equity score of more than the total points available.

B. **MEASURE**: Projects will be scored based on two housing measures: 1. the 2019 Housing Performance Score for the city or township in which the project is located (40 points) and 2. the project's connection to affordable housing (10 points) as described below.

Part 1 (40 points): Housing Performance Score

A city or township's housing performance score is calculated annually by the Metropolitan Council using data from four categories: new affordable or mixed-income housing completed in the last ten years; preservation projects completed in the last seven years and/or substantial rehabilitation projects completed in the last three years; housing program participation and production, and housing policies and ordinances; and characteristics of the existing housing stock. Data for the housing performance scores are updated each year by the Council, and the city or township is provided with an opportunity to review and revise the information

Council staff will use the most current housing score for each city or township. If the project is located in more than one jurisdiction, the points will be awarded based on a weighted average using length or population of the project in each jurisdiction. For stand-alone intersection, bridge, underpass, and interchange projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer. If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project will not be disadvantaged by this measure and the project's total score will be adjusted during scoring to remove this scoring measure.

RESPONSE:

- City/Township:
- Percent of segments within each City/Township: _____

Part 2 (10 points): Affordable Housing Access

This measure is a qualitative scoring measure. Describe and map any affordable housing developments— planned, under construction or existing, within ½ mile of the proposed project. The applicant should note the development stage, number of units, number of bedrooms per unit, and level of affordability using 2019 affordability limits. Also note whether the affordability is guaranteed through funding restrictions (i.e. LIHTC, 4d) or is unsubsidized, if housing choice vouchers are/will be accepted, and if there is a fair housing marketing plan required or in place.

Describe how the proposed project will improve or impact access for residents of the affordable housing locations within ½ mile of the project. This should include a description of improved access by all modes, automobiles, transit, bicycle and pedestrian access. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements.

RESPONSE:

(Limit 2,100 characters; approximately 300 words):

SCORING GUIDANCE (50 Points)

Part 1 (40 points): The applicant with the highest 2019 Housing Performance Score will receive the full points. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had a Housing Performance Score of 55 and the top project had a Housing

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Performance Score of 90, this applicant would receive (55/90)*40 points or 24 points.

Projects will use the city Housing Performance Score based on the project location. If a project is located in more than one jurisdiction, the points will be awarded based on a weighted average of the city or township scores for the project location based on the length of the project in each jurisdiction. For stand-alone roadway (intersection, bridge, underpass, and interchange) projects, a one-mile radius-buffer will be drawn around the project. If the radius-buffer enters more than one jurisdiction, the points will be awarded based on the proportionate population of the Census blocks in each jurisdiction that are all or partially located in the area within the one-mile radius-buffer.

If a project is located in a city or township with no allocation of affordable housing need (either there is no forecasted household growth or the area does not have land to support sewered development), the project's total score will be adjusted as a result. If this is the case, the hold-harmless method will be used: the total points possible in the application will be 960 instead of 1,000. The total points awarded through the rest of the application (900 as a hypothetical example) will be divided by 960, then multiplied by 1,000. Therefore, a project scoring 900 out of 960, will equate to 938 points on a 1,000-point scale. If a portion of the project is located in a city with an affordable housing allocation and the other portion is located in a township with no affordable housing allocation, then a combination of the Housing Performance Score (or weighted average) and the hold-harmless method should be used. This will result in a total score that will be somewhere between 960 and 1,000; then the score will need to be adjusted to fit a 1,000-point scale. NOTE: Any community without a Housing Performance Score in 2018 will be awarded the better of its new score in 2020 and the above method. NOTE: in these cases, the raw points from Part 2 will be included in the 960-point total.

Part 2 (10 points): The project that best provides meaningful improvements to access to the affordable housing units will receive the full 10 points. Multiple projects may receive the highest possible score of 10 points based on this assessment. Remaining projects will receive a share of the full points at the scorer's discretion.

Final Score (50 points): The scores in Parts 1 and 2 will be totaled. If no application gets 50 points, the highest-scoring project will be awarded 50 points, with other projects adjusted proportionately.

Note: Metropolitan Council staff will score this measure.

4. Infrastructure Condition (400 Points)

This criterion will assess the age and condition of the bridge facility being improved. Bridge improvement investments should focus on the higher needs of unsafe facilities. If there are two separate spans, then the applicant should take the average bridge inventory condition rating of the two spans.

A. **MEASURE**: Identify the lowest National Bridge Inventory condition rating among Deck, Superstructure, and Substructure from the most recent Structure Inventory Report. Attach the report to the application.

RESPONSE:

- Lowest National Bridge Inventory Condition Rating: _____
 - Deck Rating: _____
 - Superstructure Rating: _____
 - Substructure Rating: _____

0	Channel Rating:
0	Culvert Rating:

Upload Structure Inventory Report.

SCORING GUIDANCE (300 Points)

The lowest National Bridge Inventory (NBI) Condition Rating among Deck, Superstructure, and Substructure will be used as the NBI rating. The ratings will be scored as follows: Rating of 3 or lower: 300 points

Rating of 3 or lower: 300 Rating of 4: 250 points Rating of 5: 150 points

Rating of 6: 100 points

B. **MEASURE**: Identify whether the bridge is posted for load restrictions.

RESPONSE: (Check box if the bridge is load-posted):

• Load-Posted (Check box if the bridge is load-posted):

SCORING GUIDANCE (100 Points)

Applicants will receive the points shown depending on whether the bridge is load-posted. The applicant can only score 0 or 100 points for this measure.

5. Multimodal Elements and Connections (100 Points)

This criterion measures how the project improves the travel experience, safety, and security for other modes of transportation and addresses the safe integration of these modes. The Transportation Policy Plan requires that explicit consideration of all users of the transportation system be considered in the planning and scoping phase of roadway projects.

A. **MEASURE**: Describe how the project positively affects the multimodal system.

- Discuss any bicycle, pedestrian, or transit elements that are included as part of the project and how they improve the travel experience, safety, and security for users of these modes. Applicants should make sure that new multimodal elements described in the response are accounted for as part of the cost estimate form earlier in the application. Applicants should note if there is no transit service in the project area and identify supporting studies or plans that address why a mode may not be incorporated in the project (e.g., a bicycle system plan that locates bikeway facilities on a lower-volume parallel route).
- Describe how the proposed multimodal improvements positively affect identified alignments in the Regional Bicycle Transportation Network (RBTN) or along a regional trail, if applicable.
- Describe how the proposed multimodal improvements either provide a new, or improve an existing Major River Bicycle Barrier Crossing (MRBBC) as defined in the 2040 Transportation Policy Plan (TPP) or how they provide a new or improved crossing of a Regional Bicycle Barrier with respect to the tiered Regional Bicycle Barrier Crossing

Improvement Areas as defined in the TPP and Technical Addendum to the Regional Bicycle Barriers Study (May 2019), if applicable.

- Discuss the existing bicycle, pedestrian, and transit connections and how the project enhances these connections.
- Discuss whether the project implements specific locations identified as being deficient in a completed ADA Transition Plan.

RESPONSE: (Limit 2,800 characters; approximately 400 words):

SCORING GUIDANCE (100 Points)

The project that most positively affects the multimodal will receive the full points. Remaining projects will receive a share of the full points at the scorer's discretion. The project score will be based on the quality of the improvements, as opposed to being based solely on the number of modes addressed. Points can be earned for incorporating multimodal project elements, positively affecting identified alignments in the Regional Bicycle Transportation Network (RBTN), regional trail, Major River Bicycle Barrier Crossing, or Regional Bicycle Barrier, or for making connections with existing multimodal systems, or helping to implement an ADA Transition Plan. Projects do not need all of these elements to be awarded all of the points. Multimodal elements for rural roadway projects may include wider shoulders that will be used by bicyclists and pedestrians.

6. Risk Assessment (75 Points)

This criterion measures the number of risks associated with successfully building the project. High-risk applications increase the likelihood that projects will withdraw at a later date. If this happens, the region is forced to reallocate the federal funds in a short amount of time or return them to the US Department of Transportation. These risks are outlined in the checklist in the required Risk Assessment.

A. MEASURE: Applications involving construction must complete the Risk Assessment. This checklist includes activities completed to-date, as well as an assessment of risks (e.g., right-of-way acquisition, proximity to historic properties, etc.).

RESPONSE: (Complete Risk Assessment):

Please check those that apply and fill in anticipated completion dates for all projects, <u>except for</u> <u>mN</u>ew/expanded transit service projects <u>will receive full credit for items 2-5 but must fill out item</u> 1. <u>or t</u>Transit vehicle purchases will receive full credit.

1. Public Involvement (20 Percent of Points)

Projects that have been through a public process with residents and other interested public entities are more likely than others to be successful. The project applicant must indicate that events and/or targeted outreach (e.g., surveys and other web-based input) were held to help identify the transportation problem, how the potential solution was selected instead of other options, and the public involvement completed to date on the project. The focus of this section is on the opportunity for public input as opposed to the quality of input. NOTE: A written response is required and failure to respond will result in zero points.

List Dates of most recent meetings and outreach specific to this project:

Meeting with general public: _____

Meeting with partner agencies: ____

Targeted online/mail outreach: _____
 O Number of respondents: ______

100% Multiple types of targeted outreach efforts (such as meetings or online/mail outreach). Meetings specific to this project with the general public and partner agencies have been used to help identify the project need.

75% Targeted outreach specific to this project with the general public and partner agencies have been used to help identify the project need.

50% At least one meeting specific to this project with the general public has been used to help identify the project need.

50% At least one meeting online/mail outreach effort specific to this project with the general public key partner agencies has been used to help identify the project need.

25% D No meeting or outreach specific to the project was conducted, but the project was identified through meetings and/or outreach related to a larger planning effort.

0% No outreach has led to the selection of this project.

RESPONSE (Limit 2,800 characters; approximately 400 words). <u>Describe the type(s) of outreach</u> selected for this project (i.e., online or in-person meetings, surveys, demonstration projects), the method(s) used to announce outreach opportunities, and how many people participated. Include any public website links to outreach opportunities.

2. Layout (25 Percent of Points)

Layout should includes proposed geometrics and existing and proposed right-of-way boundaries. A basic layout should include a base map (north arrow; scale; legend;* city and/or county limits; existing ROW, labeled; existing signals;* and bridge numbers*) and design data (proposed alignments; bike and/or roadway lane widths; shoulder width;* proposed signals;* and proposed ROW). An aerial photograph with a line showing the project's termini does not suffice and will be awarded zero points.

*If applicable

100% Layout approved by the applicant and all impacted jurisdictions (i.e., cities/counties/<u>MnDOT that the project goes through or agencies that maintain the roadway(s)</u>). If a MnDOT trunk highway is impacted, approval by MnDOT must have occurred to receive full points.- A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

<u>100%</u> A layout does not apply (signal replacement/signal timing, stand-alone streetscaping, minor intersection improvements). Applicants that are not certain whether a layout is required should contact Colleen Brown at MnDOT Metro State Aid – colleen.brown@state.mn.us.

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50% Layout completed but not approved by all jurisdictions. A PDF of the layout must be attached to receive points.

25% Layout has been started but is not complete. A PDF of the layout must be attached to receive points.

0% Layout has not been started

3. Anticipated date or date of completion: _____

4.3. Review of Section 106 Historic Resources (15 Percent of Points)

- 100% No known historic properties eligible for or listed in the National Register of Historic Places are located in the project area, and project is not located on an identified historic bridge
- 100% There are historical/archeological properties present but determination of "no historic properties affected" is anticipated.
- 80% Historic/archeological property impacted; determination of "no adverse effect" anticipated
- 40% Historic/archeological property impacted; determination of "adverse effect" anticipated
- 0% Unsure if there are any historic/archaeological properties in the project area.

Project is located on an identified historic bridge:

5.4. Right-of-Way (25 Percent of Points)

100% Right-of-way, permanent or temporary easements, and MnDOT agreement/limiteduse permit either not required or all have been acquired

50% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required, - plat, legal descriptions, or official map complete

25% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required, -- parcels identified

0% Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limiteduse permit required, -- parcels not all identified

Anticipated date or date of acquisition _____

6.5. Railroad Involvement (15 Percent of Points)

100% No railroad involvement on project or railroad Right-of-Way agreement is executed (include signature page, if applicable)

50% Railroad Right-of-Way Agreement required; negotiations have begun

0% Railroad Right-of-Way Agreement required; negotiations have not begun.

Anticipated date or date of executed Agreement ____

SCORING GUIDANCE (75 Points)

The applicant with the most points on the Risk Assessment (more points equate to less project risk) will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the application being scored had 40 points and the top project had 70 points, this applicant would receive (40/70)*75 points or 43 points.

7. Cost Effectiveness (100 Points)

This criterion will assess the project's cost effectiveness based on the TAB-eligible project cost (not including noise walls) and total points awarded in the previous six criteria. If a project has been awarded other outside, competitive funding (e.g., state bonding, Transportation Economic Development Program, Minnesota Highway Freight Program), project sponsors may reduce the total project cost for the purposes of this scoring measure by the amount of the outside funding award.

- A. **MEASURE**: This measure will calculate the cost effectiveness of the project. Metropolitan Council staff will divide the number of points awarded in the previous criteria by the TAB-eligible project cost (not including noise walls).
 - Cost effectiveness = total number of points awarded in previous criteria/total TAB-eligible project cost (not including noise walls)

RESPONSE (This measure will be calculated after the scores for the other measures are tabulated by the Scoring Committee):

- Total Project Cost (entered in Project Cost Form): _____ (automatically calculated)
- Enter amount of Noise Walls: _
- Enter amount of any outside, competitive funding (attach documentation of award):
- Points Awarded in Previous Criteria: ____ (entered by Metropolitan Council staff)

SCORING GUIDANCE (100 Points)

The applicant with the most points (i.e., the benefits) per dollar will receive the full points for the measure. Remaining projects will receive a proportionate share of the full points. For example, if the top project received .0005 points per dollar and the application being scored received .00025 points per dollar, this applicant would receive (.00025/.0005)*100 points or 50 points.

The scorer for this measure will also complete a reasonableness check of the total project cost that is used for this measure. The scorer may follow up with the applicant to clarify any questions. Up to 50 percent of points awarded for this measure can be deducted if the scorer does not believe that the cost estimate is reasonable.

TOTAL: 1,100 POINTS