



Transportation Alternatives / CMAQ Application for
FY 2021 and FY 2022 Projects

Agua Fria Trail Phase II

City of Avondale

**APPLICATIONS ARE DUE AT MAG OFFICES BY
Monday, September 25, 2017 at 10:00 a.m.**

(LATE AND/OR INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED)

Avondale: Agua Fria Trail Phase II**PART A - CONTACT AND PROJECT DESCRIPTION****Contact Information**

1. Name of Sponsoring Agency	Avondale
2. Agency Contact Name	Chris Hamilton
3. Phone Number of Agency Contact	623-333-4218
4. E-Mail Address of Agency Contact	chamilton@avondale.org
5. Mailing Address of Agency Contact	11465 W. Civic Center Drive, Avondale AZ 85323

Project Description

6. Please provide the Project Title.	Agua Fria Trail Phase II
7. Please provide a concise, specific description of the project (250 character limit):	This project will construct a pedestrian/bike bridge across the ADOT drainage channel connecting Friendship Park to the existing trail head recently constructed with the Agua Fria I-10 Underpass project.
8. Please provide the project limits:	Agua Fria River east bank from north of I-10 to Friendship Park

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

This part of the form identifies the current characteristics and proposed improvements for each project.

The purpose of Part B is to provide sufficient information to evaluate the cost estimate for the project and to provide assurance that the project will be capable of meeting the ADOT administered federal design review and clearance process. This process requires environmental, ROW and utilities clearances and a bid ready design prior to FHWA approval to encumber federal funding for construction.

NOTE: For Part B, Questions 14-20, the specified distance will vary (and update automatically) depending on the project type identified in Part B, Question 1. Pedestrian-only projects will use a distance of 1/4 mile, while bicycle and Shared-Use projects will use a distance of 1/2 mile.

1. Please select which funding source(s) this project is applying for. Check all that apply.

- Congestion Mitigation and Air Quality (CMAQ)
- Transportation Alternatives (TA)

2. What type of project is this? (Check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Bicycle Lane (4' min. w/o curb/gutter) | <input type="checkbox"/> Shoulder paving is within 4-miles of a PM-10 Monitor |
| <input type="checkbox"/> Bicycle Lane (5' min. with curb/gutter) | <input type="checkbox"/> Wide Sidewalk (8' min.) |
| <input type="checkbox"/> Buffered Bike Lane | <input type="checkbox"/> Detached Sidewalk with 4' min. buffer |
| <input type="checkbox"/> Protected Bike Lane | <input type="checkbox"/> Signalized Crossing |
| <input checked="" type="checkbox"/> Shared-use path (10' min.) | Other: |
| <input type="checkbox"/> Sidewalk (5' min.) | <input style="width: 400px; height: 20px;" type="text"/> |
| <input type="checkbox"/> Planning Study | |

3. What other major elements are included in this project? (Check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Bridge (overpass) | Other: |
| <input type="checkbox"/> Tunnel (underpass) | <input style="width: 400px; height: 20px;" type="text"/> |
| <input type="checkbox"/> Signalized midblock crossing/HAWK | |
| <input type="checkbox"/> Countdown Pedestrian Signal | |

4. What amenities are included in this project?

- | | |
|---|--|
| <input type="checkbox"/> Number of Bike racks/lockers | <input type="checkbox"/> Number of Seating/Rest Area(s) |
| <input type="checkbox"/> Number of Drinking Fountains | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Way-finding Signs | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Trash receptacles | Other: |
| <input type="checkbox"/> Number of Trees | <input style="width: 400px; height: 20px;" type="text"/> |
| <input type="checkbox"/> Number of new openings in street walls | |
| <input type="checkbox"/> Number of Shade Structures | |

5. Please describe the existing condition of the project site and any problem(s) being addressed.

The existing crossing location of the ADOT drainage channel has been inundated with vegetation and tailwater. This area has also been identified as Waters of the US. This project will require a 404 permit.

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

6. Please describe the work being done and improvements being made as part of this project.

A pedestrian/bike bridge will be built to connect Agua Fria and I-10 underpass project (Phase I) to the existing trail system within the park. This will provide a vital link to the existing path system along the Agua Fria River connecting Friendship Park to the existing trails.

7. What do you hope to achieve with this project?

This project will link the existing trail system from I-10 to Friendship Park. This will allow residents to have a viable trail system within the city as well as a way to get to Friendship Park without having to drive.

8. Safety improvements to be included for this project: (Check all that apply)

- Medians with pedestrian crossing islands
- Roadway Reconfiguration (Road Diet)
- Striping/re-striping to narrow vehicle lanes
- Color pavement or similar treatment
- Lighting
- Landscape buffer between sidewalk and roadway
- Rectangular Rapid Flash Beacon (RRFB)
- Driver Feedback Sign

Other

Empty text box for other safety improvements.

9. Does this project include a road safety education component?

- Yes
- No

Please Explain:

Empty text box for explanation.

10. How does this project or planning study address safety?

This project will connect two existing trails. It is a vital link between Friendship Park and the existing trail system.

11. How does the project improve ADA facilities for persons with disabilities?

Currently there is not connectivity from south of I-10 to Friendship Park. This bridge will provide that connectivity.

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

12. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:

Currently there is not connectivity from south of I-10 to Friendship Park. This bridge will provide that connectivity.

13. How does the project create a sense of place?

A bridge over the wetland area with a couple watch stops will create a nice destination for people to go bird watching. It will also give them the option to walk to the park.

14. Connectivity: (Check all that apply)

Project fills a gap in the system

Explain:

Existing system has a trail head at the north side of I-10.

Project connects to other local bikeways

List of connected bikeways:

Friendship Park trail system, Aqua Fria River Trail

Multi Jurisdictional Project (please include letter of support (See Part C)

List of Participating Jurisdictions:

Total length of bikeways directly connected by this project (in miles)

15. Number of transit stops this project will connect to. Do NOT count major transit facilities (park and rides, transit centers, etc.) in this question. List associated route(s) and their peak frequency, using Valley Metro as the source.

Within 1/2 mile

16. Number of transit routes serviced by the transit stops in question 15 that this project will connect to. List associated route(s) and their peak frequency, using Valley Metro as the source.

Within 1/2 mile

List routes and frequency:

17. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:

Within 1/2 mile

List:

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

18. Number of non-commercial activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

Within 1/2 mile

List:

Friendship Park

19. Number of commercial and employment destinations (malls, retail centers, business parks, etc.) this project will benefit (for example, a mall is ONE destination; do NOT count every store in a mall as a separate destination):

Within 1/2 mile

List:

20. Number of K-8 public schools this project will benefit:

Within 1/2 mile

List:

21. Number of other schools (charter schools, high schools, colleges, and universities) this project will benefit:

Within 1/2 mile

List:

Legacy Elementary

22. Number of activity centers for air quality cost effectiveness (i.e. bank, church, hospital, health care facility, light rail station, park-and-ride lot, office park, post office, public library, shopping area, grocery store, university or junior college):

Within 1/4 miles

List:

1/4 miles to 1/2 miles

List:

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served:

[MAG Demographic Mapping](#) People Per Square Mile % Families in Poverty

Use the MPO/COG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reporting," select "Custom Summary." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census block groups adjacent to your project, left-clicking where needed to change the direction of the line. Double-click to finish drawing the line. The selected census block groups will become highlighted in blue. A pop-up box will appear with "Results for Selected Block Groups." Select the "Summary Report" tab, and use the data found there. You may export the results to Excel (click the printer icon at the top-right side of the pop-up window) for your records.

24. Please provide the following information on the facility on which the improvement will be located.

For a linear project, please enter the Facility Name, Starting Limit and Ending Limit:

For a point project (e.g. an intersection or crossing), please enter a Facility Name and a Crossing Feature:

Federal Functional Classification of the Facility:

[Link to MAG webpage for Federal Functional Classification Map](#)

Type of Facility the Improvement will be located on:

 Length (in Miles) Posted Speed Limit (MPH) Number of Travel Lanes Before Project Number of Travel Lanes After Project

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

25. Please provide an estimated traffic volume (ADT) on the nearest parallel arterial.

ADT Estimate

Date Counted

Name of road the traffic count was taken from

Description of Methodology and Source used for the ADT Estimate

26. Federal law requires that all federally funded projects comply with a federal environmental clearance. For projects that have a minimum ground disturbance, environmental surveys are required and an environmental document will need to be prepared, which typically requires 12 months to complete.

Describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

27. Current ROW: (Check all that apply)

Agency owns all ROW Needed

ROW to be acquired

Owners will donate ROW

Agency owns easement

Agency has right-of-use (i.e. canal)

Condemnation may be required

28. Please describe any right of way issues associated with the project.

29. Please indicate whether all parcels for this project have been inventoried.

Yes

No

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

30. Current Utilities in or abutting the alignment: (Check all that apply)

<input checked="" type="checkbox"/>	No Utility in or abutting the alignment	<input type="checkbox"/>	Private Structures
<input checked="" type="checkbox"/>	Canals & Drainage		
<input type="checkbox"/>	Power Lines & Cables	Other:	
<input type="checkbox"/>	Pipelines, Sewer and Water	<input type="text"/>	

31. Please describe any utility conflicts that will need to be addressed.

32. Guidelines used to develop project: (Check all that apply)

<input checked="" type="checkbox"/>	AASHTO Guide for Bicycle Facilities	<input type="text" value="Other:"/>
<input checked="" type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	
<input type="checkbox"/>	MAG Complete Streets Guide	
<input type="checkbox"/>	MAG Designing Transit Accessible Communities	
<input type="checkbox"/>	MAG Valley Path Brand & Wayfinding Signage Guidelines	
<input type="checkbox"/>	NACTO Urban Bikeway Design Guide	
<input type="checkbox"/>	RPTA Bus Stop Program and Standards	

33. Jurisdiction has the following policies for improved bicycle/shared use facilities:

With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="text" value="Required"/>
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="text" value="Required"/>
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="text" value="Required"/>
With new development or during development retrofits, shared-use paths are:	<input type="text" value="Recommend"/>
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="text" value="No"/>
Complete Streets Policy	<input type="text" value="No"/>

34. The project is: (Check one)

Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)
List:

Consistent with general policy/practices, but not formally identified (provide source)
Explain:

Not addressed by jurisdiction's plans, policies, or practices
Explain:

Avondale : Agua Fria Trail Phase II

PART B-DETAILED PROJECT DESCRIPTION

35. How will the applicant measure the success of this project?

City will conduct periodic sample counts to identify the level of use. Conduct survey of users.

36. Will bicycle/pedestrian count technology be incorporated? Will the devices broadcast automatic updates or require manual data collection? If manual, how will the agency identify staff resources to dedicate to collecting the data?

City will hire data collection service to periodically video the bridge to document actual usage.

37. Will the project include an education/marketing component upon completion of construction, to publicize the project and increase citizen awareness of the project impact and benefits? If yes, please describe below.

Yes. The City will inform the public of this project completion through advertisements.

38. Will the project include wayfinding signage elements? If yes, please describe below.

No.

Part C - Required Attachments
<p>Listed below are the required attachments for this project application. These attachments are intended to demonstrate the need of the project. They should clearly show the segment alignment and features that connect to other bicycle, pedestrian, and/or shared-use facilities, as well as washes, canals, railroad crossings, and other crossing features that may affect the project.</p>
<p><u>PLEASE INCLUDE EACH ATTACHMENT AS A SEPARATE .JPEG OR .PDF FILE ON YOUR APPLICATION CD.</u></p>
<p>Please insert ALL attachments at the end of your printed application, in the order they are listed below. See below for alternate submission requirements for GIS coverage files.</p>
Required Attachments:
<p>1) Please attach a map showing the general location of the proposed project in relation to the region, including a north arrow.</p>
<p>2) Please attach a map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow.</p>
<p>3) Please attach up to four photos indicating existing conditions in the project area (two 4x6 photos per page).</p>
<p>4) Please attach a simple diagram of the current typical cross section of the segment, that shows the right of way limits, widths, sidewalks and shoulders (if any), and the lanes of travel.</p>
OPTIONAL Attachments:
<p>(OPTIONAL) Attach up to two photos showing what the completed project will look like, if available (these can be photoshop, renderings, etc.).</p>
<p>(OPTIONAL) Attach up to three (3) letters of support for the project.</p>
<p>(OPTIONAL) If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions"</p>

PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

Sponsoring Agency:	City of Avondale	Project Title:	Agua Fria Trail Phase II	Application Date:	9/25/2017
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Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)	
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY	LS	1	\$15,000.00	\$15,000.00	No	\$0.00	\$15,000.00		
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$2,500.00	\$2,500.00	No	\$0.00	\$2,500.00		
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$10,000.00	\$10,000.00	No	\$0.00	\$10,000.00		
	4. HAZMAT ASSESSMENT	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	Subtotal Scoping (Part A)				\$32,500.00		\$0.00	\$32,500.00		
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$50,000.00	\$50,000.00	No	\$0.00	\$50,000.00		
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1		\$0.00	No	\$0.00	\$0.00		
	3. DRAINAGE REPORT	LS	1		\$0.00	No	\$0.00	\$0.00		
	4. SWPPP	LS	1	\$5,500.00	\$5,500.00	No	\$0.00	\$5,500.00		
	Subtotal PE (Part B)				\$55,500.00		\$0.00	\$55,500.00		
Subtotal Preliminary Engineering (Part A + Part B)					\$88,000.00		\$0.00	\$88,000.00		
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	LS	1		\$0.00	No	\$0.00	\$0.00		
Subtotal Right-of-Way Acquisition (Part C)					\$0.00		\$0.00	\$0.00		
D. Utility Relocation	1. Utility Relocation	LS	1		\$0.00	No	\$0.00	\$0.00		
Subtotal Utility Relocation (Part D)					\$0.00		\$0.00	\$0.00		
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	1. Hardscape Construction	Installation Of SWPP Measures		LS	1		\$0.00	Yes	\$0.00	\$0.00
		Site Preparation		LS	1		\$0.00	Yes	\$0.00	\$0.00
		Demolition	Sawcut	LF	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Structures and Obstructions	LS	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Fencing	LF	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Structural Concrete	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Asphaltic Concrete Pavement	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Remove Concrete Sidewalks, Slabs	CY	1		\$0.00	Yes	\$0.00	\$0.00
		Hazmat Abatement		LS	1		\$0.00	Yes	\$0.00	\$0.00
		Retaining Wall - Reinforced Concrete Cantilevered		SF	1		\$0.00	Yes	\$0.00	\$0.00
		Earthwork	General Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Drainage Excavation	CY	1		\$0.00	Yes	\$0.00	\$0.00
			Structural Excavation	CY	3,000	\$10.00	\$30,000.00	Yes	\$28,290.00	\$1,710.00
			Structural Backfill	CY	2,000	\$15.00	\$30,000.00	Yes	\$28,290.00	\$1,710.00
			Borrow (In Place)	CY	2,400	\$10.00	\$24,000.00	Yes	\$22,632.00	\$1,368.00
		Curb & Gutter		LF	1		\$0.00	Yes	\$0.00	\$0.00
		Aggregate Base		CY	1		\$0.00	Yes	\$0.00	\$0.00
		Pathway Or Sidewalk Materials	Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Colored Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Stamped Color Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Precast Concrete Pavers	SF	1		\$0.00	Yes	\$0.00	\$0.00
			Asphaltic Concrete	Ton	1		\$0.00	Yes	\$0.00	\$0.00
			Polymer or Resin Stabilized Surface	SF	1		\$0.00	Yes	\$0.00	\$0.00
Crosswalk Enhancement	Concrete Pavers	SF	1		\$0.00	Yes	\$0.00	\$0.00		
	Stamped Asphalt	SF	1		\$0.00	Yes	\$0.00	\$0.00		
	Stamped Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00		
	Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00		
	Integral Color Concrete	SF	1		\$0.00	Yes	\$0.00	\$0.00		
Pedestrian ADA Ramp		SF	1		\$0.00	Yes	\$0.00	\$0.00		
Culvert Extensions		LF	1		\$0.00	Yes	\$0.00	\$0.00		

PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM

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Sponsoring Agency:	City of Avondale	Project Title:	Agua Fria Trail Phase II	Application Date:	9/25/2017
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Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)
	Pedestrian Lighting Including Conduit And Trenching	Each	1	\$10,000.00	\$10,000.00	Yes	\$9,430.00	\$570.00	
	Handrail	Standard	500	\$40.00	\$20,000.00	Yes	\$18,860.00	\$1,140.00	
		Decorative	1		\$0.00	Yes	\$0.00	\$0.00	
	Subtotal Hardscape Construction				\$114,000.00		\$107,502.00	\$6,498.00	

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Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)	
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	2. Landscaping & Irrigation Items	Requirements	Each	1		\$0.00	Yes	\$0.00	\$0.00	
		Trees (15 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00	
		Trees (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (1 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00	
		Cactus (5 Gallon Size)	Each	1		\$0.00	Yes	\$0.00	\$0.00	
		Mulch	Decomposed Granite	CY	1		\$0	Yes	\$0	\$0
			Organic	CY	1		\$0	Yes	\$0	\$0
		Topsoil		CY	1		\$0	Yes	\$0	\$0
		Seeding		Acre	1		\$0	Yes	\$0	\$0
		Turf Sod		SY	1		\$0	Yes	\$0	\$0
		Boulders		Each	1		\$0	Yes	\$0	\$0
		Irrigation System	Drip	SF	1		\$0	Yes	\$0	\$0
			Turf	SF	1		\$0	Yes	\$0	\$0
		Sleeving For Irrigation System	Directional Bore	LF	1		\$0	Yes	\$0	\$0
			Cut and Patch	LF	1		\$0	Yes	\$0	\$0
		Landscape Header Curb		LF	1		\$0	Yes	\$0	\$0
		Landscape Establishment		LS	1		\$0	Yes	\$0	\$0
	Subtotal Landscaping & Irrigation Items					\$0		\$0	\$0	
	3. Site Furnishings	Benches	Each	2	\$3,500	\$7,000	Yes	\$6,601	\$399	
		Seatwalls	LF	1		\$0	Yes	\$0	\$0	
		Bike Racks	Each	1		\$0	Yes	\$0	\$0	
		Trash Receptacles	Each	1	\$500	\$500	Yes	\$472	\$29	
		Drinking Fountains	Each	1		\$0	Yes	\$0	\$0	
		Signage (Standard Traffic Control)	Each	1		\$0	Yes	\$0	\$0	
		Signage (Wayfinding)	Each	1		\$0	Yes	\$0	\$0	
		Tree Grates	Each	1		\$0	Yes	\$0	\$0	
		Subtotal Site Furnishings					\$7,500		\$7,073	\$428
		4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	Bicycle and Pedestrian Counter	Each	1		\$0	Yes	\$0	\$0
	3-Span Bridge		LS	1	\$1,200,000	\$1,200,000	Yes	\$1,131,600	\$68,400	
				1		\$0	Yes	\$0	\$0	
				1		\$0	Yes	\$0	\$0	
				1		\$0	Yes	\$0	\$0	
				1		\$0	Yes	\$0	\$0	
				1		\$0	Yes	\$0	\$0	
			1		\$0	Yes	\$0	\$0		
Subtotal Other Construction						\$1,200,000		\$1,131,600	\$68,400	
5. Mobilization And Administration Costs	Contractor Mobilization		LS	1	\$85,000	\$85,000	No	\$0	\$85,000	
	Traffic Control	LS	1	\$2,500	\$2,500	Yes	\$2,358	\$143		
	Construction Survey & Layout	LS	1	\$15,000	\$15,000	Yes	\$14,145	\$855		
	Construction Contingencies	LS	1	\$170,000	\$170,000	Yes	\$160,310	\$9,690		
	Construction Administration	LS	1	\$55,000	\$55,000	Yes	\$51,865	\$3,135		
	Subtotal Mobilization & Administration Costs					\$327,500		\$228,678	\$98,823	
Subtotal Construction Or Implementation Cost (Part E)							\$1,649,000	\$1,474,852	\$174,148	
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)							\$1,737,000	\$1,474,852	\$262,148	

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Part	Item Description					Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)
G.	Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,0000								\$30,000	No	\$0	\$30,000	
H.	Total Project Cost Including ADOT Fees (Part F + Part G)								\$1,767,000		\$1,474,852	\$292,148	

PART E - TOTAL PROJECT SCHEDULE AND BUDGET

Please verify that the cost and programming estimates for the total project are correct below. The numeric values on this sheet (in GREY) are automatically populated from the cost estimate sheet (Part D) and cannot be modified. If there are any errors in the numeric values on this sheet, please verify and correct the numbers you have entered into the cost estimate sheet (Part D). You MUST fill in the GREEN portions of Part E manually.

The design for the project should be programmed at least 1 year, preferably 2 years, prior to construction. Utilities and right of way should be programmed at least 1 year prior to construction, but may occur in the same year as construction depending on utility and right of way concerns that are identified in questions 24-27 in Part B.

Cost Estimate for the Project Including ALL Segments	Cost	Additional Notes (if needed)
1. ADOT Fee	\$30,000	
2. Design	\$88,000	
3. Right of way	\$0	
4. Utilities	\$0	
5. Construction	\$1,479,000	
6. Contingency	\$170,000	No more than 20% of Construction Cost
7. Total Cost	\$1,767,000	

8. Will the agency maintain the improvement after it is completed?

9. Expected Annual Maintenance Cost

10. Identify Source of Maintenance Funds

Requested MAG Programming	Year	Short Work Description (E.g. Construct Multiuse Path)	Local Funding Source	Local Cost	Federal Cost	Total Cost	Local Share
11. Design (Optional)				\$0	Not Available	\$0	
12. Right of way (Optional)				\$0	Not Available	\$0	
13. Utilities (Optional)				\$0	Not Available	\$0	
14. Other (Optional)				\$0	Not Available	\$0	
15. Construction	2021	Construct Multi-use Bridge	General Fund	\$292,148	\$1,474,852	\$1,767,000	16.5%
16. Total Costs				\$292,148	\$1,474,852	\$1,767,000	16.5%

PART F - SIGNATURE AND CHECKLIST

Checklist

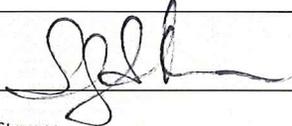
This checklist is included to facilitate applicant review and verification that all required fields in the form have been completed.

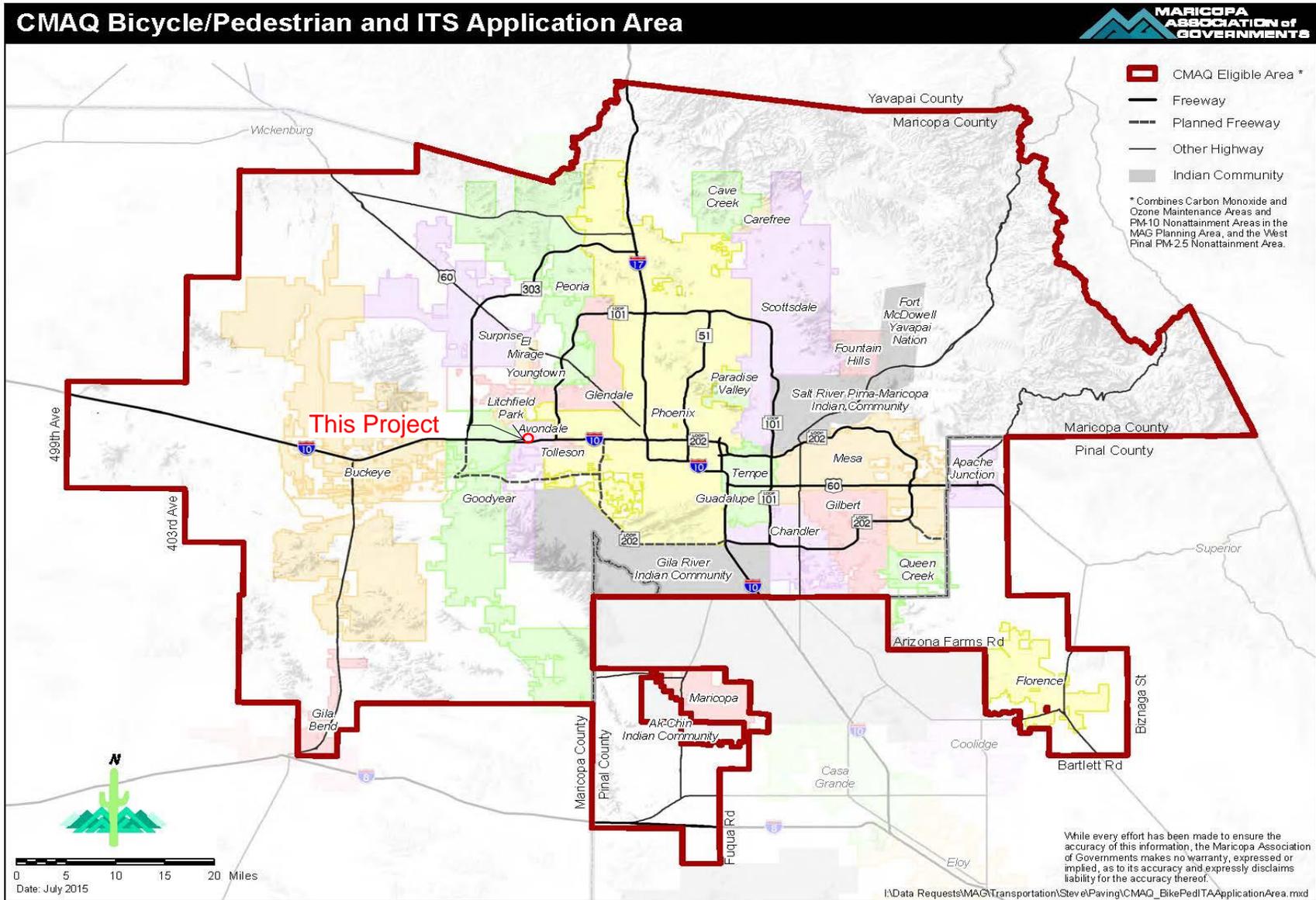
COVER SHEET	Complete?
Cover Sheet is completely filled out	Yes
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	Yes
Project Description, fields 6 - 8 are complete	Yes
PART B - Project Description	Complete?
Fields 1 - 14 (Project Description) are complete	Yes
Fields 15 - 17 (Transit) are complete	Yes
Fields 18 – 22 (Attractors and Demographics) are complete	Yes
Fields 23 – 30 (Traffic, Environmental, ROW, and Utilities) are complete	Yes
Fields 31 – 33 (Guidelines, Policies, and Plans) are complete	Yes
Fields 34 – 37 (Maintenance, Performance Measurement, and Wayfinding) are complete	Yes
PART C - Required Attachments	Complete?
Field 1 - Map showing the general location of the proposed project in relation to the region, including a north arrow provided in the printed application and the PDF application.	Yes
Field 2 - Map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow provided in the printed application and the PDF application.	Yes
Field 3 - Up to four (4) photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	Yes
Field 4 - Simple diagram of the current typical cross section of the segment, that shows the right of way limits, widths, sidewalks and shoulders (if any), and the lanes of travel in the printed application and the PDF application.	Yes
(OPTIONAL)- Up to two (2) photos/renderings of the completed project are provided in the printed application and the PDF application.	Yes
(OPTIONAL) - Up to three (3) letters of support for the project are provided in the printed application and the PDF application.	Yes
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	Yes
PART D - Cost Estimate Worksheet	Complete?
Sponsoring Agency, Project Title, and Application Date are complete	Yes
Part A - Scoping is complete	Yes
Part B - Final Preliminary Engineering Design is complete	Yes
Part C - Right-of-Way Acquisition is complete	Yes
Part D - Utility Relocation is complete	Yes
Part E - Construction or Implementation is complete	Yes
Parts F, G, and H - Costs are complete and accurate	Yes
PART E - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete and costs are accurate	Yes
Field 8 - 10 are complete	Yes
Fields 11 – 15 Years are complete	Yes
Fields 11 – 15 Local Funding Sources are complete	Yes
Fields 11 – 15 Local Costs are complete and accurate	Yes

Field 11 - 15 Federal Costs are complete and accurate	Yes
Field 16 Total Costs are complete and accurate	Yes
PART F - Signature and Checklist	Complete?
Entire checklist is completed.	Yes
Form is signed by MAG member agency's manager/administrator or designated representative.	Yes
Name, title and date fields under the signature are completed.	Yes

SIGNATURE(S):

As the MAG member agency's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature:	
Name:	Tracy Stevens
Title:	Development & Engineering Services Director
Date:	9/21/2017





Avondale

Friendship Park

Agua Fria River

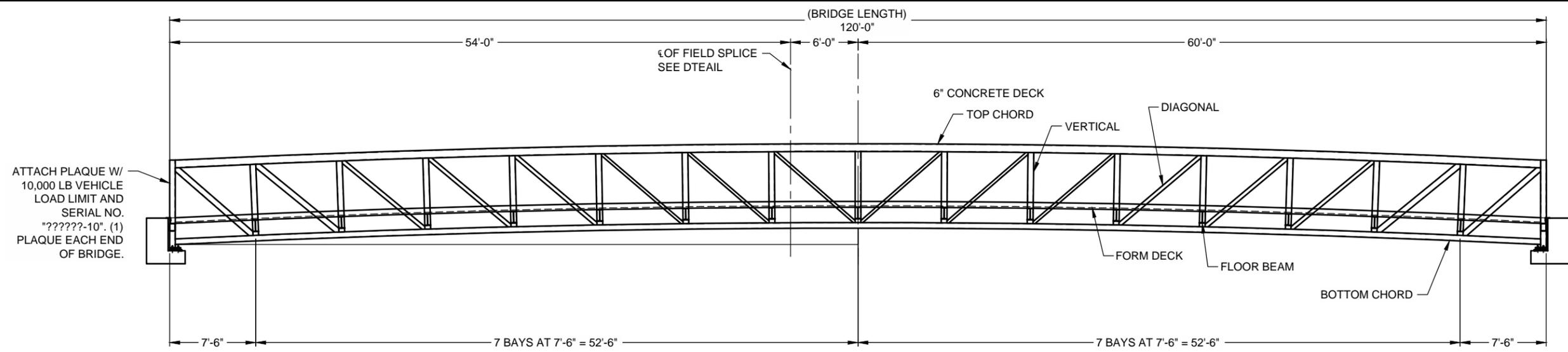
Multiuse Trail

ADOT Drainage Channel

Ped/Bike Bridge

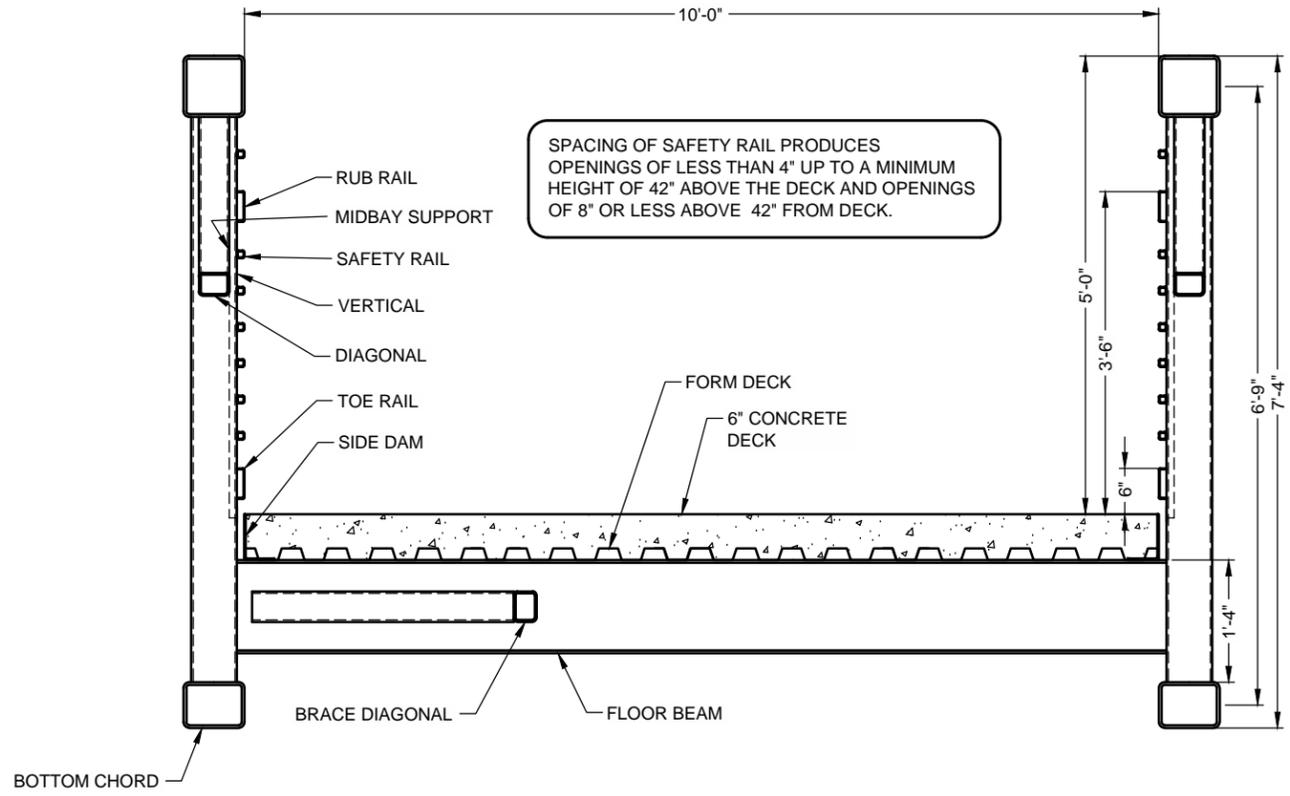
Proposed Trailhead Location
I-10 Underpass Project

P:\ENGINEERING\AASHTO EXPRESS\120' BRIDGES\10' CONCRETE DECK\120' X 10' CONC. SALES.DWG 6/17/2015 8:51 AM



GENERAL NOTES

- DESIGN STRESSES ARE IN ACCORDANCE WITH "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" & "GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES" BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
- BRIDGE MEMBERS ARE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL SHAPES (Fy=50,000 PSI).
- BRIDGE DECK SHALL BE FORM DECK WITH A CONCRETE DECK PLACED OVER TOP. CONTECH WILL PROVIDE FORM DECK BUT NOT BE RESPONSIBLE FOR PLACING OR COST OF CONCRETE DECK OR ANY COMPONENTS RELATED TO ITS CONSTRUCTION.
- THE GAS METAL ARC WELDING PROCESS OR FLUX CORED ARC WELDING PROCESS WILL BE USED. WELDING TO BE IN ACCORDANCE WITH AWS D1.1.
- ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS. WELD BETWEEN TOP CHORD AND END VERTICAL SHALL BE AS DETAILED.
- UNLESS OTHERWISE NOTED, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) OF A SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAGE MEMBER IN THE CONNECTION. WELDS SHALL BE APPLIED AS FOLLOWS:
 - BOTH ENDS OF VERTICALS, DIAGONALS, AND FLOOR BEAMS SHALL BE WELDED ALL AROUND.
 - BRACE DIAGONALS WILL BE WELDED ALL AROUND.
 - MISCELLANEOUS NON-STRUCTURAL MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.
- BRIDGE DESIGN WAS ONLY BASED ON COMBINATIONS OF THE FOLLOWING LOADS WHICH WILL PRODUCE MAXIMUM CRITICAL MEMBER STRESSES.
 - 90 PSF UNIFORM LIVE LOADING ON THE FULL DECK AREA OR ONE 5,000 LB VEHICLE LOAD. THE LOAD SHALL BE DISTRIBUTED AS A FOUR-WHEEL VEHICLE WITH 80% OF THE LOAD ON THE REAR WHEELS. THE WHEEL TRACK WIDTH OF THE VEHICLE SHALL BE 6'-0" AND THE WHEEL BASE SHALL BE 10'-0". THE VEHICLE SHALL BE POSITIONED SO AS TO PRODUCE THE MAXIMUM STRESSES IN EACH MEMBER, INCLUDING DECKING.
 - 35 PSF WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
 - 20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH (AASHTO 3.15.3).
- CLEANING: ALL EXPOSED SURFACES OF STEEL SHALL BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACES PREPARATION SPECIFICATIONS NO. 7 BRUSH-OFF BLAST CLEANING. SSPC-SP7-LATEST EDITION.
- MINIMUM MATERIAL THICKNESS OF 1/4" ON ALL STRUCTURAL MEMBERS.



1 BRIDGE SECTION
2

CAUTION:
WE ARE PROVIDING A WOOD DECK ON THIS STRUCTURE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR THE CONTRACT DOCUMENTS. BE AWARE THAT MOST PEDESTRIAN BRIDGE LIABILITY CLAIMS ARE STATISTICALLY SLIP AND FALL CLAIMS. IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE DECK FREE FROM SLIP OR TRIP HAZARDS DUE TO CUPPING, SPLITS, GAPS AND SMOOTH SURFACES.

CONTECH
FABRICATION
DRAWING



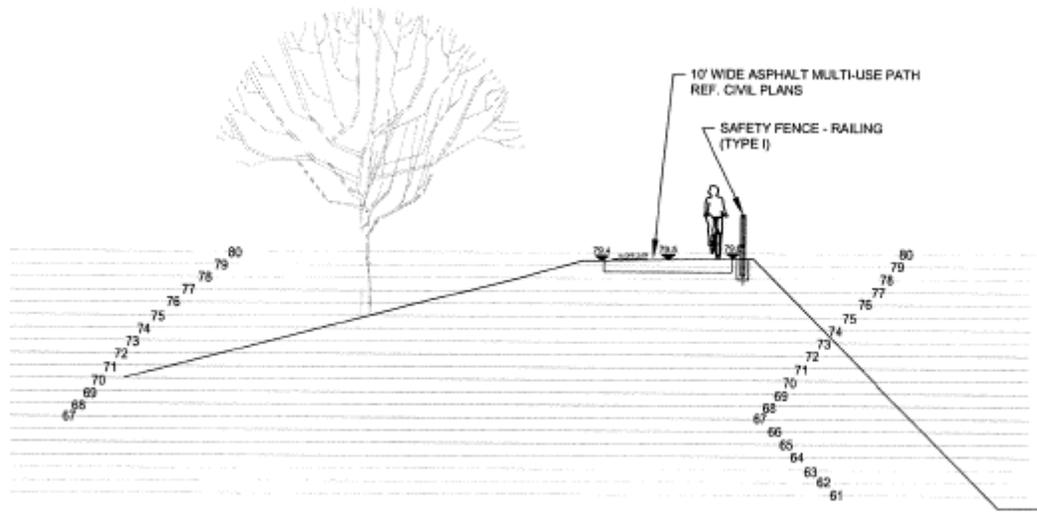
The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC ("Contech"). Neither the drawing, nor any part thereof, is to be used for any other project without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use.
If discrepancies between the supplied information upon which the drawing is based and actual field conditions are noted, the user must report to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

MARK	DATE	REVISION DESCRIPTION	BY

120'-0" X 10'-0"
STANDARD CONCRETE DECK
PEDESTRIAN BRIDGE
CITY, STATE

CONTECH
ENGINEERED SOLUTIONS LLC
www.conteches.com
8301 State Highway 28 North, Alexandria, MN 56308
800-325-2047 320-862-7500 320-862-7087 FAX
CONTINENTAL
BRIDGE

DATE:	11/5/2014		
DESIGNED:	XXX	DRAWN:	CLH
CHECKED:	XXX	APPROVED:	XXX
PROJECT No.:		SEQUENCE No.:	001
SHEET:	1 OF 5		



**SECTION C-C TYPICAL TRAIL
SCALE = 1:5**