



**Transportation Alternatives / CMAQ Application for  
FY 2018, 2019, and 2020 Projects**

**Agua Fria Trail Phase II**

**City of Avondale**

**APPLICATIONS ARE DUE AT MAG OFFICES BY  
Monday, September 21, 2015 at 10:00 a.m.**

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

**Avondale: Agua Fria Trail Phase II**

<b>PART A - CONTACT AND PROJECT DESCRIPTION</b>	
<b>Contact Information</b>	
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 Dr, Avondale AZ 85323
<b>Project Description</b>	
6. Please provide the Project Title.	Agua Fria Trail Phase II
7. Please provide a concise, specific description of the project (250 character limit):	
<p>This project will construct a pedestrian/bike bridge across the ADOT drainage channel connecting Friendship Park to the existing trail trail head recently constructed with the Agua Fria I-10 Underpass project.</p>	
8. Please provide the project limits:	
<p>Agua Fria River east bank from north of I-10 to Friendship Park</p>	

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 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 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"/> 2 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 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 404/408 permit

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**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 resident 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

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

- Yes
- No

Please Explain:

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 and bird watch. 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, Agua 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:

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**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:

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PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served:

[MAG Demographic Mapping](#)

1203 People Per Square Mile

9.3 % 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:

ADOT drainage Channel bridge. This is along the east side of the Agua Fria River from the south bank of the ADOT drainage channel into Friendship Park.

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:

Not Classified

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

Type of Facility the Improvement will be located on:

Project is Off-Street

0.1 Length (in Miles)

n/a Posted Speed Limit (MPH)

n/a Number of Travel Lanes Before Project

n/a Number of Travel Lanes After Project

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**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

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**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"/>
Complete Streets Policy	<input type="text"/>

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:

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**PART B-DETAILED PROJECT DESCRIPTION**

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

[Empty response box]

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?

No

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

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**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:		9/21/2015		
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	\$8,000.00	\$8,000.00	No	\$0.00	\$8,000.00		
	4. HAZMAT ASSESSMENT			LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	<b>Subtotal Scoping (Part A)</b>						<b>\$30,500.00</b>		<b>\$0.00</b>	<b>\$30,500.00</b>		
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	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	<b>Subtotal PE (Part B)</b>						<b>\$55,000.00</b>		<b>\$0.00</b>	<b>\$55,000.00</b>		
<b>Subtotal Preliminary Engineering (Part A + Part B)</b>						<b>\$85,500.00</b>		<b>\$0.00</b>	<b>\$85,500.00</b>			
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition			LS	1		\$0.00	No	\$0.00	\$0.00		
<b>Subtotal Right-of-Way Acquisition (Part C)</b>						<b>\$0.00</b>		<b>\$0.00</b>	<b>\$0.00</b>			
D. Utility Relocation	1. Utility Relocation			LS	1		\$0.00	No	\$0.00	\$0.00		
<b>Subtotal Utility Relocation (Part D)</b>						<b>\$0.00</b>		<b>\$0.00</b>	<b>\$0.00</b>			
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	\$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	\$0.00	
		Hazmat Abatement		LS	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00	
		Retaining Wall - Reinforced Concrete Cantilevered		SF	1		\$0.00	Yes	\$0.00	\$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	\$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	\$0.00	
		Aggregate Base		CY	1		\$0.00	Yes	\$0.00	\$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	\$0.00
			Stamped Color Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
			Precast Concrete Pavers		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
			Asphaltic Concrete		Ton	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
			Polymer or Resin Stabilized Surface		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
		Crosswalk Enhancement	Concrete Pavers		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
			Stamped Asphalt		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
			Stamped Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
			Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00
		Integral Color Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00	
		Pedestrian ADA Ramp		SF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00	
		Culvert Extensions		LF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00	
Pedestrian Lighting Including Conduit And Trenching		Each	1	\$10,000.00	\$10,000.00	Yes	\$9,430.00	\$570.00				
Handrail	Standard		LF	500	\$40.00	\$20,000.00	Yes	\$18,860.00	\$1,140.00			
	Decorative		LF	1		\$0.00	Yes	\$0.00	\$0.00	\$0.00		
<b>Subtotal Hardscape Construction</b>						<b>\$114,000.00</b>		<b>\$107,502.00</b>	<b>\$6,498.00</b>			

**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.

<b>Sponsoring Agency:</b>	City of Avondale	<b>Project Title:</b>	Agua Fria Trail Phase II	<b>Application Date:</b>	9/21/2015
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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	\$900,000	\$900,000	Yes	\$848,700	\$51,300	
				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						\$900,000	\$848,700	\$51,300	
	5. Mobilization And Administration Costs		Contractor Mobilization	LS	1	\$50,000	\$50,000	No	\$0	\$50,000
		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	\$150,000	\$150,000	Yes	\$141,450	\$8,550	
		Construction Administration	LS	1	\$50,000	\$50,000	Yes	\$47,150	\$2,850	
	Subtotal Mobilization & Administration Costs						\$267,500	\$205,103	\$62,398	
	<b>Subtotal Construction Or Implementation Cost (Part E)</b>						<b>\$1,289,000</b>	<b>\$1,168,377</b>	<b>\$120,623</b>	
	<b>F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)</b>						<b>\$1,374,500</b>	<b>\$1,168,377</b>	<b>\$206,123</b>	
<b>G. Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,0000</b>						<b>\$30,000</b>	No	\$0	\$30,000	
<b>H. Total Project Cost Including ADOT Fees (Part F + Part G)</b>						<b>\$1,404,500</b>	<b>\$1,168,377</b>	<b>\$236,123</b>		

Avondale: Agua Fria Trail Phase II

**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	\$85,500	
3. Right of way	\$0	
4. Utilities	\$0	
5. Construction	\$1,139,000	
6. Contingency	\$150,000	No more than 20% of Construction Cost
7. Total Cost	\$1,404,500	

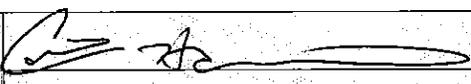
8. Will the agency maintain the improvement after it is completed?

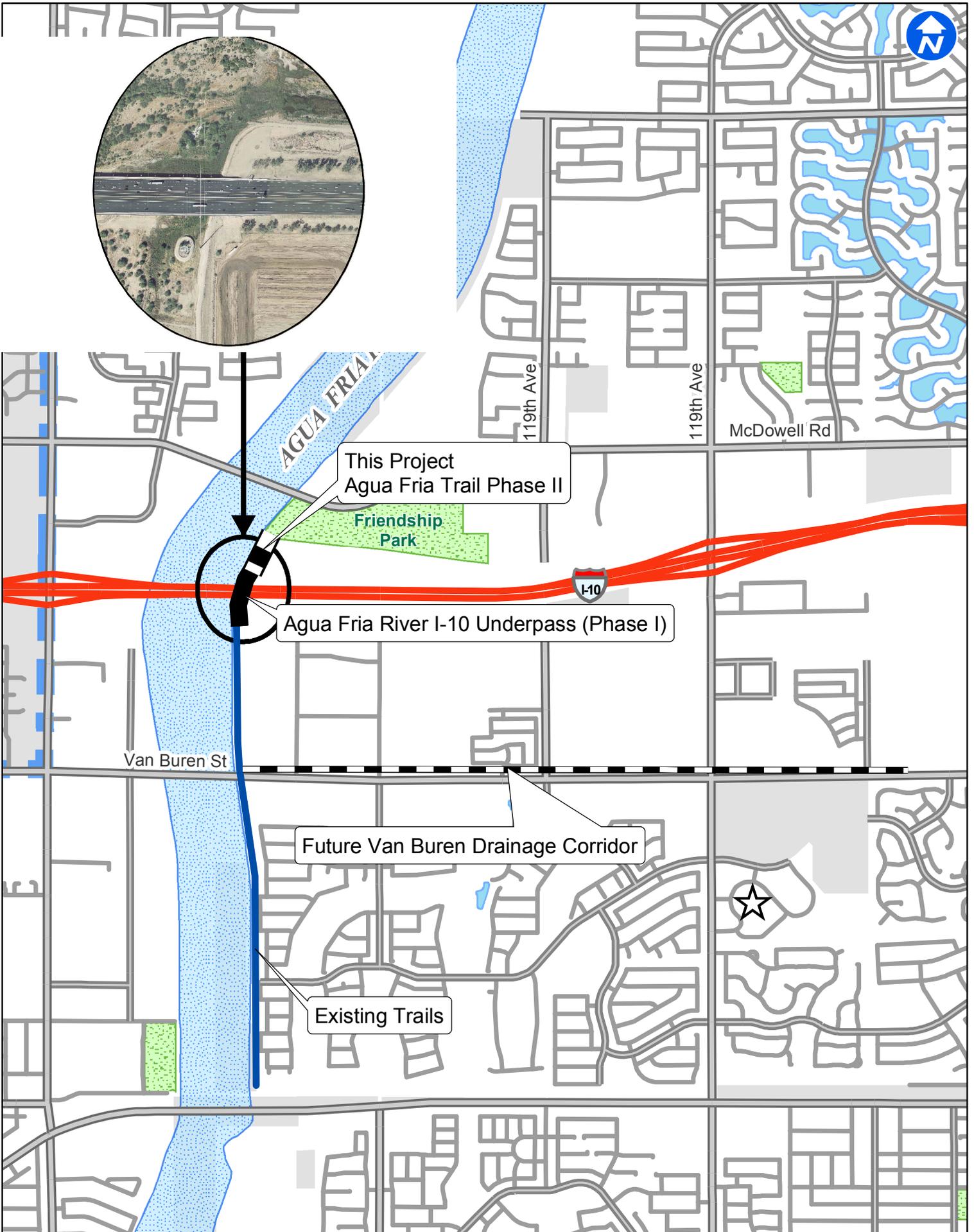
9. Expected Annual Maintenance Cost

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)	2017		General Fund	\$85,500	Not Available	\$85,500	100.0%
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	2018	Construction Multiuse Bridge	General Fund	\$150,623	\$1,168,377	\$1,319,000	11.4%
16. Total Costs				\$236,123	\$1,168,377	\$1,404,500	16.8%

<b>Checklist</b>	
This checklist is included to facilitate applicant review and verification that all required fields in the form have been completed.	
<b>COVER SHEET</b>	Complete?
Cover Sheet is completely filled out	X
<b>PART A - Contacts and Project Description Fields</b>	Complete?
Contact Information, fields 1 - 5 are complete	X
Project Description, fields 6 - 8 are complete	X
<b>PART B - Project Description</b>	Complete?
Fields 1 - 14 (Project Description) are complete	X
Fields 15 - 17 (Transit) are complete	X
Fields 18 - 22 (Attractors and Demographics) are complete	X
Fields 23 - 30 (Traffic, Environmental, ROW, and Utilities) are complete	X
Fields 31 - 33 (Guidelines, Policies, and Plans) are complete	X
Fields 34 - 37 (Maintenance, Performance Measurement, and Wayfinding) are complete	X
<b>PART C - Required Attachments</b>	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.	X
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.	X
Field 3 - Up to four (4) photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	X
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.	X
(OPTIONAL) - Up to two (2) photos/renderings of the completed project are provided in the printed application and the PDF application.	
(OPTIONAL) - Up to three (3) letters of support for the project are provided in the printed application and the PDF application.	
(OPTIONAL) - GIS coverage (shapfile or geodatabase) is provided on the CD with the application.	
<b>PART D - Cost Estimate Worksheet</b>	Complete?
Sponsoring Agency, Project Title, and Application Date are complete	X
Part A - Scoping is complete	X
Part B - Final Preliminary Engineering Design is complete	X
Part C - Right-of-Way Acquisition is complete	X
Part D - Utility Relocation is complete	X
Part E - Construction or Implementation is complete	X
Parts F, G, and H - Costs are complete and accurate	X
<b>PART E - Total Project Schedule and Budget Including All Segment Fields</b>	Complete?
Fields 1 - 7 are complete and costs are accurate	X
Field 8 - 10 are complete	X
Fields 11 - 15 Years are complete	X
Fields 11 - 15 Local Funding Sources are complete	X
Fields 11 - 15 Local Costs are complete and accurate	X
Field 11 - 15 Federal Costs are complete and accurate	X
Field 16 Total Costs are complete and accurate	X
<b>PART F - Signature and Checklist</b>	Complete?
Entire checklist is completed.	X
Form is signed by MAG member agency's manager/administrator or designated representative.	X
Name, title and date fields under the signature are completed.	X

<b>SIGNATURE(S):</b>	
As the MAG member agency's <i>manager/administrator or designated representative</i> , 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:	Chris Hamilton
Title:	Project Manager
Date:	9/21/2015

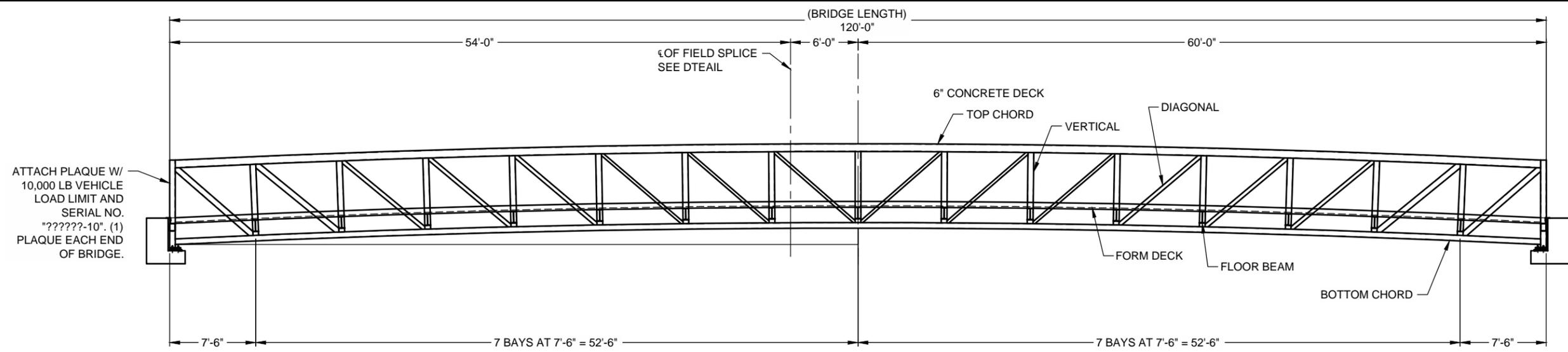


Vicinity Map  
Agua Fria Trail Phase II



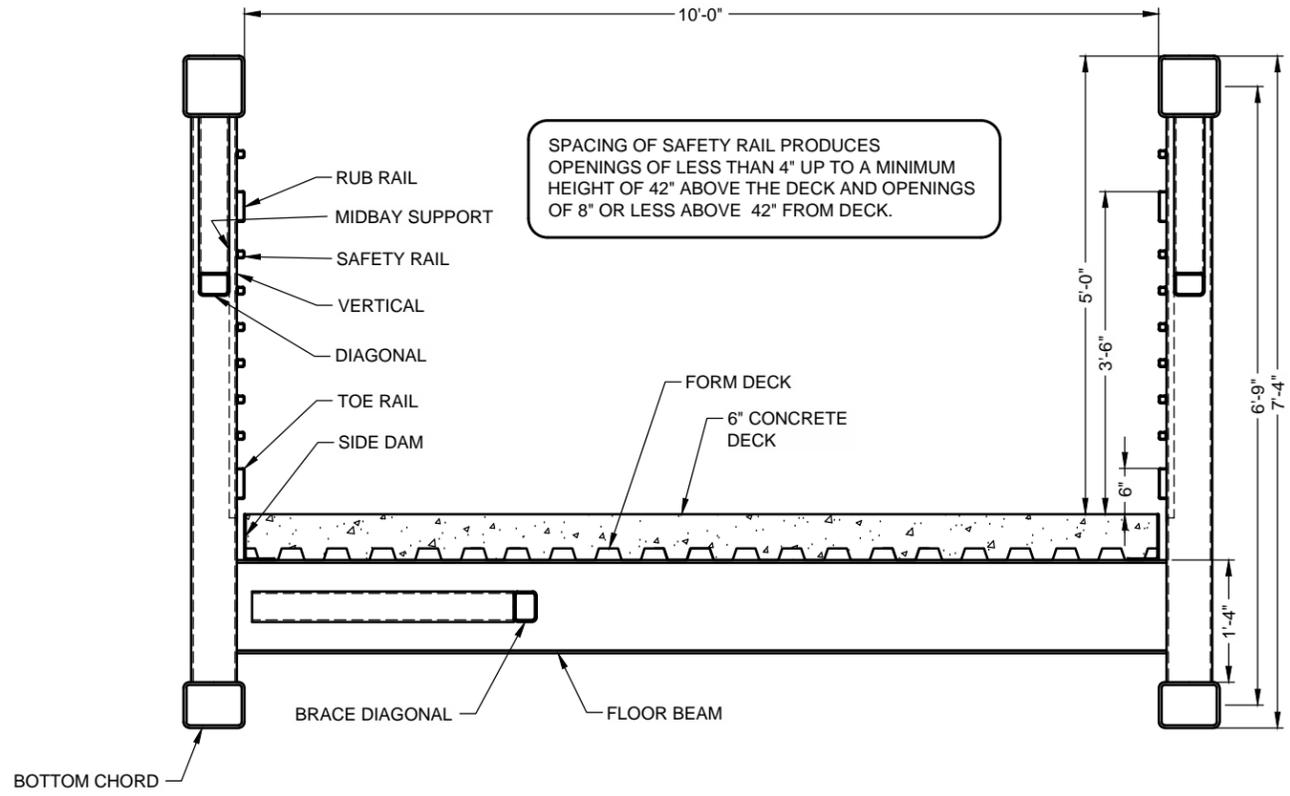


P:\ENGINEERING\AASHTO EXPRESS\120' BRIDGES\10'-0"CONCRETE DECK\120' X 10' CONC. SALES.DWG 6/17/2015 8:51 AM



### 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



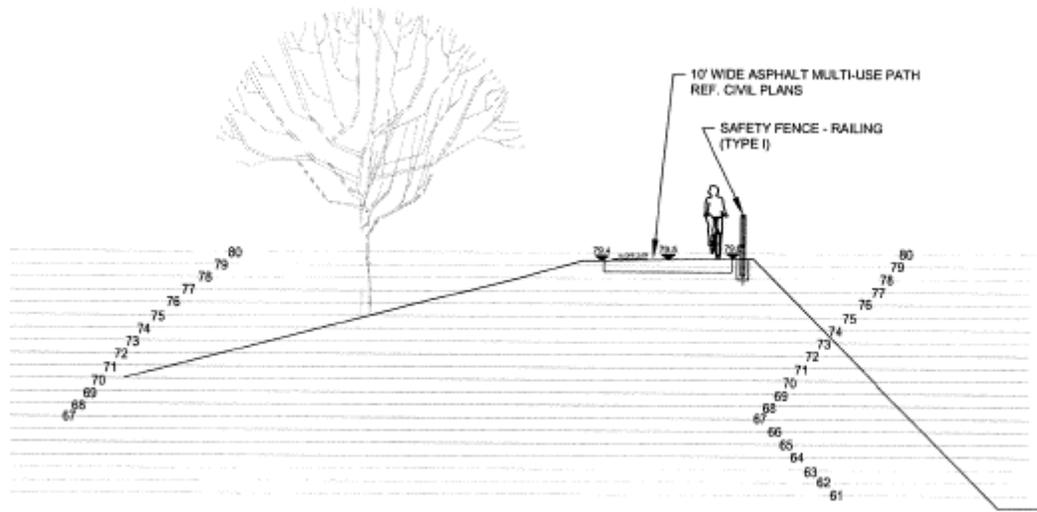
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If discrepancies between the supplied information upon which the drawing is based and actual field conditions are noted, the user must report to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on 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**