



**DESIGN ASSISTANCE APPLICATION
for FY 2016**

Bullard Avenue Multimodal Corridor Enhancement

City of Surprise

**APPLICATIONS ARE DUE VIA ONLINE SUBMITTAL BY
10:00 AM ON MONDAY, JUNE 29, 2015**

DESIGN ASSISTANCE FY 2016 APPLICATION

Surprise: Bullard Avenue Multimodal Corridor Enhancement

PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information

1. Name of Sponsoring Agency	Surprise
2. Project Manager Name and Title	Martin Lucero, Transportation Planning Manager
3. Phone Number of Project Manager	623-222-3142
4. E-Mail Address of Project Manager	martin.lucero@surpriseaz.gov
5. Mailing Address of Project Manager	Community Development Department 16000 N. Civic Center Plaza Surprise, AZ 85374

Project Description

6. Please provide the Project Title.	Bullard Avenue Multimodal Corridor Enhancement
7. Please provide the amount of funding requested:	\$ 89,800
8. Please provide a specific description of the project (i.e. bike path or sidewalk, width, length, cement or asphalt, etc.) (250 character limit):	

The City envisions Bullard Avenue as a multimodal corridor with a raised landscaped median, one 11-ft vehicle travel lane, one 6-ft Neighborhood Electric Vehicle (NEV) travel lane, a buffer zone, a 5-ft raised cycle track, landscape strip, and sidewalks on each side of the roadway. Two HAWK signals are proposed at the intersections with Acoma Drive and with Sweetwater Avenue. All improvements will be constructed to applicable AASHTO and/or FHWA standards.

9. Please provide the project limits:	
Bullard Avenue from Bell Road to Peoria Avenue, approximately 4 miles.	

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PART B - PROJECT DESCRIPTION

1. What type of project is this?

- | | | | |
|-------------------------------------|---|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> | Bicycle lane (4' min. w/o curb/gutter) | <input type="checkbox"/> | Grade-separated crossing |
| <input type="checkbox"/> | Bicycle lane (5' min. with curb/gutter) | <input type="checkbox"/> | Sidewalk (5' min.) |
| <input type="checkbox"/> | Buffered Bike Lane | <input type="checkbox"/> | Wide Sidewalk (8' min.) |
| <input checked="" type="checkbox"/> | Protected Bike Lane | <input type="checkbox"/> | Detached Sidewalk with 4' min. buffer |
| <input type="checkbox"/> | Shared-use path (10' min.) | <input checked="" type="checkbox"/> | Midblock Crossing |

2a. Please describe the existing condition of the project site and any problem(s) being addressed.

Bullard Avenue is currently a Minor Arterial with varying speed limit between 35 and 45 mph. The City Council recently took steps to reclassify this roadway to a Collector with 35 mph, with a Multimodal overlay. This project would advance Council's vision and design a multimodal corridor with a dedicated lane for neighborhood electric vehicles (NEV) and a raised cycle track in each direction. Bullard Avenue between Greenway and Waddell Roads has a curb to curb distance of 68 feet without a median, and is unsafe for school children to cross. Bike lanes are missing along many segments of this corridor therefore it is inconvenient and dangerous for bicyclists to reach many destinations along Bullard Avenue, including 7 schools, the civic center, Surprise Stadium, library and parks.

2b. Why is this project important to the community?

The project would significantly increase safety for school children crossing Bullard Avenue at Acoma Dr. City staff has received several complaints from residents and parents regarding unsafe crossing conditions at this location. A HAWK signal is proposed at this location to address residents' complaints. The intersection of Bullard Ave and Sweetwater Ave is anticipated to have similar safety issues once the new Legacy Traditional charter school opens 0.25 mile east side of Bullard Ave. Marley Park ES is currently located approximately 0.35 mile west of Bullard Ave. This project would also provide additional safe routes for NEV and bicyclists to travel to the civic center, schools, baseball stadium, parks, and the library.

3. Connectivity: (Check all that apply)

- Project fills a gap in the regional system
Explain:
- Project connects to other local facilities
List the connected facilities:
- Multi Jurisdictional Project
List of Participating Jurisdictions:
- Total length of facilities connected by this project (in miles)

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

The proposed 8 miles of raised cycle track will be designed per applicable AASHTO and FHWA standards and will provide safer access for children to go to school, and all other bicyclists improved access to all destinations along Bullard Avenue, such as the Civic Center, Surprise Stadium, churches, parks, and commercial uses. The 8 miles of dedicated NEV lanes will allow residents with NEV greater use of those vehicle throughout the City, and to many local destinations. The City of Surprise is an Age Friendly City and is working to promote NEV lanes which is a highly popular option for the 19% age 65+ Surprise residents.

5. Describe how this project will improve access to transit:

The City of Surprise currently has limited transit access. This project would help justify future transit corridors as well as provide multimodal options for connecting to transit hubs.

6. Describe how this project will address bike/vehicle or pedestrian/vehicle conflicts:

The raised cycle track on both sides of Bullard Ave will provide significant safety improvements for bicyclists by elevating bicyclist 6 inches to improve visibility to motorists. There will be a 6-ft NEV lane between the cycle track and the motor vehicle lane, farther separating bicyclists and pedestrians from moving vehicles. Pedestrian/vehicle conflict will be greatly reduced by the two HAWK signals at the intersections of Bullard/Acoma Dr, and at Bullard/Sweewater Ave.

7. What are the demographics of the area served:

[MAG Demographic Mapping](#)

2153 People Per Square Mile

7 % Families in Poverty

5 % Age 65 Plus

Use the MAG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reports," select "Custom Summary." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census blocks 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 blocks will become highlighted in blue. A pop-up box will appear with "Report 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 Excel icon at the top-right side of the pop-up window) for your records.

8. How will this project benefit families in poverty?

Within one mile of the Bullard Avenue corridor, 5.7% of the residents live in poverty. It should be noted that the area has a higher rate of families with children. Children are being encouraged to walk and ride bikes to school which would be directly beneficial to low income families who have lower rates of car ownership, and depend on non-motorized modes of transportation. This project will make walking and bicycling safer for everyone by including a raised cycle track and two HAWK signals along the length of Bullard Avenue.

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9. How will this project benefit minority residents?

Within one mile of the Bullard Avenue corridor, the minority population rate is 30.2%, which is higher than the City's overall minority population rate of 28.8%. Minority residents have a lower rate of vehicle ownership, therefore they rely more on walking and biking to reach their destinations, such as schools, employment and commercial centers, recreation and civic centers, etc. This project would significantly improve the safety conditions for all non-motorized users.

10. How will this project benefit elderly residents?

The City of Surprise is nationally ranked for having the 4th highest 65+ population per capita - 19% (Census 2010). Many Surprise residents, especially retirees in Sun City Grand, use neighborhood electric vehicles (NEV) for short distance travel within the City, especially traveling to the Civic Center area, including City Hall, City recreation centers, public library, and Surprise Stadium. This project will create a dedicated NEV lane in each direction so they would not have to compete with motor vehicles for a travel lane. The City has already lowered the speed limit on Bullard Avenue to 35 mph, so NEVs may use Bullard Avenue for convenience and safety. The elderly will benefit from the improved bicycle facilities, just like all other Surprise residents.

11. How will this project benefit school children?

There are six existing schools and one soon-to-be-open charter school, the Northwest Regional Library, Surprise recreation campus, City pool, and several parks are all approximately 1/2 mile on either sides Bullard Avenue. All these facilities could be easily and safely access by children on bicycles and walking along Bullard Avenue once the proposed project is complete. School attendance boundaries overlap Bullard Avenue and as a result school children are driven a short distance across Bullard Avenue because it is unsafe to cross on foot or by bicycle. Proposed HAWK signals at Bullard at Acoma and Bullard at Sweetwater would make these two intersections significantly safer to cross.

12. Please list any schools within 1/4 mile of the project:

Ashton Ranch Elementary School, Marley Park Elementary School, Imagine Rosefield Charter School, Legacy Traditional School (currently under construction, to be open August 2015).

13. How does the project benefit persons with disabilities?

The project's two HAWK signals at Acoma Drive and at Sweetwater Avenue will greatly increase the safety of persons with disabilities to cross Bullard Avenue at these two locations. HAWK signals will stop motor vehicles while allowing persons with disabilities to cross the roadway at their own pace.

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14. The project is: (Check one)

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

List:

In May 2015, Surprise City Council adopted a resolution to designate Bullard Ave as a multimodal corridor, as described in this application.

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

Explain:

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

Explain:

15. List the community partners that will be supporting the development and promotion of this project. Include city departments that will also be supporting the project.

Community Development Department, Public Works Department, Economic Development Department, Community Recreation Services Department, City Manager's Office, Police Department, Dysart Unified School District.

16. Does the jurisdiction have a dedicated staff person to manage the project? Which city department will be responsible to provide information to the consultant?

A staff person from the city's Project Management Team would be dedicated to managing this project and provide direction to the consultant.

17. Does the jurisdiction have base information available (topo survey, aerial photography, ALTA survey in electronic/digital format, easement information, utility placement information)?

The City has one meter aerial photographs of the project site from 2010-2013. Topo and ALTA surveys will be ordered before design begins.

Part C - Attachments

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.

PLEASE INCLUDE EACH ATTACHMENT AS A SEPARATE .JPEG OR .PDF FILE IN YOUR ELECTRONIC SUBMITTAL.

1. Please attach a map with street names clearly showing the project area boundaries and surrounding land uses, including a north arrow.

2. Please attach up to 2 aerial photos, if available (two 4x6 photos per page).

3. Please attach up to 4 photographs with captions of the study area showing the problems/issue (two 4x6 photos per page).

4. If the applicant is not the owner(s) of the project area, a letter of support and cooperation from the property owner(s) is required. This letter shall state that the property owner(s) agree to participate in the development of preliminary plans, and to permit improvements that may be identified as a result of this program.

5. (OPTIONAL) Up to 3 letters of support for the project.

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PART D - PROJECT COSTS

1. What is the approximate cost for 15% preliminary plans* for this project? Estimate cost for each task below:

\$3,800	Scope of Work
\$4,500	Stakeholder and Core Team Meetings
\$18,000	Data Collection
\$48,000	Data Analysis
\$8,000	Project Assessment Report (Draft)
\$5,000	Project Assessment Report (Final)
\$2,500	Executive Summary and Regional Significance Report
\$89,800	TOTAL COST ESTIMATE FOR 15% PRELIMINARY PLANS (SHOULD MATCH PART A, #7)

*15% Preliminary Plans generally include:

- Project Information (location, description, map)
- Background data including the need for the project
- Project Scope (length, type of work, how it is to be constructed)
- Project Development
- Environmental overview
- Geotechnical and drainage requirements
- Critical outside agency involvement
- Preliminary Right-of-Way requirements
- Preliminary Utility relocation requirements
- Preliminary Traffic requirements
- Seasonal consideration
- Design Criteria
- Itemized Cost Estimate
- Schedule
- Preliminary Plans
- Preliminary Pathway Horizontal Layout
- Typical Sections
- Preliminary Aesthetic Concept
- Information on potential funding sources
- Executive Summary

2. What is the anticipated cost for the whole project (please break down costs by design, environmental, ROW, utilities, construction, etc)?

Utilities and Construction = \$8,800,000
Design (10%) = \$880,000
Environmental = \$100,000
Contingency (15%) = \$1,320,000
Construction Administration (5%) = \$440,000
Right-of-way = \$0
Total Project = \$11,540,000

3. Are there designated funds for construction of this project? If yes, what funding sources have been identified?

No funds have been currently identified. However, this project would be identified in the CIP budget for FY2017.

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4. If funding has NOT been identified for construction of the project, what efforts have been made to identify funds that could be used for this project?

This project was conceived after the budget process had begun for FY2016, therefore, no funds have been identified yet. This project would be identified in the CIP budget for FY2017.

5. Are there funds for maintenance? Who has the responsibility for maintenance?

Maintenance of the upgraded Bullard Avenue, as well as all other streets in the City, will be the responsibility of the Streets Division, using Public Works Department funds.

6. Is an easement required for this project? If YES, please attach a Property Owner Letter of Support.

No easement will be required. The project is entirely in the City's right-of-way.

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PART E - SIGNATURE AND CHECKLIST

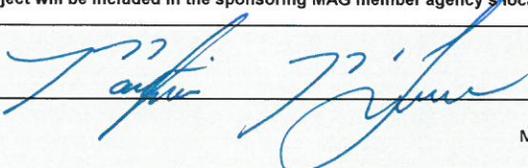
Checklist

This check list is included to facilitate applicant review and verification that all required fields in the form have been completed. **Incomplete applications will not be accepted.**

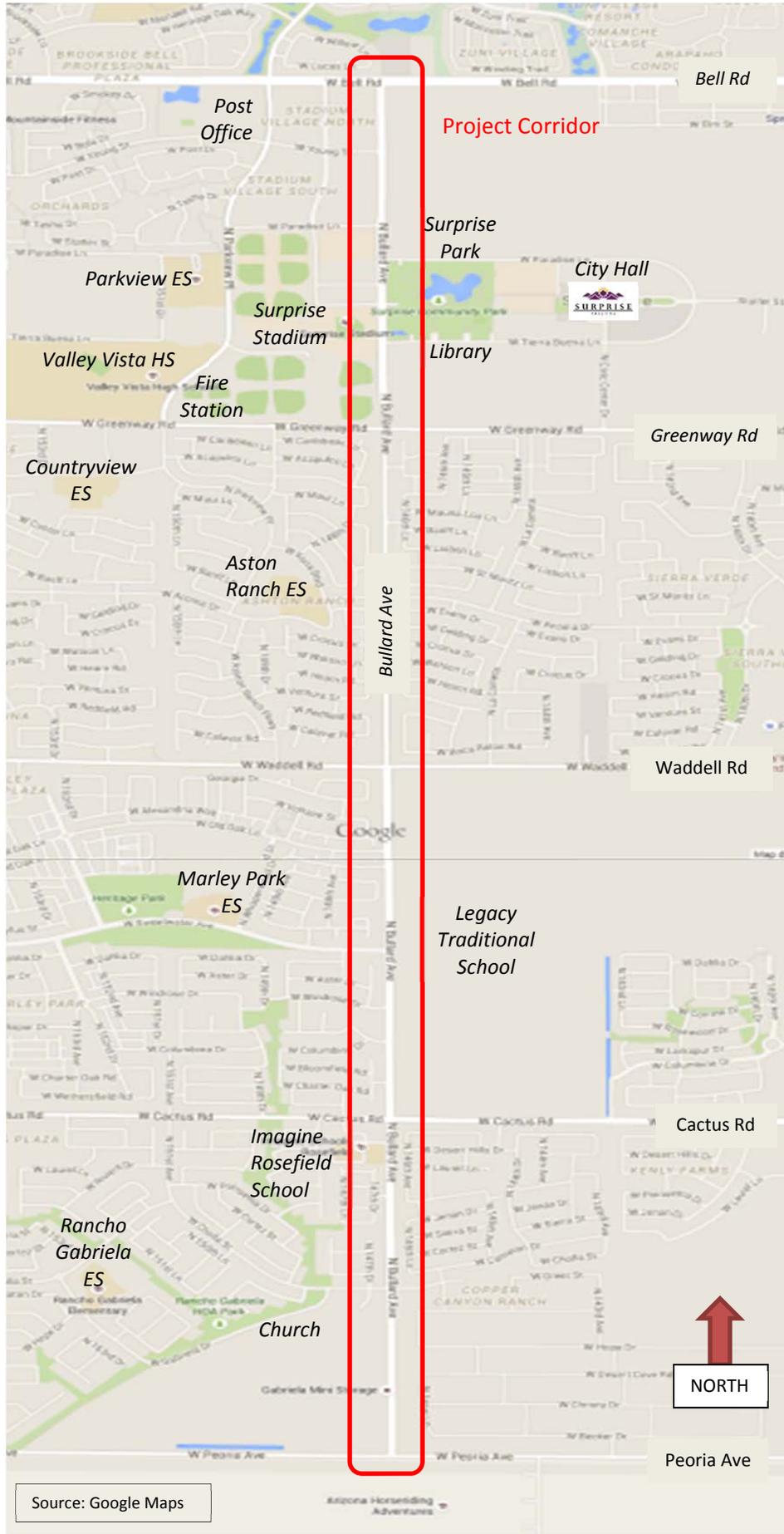
COVER SHEET	Complete?
Cover Sheet is completely filled out	Yes
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	Yes
Project Description, fields 6 - 9 are complete	Yes
PART B - Project Description	Complete?
Fields 1 - 17 are complete	Yes
PART C - Attachments	Complete?
Attachment 1 - Map with street names	Yes
Attachment 2 - Aerial photos (if available)	Yes
Attachment 3 - Photographs with captions of the study area showing the problems/issues	Yes
Attachment 4 - Letter of Support and Cooperation from Property Owner (if required)	Yes
Attachment 5 - Up to 3 Letters of Support (OPTIONAL)	Yes
PART D - Project Costs	Complete?
Fields 1-6 are complete	Yes
PART E - Signature and Checklist	Complete?
Entire checklist is completed.	Yes
Form is signed by MAG member agency's manager or administrator.	Yes
Name, title and date fields under the signature are completed.	Yes

SIGNATURE:

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

Signature:	
Name:	Martin Lucero
Title:	Transportation Planning Manager
Date:	29-Jun-15

Attachment 1



Attachment 2

Typical section of Bullard Avenue between Greenway Road & Cactus Road. 110 feet Right-of-Way, 68 feet curb to curb.

Four lane roadway with center two-way-left-turn-lane

No bike lanes on either side.



Typical section of Bullard Avenue between Sweetwater Avenue and Peoria Avenue 110 feet Right-of-Way, 74 feet curb to curb.

Four lane roadway with raised landscaped median.

Bike lane on the east side of Bullard, no bike lane on the west side.



Bullard Avenue between Greenway Road and Waddell Road is 68 feet wide with no bike lanes and is dangerous for alternative modes of transportation, such as bicycling and using neighborhood electric vehicles.



The wide roadway and high speed of vehicles create an unsafe condition for school children to cross Bullard Avenue at Acoma Drive. Same safety issue exists at Bullard Avenue at Sweetwater Avenue.



Bullard Avenue between Sweetwater Avenue and Peoria Avenue does not have bike lanes on the west side of the roadway.



There will be seven schools, the Northwest Regional Library, Surprise recreation campus, City pool, and several parks all located approximately 1/2 mile on either side Bullard Avenue. Currently, it is unsafe for children on bicycles or neighborhood electric vehicles to travel along Bullard Avenue. This project will provide the necessary link.



Office of the City Council
City of Surprise
16000 North Civic Center Plaza
Surprise, Arizona 85374
623.222.1300

June 19, 2015

Alex Oreschak
Transportation Planner II
Maricopa Association of Governments
302 North First Avenue, Suite 300
Phoenix, Arizona 85003

RE: Surprise FY2016 Design Assistance Application – Bullard Avenue

Dear Mr. Oreschak,

As an elected City Councilmember for the City of Surprise and the District 6 representative, I would like to express my support for the City of Surprise's Bullard Avenue Multimodal Corridor Design Assistance grant proposal. The City envisions Bullard Avenue as a multimodal corridor with a raised landscaped median, one vehicle travel lane, one Neighborhood Electric Vehicle (NEV) travel lane, a buffer zone, a raised cycle track, landscaping, and sidewalks on each side of the roadway. Additional enhancements would include two HAWK signals which are proposed at the intersections with Acoma Drive and with Sweetwater Avenue. This project would span approximately four miles along Bullard Avenue between Bell Road and Peoria Avenue.

This project is very important to me and would make a significant difference to my constituents. Earlier this month a high school student was riding his bike on Bullard Avenue to his summer job and was hit by a moving vehicle. I am thankful that he walked away from the incident but reminded that safety for pedestrians and bicyclists is a top priority.

Our transportation planners and engineering staff members have been working hand in hand to create innovative multimodal options for our residents. Elements of this proposal are outlined in several planning documents. I hope that you find our application worthy of being awarded. Thank you for taking time to consider this grant proposal. If you have any questions please feel free to contact me at 623.222.1000 or via email at todd.tande@surpriseaz.gov.

Sincerely,

Todd Tande
City of Surprise
Council Member, District 6