

WORK SESSION AGENDA

**CITY COUNCIL WORK SESSION
TUESDAY
MARCH 27, 2018**

**COUNCIL CHAMBERS
211 WEST ASPEN AVENUE
6:00 P.M.**

1. Call to Order

NOTICE OF OPTION TO RECESS INTO EXECUTIVE SESSION

Pursuant to A.R.S. §38-431.02, notice is hereby given to the members of the City Council and to the general public that, at this work session, the City Council may vote to go into executive session, which will not be open to the public, for legal advice and discussion with the City's attorneys for legal advice on any item listed on the following agenda, pursuant to A.R.S. §38-431.03(A)(3).

2. Pledge of Allegiance and Mission Statement

MISSION STATEMENT

The mission of the City of Flagstaff is to protect and enhance the quality of life for all.

3. Roll Call

NOTE: One or more Councilmembers may be in attendance telephonically or by other technological means.

MAYOR EVANS
VICE MAYOR WHELAN
COUNCILMEMBER BAROTZ
COUNCILMEMBER MCCARTHY

COUNCILMEMBER ODEGAARD
COUNCILMEMBER OVERTON
COUNCILMEMBER PUTZOVA

4. Public Participation

Public Participation enables the public to address the council about items that are not on the prepared agenda. Public Participation appears on the agenda twice, at the beginning and at the end of the work session. You may speak at one or the other, but not both. Anyone wishing to comment at the meeting is asked to fill out a speaker card and submit it to the recording clerk. When the item comes up on the agenda, your name will be called. You may address the Council up to three times throughout the meeting, including comments made during Public Participation. Please limit your remarks to three minutes per item to allow everyone to have an opportunity to speak. At the discretion of the Chair, ten or more persons present at the meeting and wishing to speak may appoint a representative who may have no more than fifteen minutes to speak.

5. Review of Draft Agenda for the April 3, 2018, City Council Meeting.

6. Discussion/Direction: Current Issues Before Arizona Legislature and Federal Issues.

7. **Consideration and possible revision regarding the authority to enter into Reclaimed Water Agreements**
8. **Discussion of a Listening Tour with the Business Community**
9. **Street Lighting to Enhance Dark Skies (SLEDs) Status Update**
10. **Review of Recommendations from the Citizens' Transportation Tax Commission**
11. **Informational Items To/From Mayor, Council, and City Manager; future agenda item requests.**
12. **Adjournment**

CERTIFICATE OF POSTING OF NOTICE

The undersigned hereby certifies that a copy of the foregoing notice was duly posted at Flagstaff City Hall on _____, at _____ a.m./p.m. in accordance with the statement filed by the City Council with the City Clerk.

Dated this _____ day of _____, 2018.

Elizabeth A. Burke, MMC, City Clerk

CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council
From: Brad Hill, Water Services Director
Co-Submitter: Sterling Solomon, City Attorney
Date: 03/19/2018
Meeting Date: 03/27/2018



TITLE:

Consideration and possible revision regarding the authority to enter into Reclaimed Water Agreements

DESIRED OUTCOME:

Discussion and possible direction to move to a future Council Agenda for the possible revision to City Code regarding approval of new Reclaimed Water Agreements

EXECUTIVE SUMMARY:

In July 2002, City Council adopted Ordinance No. 2002-07 that amended Title 7 of the City of Flagstaff Water and Wastewater Code in numerous ways. The Ordinance created three (3) new types of reclaimed water-related agreements between the City and end users; Reclaimed Water Agreements, Reimbursement Agreements, and Conversion Agreements. Additionally, the Ordinance established who had the authority to enter into each agreement and updated City Code language to be in compliance with a recent change in State law. In February 2001, the Arizona Department of Environmental Quality (ADEQ) updated their Reclaimed Water Rules. Among the many changes was the creation of a Reclaimed Water General Permit (Type 3) that is held by the City as the permittee. The change in law also created a requirement for a City to maintain a contractual agreement with each reclaimed water end user (aka Reclaimed Water Agreement). The City was issued its first Reclaimed Water Permit from ADEQ on June 5, 2002, with the permittee as the Utilities Director.

Councilmember Putzova presented a Future Agenda Item Request on November 7, 2017, which received the requisite support of Council to advance the item on the Working Calendar. At this point, Staff is seeking further direction from the Council.

INFORMATION:

In July 2002, City Council adopted Ordinance No. 2002-07 that among other things created three (3) new types of reclaimed water-related agreements between the City and end users; Reclaimed Water Agreements, Reimbursement Agreements, and Conversion Agreements. City Code states the following:

Reclaimed Water Agreements: A written agreement between the reclaimed water reuser and the Department for connection to an existing public reclaimed water pipeline, approved and executed in the name of the Department by the Utilities Director.

Reimbursement Agreement for Reclaimed Water: A written agreement between the reclaimed water reuser and the City for reimbursement of the reuser's costs incurred in providing for the extension of, and connection to, a public reclaimed water pipeline, approved by the City Council and executed in the name

of the City by the Mayor.

Conversion Agreement for Reclaimed Water: A written agreement between the City and the reclaimed water reuser for reimbursement of the City's costs incurred in converting the reuser's potable water system to a reclaimed water system, by the extension of, and connection to, a public reclaimed water pipeline, approved by the City Council and executed in the name of the City by the Mayor.

How other selected City's who have reclaimed water distribution systems manage their authority for entering into Reclaimed Water Agreements:

Town of Gilbert: City Council approves standard form agreement and the Public Works Director authorized to execute Reclaimed Water Use Agreements

City of Peoria: Utilities Director authorized to execute Reclaimed Water Service Agreements under the supervision of the City Attorney

City of Scottsdale: City Council approves all initial agreements connected to their Reclaimed Water Distribution System that provides reclaimed water to specific golf courses in north Scottsdale. They do not have typical end users of reclaimed water.

Attachments:

CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council
From: David McIntire, Community Investment Director
Date: 03/20/2018
Meeting Date: 03/27/2018



TITLE:

Discussion of a Listening Tour with the Business Community

DESIRED OUTCOME:

Council will hear a brief presentation from staff that offers background on efforts to engage with our business community.

EXECUTIVE SUMMARY:

The business environment is experiencing a time of great change with disruptions from new technologies, policies, market conditions and changing consumer preferences and demographics. Flagstaff's business community continues to innovate and expand, but also faces challenges.

While individual businesses, owners, and employees may reach out to specific Councilmembers; there are limited instances where a dialogue with the business community is the main focus of Council discussion. A discussion has been requested on a Business Community Listening Tour which could provide staff guidance on ways to assist with tours and/or other methods of facilitating the greater conversation about economic policy and the local economic environment.

On August 15, 2017, Councilmember Odegaard brought forward a Future Agenda Item Request to discuss having a listening tour with the business community. At that time, another councilmember agreed and it has been placed on this agenda to determine if there are four councilmembers interested in further direction.

INFORMATION:

Whether small or large, our businesses provide jobs, revenue, resources, quality of life and more to our community. And, as mentioned above, we are in a time of great change and disruption for the business community from a wide variety of sources.

To provide greater familiarity with some of these dynamics, staff began having Business Community Quarterly Updates on August 29, 2017. The three updates so far have included presentations from the Economic Collaborative of Northern Arizona (ECONA), the Native American Business Incubator (NABI), Goodwill of Central and Northern Arizona, Local First of Northern Arizona, Northern Arizona University (NAU), Coconino County, the Chamber of Commerce, Mother Road Brewing Company, Little America and business owner Karan Patel. These updates allow for brief presentations and a question and answer opportunity. Additionally, staff has supported tours of Joy Cone and Swire Coca-cola to assist Council in familiarizing themselves with specific businesses and facilities. Also, Council is often invited to ribbon-cuttings and award ceremonies held by the Chamber of Commerce, monthly mixers with Local First of Northern Arizona, and events like Shark Tank, business open houses, and Moonshot Monday

from the Northern Arizona Center for Entrepreneurship and Technology (NACET).

Staff is available for questions and to receive guidance regarding Council's preferences in this area.

Attachments: [Presentation](#)

Listening Tour with Business Community

Dave McIntire, Community Investment Director





Current Efforts:

Council Quarterly Updates:

- *August 29, 2017* – Native American Business Incubator, ECONA, Goodwill, NAU, Local First Arizona and Coconino County
- *November 28, 2017* – Chamber of Commerce and Mother Road Brewing Company
- *February 27, 2017* – Little America and Karan Patel

Council Business Tours:

- *Most recent:* Joy Cone Company and Swire Coca –Cola USA
- *Examples of tours in previous years:* Nestle Purina, Machine Solutions, Prent Thermoforming, Electric Torque Machines, Mack Automation, Planet Rider, IML Containers, and more...



Current Efforts:

Business Organization Meet and Greets:

- Local First of Arizona Monthly Mixers
- Chamber of Commerce business ribbon cuttings and award events
- Sharks in Space, Moonshot Mondays, Business open houses from NACET

QUESTIONS?

THANK YOU!



CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council
From: Jeff Bauman, Traffic Engineer
Date: 03/13/2018
Meeting Date: 03/27/2018



TITLE

Street Lighting to Enhance Dark Skies (SLEDs) Status Update

RECOMMENDED ACTION:

This is a Project Update discussion item, no action is requested or required.

EXECUTIVE SUMMARY:

The SLEDs Project's primary objective is to find a solution to Flagstaff's current street lighting replacement need while balancing dark skies, safety, and maintenance/cost-effectiveness objectives.

The SLEDs Project is the result of several years of discussions between the City and the local observatories (USNOFS and Lowell Observatory) and the Dark Skies Coalition that started in May 2012. At that time, the City found itself in a lighting predicament as Low-Pressure Sodium (LPS), the preferred lighting source since 1989, was becoming increasingly more expensive to purchase, quality replacement parts were becoming more difficult to acquire, and we were experiencing structural failures of the pole/mast arm connection due to the size and weight of the LPS fixture, especially in wind prone areas.

In June 2015, Council approved an Inter-Governmental Agreement (IGA) with ADOT to secure funding for the SLEDs Project. This was in the form of \$100K (FY16) to hire a Consultant Team (ultimately Monrad Engineering) and \$200K (FY16) for test fixtures to support the Consultant Team's work. All of the funding coming from the Flagstaff Metropolitan Planning Organization's (FMPO) Surface Transportation Program (STP).

The June 2015 Staff Summary Report concluded with "This SLEDs Project is an opportunity for Flagstaff to demonstrate to other municipalities an innovative lighting solution for dark sky preservation with Light Emitting Diode (LED) technology that achieves municipal objectives for safety and cost-effectiveness and astronomical objectives for maintaining dark skies." That description is a partial and generalized list of priorities that the SLEDs Team is balancing.

The subsequent Request for Proposal (RFP) utilized to procure the best-qualified Consultant Team has similar language to the Staff Summary Report:

"The City seeks cost-effective replacement technologies that (1) maintain or approximate current lighting levels and (2) do not adversely impact the City's dark sky natural resource or the missions of the Lowell Observatory and the U.S. Naval Observatory. In consideration of cost-effectiveness, the City seeks to utilize existing light pole infrastructure."

"Measures of Effectiveness may include:

- Light uniformity
- (1) Brightness and (2) spectrum analysis from several perspectives including:
 - On the street
 - At the observatories
 - General sky brightness
 - Identification of ambient light levels (i.e. absence of streetlights)
- Color rendition
- Wind loading (Effective Projected Area)
- Public commentary on lighting levels and color rendition
- Life cycle costs including, but not limited to, initial capital expense, energy use, and maintenance”

In September 2015, the Consultant Team, led by Monrad Engineering, was awarded a one year and \$100K contract to conduct applied research in order to develop a replacement strategy for the City’s increasingly obsolete LPS street lights with newer technology (LED). This contract will be modified to extend thru December 2018 in a total amount of \$141K.

PROJECT UPDATE:

The SLEDs Team has worked through several tasks to date:

- An assessment of the viability of continuing to use LPS which will be no longer be available after July 2019
- A structural analysis of existing light pole/mast arm assemblies and retrofit recommendations for existing poles/masts
- Pre-test installation measurements of several Arterial and Major Collector corridors have been obtained to help in determining final locations for Test Fixtures.
- Test fixture recommendations divided into two categories:
 - Arterials and selected Major Collectors
 - Selected Major Collectors, Minor Collectors, and Local Roads
- Developed specifications for the Minor Collector / Residential Narrow Band Amber Light Emitting Diode (NBALED) test fixtures, Arterial Hybrid Light Emitting Diode (HLED) 80% NBALED/20% 2700K LED test fixtures and Arterial Narrow Band Amber Light Emitting Diode (NBALED) fixtures.
- Worked through the Arizona Department of Transportation to procure the SLEDs test fixtures
- Worked with Arizona Department of Transportation on SLEDs test fixture procurement
- Draft SLEDs Report

SLEDs Project items that are currently in progress:

- Installation of test fixtures
 - Arterial and select Major Collectors - NBALED @ 12k lumens
 - Butler Avenue - Milton to Sawmill
 - Fourth Street - Route 66 to Industrial
 - Arterial and select Major Collectors - Hybrid LED @ 9k lumens
 - Butler Avenue - Sawmill to Ponderosa Parkway
 - Route 66 - Arrowhead to Fourth
 - Cedar at West signalized intersection
 - Residential Minor Collectors and Local Streets - NBALED @ 1500 lumens and 2500 lumens
 - The southern half of Cheshire
- Solicit public feedback on the test installations

SLEDs Project next steps:

- Public Inputs
 - Public Meeting / Tour of test sites

- Survey

Field measurements of test installations SLEDs project Final Steps:

- SLEDs Team meetings to discuss results of the test areas and begin developing proposed new City Engineering Standards for Street Lighting for eventual Council Adoption
- Establish City Wide replacement scenarios
 - Evaluate Life cycle costs for Alternatives including:
 - Initial capital expense
 - Energy use
 - Maintenance
 - Evaluate citywide lumen output for Alternatives
- Finalize SLEDs Project Report
- City Council Work Session/Regular Meeting to discuss SLEDs Team recommendations and consideration of Engineering Standards adoption (by Ordinance).

INFORMATION:

COUNCIL GOALS:

TRANSPORTATION AND OTHER PUBLIC INFRASTRUCTURE

Deliver quality community assets and continue to advocate and implement a highly performing multi-modal transportation system.

ENVIRONMENTAL AND NATURAL RESOURCES

Actively manage and protect all environmental and natural resources.

REGIONAL PLAN:

Goal T.2. Improve transportation safety and efficiency for all modes.

Policy T.2.1. Design infrastructure to provide safe and efficient movement of vehicles, bicycles, and pedestrians.

Policy T.2.2. Consider new technologies in new and retrofitted transportation infrastructure.

Policy T.2.3. Provide safety programs and infrastructure to protect the most vulnerable travelers, including the young, elderly, mobility impaired, pedestrians, and bicyclists.

Goal T.3. Provide transportation infrastructure that is conducive to conservation, preservation, and development goals to avoid, minimize, or mitigate impacts on the natural and built environment.

Policy T.3.6. Seek to minimize the noise, vibration, dust, and light impacts of transportation projects on nearby land uses.

Goal T.4. Promote transportation infrastructure and services that enhance the quality of life of the communities within the region.

Goal T.5. Increase the availability and use of pedestrian infrastructure, including FUTS, as a critical element of a safe and livable community.

Policy T.5.2. Improve pedestrian visibility and safety and raise awareness of the benefits of walking

Goal E&C.5. Preserve dark skies as an unspoiled natural resource, basis for an important economic sector, and core element of community character.

Policy E&C.5.2. Encourage and incentivize voluntary reduction of “exempt” lighting that degrades night sky visibility, and works to prevent light trespass whenever possible in both public and private areas.

Policy LU.19.4. Balance automobile use, parking, bicycle access, while prioritizing pedestrian safety along all corridors.

Attachments: SLEDS RFP
 Test Fixtures Map
 SLEDS PPT

CITY OF FLAGSTAFF

REQUEST FOR PROPOSALS

SOLICITATION FOR: FMPO-STREET LIGHTING FOR ENHANCING DARK SKIES (SLEDs)

SOLICITATION NO.: 2015-69

CLOSING DATE AND TIME: Wednesday, July 15th, at 3:00 PM

WHERE TO SUBMIT PROPOSALS (“OFFERS”): Offers shall be submitted prior to the Closing Date and Time in a sealed envelope as addressed below:

Attention Buyer: Candace Schroeder, CPPB
SEALED OFFER: Solicitation No. 2015-69 Street Lighting for Enhancing
Dark Skies, (SLEDs)
Closing Date and Time: Wednesday, July 15th, 3:00 PM
City of Flagstaff, Management Services-Purchasing Division
211 West Aspen Avenue
Flagstaff, AZ 86001

CITY NEEDS: The City of Flagstaff seeks a qualified research team to evaluate the impact of different street lighting applications on its dark skies, a resource highly valued by the City and the community. The City seeks proposals to partner on the application or development of an innovative light fixture technology to replace the current LPS technology and is particularly interested in narrow band amber LED, phosphor-coated amber LED, and various filtered LED options. The City seeks proposals that effectively and appropriately mitigate the impacts of these lighting options on the community’s dark sky natural resource.

INFORMATION: The Solicitation and all related materials and any addenda may be downloaded from the City Website, www.flagstaffaz.gov.

BUYER: Candace Schroeder, CPPB, Telephone No.: (928) 213-2278, Facsimile No.: (928) 213-2209, Email Address: cschroeder@flagstaffaz.gov. If the Buyer cannot be immediately reached, you may contact the receptionist for the City Management Services Purchasing Division at (928) 213-2206.

PRE-OFFER MEETING: Wednesday, May 20, 2015 at 10:00 AM, Finance Conference Room, City Hall, Second Floor. A pre-proposal conference call will be held to answer questions. Members of the scoring panel will attend the teleconference to ensure all proposers have equal opportunity to present their questions and ideas to evaluators.

QUESTIONS: Any questions must be received by the Buyer via telephone, email, or facsimile at least five (5) calendar days prior to the Closing Date and Time.

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SOLICITATION DESCRIPTION

PURPOSE

The City of Flagstaff seeks a qualified research team to evaluate the impact of different street lighting applications on its dark skies, a resource highly valued by the City and the community.

BACKGROUND

Street lighting in Flagstaff

The city of Flagstaff was the first to be recognized by the International Dark Sky Association as an *International Dark Sky City*. Flagstaff earned this distinction, in part, by the establishment in 1989 of a lighting code and engineering standards specifying the use of low-pressure sodium (LPS) light fixtures for all roadway and parking lot lighting. Today, LPS lights are increasingly difficult to acquire as low demand has prompted many manufacturers and distributors to stop production. In addition, the use of the largest 180 watt LPS fixtures on the current poles and mast arms along arterial streets creates high wind loads. The City seeks proposals to partner on the application or development of an innovative light fixture technology to replace the current LPS technology and is particularly interested in narrow band amber LED, phosphor-coated amber LED, and various filtered LED options. The City seeks proposals that effectively and appropriately mitigate the impacts of these lighting options on the community's dark sky natural resource.

LED lighting relative to LPS

Flagstaff adopted LPS due to the very close proximity (2-10 miles from city limits) of major astronomical observatories established in 1894 (Lowell Observatory) and 1955 (the U. S. Naval Observatory). The low-pressure sodium spectrum covers 589-590 nm – only 1 nm spectral coverage. In contrast, the standard white LED spectrum has significant emission over more than 300 nm and filtered LEDs (FLED) over about 220 nm. Conversion of Flagstaff street lighting to 4100K CCT white LEDs has been estimated to increase sky glow by a factor of 7 relative to LPS, and conversion to FLED by a factor of 3.7, severely compromising the observatories' missions and greatly degrading the visual appearance of the night sky in the city.

Other LED options exist, however. Phosphor-coated amber LEDs (PCALED) has a narrower spectrum than FLED, cutting off at about 530 nm. True narrow band amber LEDs (NBALED) have only a 20nm bandpass centered near 590 nm; this is wider than LPS but entirely acceptable from an astronomical perspective. Filters that cut off the blue end of the spectrum at 550 nm (FLED550) create an LED option reasonably closely resembling high-pressure sodium (HPS, with a roughly 120nm bandpass). True narrow band LED options are also available at slightly redder wavelengths than amber (about 620 nm rather than 590 nm). See Figure 1 for representative spectra of some of these options.

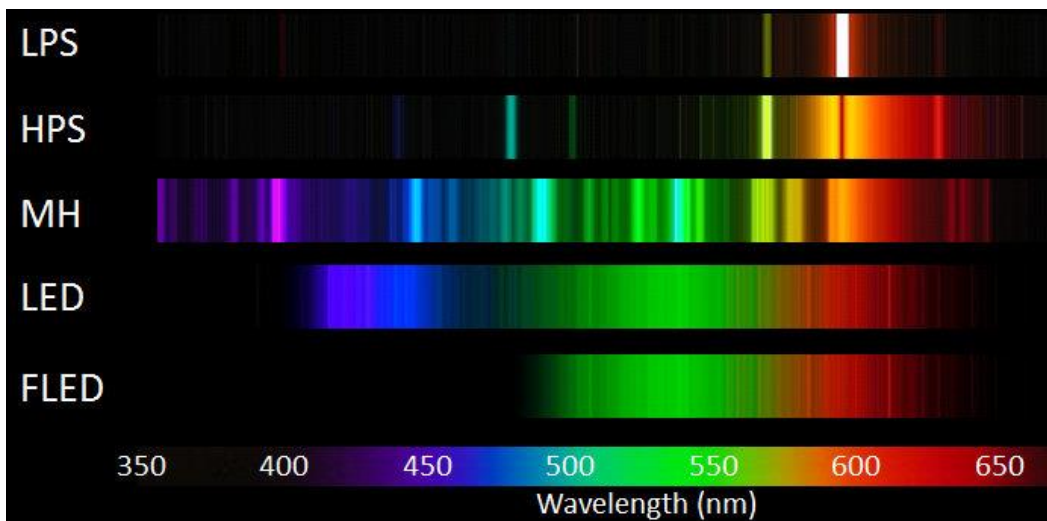


Figure 1. Representative lighting spectra. At present, Flagstaff is a mix of LPS and HPS, as over 50% of the city's street lights have been replaced by LPS since adoption of the 1989 ordinance. Metal halide (MH), LED, and FLED all result in dramatically increased sky glow relative to LPS or even HPS. (*Figure of spectral distributions prepared by Jeffrey Hall, Lowell Observatory*)

Challenges and opportunities presented by this RFP

At issue are the relative efficiencies of the lamps. NBALED is less efficient, at present, than FLED or white LED, making it less cost effective for citywide implementation. At the same time, it is the only LED option that preserves the current level of sky glow above the city. As an example scenario, if the City were to convert all its 180-watt LPS street lighting to NBALED and all of its HPS to FLED550, sky glow would be roughly conserved – but this solution would at present be extremely expensive.

We seek to identify how the City can affect a solution to this challenge. At the same time, we identify it as an opportunity for Flagstaff to demonstrate to other municipalities an innovative lighting solution for dark-sky preservation with LED technology. This entails:

- A cost effective solution to long-term street lighting needs that achieves municipal objectives for safety and cost effectiveness and astronomical objectives for maintaining dark skies.
- Innovation that advances the industry or best practices for technology transfer that advances the purpose of preserving dark skies.

PARAMETERS FOR PROPOSERS

Available funds

The Flagstaff Metropolitan Planning Organization has secured FHWA Surface Transportation Program funding to (1) conduct innovative research and monitoring, and (2) purchase new lighting technology, within the municipal region of the City of Flagstaff. This contract is subject to all federal compliance requirements set forth in 2CFR200, as administered through Arizona Department of Transportation.

The City will commit the following to the street lighting research collaborative:

- \$100,000 toward monitoring and research.*

- \$200,000 toward the purchase of light fixtures.*
 - It is the intent of the City to seek a phased approach to evaluating light fixture technologies by conducting small scale evaluations first to potentially eliminate some choices prior to purchases for the larger scale evaluations.
 - \$11,000 of in-kind labor for installation of lighting technology (in-kind).*
- (*The City's indirect cost allocation plan will be charged against all federal grant funding.)

General guidelines

- Proposals must support widespread applicability for the City's entire lighting inventory.
- Proposals must provide a clear plan and timeline for LPS to LED transition that maintains the City's dark-sky quality as new technology is implemented.
- Baseline data must be established across a range of measures of effectiveness.
- Proposals for modeling will not be accepted in the place of field testing, but existing evaluation or estimation software may be used for preliminary analysis during test designs and post-test estimates for city-wide impacts of new lighting recommendations.

The City is open to several ideas, including, but not limited to:

- Prototype – collaboration with a manufacturer to identify paths toward development of a cost-effective, narrow band LED replacement for a 180 Watt LPS fixture as the highest priority.
- Evaluation of selected corridors in the City for testing of one or multiple light sources including adaptive (i.e., time-of-day) technologies.
- Proof of concept: Using available models to predict light levels on the streets and changes in sky glow and under different scenarios employing varying amounts of lumens emitted by different lamps and fixture arrangements.

Measures of Effectiveness (MOE)

The City seeks cost-effective replacement technologies that (1) maintain or approximate current lighting levels and (2) do not adversely impact the City's dark-sky natural resource or the missions of the Lowell Observatory and the U.S. Naval Observatory. In consideration of cost effectiveness, the City seeks to utilize existing light pole infrastructure. Measures of effectiveness may include:

- Light uniformity
- (1) Brightness and (2) spectrum analysis from several perspectives, including:
 - on the street
 - at the observatories
 - general sky brightness
 - identification of ambient light levels (i.e., absence of streetlights)
- Color rendition
- Wind loading (Effective Projected Area)

- Public commentary on lighting levels and color rendition
- Life Cycle Costs including, but not limited to, initial capital expenses, energy use, and maintenance

INSTRUCTIONS

INSTRUCTIONS IN GENERAL

DUE DILIGENCE: It is your responsibility to examine the entire Solicitation prior to completing your offer, including the form of contract, City of Flagstaff Standard Terms and Conditions and Special Terms and Conditions.

INSPECTION OF WORK SITE: Before submitting an offer, you are required to inspect any work sites referenced in the Solicitation and notify the Buyer if you believe the work sites or conditions do not match the description found in the Solicitation or are unsafe.

PRE-OFFER MEETING: If a Pre-Offer Meeting is scheduled, you are strongly encouraged to attend. If scheduled, the date and time of this meeting will be indicated on the cover page of the Solicitation. The purpose of this meeting shall be to clarify the Solicitation in order to prevent any misunderstandings. Any questions, apparent omission or discrepancy should be presented to the City at this time. The City shall then determine the appropriate action necessary, if any, and issue a written amendment to the Solicitation. Oral statements or instructions shall not constitute an amendment to this Solicitation.

DISABILITIES: A person with a disability may request a reasonable accommodation in the Solicitation process by contacting the Buyer as early as possible to allow time to arrange the accommodation.

SUBMITTAL OF OFFER: Clearly label your offer as follows:

Attention Buyer: Candace Schroeder, CPPB
SEALED OFFER: Solicitation No. 2015-69 FMPO-Street Lighting for
Enhancing Dark Skies, (SLEDs)
Closing Date and Time: Wednesday, July 15th, 3:00 PM
City of Flagstaff, Management Services-Purchasing Division
211 West Aspen Avenue
Flagstaff, AZ 86001

on the outside of the sealed envelope. Submit **four (4) original hard copy and an electronic version in Adobe Acrobat ® (PDF) on either a compact disc or disc drive** of your offer in the sealed envelope (or box if needed) prior to the Closing Date and Time specified on the first page of the Solicitation. Submit your offer by mail or hand delivery to the address as labeled. Offers submitted by facsimile, email, telegraph or mailgram will not be considered.

COST OF OFFER: You are responsible for all costs related to preparation and submittal of an offer. The City will not reimburse any such costs.

LATE OFFERS: Late offers shall not be accepted. The City will return any late offers.

WITHDRAWAL OF OFFERS: You may withdraw an offer before the Closing Date and Time. A withdrawal must be signed by the vendor's authorized representative and submitted to the Buyer by hand delivery or mail.

OFFER ACCEPTANCE PERIOD: An offer made in response to this Solicitation shall be valid and irrevocable for ninety (90) days after the Closing Date and Time.

QUESTIONS: If you have any questions about this Solicitation, contact the Buyer. **The City will only respond to questions at least five (5) calendar days before the Closing Date and Time.** Questions should be submitted in writing. The Buyer may require you to submit any question in writing. Any question shall refer to the Solicitation number, page and paragraph number in question. The City **will not** be responsible if you adjust your offer based on any verbal statements made by employees or officers of the City, particularly if such statements conflict with the Solicitation. You may request the Buyer to issue an addendum to the Solicitation.

ADDENDA: The City will issue any interpretation or correction of the Solicitation only by written addendum and a copy of each addendum will be mailed, faxed or delivered only to those vendors who have returned an Acknowledgment of Receipt (form). Submit this form immediately. Addenda will also be posted on the City website.

RETURN OF SIGNED ADDENDA: You are required to sign and return each Addendum along with your offer. Failure to return a signed copy of each Addendum shall result in rejection of the offer.

IMPROPER CONTACT WITH CITY EMPLOYEES: All vendors submitting an offer (including the firm's employees, representatives, agents, lobbyists, attorneys, and subcontractors) will refrain from direct or indirect contact for the purpose of influencing or creating bias in the evaluation/selection process with any person who may play a part in the evaluation/selection process. This includes but is not limited to the evaluation committee, City Council Members, City Manager, Assistant City Manager(s), Deputy City Manager(s), Department Directors or other staff ("City Staff"). This policy is intended to create a level playing field for all potential firms, assure that contract decisions are made in public, and to protect the integrity of the selection process. Vendor is responsible for bringing all questions and concerns to the Buyer identified on Page One of this document. If the Buyer is unresponsive, the vendor may contact the City Manager. A vendor may be disqualified if the vendor: (a) contacts a quorum of the Council or contributes to an open meeting law violation; (b) offers political support or gratuities in exchange for approval or support of vendor's offer; (c) obtains information from City Staff not available to other vendors which may result in an unfair advantage in the competitive procurement process and fails to notify Buyer of this fact within 48 hours thereafter; or (d) engages in any other egregious conduct.

SAMPLES: If you are requested to provide sample materials to the City, all samples submitted shall become the property of the City for testing purposes and/or future comparison at no charge to City. Any sample not destroyed by testing or retained for future comparison will be returned to you. (You may be required to pick up the sample from the City).

PROCUREMENT PROCESS: The City's procurement process is described in the Procurement Code Manual, which can be accessed at <http://www.flagstaff.az.gov/index.aspx?nid=2991>. You are not required, but may review this Manual. The Solicitation is intended to provide all relevant information related to the procurement so that you may submit an offer. In the event of any conflict, the procedure outlined in this Solicitation will be followed or the conflict will be resolved by an Addendum.

CONTRACT WITH CITY

FORM OF CONTRACT: The City's proposed form of contract is included as part of this RFP for your review (**Attachment A**). The final form of contract will be conformed to match this Solicitation prior to Contract award.

INSURANCE: The City's insurance requirements can be accessed at <http://www.flagstaff.az.gov/index.aspx?nid=3054>. The insurance requirements are an explicit part of the Solicitation and any resulting contract with the City. Please see the attached **Exhibit C**.

STANDARD TERMS AND CONDITIONS: The City of Flagstaff Standard Terms and Conditions can be accessed at <http://www.flagstaff.az.gov/index.aspx?NID=3052> and are an explicit part of the Solicitation and any resulting contract with the City, unless otherwise specified in the Solicitation.

SPECIAL TERMS AND CONDITIONS: The City of Flagstaff Special Terms and Conditions (attached if applies) are an explicit part of the Solicitation and any resulting contract with the City.

EXCEPTIONS: You may request changes to the form of contract, insurance or any terms and conditions as part of your offer. (Use the Exceptions form)

CHANGES TO CONTRACT AFTER CONTRACT AWARD: Requests to change the contract after contract award, including but not limited to changes to insurance may be rejected by the City. The contract shall not be modified within the first year after contract award where: (a) an amendment may result in a competitive advantage that was not made available to other vendors; (b) requests for changes may delay commencement of performance.

FINANCIAL AND TAX CONSIDERATIONS FOR OFFER

QUANTITIES: Unless the Solicitation states otherwise (in the Solicitation Description or Special Terms and Conditions), the Contract will be non-exclusive, and the City makes no guarantees as to the quantities of materials or services to be purchased from a vendor.

PARTIAL AWARD: The City reserves the right to make multiple awards or to award by individual line item, by group of line items, or as a total, whichever is deemed most advantageous to the City.

ALL CHARGES: The offer should separately list all applicable fees, charges, and taxes. The failure to include such information may cause the City to consider the offer as non-responsive or non-responsible.

UNIT PRICES: Please check all math prior to submittal of your offer. If the offer unit prices do not correspond with the multiplied subtotal or total, the unit price shall prevail unless there is a blatant clerical error in the unit price.

PAYMENT: The City's standard form of contract provides that payment will be made within 30 days following receipt and acceptance of material/ service and a correct invoice.

DISCOUNTED PAYMENT: You may offer discounted pricing if the City pays in less than 30 days. If you offer discounted pricing, the payment discount period shall be computed from the date the City receives the material/service or correct invoice, whichever is later, to the date the City's warrant is mailed. Unless freight and other charges are itemized, any discount provided shall be taken on full amount of invoice. Payment discounts given for payment within ten (10) calendar days or more after City's receipt of the materials/service and correct invoice shall be deducted from the offer price when evaluating the offer. However, the City shall be entitled to take advantage of any payment discount offered by the offer provided payment is made within the discount period.

TRANSACTION PRIVILEGE (SALES)/USE TAX: State and local transaction privilege or use tax, as required, shall be indicated as a separate item on the offer. The State of Arizona and City of Flagstaff both impose a transaction privilege tax and use tax. Information concerning current tax rates can be found on the Arizona Department of Revenue website, www.azdor.gov. The City will not pay any taxes on invoices received unless an Arizona Transaction Privilege/Use Tax License Number is listed in the offer. The City also requires submittal of a City Business License Number from any vendor operating any portion of its business from a building located within City limits. The City will figure applicable taxes to offers received from out of state vendors who do not list an Arizona Transaction Privilege/Use Tax License number for tabulation and total cost evaluation.

FEDERAL EXCISE TAXES: The City is exempt from Federal Excise Tax, including the Federal Transportation Tax.

DELIVERY CHARGES: Delivery charges are considered non-taxable and exist only when the total charges to the ultimate customer or consumer include, as separately charged to the ultimate customer, charges for delivery to the ultimate consumer, whether the place of delivery is within or without the City, and when the taxpayer's books and records show the separate delivery charges. **Delivery charges if separately stated are considered to be non taxable.**

FREIGHT CHARGES: Freight charges for delivery from place of production or the manufacturer to the Proposer either directly or through a chain of wholesalers or jobbers or other middlemen are deemed "freight-in" and are not considered delivery. **Freight-in charges are taxable.**

EVALUATION OF OFFER AND CONTRACT AWARD

PROPOSAL MOST ADVANTAGEOUS TO THE CITY: The City will award a contract to a responsible and responsive vendor whose offer is the most satisfactory and advantageous to the City based on the Evaluation Criteria set forth in the Solicitation. Notwithstanding, any other provision of the RFP, the City reserves the right to waive any immaterial defect or informality; or reject any or all proposals or portions thereof; or reissue the RFP. A response to a RFP is an offer to contract with the City based upon the terms, conditions, and specifications contained in the City's RFP. Proposals do not become contracts unless and until they are formally executed as a separate contract document by the City (**See Attachment A – Sample Contract**).

EVALUATION CRITERIA: The following evaluation criteria will be used by the City's selection committee comprised of FMPO, City of Flagstaff, and representatives from the local observatories to score proposals based on the following:

The following evaluation criteria will be used for selection of a vendor.

RELATIVE IMPORTANCE

EVALUATION CRITERIA

PERCENTAGE

- | | |
|---------------------------|-----------|
| • Experience of the Team: | 20 points |
| • Research Approach | 40 points |

- Creativity
- Effectiveness of MOEs
- Cost effectiveness of proposed work 15 points
- Residual Value to the City 15 points
- Transferability 10 points

TOTAL POINTS POSSIBLE **100**

EVALUATION PROCESS: The City of Flagstaff's evaluation committee will review the initial offers and score them according to the Evaluation Criteria. To evaluate these outcomes, the City will evaluate research collaboration proposals based on:

- Experience and qualifications of the research team.
- Identification of the best path forward to finding and implementing a resolution to lighting issues. The manner in which MOEs are identified and presented will be considered here.
- Cost effectiveness, and for teams including universities, clear identification of indirect or administrative overhead for grant or project management.
- Potential for residual value to the City – the degree to which the proposed research project may leave in place light fixtures and other material for use by the City.
- Potential for transferability – the degree to which the project can be applied and scaled to other communities, establishing Flagstaff as a precedent for dark-sky applications of LED technology.

The committee will then:

- a. Engage in discussions with highest scoring vendor. If the parties are unable to reach an agreement, the evaluation committee may engage in discussions with the second-highest scoring vendor.

Or

- b. Engage in discussions with the highest scoring vendors ("short list"). Following such discussions, the City may request such vendors to make "Best and Final" offers.

PURPOSE OF DISCUSSIONS: The purpose of discussions with a vendor (pursuant to Section 11.9 of the Procurement Code Manual) shall be to:

- a. Determine in greater detail such vendor's qualifications;
- b. Explore with the vendor the scope and nature of the project, the vendor's proposed presented approach, the relative utility of alternate methods of approach and method of performance;

- c. Determine that the vendor will make available the necessary personnel and facilities to perform within the required time;
- d. Agree upon compensation which is fair and reasonable, taking into account the estimated value of the required services/equipment, the scope and complexity of proposed project and nature of such services/equipment.

In conducting discussions, there shall be no disclosure of any information derived from offers submitted by competing vendors.

REVISIONS TO OFFERS: If the City calls for "best and final" offers, those vendors will be accorded fair and equal treatment with respect to any opportunity for discussion and revision of offers prior to contract award.

FINANCIAL STATUS: If requested by the City following the Closing Date and Time, you must provide a current audited financial statement, a current audited financial report, or a copy of a current federal income tax return. Failure or refusal to provide this information within five (5) business days after communication of the request by the City shall be sufficient grounds for the City to reject an offer, and/or to declare the offer as non-responsive or non-responsible.

REQUESTS FOR ADDITIONAL INFORMATION: After the Closing Date and Time, the City may request you to provide additional information related to your offer. Failure to provide this information within five (5) business days after communication of the request by the City will be grounds for the City to reject an offer, and/or to declare the offer as non-responsive or non-responsible.

RESERVATION OF RIGHTS: The City reserves the right to reject any and all offers, or any part thereof. The City reserves the right to accept any offer in whole or in part, or any line item, and to award a contract for purchase of the same. The City reserves the right to waive any clerical error or nonmaterial defect in the offer when it is deemed to be in the City's best interest. The City reserves the right to cancel or reissue a Solicitation.

NOTICE OF PROPOSED CONTRACT AWARD OR RECOMMENDATION: All vendors will receive an email notifying them of the City's proposed contract award or recommendation to reject all offers. This notice will be posted as part of the agenda for the regular meeting of the City Council, on the City website. The agenda is typically posted at least one (1) week prior to the Council Meeting.

PUBLIC RECORDS: Offers received by the City are available for public inspection after a contract has been awarded, subject to any confidentiality restrictions.

PROTESTS: If you wish to protest the Solicitation, a protest shall be in writing and shall be personally delivered or served upon the City Purchasing Director. A protest related to the Solicitation (such as specifications, requirements, or scope) shall be received by the City Purchasing Department before the Closing Date and Time. A protest of a proposed award or of an award shall be personally delivered or served upon the City Purchasing Director within ten (10) days after the protester knows or should have known the basis of the protest. A protest shall include:

- a. The name, address and telephone number of the protester;
- b. The signature of the protester or its representative;
- c. Identification of the solicitation or contract number;
- d. A detailed statement of the legal and factual grounds of the protest including copies of relevant documents; and
- e. The form of relief requested.

OFFER FORMAT

QUALITY OF OFFER: The City will evaluate the quality of the offer as evidence of your qualifications and competence. The offer should be: (1) complete, (2) thorough, (3) accurate, (4) comply with Solicitation instructions, (5) organized, and (6) concise.

PAGE LIMIT: The offer **shall not exceed a total of 20 pages**, except the Cover, Cover Letter, and City Forms will not be counted in the page limit. Any pages attached to the City Forms shall be counted toward the page limit. The City may reject an offer that exceeds the page limit as non-responsive.

NUMBER OF COPIES: Submit **FOUR (4) ORIGINAL HARD COPY AND AN ELECTRONIC VERSION IN ADOBE ACROBAT ® (PDF) ON EITHER A COMPACT DISC OR DISC DRIVE** of your offer. The original hard copy must be bound.

MATERIALS USED FOR OFFER: The offer must be submitted in packaging/packing materials that meet at least one of, and preferable all of the following criteria: (a) Made from 100% post-consumer recycled materials; (b) Non-toxic; (c) Bio-degradable; (d) Reusable; (e) Recyclable. The original hard copy should be printed on recycled paper (minimum 50% post-consumer waste) and printed double-sided.

OFFER FORMAT:

Cover:

The cover should contain the following:

- Solicitation Number
- Solicitation Name
- Closing Date and Time
- Company name (and logo if desired)
- Other information/graphics as desired

Tabbed Sections of Bound Proposal:

Cover Letter (1 page)

All proposals must follow the general guidelines and format outlined below exactly. Proposals that do not follow these criteria will be returned without review.

General guidelines

To ensure easy readability, proposals should use at least one-inch page margins and 12-point font of an easily legible font face. The content of Section 5.2.2 below, including all graphs, figures, and tables, may not exceed 20 pages.

Proposal contents

The proposal should present a plan to provide a comprehensive recommendation for a transition from legacy technology (LPS and HPS, and non-dark-sky-compliant lighting that may be in use in Flagstaff or other communities) to LED. The City of Flagstaff and Lowell

Observatory see this as an opportunity for proposers to devise an innovative solution to support municipal priorities while maintaining exemplary dark-sky practice and policy.

Title and Abstract

The first page of the proposal should provide a descriptive title and an abstract of no more than 300 words. The abstract should provide an effective summary statement of the problem addressed, identify the solution, and specify the objectives and methods of the proposed solution.

Project description

The project description must contain four sections in the order given below. These sections are designed to encourage a step-by-step evaluation of the evolution of an LED-based, dark-sky lighting solution in Flagstaff, and to create a roadmap for other communities that wish to embark on similar efforts. Proposers must source in the reference section all statements from the primary or secondary literature, case studies, and municipal codes and strategic plans.

Evaluation of lighting pole infrastructure in Flagstaff

As stated above, the City desires to maintain existing lighting pole infrastructure in the interest of cost effectiveness. Proposers should provide a plan and timeline for assessment of this infrastructure. The City will provide the selected team with its lighting pole inventory documentation for the purposes of this evaluation. Critical questions include

- Where mast arm overloading by 180 watt LPS fixtures is of critical urgency
- Where poles themselves require engineering or replacement

Evaluation of LPS lighting technology

Proposers must outline a plan to evaluate the state of low pressure sodium lighting in industry. This should include plans and a timeline to provide

- A review of LPS usage generally, showing usage trends and evolution of demand
- A projection for the future availability, cost, and efficiency of LPS lighting, to establish timescales on which LPS must be phased out in favor of LED

Evaluation of LED lighting options

The proposal must provide a plan for evaluation of LED lighting technology. Options that must be explored include but are not limited to:

- FLED (500 nm cutoff)
- PCALED (530 nm cutoff)
- FLED550 (550 nm cutoff)
- NBALED (20 nm band width at 590 nm)
- Other NBALED-analogous options (e.g., narrow band centered at 620-630 nm)

Parameters that must be evaluated are:

- Current efficiency
- Prospects and timescale for improvements in efficiency
- Cost implications to the City of implementation of the various options if it

- Replaces 180-watt LPS fixtures in critical engineering areas identified in section 5.2.2.1 above
 - Replaces all current 180-watt LPS fixtures citywide
 - Replaces additional HPS fixtures citywide
- Examination of hybrid solutions for LPS/HPS replacement is acceptable and welcomed

Plan for transition of lighting in Flagstaff from LPS/HPS to LED

Narrow band LED lighting preserves the viability and the missions of the local observatories. Proposers should describe a clear path to transitioning Flagstaff from LPS to dark-sky preserving LED. Elements of this plan should include, but are not limited to

- Maintenance of LPS through mechanical solutions (e.g., additional support of mast arms, removal of mast arms and attachment of fixtures directly to poles) while LED solutions are explored and implemented, and timescales for viability of such maintenance
- Temporary installation of broad-spectrum LED (e.g., FLED) in areas of critical urgency identified above while narrower band (PCALED, FLED550, NBALED, orange NBALED) options and improvements are explored
- Proposals for installation of the various types of LED options for public evaluation
- Timescale and limits of improvement in narrow band LED technology
- Plan for phased conversion of LPS and HPS streetlight fixtures to a mix of LED that maintains the dark sky standards in the city
- Projections for change in sky glow under the various scenarios presented

References cited

All references included in the Project Description should be assembled in an alphabetical list. Proposers may use a citation style of their choosing, but they should be consistent throughout the reference list.

Project personnel

Proposers should provide an explanation of the proposed personnel arrangements and the biographical data sheets for each of the main contributors to the project. The explanation should specify how many persons at what percentage of time and in what academic categories will be participating in the project. If the program is complex and involves people from multiple firms or institutions, the organization of the staff and the lines of responsibility must be made clear.

Budget and Budget Narrative

Proposers should present a budget including the following line items.

- Effort level and salary or hourly rate for all personnel involved in the project (FTE levels expected for exempt personnel, hours to be invested for non-exempt personnel).
- Total fringe benefits.
- Direct costs including but not limited to

- Travel and lodging
 - Computers, software, and software licenses
 - Equipment
 - Subcontracts and consultant fees
 - Supplies
 - Administrative costs
 - Indirect costs, accompanied by documentation of negotiated rate as appropriate.
 - A budget narrative of 1-2 pages should accompany the full budget.
- A. **Offer (form)** (attach signed Solicitation Addenda)
- B. **Vendor Questionnaire (form)** (attach copies of licenses)
- C. **References (form)**
- D. **Exceptions (form)** (attach information)
- E. **Confidential Materials (form)**
- F. **Cooperative Purchases (form)**
- G. **Disclosure (form); Declaration Related to Solvency (form); Declaration Related to Gratuities (form); Declaration of Non-Collusion (form)** (attach explanations)

All completed forms must be submitted with offer!

ACKNOWLEDGMENT OF RECEIPT AND REQUEST FOR ADDENDA (FORM)

**SOLICITATION FOR: FMPO-STREET LIGHTING FOR ENHANCING DARK SKIES,
(SLEDS)**

SOLICITATION NO.: 2015-69

CLOSING DATE AND TIME: Wednesday, July 15th, 3:00 PM

Please complete this form and return it to the City Buyer via e-mail at cschroeder@flagstaffaz.gov, facsimile at (928) 213-2209 or mail it to the Buyer at the address listed above to acknowledge your receipt of this Solicitation and **to receive notification of any addenda or responses to questions regarding this Solicitation.**

Company Name: _____

Name / Title of Contact: _____

Address: _____

Phone #: () _____ Fax #: () _____

E-Mail
Address: _____

Signature: _____ Date: _____

NO RESPONSE (FORM)

SOLICITATION FOR: FMPO-STREET LIGHTING FOR ENHANCING DARK SKIES, (SLEDs)

SOLICITATION NO.: 2015-69

CLOSING DATE AND TIME: Wednesday, July 15th, 3:00 PM

If you are not responding to this Solicitation, please complete and return this form to the Buyer at the address listed above, fax to (928) 213-2209 or email to cschroeder@flagstaffaz.gov.

Company Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Reason for NO OFFER:

- ☐ Do not provide the materials or services requested
- ☐ Unable to respond due to current staff availability and/or business conditions
- ☐ Insufficient time
- ☐ Unable to meet terms, conditions, specifications or requirements as described within the solicitation due to:

☐ Other: _____

This NO OFFER response is authorized by: _____

Signature

Title

- Please check one:
- ☐ Retain our company on the mailing list for future solicitations.
- ☐ Please remove our company from the mailing list.
- ☐ Please remove our company from this commodity or service only.

OFFER (FORM)

TO THE CITY OF FLAGSTAFF:

The undersigned hereby offers and agrees to furnish materials and/or services in compliance with the Solicitation, including Addenda, and as described in this offer made to the City.

Representative or Contact Person's Name: _____

Telephone: _____ Fax: _____

Offeror (Vendor): _____

Address: _____

City, State, Zip: _____

Signature of Person Authorized to Sign Offer Title

Printed Name Date

Attach: Addenda signed by vendor (if addenda were issued).

VENDOR QUESTIONNAIRE (FORM)

Vendor:

Company Name: _____

Doing Business As (if different than above): _____

Address: _____

City: _____ State: _____ Zip: _____ - _____

Phone: _____ Fax: _____

E-Mail Address: _____ Website: _____

Taxpayer Identification Number: _____

Mailing Address (if different than above):

Address: _____

City: _____ State: _____ Zip: _____ - _____

Vendor Contact for Questions about Offer:

Name: _____ Fax: _____

Phone: _____ E-Mail Address: _____

Transaction Privilege (Sales)Tax/Use Tax Information (check one):

_____ Vendor is located outside Arizona (The City will pay use tax directly to the AZ Dept of Revenue)

OR

_____ Vendor is located in Arizona (The vendor must invoice the applicable state and local tax to City, and remit taxes.)

Arizona Department of Revenue TPT License Number: _____
(Attach proof of registration)

Business License Information (check one):

_____ Vendor does not have a business location within the City of Flagstaff

OR

_____ Vendor has a business location (uses a building) within the City of Flagstaff

Flagstaff Business License Number:_____

Other Licenses (list any existing licenses you have required for work, e.g. Arizona Registrar of Contractor licenses, and attach copies):

Insurance (who will provide required coverages):

Insurance Company Name_____.

Contact & Phone Number_____

Subcontractors:

List any subcontractors to be utilized, if any.

REFERENCES (FORM)

REFERENCES. Please submit at least three (3) and no more than five (5) references for projects your company has performed in the last five (5) years demonstrating your experience with providing the services comparable to the Solicitation. The project description should include sufficient detail for the City to evaluate your experience. You should also include the name, title, and telephone number of both the current project owner and the project owner at time of work.

Firm/Government Agency Name:	
Contact Person:	Phone:
Title:	Fax:
Address:	E-Mail Address:
	Reason for Selecting as Reference:
Project Date, Size, Complexity, Scope and Duration:	

Firm/Government Agency Name:	
Contact Person:	Phone:
Title:	Fax:
Address:	E-Mail Address:
	Reason for Selecting as Reference:
Project Date, Size, Complexity, Scope and Duration:	

Firm/Government Agency Name:	
Contact Person:	Phone:
Title:	Fax:
Address:	E-Mail Address:
	Reason for Selecting as Reference:
Project Date, Size, Complexity, Scope and Duration:	

**CITY OF FLAGSTAFF PURCHASING DIVISION
211 WEST ASPEN AVE.
FLAGSTAFF, ARIZONA 86001**

**Solicitation No. 2015-69
BUYER: Candace Schroeder, CPPB
PH: (928) 213-2278 FX: (928) 213-2209**

Firm/Government Agency Name:	
Contact Person:	Phone:
Title:	Fax:
Address:	E-Mail Address:
	Reason for Selecting as Reference:
Project Date, Size, Complexity, Scope and Duration:	

Firm/Government Agency Name:	
Contact Person:	Phone:
Title:	Fax:
Address:	E-Mail Address:
	Reason for Selecting as Reference:
Project Date, Size, Complexity, Scope and Duration:	

EXCEPTIONS (FORM)

Notations. Any strikeouts, notes or modifications to the Solicitation documents shall be initialed in ink by the authorized person who signs the offer. If notations are made, they must be submitted with your offer and are considered Exceptions.

Exceptions: In addition to any notations on the Solicitation documents, please identify and list any exceptions to the Solicitation, by section/paragraph, on this Exceptions Form. The City reserves the right to reject, accept or further negotiate Exceptions. Exceptions may render the offer non-responsive.

Exceptions to Form of Contract: You may request changes to the form of contract (including any Standard or Special Terms and Conditions) on the Exceptions Form. You may also submit your own form of contract. The City will consider these in the same manner as any other exceptions.

You must indicate any and all exceptions taken to the requirements, specifications, and/or terms and conditions of this Solicitation, including the contract.

Exceptions (INITIAL ONE):

_____ No exceptions

_____ Exceptions taken (describe). Attach additional pages if needed.

CONFIDENTIAL MATERIALS (FORM)

If you believe part of your offer is confidential, mark the page(s) "CONFIDENTIAL" and isolate the pages as an attachment to this form. Also include an explanation why they are confidential.

Requests to deem the entire offer as confidential will not be considered.

If you want confidential information returned to you after contract award (and you are not selected for contract award), then note this below. You will be responsible for pick up.

Generally, information submitted in response to a Solicitation is subject to disclosure pursuant to the Arizona Public Records Law after contract award.

The information identified as confidential shall not be disclosed until the City makes a written determination whether the information may be treated as confidential. If the City determines it is necessary to disclose the information, the City will inform you in writing.

Confidential/Proprietary Materials (INITIAL ONE):

_____ No confidential/proprietary materials have been included with this offer

_____ Confidential/Proprietary materials are included in this offer. See attached.

COOPERATIVE PURCHASES (FORM)

The City of Flagstaff is a member of Flagstaff Alliance for the Second Century, along with the Coconino County Community College District, Northern Arizona University, Coconino County and Flagstaff Unified School District.

The City is also a member of S.A.V.E. (Strategic Alliance for Volume Expenditures), which consists of numerous municipalities, counties, universities, colleges, schools and other Arizona State agencies.

Cooperative purchasing arrangements such as the above are sanctioned by state law and allow a vendor to sell services and materials to any member of a cooperative group under the same pricing, terms and conditions of contract awarded to the vendor by any other member, following a competitive procurement process.

Is your company willing to offer the goods and services solicited under the terms and conditions of this solicitation to other members of the Flagstaff Alliance for the Second Century and S.A.V.E. under the same pricing, terms and conditions?

_____ Yes _____ No (INITIAL ONE)

If you answered No, that is acceptable. The City will not reject your offer or consider it to be non-responsive.

If you answered Yes, and a contract is approved, others may seek to do business with you under the same terms and conditions, subject to your approval.

DISCLOSURE (FORM)

Any offer must include this completed form. For any item checked YES, you must provide an explanation, including dates, company name(s), enforcing authority, court, agency, etc. Answering YES to one or more questions does not necessarily mean that you will be disqualified from this Solicitation. **FAILURE TO PROVIDE TRUE AND COMPLETE INFORMATION MAY RESULT IN DISQUALIFICATION FROM THIS SOLICITATION.**

Has your company or any affiliate* in the past 5 years: (i) had a permit revoked or suspended, (ii) been required to pay a fine, judgment or settlement of more than \$100,000, (iii) been convicted of a criminal offense (including a plea of guilty or *nolo contendere*), or (iv) been found in contempt of court, as a result of or in connection with any of the following:

1. Any offense indicating a lack of business integrity or honesty, including fraud, bribery, embezzlement, false claims, false statements, falsification or destruction of records, forgery, obstruction of justice, receiving stolen property, theft, price fixing, proposal rigging, restraint of trade or other antitrust law violation?
YES_____ NO_____
2. Violation of the terms of any public contract? YES_____ NO_____
3. Failure to pay any uncontested debt to any government agency? YES_____ NO_____
4. Violation of any law or regulation pertaining to the protection of public health or the environment? YES_____ NO_____

*An "affiliate" of your company means any person, company or other entity that, either directly or indirectly (for example, through stock ownership by family members), controls, is controlled by, or is under common control with, your company.

Has your company or any affiliate of your company in the past 5 years been named as a party in any lawsuit related to performance of a contract (you do not need to list subcontractor lien claims which have been fully paid/satisfied)?

YES_____ NO_____

If yes, provide the case name and number, brief description, and disposition or current status.

Has your company or any affiliate of your company in the past 5 years been debarred, disqualified or suspended from submitting proposals on public contracts?

YES_____ NO_____

I hereby verify that the foregoing information, and any explanation attached are to the best of my knowledge, true and complete.

Signature

Title

Date

DECLARATION RELATED TO SOLVENCY (FORM)

Is your firm currently involved in an ongoing bankruptcy as a debtor, or in a reorganization, liquidation, or dissolution proceeding, or has a trustee or receiver been appointed over all or a substantial portion of the property of your firm under federal bankruptcy law or any state insolvency law?

_____ Yes _____ No (INITIAL ONE)

DECLARATION RELATED TO GRATUITIES (FORM)

I hereby verify and declare that, to the best of my knowledge, neither the vendor nor anyone associated with the vendor has given, offered to give, or intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the offer ("Gratuities").

Signature of Person Authorized to Sign Offer

Title

DECLARATION OF NON-COLLUSION (FORM)

I hereby verify and declare that:

The pricing for this offer has been arrived at independently and without consultation, communication or agreement with any other vendor who may submit an offer.

The pricing for this offer has not been disclosed to any other vendor who may submit an offer, and will not be, prior to the Closing Date and Time.

No attempt has been made or will be made to induce any firm or person to refrain from submitting an offer, or to submit an offer with higher pricing than this offer, or to submit an intentionally high or noncompetitive offer or other form of complementary offer.

This offer is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.

Offeror, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted or found liable for any act prohibited by state or federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract.

Signature of Person Authorized to Sign Offer

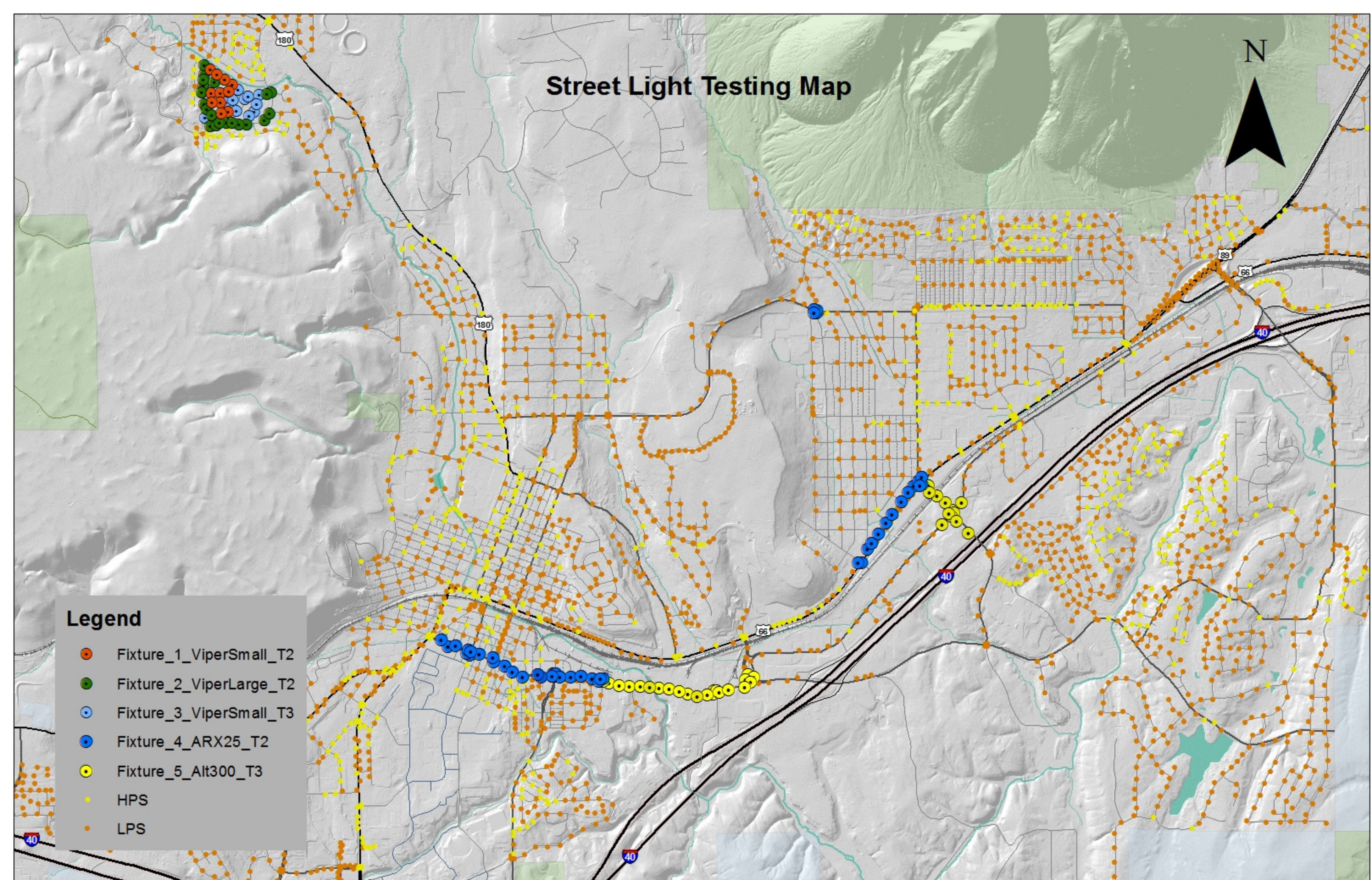
Title

Street Light Testing Map

N

Legend

- Fixture_1_ViperSmall_T2
- Fixture_2_ViperLarge_T2
- Fixture_3_ViperSmall_T3
- Fixture_4_ARX25_T2
- Fixture_5_Alt300_T3
- HPS
- LPS





TEAM FLAGSTAFF



SLEDS Project Update

- Introductions
- Background / History
- Completed Tasks
- In Progress
- Next Steps
- Questions / Discussion





TEAM FLAGSTAFF



Background / History

- Limited Field Testing – 89 North - 2013
- Dark Skies Conference – ‘Blinded by the Light’ – August 2014
- SLEDs
 - IGA with ADOT, June 2015
 - FMPO – Surface Transportation Program
 - FY 16 - \$100K - Consultant Contract – October 2015
 - FY 16 - \$200K – Test Fixtures – June 2017
 - FY 17 - \$41k – Consultant Contract Change Order – April 2017
 - Additional 18 months, to March 2018





TEAM FLAGSTAFF



Highlights of RFP – Challenges and Opportunities

“We seek to identify how the City can affect a solution to this challenge. At the same time, we identify it as an opportunity for Flagstaff to demonstrate to other municipalities an innovative lighting solution for dark-sky preservation with LED technology. This entails:

- A cost effective solution to long-term street lighting needs that achieves municipal objectives for safety and cost effectiveness and astronomical objectives for maintaining dark skies.
- Innovation that advances the industry or best practices for technology transfer that advances the purpose of preserving dark skies.”





TEAM FLAGSTAFF



Highlights of RFP – Project Direction

- Maintain or approximate current lighting levels
- Do not adversely impact the City's dark sky natural resource or the missions of the Lowell Observatory and the U.S. Naval Observatory
- Utilize existing light pole infrastructure

Measures of Effectiveness may include:

- Light Uniformity
- Brightness and Spectrum Analysis from several perspectives
- Color rendition
- Wind loading (Effective Projected Area)
- Public commentary on lighting levels and color rendition
- Life cycle costs including, but not limited to, initial capital expense, energy use, and maintenance



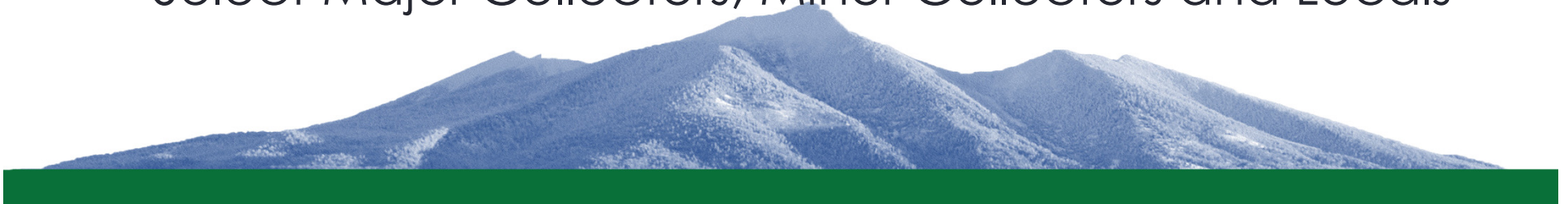


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Completed Tasks

- Assessment of viability of LPS
- Structural Analysis of Mast Arms
- Existing Condition Measurements
 - Cheshire Residential Test Area
 - Arterial and Major Collector Test Sections
- Selected Test Fixture Types
 - Arterials and select Major Collectors
 - Select Major Collectors, Minor Collectors and Locals





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Test Fixtures

- Arterial and select Major Collectors
 - Replacement for Low Pressure Sodium (15,000 lumens) and High Pressure Sodium (18,600 and 31,000 lumens)
 - Narrow Band Amber LED
 - 12,000 lumens @ 595 nm
 - On existing poles
 - Butler Avenue – Milton to Sawmill
 - Fourth Street – Route 66 to Industrial





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Test Fixtures

- Arterial and select Major Collectors
 - Replacement for Low Pressure Sodium (15,000 lumens) and High Pressure Sodium (18,600 and 31,000 lumens)
 - Hybrid LED – 80% NBALED, 20% 2700K Warm White (dimmable)
 - 9,000 total lumens
 - On existing poles
 - Butler Avenue –Sawmill to Ponderosa Parkway
 - Route 66 – TRAX project frontage
 - Cedar at West signalized intersection
 - 76 total test fixtures





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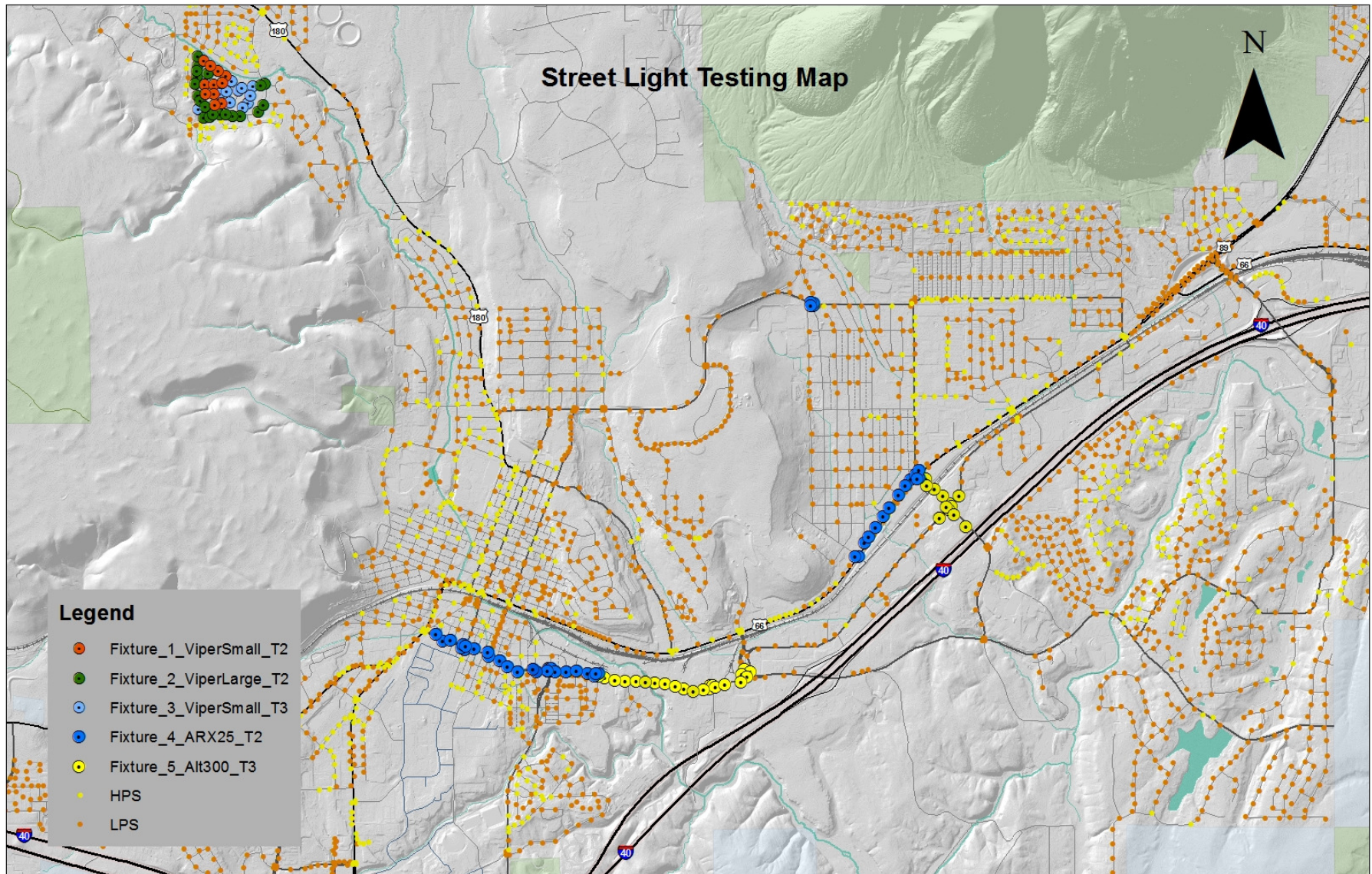
Test Fixtures

- Select Major Collectors, Minor Collectors and Local Streets
 - Replacement for Low Pressure Sodium (3,220 - 15,000 lumens)
and High Pressure Sodium (5,890 – 18,600 lumens)
 - Narrow Band Amber LED
 - 1500, 2500 lumens @ 595 nm
 - On existing poles
 - Cheshire Neighborhood
 - 42 total fixtures in the southern half of neighborhood



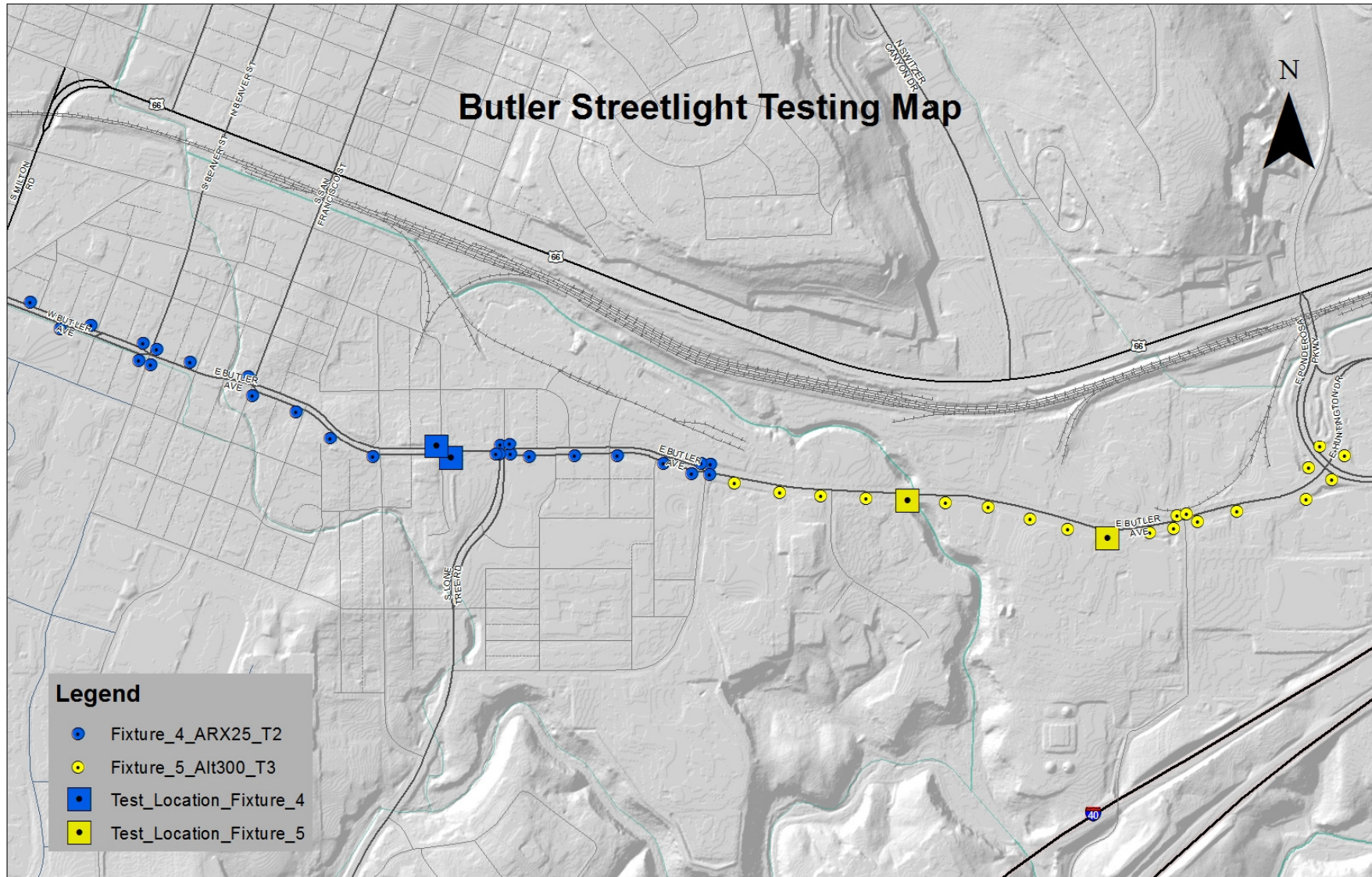


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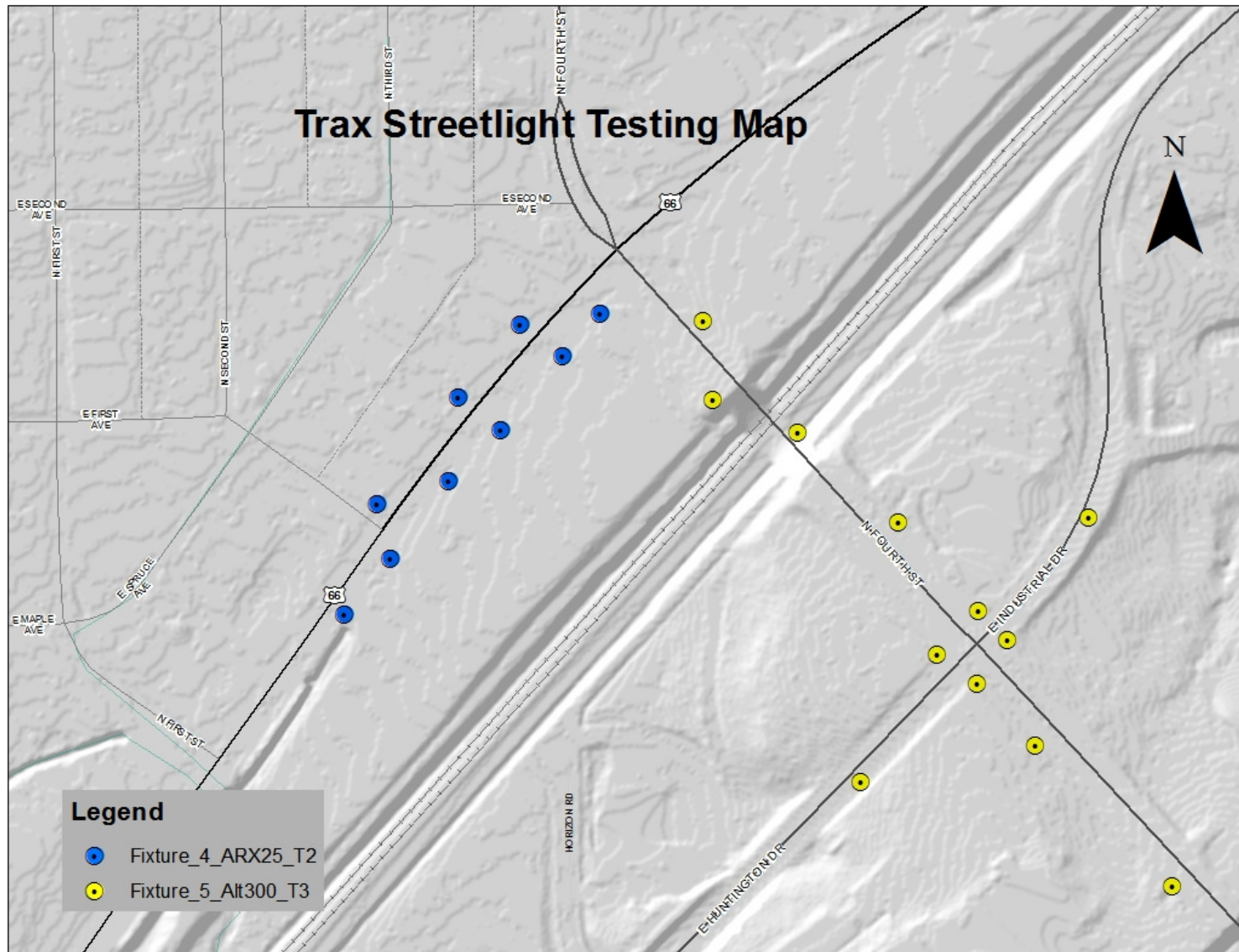


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In Progress Tasks

- Installation of Test Fixtures
- Measurement of Test Fixtures
- Public feedback on Test Fixtures
- SLEDs Team feedback on testing





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Final Steps after Testing

- Develop recommended standards
- Establish Citywide replacement scenarios
- Finalize SLEDs Project Report
- City Council Adoption of new Engineering Standards for Roadway Lighting
 - Fall 2018





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Questions?



CITY OF FLAGSTAFF

STAFF SUMMARY REPORT

To: The Honorable Mayor and Council
From: David Wessel, Metro Planning Org Manager
Co-Submitter: Caleb Blaschke
Date: 03/15/2018
Meeting Date: 03/27/2018



TITLE

Review of Recommendations from the Citizens' Transportation Tax Commission

STAFF RECOMMENDED ACTION:

Council Discussion. Staff seeks input and direction on the following

- Number of transportation-related ballot questions
- Guidance on overall or combined transportation tax-rate
- Guidance on the public outreach process leading up to the decision on the ballot language
- Technical information such as project details, tax rates, and financing to support the Council decision on ballot language

EXECUTIVE SUMMARY:

On July 5th, 2017, City Council adopted Ordinance 2017-25 establishing the Citizens' Transportation Tax Commission. The Council foresees the June 2020 expiration of the current transportation sales taxes and the need for funding to continuously improve the City's transportation network. Council established the Commission to "provide alternatives and recommendations" to address these needs. Council decisions regarding final ballot language should conclude at the end of June 2018.

The 15-member Commission concluded its work on March 5 and submits their recommendation to Council through the attached resolution, alternative packages of projects, and supporting maps. Commission Chairman, Nick Kraft, will present these to Council.

INFORMATION:

The Commission members appointed by Council, including the Transportation Commission representative, are:

Andreani, Lucinda	Lopez, Rick
Caldwell, Christina	Lowe, Gail
Davis, Robert	Remington, Meghan
DeBartolomeo, Ginny	Spinti, Mark
Fernandez, Heather	Tewksbury-Bloom, Sharon
Keene, Joanne	Welch, Jack
Kraft, Nick	Wellumson, Abigail
Leid, Julie	

The Commission met eight times starting in September 2017.
 Meeting 1: Kick-off, introductions, rules of order

Meeting 2: Existing conditions and need including presentations by staff experts on each mode.

Meeting 3: Future conditions including population and employment conditions and the Flagstaff Metropolitan Planning Organization's Regional Transportation Plan (RTP).

Meeting 4: Regional Plan policy overview, economic development priorities, trade-off implications and decision-making and presentations on future needs and priorities by staff experts in each mode. Polling on top 5 projects from each Commissioner.

Meeting 5: Funding and financing. Rough priorities.

Meeting 6: Initial prioritization.

Meeting 7: Secondary prioritization and resolution framework.

Meeting 8: Final prioritization and final framework.

Attendance was strong for all meetings and the Commissioners highly engaged. All meetings were advertised in the Daily Sun, in the Cityscape, and pushed on Facebook and Twitter. Time for public comment was provided at every meeting and several comments were received at one meeting. The comments from the Flagstaff Climate Action Council and the Flagstaff Sustainability Commission focused on air quality and climate, the benefits of non-motorized travel and mass transit, and the futility of building more road capacity.

Alan Maguire of the Maguire Company facilitated the meetings, David Wessel from the Flagstaff Metropolitan Planning Organization (FMPO) organized content, and Caleb Blaschke from the City Manager's office served as recording secretary. The Commission received a 2-page description of each of the top 30 projects from the RTP including a map of its location and cost estimates for those projects. The Commission was provided links to several documents like the RTP and were given copies of nearly every presentation. The effort was supported by City staff from Community Development, Public Works, and Management Services, the FMPO, and NAIPTA all of whom were called on frequently to address Commission questions and concerns. Thanks to Jason Cook from the City Manager's Office for managing agendas, Commission binders, and other logistics.

Attachments: [Resolution](#)
 [Packages](#)
 [Maps](#)
 [Sustainability Commission Comments](#)

Flagstaff

Citizens' Transportation Tax Commission

Whereas, the Flagstaff City Council created the Flagstaff Citizens' Transportation Tax Commission on July 5, 2017 by way of Ordinance 2017-25; and

Whereas, the Council appointed 15 Flagstaff residents to be members of the Commission and charged them with “*providing recommendations to Council regarding possible referral of a proposition to be considered at the November 2018 general election concerning possible renewal of a Transportation Tax*”; and

Whereas, the Statewide Highway and Street Funding has not been materially increased in over 30 years and as a consequence the monies the state collects and distributes through the Highway User Revenue Fund (HURF) continue to erode resulting in funding transportation shortfalls for local governments, including Flagstaff; and

Whereas, in 2000 the voters of Flagstaff approved three *Transportation Decision 2000* ballot question funding a series of bridge, street, and general traffic improvements with City transportation sales taxes totaling 0.426%; and

Whereas, the City has efficiently and effectively used the funding provided by *Transportation Decision 2000* to continuously improve the City's transportation system; and

Whereas, the *Transportation Decision 2000* 0.426% City transportation sales taxes approved by City Voters are due to expire in 2020; and

Whereas, a majority City residents in a recent surveys indicate that traffic congestion relief is important to them; and

Whereas, recent surveys also indicate widespread community interest in transit, pedestrian, and bicycle systems; and

Whereas, there are important state studies underway concerning Milton Road and Route 180 and these studies are not yet complete; and

Whereas, the Commission has reviewed, analyzed, and discussed the wide range of issues effecting the City's transportation system and has held numerous open, public meetings to explore these issues as well as the available funding options during which they:

Received public comment; and

Reviewed, analyzed, and discussed the existing conditions of the City's street, transit, pedestrian, and bicycle systems; and

Reviewed, analyzed, and discussed the anticipated future conditions of the City's street, transit, pedestrian, and bicycle systems; and

Reviewed and discussed the Flagstaff Metropolitan Planning Organization's *Blueprint 2040 Regional Transportation Plan*; and

Reviewed a wide range of proposed transportation projects and needs in the City; and

Reviewed and discussed plans and policies frequently used in transportation planning; and

Reviewed and discussed the funding and financing of City's transportation systems and projects; and

Reviewed, discussed, and initially prioritized a range of transportation needs within the City and possible transportation solutions; and

Discussed and prioritized specific alternative solutions to meet the transportation challenges confronting the City.

THEREFORE, the Flagstaff Citizens' Transportation Tax Commission does hereby recommend the following to the Flagstaff City Council:

*That the City Council consider referring to the Voters of Flagstaff continuing the City's dedicated transportation sales taxes through one of the following **Transportation Decision 2020** proposals:*

Proposal A -- Three ballot questions:

A continuation of the existing 0.426 % City sales tax for twenty years to fund major street improvements, pedestrian and bicycle improvements, and general transportation system improvements;

A 0.22 % sales tax for twenty years or a higher tax rate for a shorter period of time to fund the construction of a bridge connecting Route 66 and Lone Tree Road over the BNSF railroad; and

A 0.15 % sales tax for ten years to fund expanded transit service in the City and associated capital expenses.

Proposal B -- Two ballot questions:

A 0.65 % City sales tax for twenty years to fund the construction of a bridge connecting Route 66 and Lone Tree Road over the BNSF railroad, major street improvements, pedestrian and bicycle improvements, and general transportation system improvements; and

A 0.15 % sales tax for ten years to fund expanded transit service in the City and associated capital expenses.

FURTHERMORE, the Commission recognizes that congestion on Milton Road is a major issue facing the City of Flagstaff and that the ongoing studies and further analyses render a specific recommendation imprudent at this time. The Commission therefore suggests the City Council take up the issue of Milton Road congestion in a timely manner when such studies and analyses are complete.

Resolved by the Citizens' Transportation Tax Commission, by unanimous vote of those present, on March 5, 2018.

CITIZENS' TRANSPORTATION TAX COMMISSION 2018

PROJECT NAME	Proposal A			Proposal B	
	TRANSIT	LONE TREE BRIDGE	CONGESTION RELIEF	TRANSIT	CONGESTION RELIEF
Transit - Increase Frequency	\$ 33,900,000			\$ 33,900,000	
Transit - Capital	\$ 16,800,000			\$ 16,800,000	
Lone Tree Rail Road Bridge		\$ 72,392,000			\$ 72,392,000
Lone Tree Bridge Bond					
Lone Tree - Butler to Pine Knoll			\$ 13,468,000		\$ 13,468,000
Lone Tree - Pine Knoll to Powell			\$ 20,037,000		\$ 20,037,000
Pedestrian and Bicycle Improvements			\$ 29,000,000		\$ 29,000,000
W. Route 66 - Flag Ranch to Milton			\$ 10,800,000		\$ 10,800,000
Butler widening			\$ 7,840,000		\$ 7,840,000
Neighborhood plans (5 plans)			\$ 1,250,000		\$ 1,250,000
General Improvements & Partnering Opportunity			\$ 15,000,000		\$ 15,000,000
Existing program shortfall			\$ 2,000,000		\$ 2,000,000
Traffic Signal and Advanced Traffic Management			\$ 3,500,000		\$ 3,500,000
Street Lighting (Dark Skies)			\$ 8,000,000		\$ 8,000,000
4th Street Ext. 1 & 2 @ 40%			\$ 8,706,400		\$ 8,706,400
J W Powell Ext 1 & 2 @ 40%			\$ 9,466,400		\$ 9,466,400
TOTAL Base Project Cost Estimate	\$50,700,000	\$72,392,000	\$ 143,569,800	\$50,700,000	\$ 215,961,800
Inflation Estimate	\$5,070,000	\$7,239,200	\$ 14,356,980	\$5,070,000	\$ 21,596,180
TOTAL Cost with Inflation	\$55,770,000	\$79,631,200	\$ 157,926,780	\$55,770,000	\$ 237,557,980
Needed Tax Rate	0.150	0.220	0.426	0.150	0.650

Transit Frequency Plan



www.mountainline.az.gov

High frequency crosstown route, likely along Route 66 or Soliere Av. (shown)

Increased Frequency Network

- 15 Min Service or Better
- 15 - 20 Min Service or Better
- 30 Min Service or Better
- 60 Min Service or Better

- Increased frequency on most routes
- Longer spans (earlier in the morning and later at night)
- Evening service on Fridays and Saturdays
- New service to Woody Mountain Road
- Transportation Demand Management programs

Permanent Transit Network

Mountain Line has the strongest commitment to the highest level of service. This is where service exists today and will always be.

- Permanent Transit Network

- Capital infrastructure for improving efficiency, including transit signal priorities and bus lanes
- Stop infrastructure and right of way property within Woodlands Village, Milton, Downtown, 4th Street, and Mall Connection Center areas
- Downtown Connection Center expansion

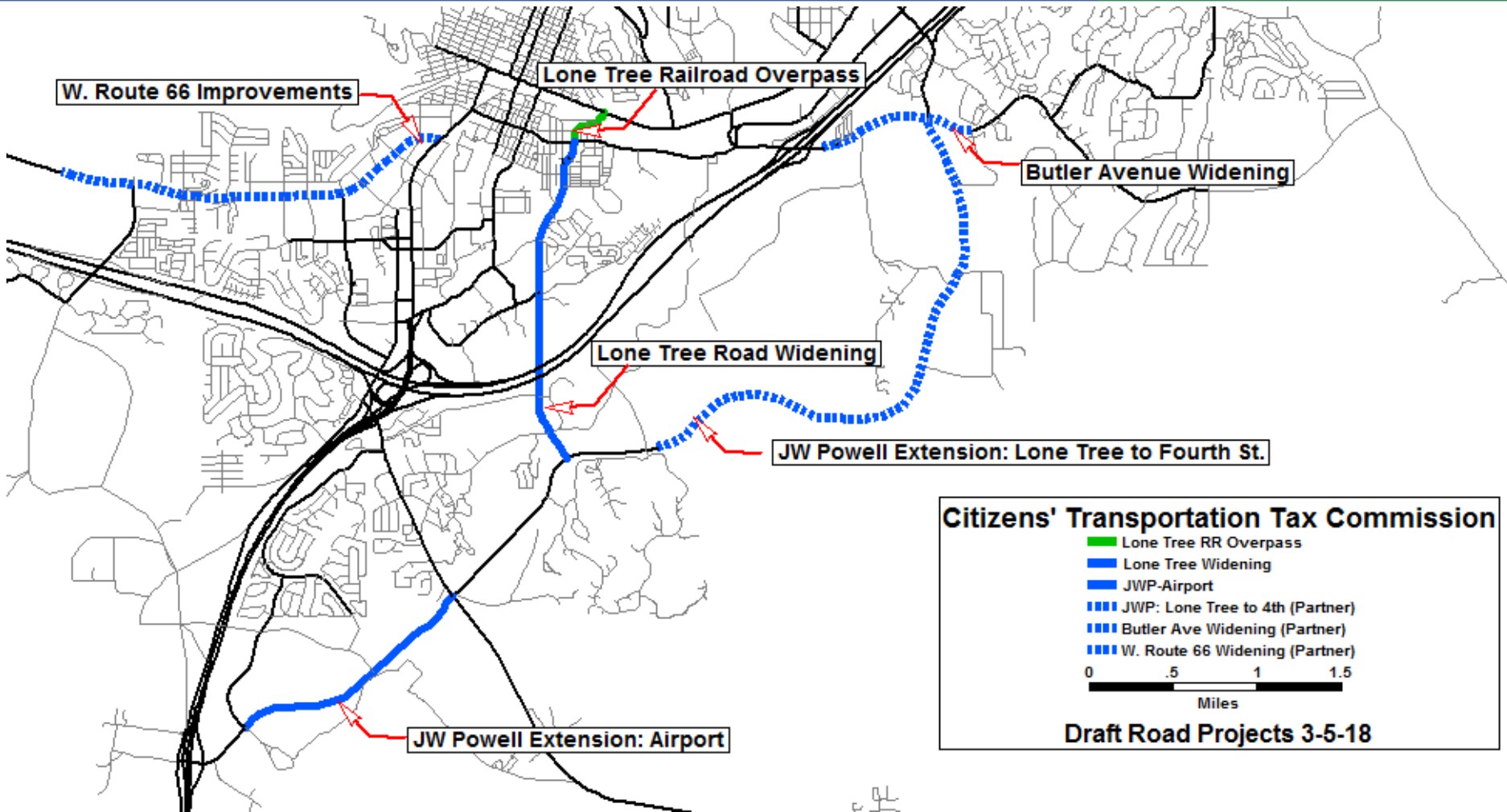
The Citizens' Transportation Tax Commission recommends a tax rate as a separate question to support operations and capital supporting about 50% of these mapped items.

Future service to Woody Mountain Road

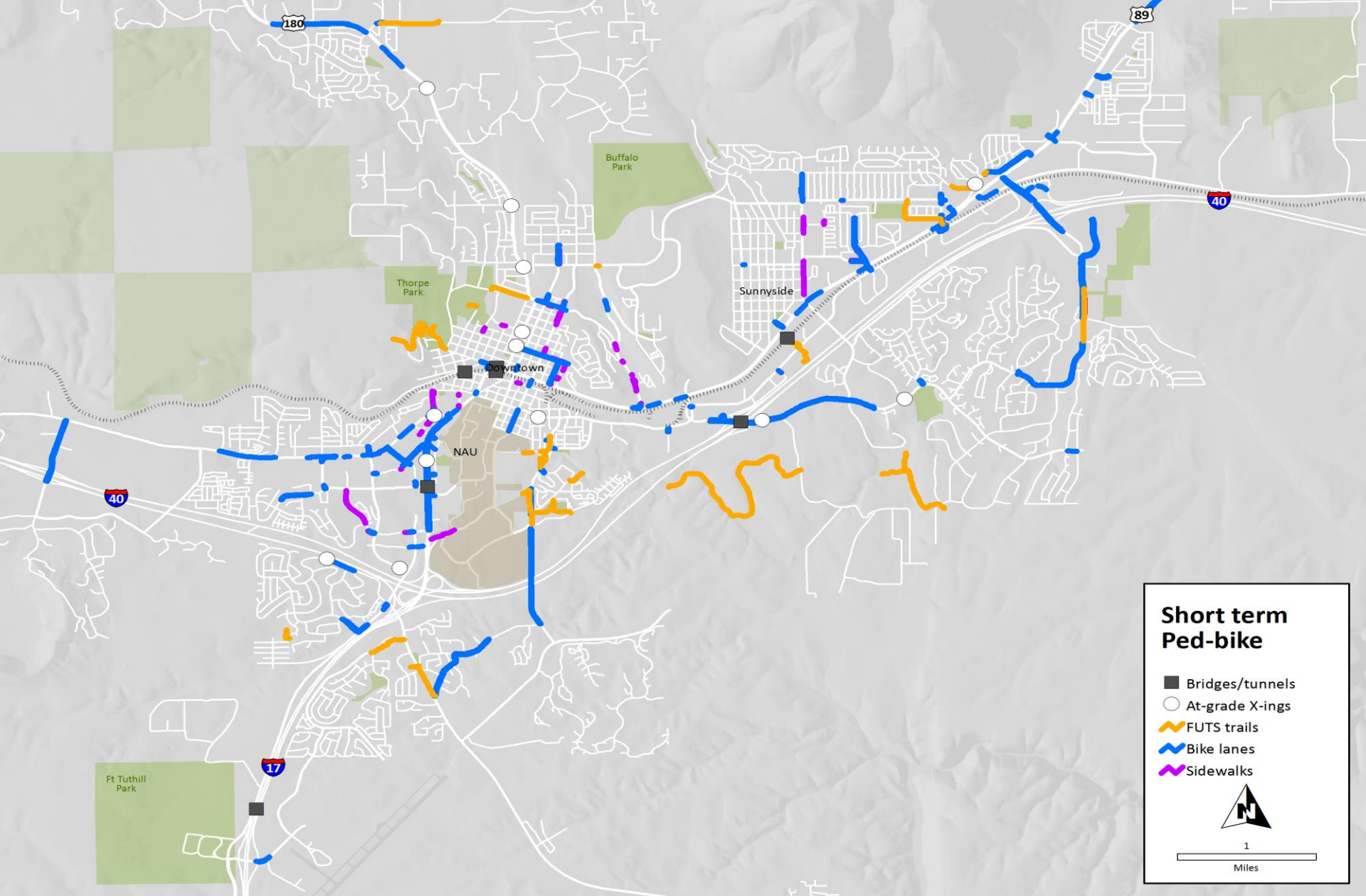
Future service to Flagstaff Pulliam Airport



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The Citizens' Transportation Tax Commission recommends a tax rate to support these road projects and transportation operations with the Lone Tree Railroad Overpass potentially as a separate ballot question.



The Citizens' Transportation Tax Commission recommends a tax rate to support these pedestrian and bicycle projects as part of a Congestion Relief program.



City of Flagstaff Sustainability Commission

February 5, 2018

Re: Transportation Tax Initiative

Dear Citizen's Transportation Tax Commission,

We appreciate your service to our community and thank you for allowing us to provide comments on your work. We strongly believe that addressing our transportation challenges represents a pressing sustainability priority for the City of Flagstaff. We are writing to convey our deep concerns about the current trajectory the transportation tax is headed and to provide recommendations on ways to best address transportation in the coming decades. Failing to do so, we believe, would have dramatic negative consequences for our community.

Our Chair, Brian Petersen, is an assistant professor at NAU who studies public planning and has extensive experience in sustainability, including transportation planning. Several of our Commissioners have attended your commission's meetings. We have also read the Blueprint 2040 document and are well versed on the Commission's scope of work. You all have received a suite of transportation projects that you are considering. However, this approach undermines finding transportation solution. Rather than taking a general approach, selecting projects for funding that sound good, we urge the Commission to take no action and recommend waiting an additional year to reconsider placing the tax on the ballot. Your Commission should demand an integrated transportation package that has specific projects designed to meet specific goals. Failing to do so will lead to a transportation package that widens and builds roads in a way that will ultimately lead to increased traffic, will not reduce congestion, and will undermine well-being in Flagstaff.

Overwhelming evidence exists that shows that cities that have taken a strategic, integrated approach to transportation have yielded positive benefits. The most obvious example is Portland, Oregon*, which has seen increased population but decreased congestion and miles driven. Many other examples also exist. These cities have taken steps that include *reducing* road miles, *narrowing* roadways, and prioritizing walking and biking infrastructure over single-occupancy vehicles. Doing so not only reduces emissions and congestion it also leads to more job creation, economic activity, walking and biking, which leads to increased health benefits, and overall leads to a more vibrant community. For those interested, we highly recommend the book *Walkable Cities*, written by a city planner Jeff Speck, which details evidence that supports these claims. For Flagstaff, a strategic approach includes a transportation element that compliments development, specifically housing. Flagstaff has development occurring across town and this transportation package does not adequately address those trends. Similarly, the projects that you all are considering have specific plans for road widening and road building. In contrast, the projects that involve walking and biking are vague and ill-

defined. Again, the evidence is clear: cities that prioritize walking and biking end up creating more economic activity, higher quality of life *and* also reduce traffic congestion.

We on the Sustainability Commission believe sustainability is much broader than just environmental outcomes. We believe it includes economic vitality, social justice, community and individual well-being. Moving forward with this tax plan as currently construed will undermine all of these attributes. Only through an integrated approach that engages housing density, economic vitality, walkability, and community planning can this tax effectively meet our collective needs, transportation and otherwise.

We are convinced that the right tax proposal and associated transportation projects could greatly benefit our community. The current set of projects and the haphazard selection process, unfortunately, will not lead to this outcome. We encourage you to recommend a new set of plans for consideration in 2019. Failing to do so will lead to spending millions of dollars on projects that will ultimately decrease sustainability and increase congestion.

Thank you again for accepting and considering our comments.

Sincerely,

City of Flagstaff Sustainability Commission

* Here are a few links to articles and reports that speak to our concerns.

Induced demand:

<https://transportist.org/2015/03/02/elements-of-access-induced-demand/>

City of Portland

<https://www.portlandoregon.gov/transportation/article/370479>

<https://www.portlandoregon.gov/transportation/article/564107>

<https://trimet.org/pdfs/publications/Livable-Portland.pdf>

Evidence that bike infrastructure creates jobs and well-being (Minnesota example)

<http://www.startribune.com/cycling-in-minnesota-creates-thousands-of-jobs-and-cuts-health-care-spending-state-report-concludes/417240963/>

Confessions of a recovering (road) engineer

<https://grist.org/article/2010-11-22-confessions-of-a-recovering-engineer/>