

## **WORK SESSION AGENDA**

**CITY COUNCIL WORK SESSION  
TUESDAY  
MAY 27, 2014**

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

- 1. Call to Order**
- 2. Pledge of Allegiance**
- 3. Roll Call**

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

MAYOR NABOURS  
VICE MAYOR EVANS  
COUNCILMEMBER BAROTZ  
COUNCILMEMBER BREWSTER

COUNCILMEMBER ORAVITS  
COUNCILMEMBER OVERTON  
COUNCILMEMBER WOODSON

- 4. Preliminary Review of Draft Agenda for the June 3, 2014, City Council Meeting.\***

*\* Public comment on draft agenda items may be taken under "Review of Draft Agenda Items" later in the meeting, at the discretion of the Mayor. Citizens wishing to speak on agenda items not specifically called out by the City Council for discussion under the second Review section may submit a speaker card for their items of interest to the recording clerk.*

- 5. 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.*

- 6. Switzer Canyon/Turquoise Intersection Improvements**
- 7. Discussion on Continued Funding Towards the Western Navajo Pipeline (WNP) & the North Central Arizona Water Supply Feasibility Study (NCAWSFS)**
- 8. Review of Draft Agenda Items for the June 3, 2014, City Council Meeting.\***

*\* Public comment on draft agenda items will be taken at this time, at the discretion of the Mayor.*

- 9. Public Participation**

**10. Informational Items To/From Mayor, Council, and City Manager.**

**11. 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 \_\_\_\_\_, 2014.

\_\_\_\_\_  
Elizabeth A. Burke, MMC, City Clerk

# Memorandum

6.

## CITY OF FLAGSTAFF



**To:** The Honorable Mayor and Council  
**From:** Randy Whitaker, Project Manager  
**Date:** 05/21/2014  
**Meeting Date:** 05/27/2014

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### TITLE:

**Switzer Canyon/Turquoise Intersection Improvements**

### DESIRED OUTCOME:

To move forward with the design and ultimate construction of a roundabout at the Switzer Canyon/Turquoise Intersection.

### INFORMATION:

This project is, in part, funded by a Highway Safety Improvement Program (HSIP) Grant through the Flagstaff Metropolitan Planning Organization (FMPO) under the Transportation Improvement Program (TIP). As part of the grant process a project assessment was completed that compared three alternatives at the Switzer/Turquoise intersection.

- Stop Signs with intersections improvements
- Traffic Signal with intersections improvements
- Roundabout

The preferred safety measure is to place a roundabout at this location. Factors that were considered in choosing a roundabout are:

- Improved Traffic Flow
- Highest Benefit/Cost Ratio
- Community Acceptance
- Other benefits:
  - Low speed environment
  - Reduction in fuel use and emissions
  - No signal equipment to install and maintain
  - Quieter neighborhood

This Work Session presentation is to determine Council support of a roundabout at this location. Staff wouldn't normally request this level of Council input on the technical solution for a problem intersection. However, staff understands the community sensitivity to roundabout installation at this time and would like to ensure Council is comfortable with Transportation Engineering's preferred alternative of a roundabout.

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**Attachments:** Switzer/Turquoise Power Point

# Switzer Canyon/Turquoise Intersection Safety Improvements

COMMUNITY DEVELOPMENT

DIVISION

MAY 27, 2014

# Aerial



# Original JPA/IGA

- 2011, Allocated \$230,000 for the preliminary engineering (Project Assessment) and Design of the Switzer Canyon/Turquoise and Lone Tree/ Zuni intersections.

# Project Assessment

## Systematic versus Spot Specific:

Spot Specific: Spot specific projects require an engineering analysis, prioritization process, supporting crash data, benefit-cost tabulation of at least 1.0 and proven safety countermeasures that address the identified safety needs.

## Compared 3 Alternatives:

- Stop Signs with intersections improvements
- Traffic Signal with intersections improvements
- Roundabout

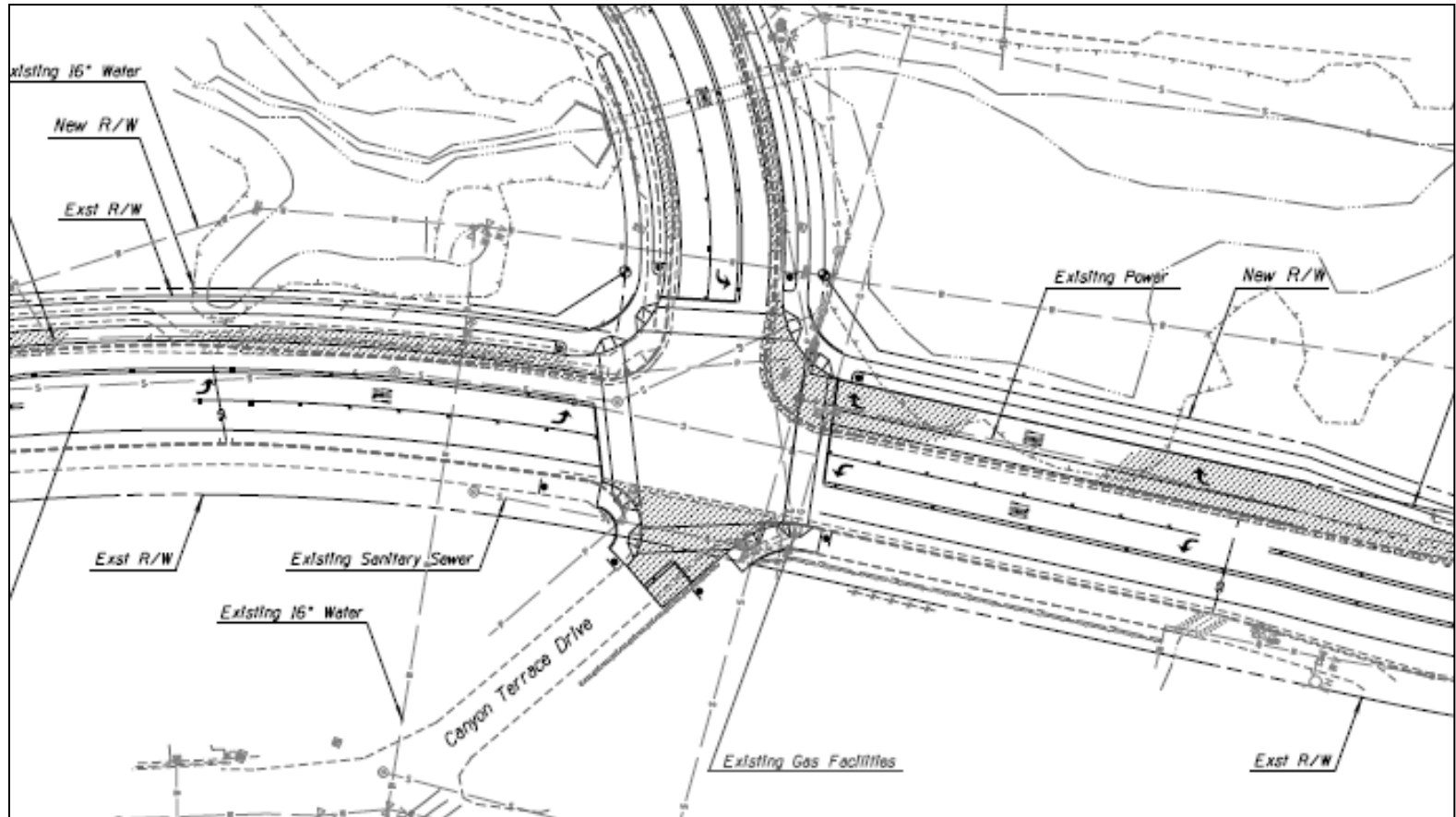


# Existing Right-of-Way

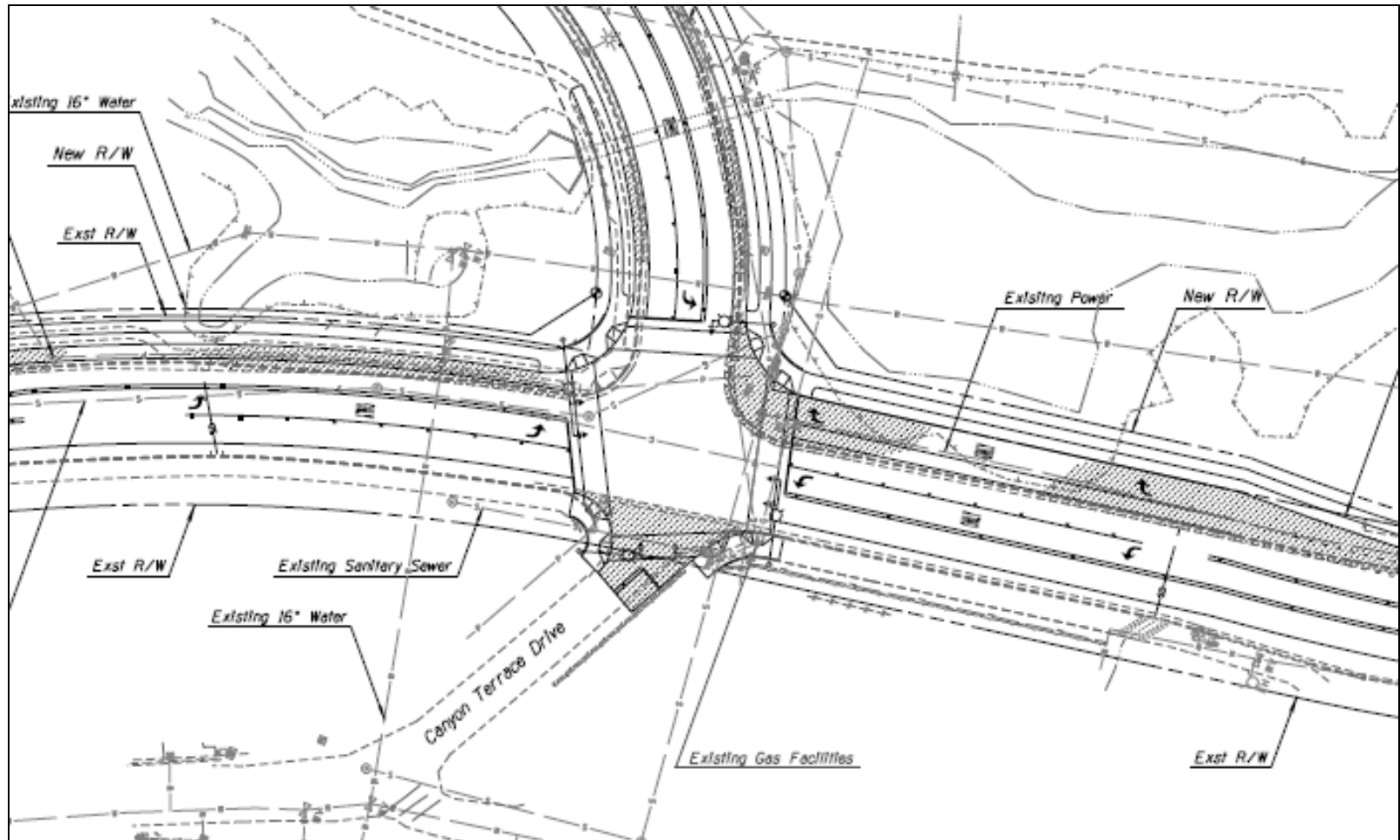




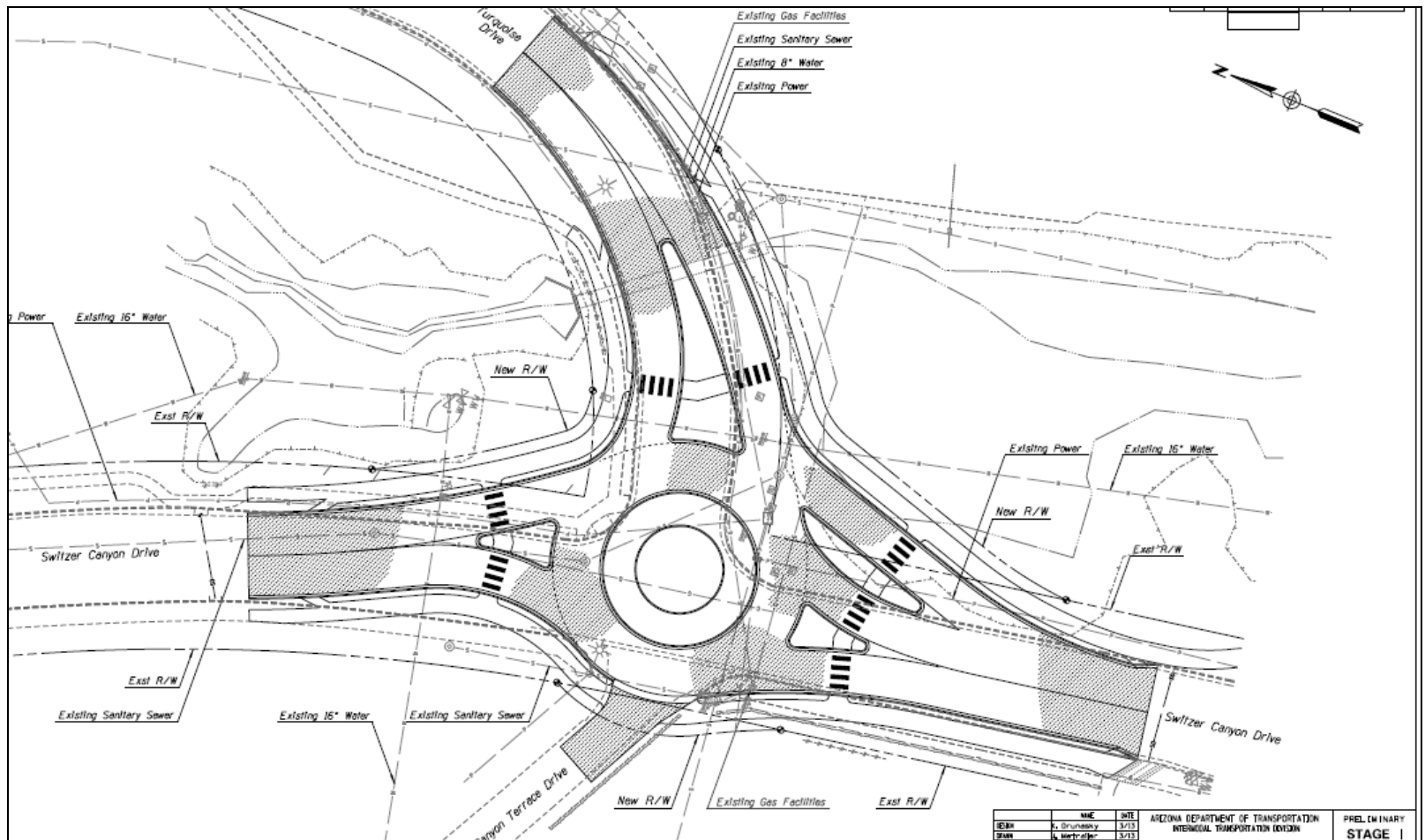
# Stop Sign



# Signal



# Roundabout



# Roundabout

- Preferred Alternative
- Improved Traffic Flow
- Highest B/C Ratio
- Community Acceptance
- Other benefits:
  - Low speed environment
  - Reduction in fuel use and emissions
  - No signal equipment to install and repair
  - Quieter Neighborhoods

# Current & Estimated Cost

Concept Report - \$119,927 - (Incurred to Date)

Final Design Proposal – \$235,021

Estimated Construction Cost – \$1,518,662

Project Management (Estimates)

- ADOT PM – \$50,000
- ADOT Construction Fee – \$303,732
- ADOT Environmental - \$75,000
- City PM – 80,000

Total Estimated Project Cost – \$2,382,340

Grant Funds - \$1,600,000

City Funds - \$782,340

Funding Source – Reoccurring \$450,000 Signal Improvements in the Community Development Division, Transportation CIP, FY16.

# Conclusion

- Design of the Roundabout is the next step
- ADOT will administer the design and construction but the City is responsible for any cost not covered by HSIP grant funds
- FMPO TIP (grant funds) has the \$1,600,000 funding in FY17
- City will need to fund approximately \$782,340 above the HSIP grant funds.

# Memorandum

7.

## CITY OF FLAGSTAFF

**To:** The Honorable Mayor and Council  
**From:** Erin Young, Water Resources Manager  
**Co-Submitter:** Brad Hill, Utilities Director  
**Date:** 05/22/2014  
**Meeting Date:** 05/27/2014



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### TITLE:

**Discussion on Continued Funding Towards the Western Navajo Pipeline (WNP) & the North Central Arizona Water Supply Feasibility Study (NCAWSFS)**

### DESIRED OUTCOME:

Seek City Council discussion and direction on the following policy question: Should the City of Flagstaff continue to fund our portion of the NCAWSFS to complete the 30% pipeline design of WNP absent a Navajo-Hopi Water Rights Settlement?

#### Funding Options:

1. Flagstaff tell CPWAC that our funding is on on-hold until Federal funding for feasibility studies returns as we do not think it is prudent to commit additional funds to actively pursue this water supply option at this time. We will then fund WNP to 30% pipeline design.
2. Flagstaff tell CPWAC that we will only fund the FY15 budget amount of \$30,000 and let the USBR conduct work activities for only this amount.
3. Flagstaff tell CPWAC that we will commit to completing the 30% pipeline design, but commit to pay \$190,470 in FY 15 only if ALL other Parties commit to pay.
4. Other?

### INFORMATION:

#### Background:

1. Council approved a cost-share agreement between U.S. Bureau Reclamation (USBR) and other stakeholders (County, ADWR & Page) on August 23, 2011, to participate and provide funds and in-kind services for the NCAWSFS. The Navajo and Hopi executed separate agreements with USBR.
2. Cost-share proportion is Federal 41% Non-Federal 59%.
3. City has financially contributed 76% of all of the non-federal money towards the overall Feasibility Study to date, which makes up 35% of the required non-Federal 59% cost share requirement (Red Gap \$1.66M and WNP = \$30,000).
4. Staff's strategy for a future water supply has always been to keep Flagstaff's options open as long as possible to better ensure access to limited water resources. Current options are either the Western Navajo Pipeline or Red Gap Ranch.

#### Advantages of 30% pipeline design:

1. USBR recommends completion of the 30% pipeline design because it is necessary in determining cost estimates for the pipeline construction, EIS and Economic Study.
2. The 30% pipeline design completion report will have a long-term shelf life. However, should partners or volume of delivery change in the future, 30% pipeline design will have to be redone.
3. It will bode well for the project if partners are close or exceed 59% cost share at 30% design. When partners meet or exceed their cost share, this demonstrates the need and desire for the project and helps



to further promote continuation of the project.

Issues:

1. There is no Federal funding for Feasibility Study from FY13 through FY16.
2. USBR Rural Water Supply Program funding authority will terminate in FY16 unless law gets changed.
3. It is expensive to complete the 30% pipeline design, all partners are wrestling with this – Cost to complete is \$1.95M (non-federal parties cost-share).

Outstanding issues specific to the City of Flagstaff:

1. Flagstaff's share of the \$1.95M is \$824,588. Only \$30K is budgeted in FY15.
2. Flagstaff has no Colorado River Water Rights, so it is difficult to consider contributing to completing the 30% pipeline design without access to a water supply.
3. Flagstaff has no authority to pump Colorado River water from Lake Powell which is located in the Upper Basin for use in the Lower Basin. This authority could occur thru a Navajo/Hopi Water Rights Settlement in concurrence with the 7-Basin States and Congressional approval.

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**Attachments:**     PowerPoint

# North Central Arizona Water Supply Feasibility Study

## Council Discussion

Presented by

Bradley M. Hill, R.G. - *Utilities Director*

Erin Young, R.G. - *Water Resources Manager*

May 27, 2014



# Policy Question

*Does Flagstaff continue to fund our portion of the feasibility study to complete the 30% pipeline design of Western Navajo Pipeline absent a Navajo-Hopi Water Rights Settlement?*

No decision today – discussion and direction only



# Background

1999: Long-term water supply study by ADWR predicted shortages of water in Northern Arizona in 2050 (*ADWR Water Supply Study, 1999*)

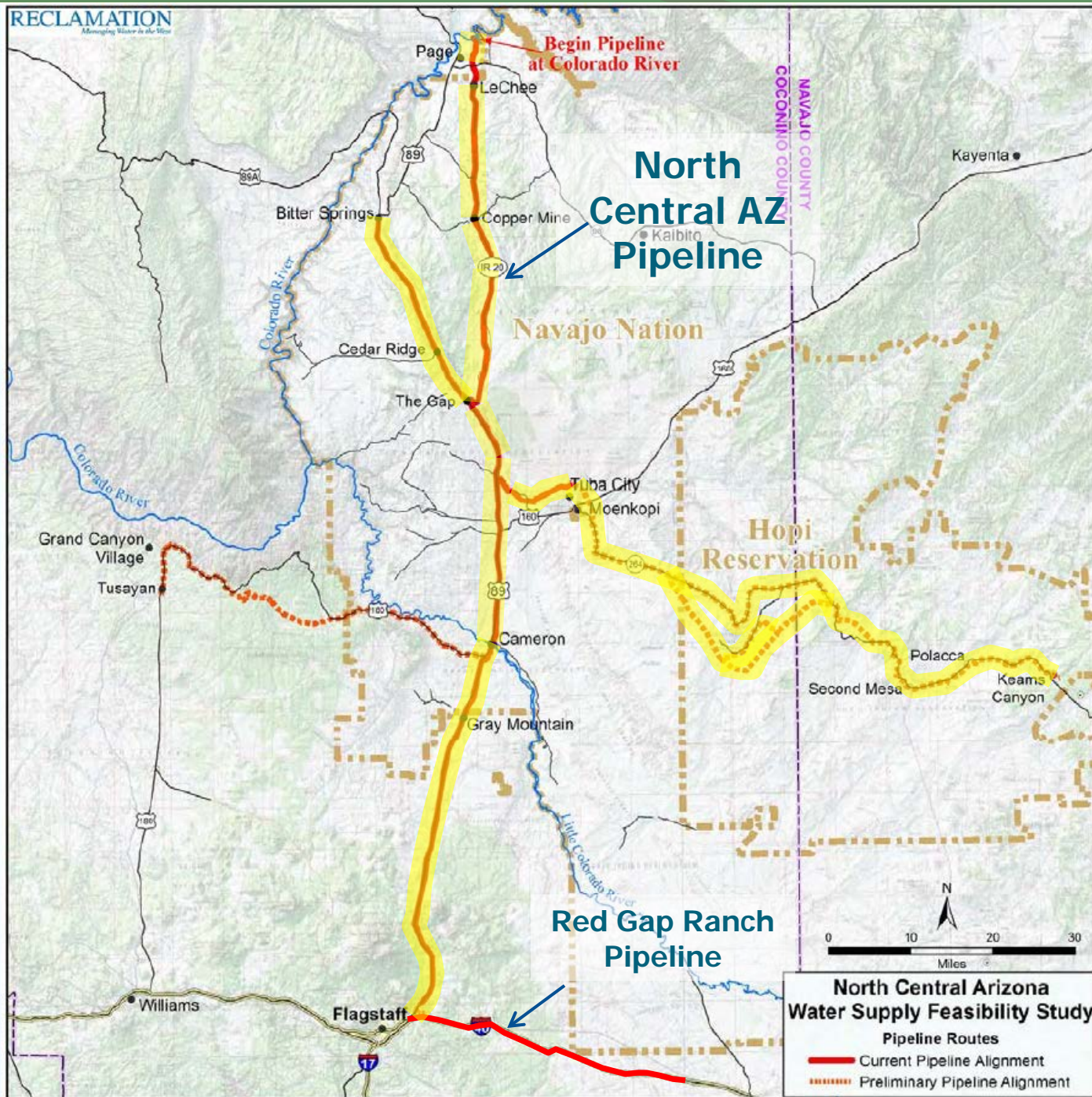
Coconino Plateau Water Advisory Council (CPWAC) selected Bureau of Reclamation (BOR) to conduct the North Central Arizona Water Supply Appraisal Study.

2006: BOR Appraisal Study identified two future supply sources to meet regional needs:

1. Western Navajo Pipeline (aka North Central Arizona Pipeline) from Lake Powell
2. Red Gap Ranch Pipeline (40 miles east of Flagstaff)







30%  
Pipeline  
Design



## North Central Arizona Water Supply Feasibility Study Cost Estimate per Component (April 2013)

Reach	Denver BOR Engineering Hydraulics	PXAO Engineering (includes aerial mapping)	Geology	Environmental Clearances for Feasibility Work	EIS	Admin and Economics	Grand Totals
Lake Powell to Cameron (Page to Cameron, Bodeway Gap to Bitter Springs, Hwy 89 to Tuba City and Moenkopi - 120 miles)	\$1,787,000	\$878,000	\$623,000	\$65,000	\$1,530,000	\$437,000	\$5,320,000
Moenkopi to Keams Canyon (81 miles)	1,176,000	592,000	317,000	41,000	67,000	88,000	2,281,000
Cameron to Flagstaff (53 miles)	1,013,000	387,000	202,000	36,000	203,000	55,000	1,896,000
Red Gap Ranch (41 miles)	675,000	300,000	148,000	32,000	190,000	11,000	1,356,000
<b>Grand Totals</b>	<b>\$4,651,000</b>	<b>\$2,157,000</b>	<b>\$1,290,000</b>	<b>\$174,000</b>	<b>\$1,990,000</b>	<b>\$591,000</b>	<b>\$10,853,000</b>





# Background (continued)

2011: BOR Began Feasibility Study

- City entered into a cost-share agreement with BOR, Coconino County, City of Page, ADWR – Federal 41% Non-Federal 59%

2011-2013: Partner funding to date for feasibility = \$2.22M

2014: BOR asking \$1.95M from partners to complete 30% pipeline design for pipeline from Lake Powell

Funding Contributions to Date	In-kind	Cash	Total Additional to Complete 30% Design	Volume of Water
Federal		\$2,680,000		
City of Flagstaff	\$1,662,452	\$30,000	\$824,582	12,000
Coconino County	\$46,695	\$10,000	\$306,711	2,265
Navajo Nation	\$69,000	\$24,810	\$246,894	8,438
Hopi Tribe	\$0	\$50,000	\$528,893	4,048
City of Page	\$0	\$5,156	\$43,479	3,091
ADWR	\$0	\$282,000		
CPWAC	\$0	\$37,824		
<b>TOTAL</b>	<b>\$1,778,147</b>	<b>\$439,790</b>	<b>\$1,950,559</b>	





# Feasibility Study Status

- Federal funding towards feasibility in FY11 & FY12
- City of Flagstaff has financially contributed 76% of all of the non-Federal money towards the Feasibility Study to date:
  - \$1.66M towards Red Gap Pipeline
  - \$30K towards Western Navajo Pipeline
- BOR recommends completion of the 30% pipeline design
  - Required for cost estimates for the pipeline construction, EIS and Economic Study
- The 30% pipeline design completion will have a long-term shelf life. However, should partners of volume of delivery change in the future, 30% pipeline design will have to be redone



# Issues for CPWAC

- There is no Federal funding for Feasibility Studies from FY13 through FY16
- BOR Rural Water Supply Program funding authority will terminate in FY16 unless law gets changed
- It is expensive to complete 30% pipeline design; cost to complete is \$1.95M (non-federal parties cost-share)



# Issues for Flagstaff

- Flagstaff's share of the remaining \$1.95M is \$824,588. Only \$30K is budgeted in FY15
- Flagstaff has no Colorado River Water Rights at this time to put into a pipeline
- Flagstaff has no authority to pump Colorado River water from Lake Powell, which is located in the Upper Basin, for use in the Lower Basin. This authority could occur through a Navajo/Hopi Water Rights Settlement in concurrence with the 7-Basin States and Congressional approval



# Policy Question

*Does Flagstaff continue to fund our portion of the feasibility study to complete the 30% pipeline design of Western Navajo Pipeline absent a Navajo-Hopi Water Rights Settlement?*

No decision today – discussion & direction only

Staff's strategy for future water supply has always been to keep Flagstaff's options open as long as possible to better ensure access to limited resources.



# Options for Council consideration: Flagstaff to tell CPWAC that...

1. our funding is on-hold until Federal funding for feasibility studies returns as we do not think it is prudent to commit additional funds to actively pursue this water supply option at this time. We will then fund WNP to 30% pipeline design
  - Partners could choose to fund studies independent of BOR
2. we will only fund the FY15 budget amount of \$30,000 and let the USBR conduct work activities for only this amount
3. we will commit to completing the 30% pipeline design, but commit to pay \$190,470 in FY 15 only if ALL other Parties commit to pay
4. Other?

