

CITY COUNCIL REPORT

DATE: 7/15/2020

TO: Mayor, Vice-Mayor & Council

FROM: Rick Barrett, City Engineer
Bret Petersen, Capital Improvements Engineer

CC: Greg Clifton, City Manager, Shane Dille, Deputy City Manager and
Daniel Folke, Community Development Director

SUBJECT: Monthly Capital Project Report – July 2020

Background:

Community Development's Capital Improvement's Program has 19 active capital projects in Fiscal Year 2020/2021. Active refers to budgeted projects that are either in the planning, design or construction phase. The projects are organized by Fund to correspond to the FY2020/2021 Capital Program.

Discussion:

Please see attached Monthly Capital Project Report – July 2020 for a description of each project, a project update and pictures/maps. An overall project location map is also attached for reference. The following projects are included:

- Rio de Flag (RDF) Flood Control
- Rt. 66/RDF Bridge Utility Relocations
- JWP Specific Plan Study
- Sunnyside Phase 6 – Second Avenue
- Municipal Court
- Fourth Street Reconstruction
- Beulah Boulevard Extension/University Drive Realignment
- Switzer Canyon FUTS Trail
- La Plaza Vieja Traffic Calming
- I-40/Fourth Street Bridge Replacement
- Industrial Drive & Fanning Wash Improvements
- Sheep Crossing FUTS Trail
- Switzer Canyon Drive/Turquoise Drive Roundabout
- Coconino Estates Improvements Phase I
- McCallister Ranch Gateway Sign
- East Rt. 66 and El Paso Flagstaff Waterline Extension
- Summit Water
- Industrial Waterline Replacement
- Fir Avenue Waterline Replacement

Projects not included in this Monthly Report but, will be included in the future are as follows:

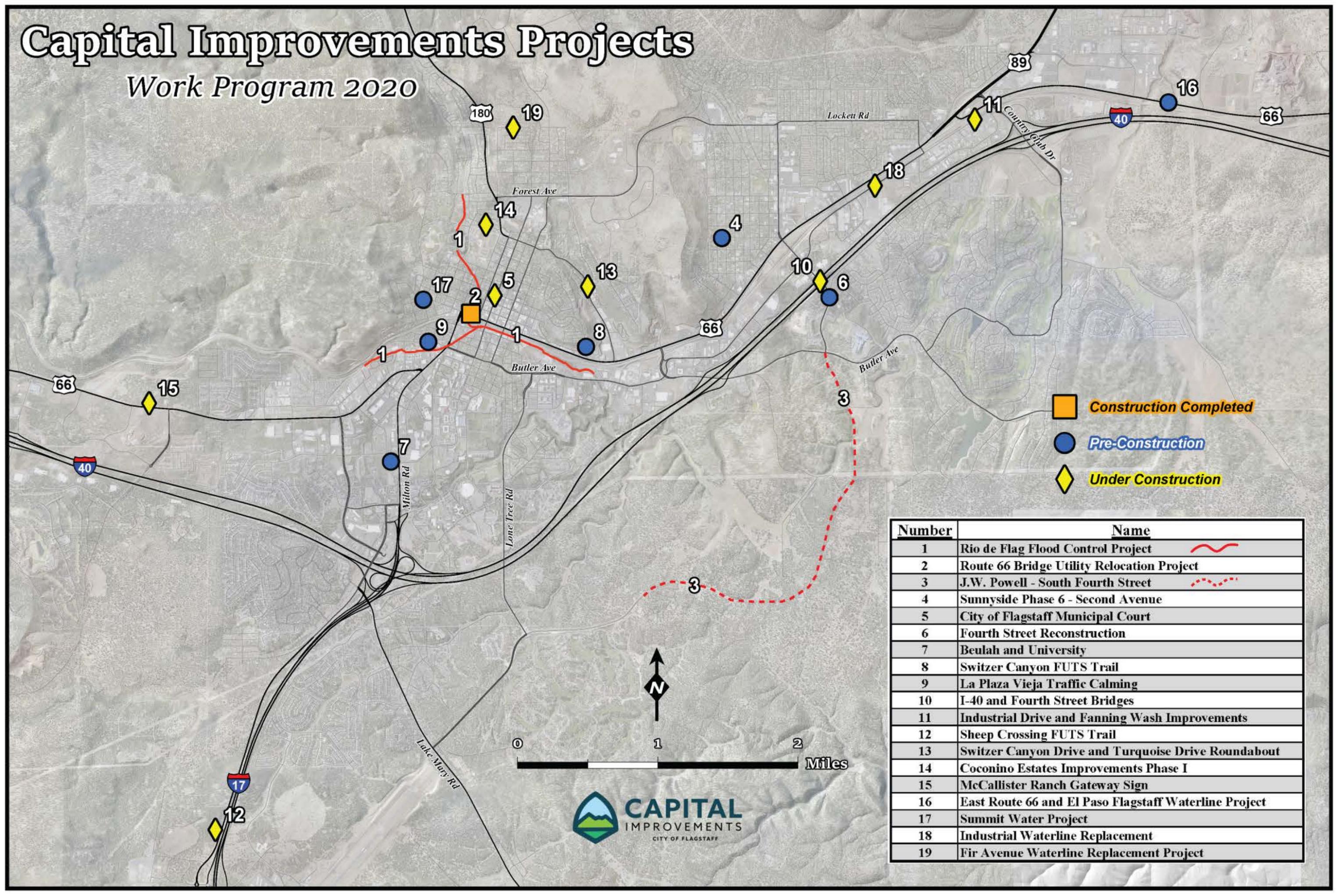
- USGS Facilities
- Flagstaff Quiet Zone Modifications
- Butler Avenue Improvements (including Fourth Street Intersection)
- Lone Tree Overpass
- West Flagstaff Improvements
- Dark Skies Street Lighting
- Fourth/Cedar/Lockett Roundabout

Recommendation/Conclusion:

The report is for information only. Please let us know if you have any questions, comments or concerns.

Capital Improvements Projects

Work Program 2020



- Construction Completed
- Pre-Construction
- ◆ Under Construction

Number	Name
1	Rio de Flag Flood Control Project ~~~~~
2	Route 66 Bridge Utility Relocation Project
3	J.W. Powell - South Fourth Street - - - - -
4	Sunnyside Phase 6 - Second Avenue
5	City of Flagstaff Municipal Court
6	Fourth Street Reconstruction
7	Beulah and University
8	Switzer Canyon FUTS Trail
9	La Plaza Vieja Traffic Calming
10	I-40 and Fourth Street Bridges
11	Industrial Drive and Fanning Wash Improvements
12	Sheep Crossing FUTS Trail
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17	Summit Water Project
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Monthly Capital Project Report

July 2020

Rio de Flag Flood Control Project (DESIGN PHASE)

FUND: STORMWATER & AGING INFRASTRUCTURE

Description - Design consists of channel improvements along both the Rio de Flag and Clay Avenue Wash channels, and the construction of an underground concrete confluence structure. The channelization of Clay Avenue Wash channel will begin at an upstream inlet structure transitioning into an open rectangular concrete channel and then transitioning into an underground reinforced concrete box channel ending at the confluence on Clay Avenue Wash and Rio de Flag, approximately 5,000 feet. The channelization of the Rio de Flag channel will begin at an upstream inlet structure transitioning into an underground reinforced concrete box channel with an open earthen channel above (composite channel) and then transitioning into the underground confluence structure. From the confluence structure, the Rio de Flag channel will be rerouted out of the Southside, along the BNSF railroad tracks, then transitioning into an open trapezoidal channel with riprap placed on invert and side slopes. Work includes widening and deepening by large scale excavation, grading, and compacted fill; disposal of excess excavated material; installing over 1 mile of underground reinforced concrete box channel, riprap slope protection, critical underground concrete confluence hydraulic structure, drainage culverts, many utility relocations, landscaping & mitigation planting, asphalt concrete paving, access ramps, safety railing and appurtenant work. Construction methods will include hard rock excavation during grading and utility excavation, groundwater dewatering, shoring, environmental cleanup & disposal and cut slope & trench stabilization.

Project Update :

100% plans status -Phase I & Phase II

- We received the BNSF review comments on the ATR plan submittal, and they are in Tetra Tech's hands for evaluation.
- Coordination continues with ADOT on the Milton/Butler five points intersection encroachment permit.

Utility relocations status - Phase I & Phase II

- Ongoing coordination with Unisource to further develop their infrastructure relocation plans for Mikes Pike.

Environmental Status - Phase I & Phase II

- The City is working with consultants (Western Technology and SCS Engineers) to develop the Environmental Response Plan (ERP). We have made good headway on general plan development items.
- There was a Clean Water Act change earlier on in the year which is being reviewed for impact to our ERP effort and we hope that this change will help us streamline the process.

Property acquisition status -Phase I

- City, the City's consultant (Shephard Wesnitzer, Inc.) is working on an encumbrance exhibit to supplement the Real Estate task.
- Our internal team has made great progress on inventorying the title report encumbrances and SWI is already working on exhibits. City's Real Estate folk have been busy doing everything we can to continue to sort out what other progress can be made as we develop the exhibits.
- The USACE Real Estate staff member we had been working with over the years is no longer on the project. We will continue to work directly with newly assigned staff.
- On July 7th Council approved the real estate acquisition for more RDF parcels.

US Army Corps of Engineers

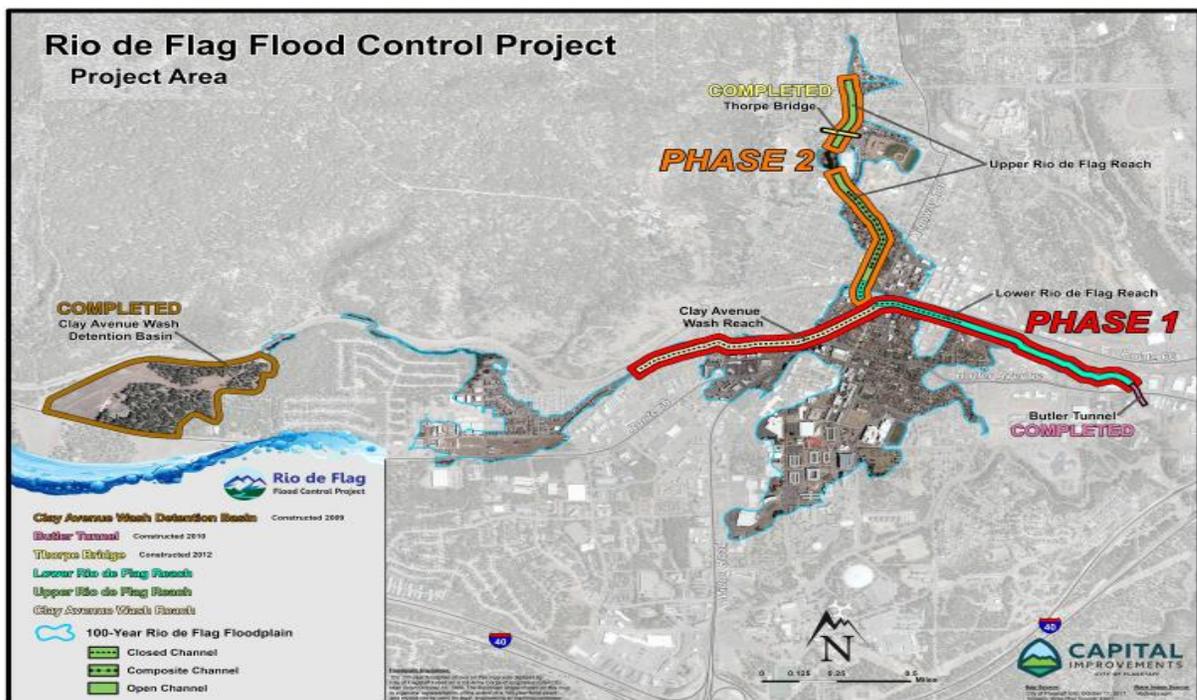
- The Real Estate Team provided written documentation to the City on recommendations to satisfy the Real Estate Certification.
- Project Team encountered a setback regarding the need for a Tackings Exhibit that shows all encumbrances as shown on title report. Staff is working to develop this exhibit so that USACE can provide the necessary authorizations to proceed with appraisals.
- We continue to work with USACE to determine a delivery schedule that adequately respects BNSF's required review timelines for development of the Construction & Maintenance Agreement.

Cash contributions

- The City is processing the required cash contribution of \$15,077,177 as outlined in the Project Cooperation Agreement.

Internal & external meetings

- Staff held our internal monthly staff on July 1, 2020.
- Weekly coordination meetings with SWI were held to discuss project issues.



Rio de Flag Scope of Work & Phasing

Rt. 66/Rio de Flag Bridge Utility Relocation Project (CONSTRUCTION PHASE)

FUND: STORMWATER & AGING INFRASTRUCTURE

Description – This project is directly related to the Rio de Flag Flood Control Project (RDF) as well as replacing an ADOT bridge. ADOT’s new bridge will accommodate the RDF as well as a FUTS crossing beneath Rt. 66. The Utility Relocation project will replace and relocate 170 feet of a 30” storm drain system with a 48” storm drain system, including manholes and all connections; relocate 400 feet of a 20” reclaim water main, including valves and all connections; replace and relocate 300 feet of a 10” sewer main and 400 feet of a 18” sewer main, including manholes and all connections and; includes coordination with franchise utility companies to relocate gas and electric lines.

Project Update:

- Project has been completed
- Punch list work is in progress.



New sod installation

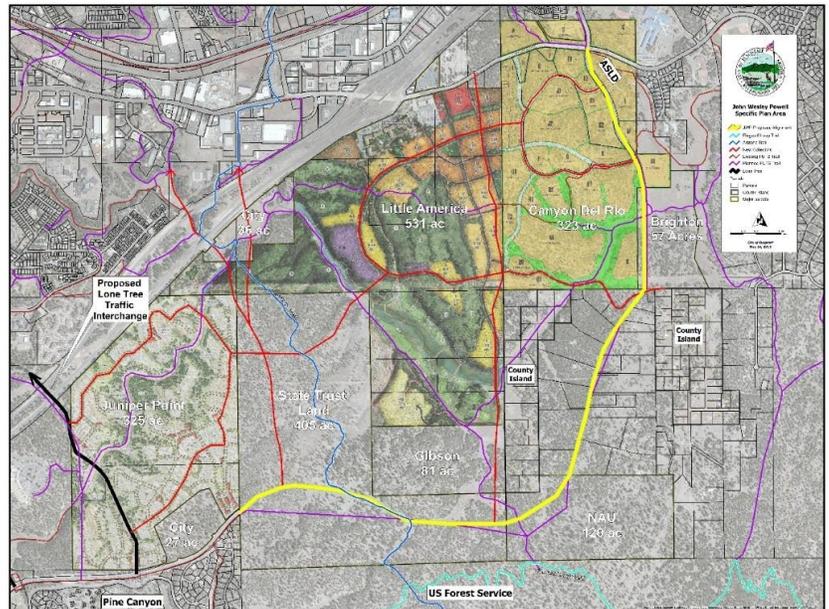
J.W. Powell Specific Plan Study (PLANNING PHASE)

FUND: GENERAL GOVERNMENT & TRANSPORTATION TAX

Description – The purpose of the John Wesley Powell Specific Plan Study (Study) is to amend the Regional Plan to guide future development approximately 2,200 acres of greenfield. This process will consist of two (2) phases. Phase 1 is the conceptual design of the future public infrastructure (roads & trails), public utilities and public facilities (parks, school and fire station) location analysis. The conceptual design is required to meet the full City infrastructure standards including street improvements, potable water, sanitary sewer mains, storm drain systems, street lighting and associated appurtenances. Phase 1 of the Study includes a sanitary sewer system master plan for the area. A water system master plan was previously developed for the area. Phase 2 of the Study is development of the planning elements necessary to gain City Council approval of an amendment to the Regional Plan.

Project Update:

- City Engineering and Planning Staff met with Peak Engineering and subconsultants on 26 June to review land use framework.
- Meeting with City Engineering and Planning Staff to discuss transition from Phase 1 to Phase 2 is scheduled for mid-July.
- Update to City Council coming this fall.



Proposed alignment of new Fourth Street; denoted by yellow line

Sunnyside Phase 6 – Second Avenue (DESIGN PHASE)

FUND: GENERAL GOVERNMENT

Description – This project improves stormwater drainage, rebuilds the asphalt roadway surface, and constructs sidewalks and driveways along one block of Second Avenue, between West and Center Streets, in Sunnyside.

Project Update:

- 90% design plan review is currently underway by City Staff.
- Work on 100% (final) plans will began after 90% plan review (mid-July).
- This project does not have funding for construction.



Extent map of the Sunnyside Phase 6 – Second Avenue Project

City of Flagstaff Municipal Court (CONSTRUCTION PHASE)

FUND: GENERAL GOVERNMENT

Description – The City of Flagstaff Municipal Court Project is a 40,000 SF facility that will provide full user services to the City Court, the City Prosecutor’s Office, and the public. It is located two blocks north of the existing Court facility, at 101 W. Cherry. Amenities include: four court rooms, one hearing room, administrative staff offices for the Court and Prosecution, in-custody detention & processing, and customer service facilities.

Project Update:

- All trade crews are fully active. The elevator subcontractor is on site and working on the south east elevator bank.
- Mechanical/Electrical/Plumbing, framing, drywall and audio/visual install is proceeding on all floors.
- Exterior masonry is proceeding to 32’ above floor grade. The west side is complete to top cornice.
- Interior finishes such as bathroom floor tile and final paint are continuing on the first floor.
- Drop ceiling grid is being installed on the first floor.
- First floor window installation continues.
- Exterior ramps are being poured.
- Stucco forms are being installed.



Exterior Building view of northeast corner (above)

Interior lobby view from second floor mezzanine (below)

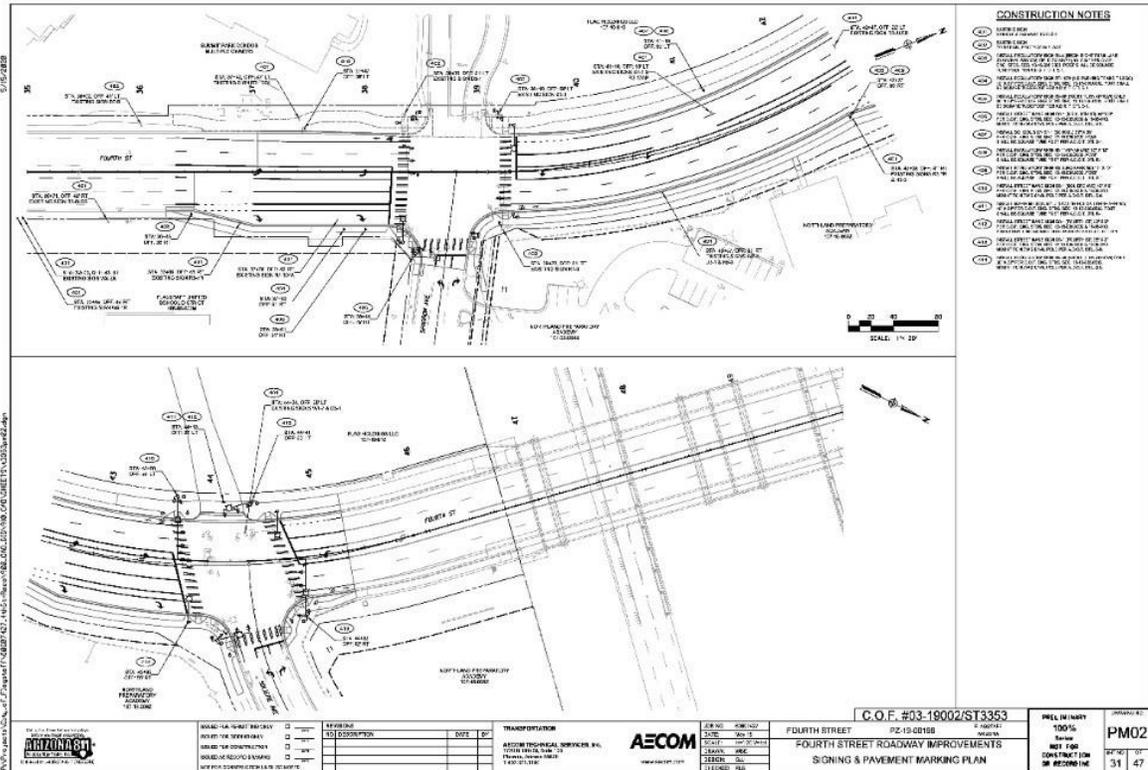
Fourth Street Reconstruction (DESIGN PHASE)

FUND: TRANSPORTATION TAX

Description – The project is on Fourth Street from the Soliere Avenue intersection, southerly to the Sparrow Avenue intersection. The work will construct a new pavement section with two northbound and two southbound lanes, a center turn lane and a northbound dedicated right turn lane from Fourth Street onto Sparrow Avenue and onto Soliere Avenue, new streetlights, new traffic signal at Soliere Avenue, new fire hydrants, new 12" water main and new 8" water main, curb & gutter and new sidewalk.

Project Update:

- Final design plans have been submitted and are currently under the City review process.
- The working schedule has bid solicitation late summer 2020.
- Underground utility work is targeted to begin in fall 2020.



Fourth Street Reconstruction Overview Plan

Beulah Boulevard Extension/University Drive Realignment (DESIGN PHASE)

FUND: TRANSPORTATION TAX

Description – This project extends the northern terminus of Beulah Boulevard to connect with University Drive at Yale Street. Furthermore, University Avenue (west of Milton) will be realigned to match up with University Drive (east of Milton). A new roundabout will be constructed where Beulah Boulevard and University Drive will intersect.

Project Update:

- Shephard-Wesnitzer, Inc. (SWI) along with Western Technologies (WTI) are finalizing the final design of an erosion control plan, including environmental sampling/reporting for the demolition of remaining structures on City property and ROW.
- Upon commencement of the design plan above, JOC bidding will re-initiate to complete demolition.
- Vintage Partners is working to commence the 100% design phase.



Extent map of new Beulah and University Realignment – taken from 30% plans

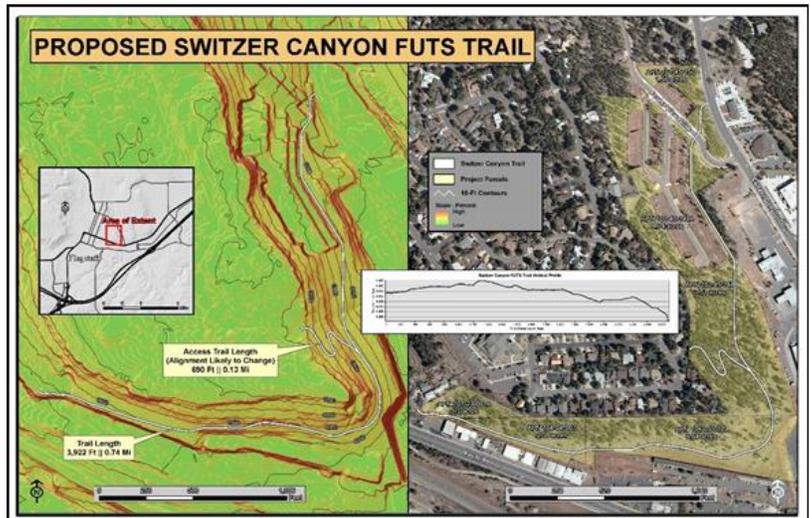
Switzer Canyon FUTS Trail (DESIGN PHASE)

FUND: TRANSPORTATION TAX

Description – The Switzer Canyon FUTS Trail extends from the end of Terrace Avenue (above CD&E Engineering Firm) to Switzer Canyon Drive (just south of the new roundabout with Turquoise Drive). This new 0.75-mile trail will create trail connectivity between downtown Flagstaff and existing trails leading to Buffalo Park.

Project Update:

- Final design (100% plans) were completed in late 2018.
- Funding for this project was utilized to construct Sheep Crossing FUTS Trail.



Alignment and slope of the proposed Switzer Canyon FUTS Trail.

La Plaza Vieja Traffic Calming (DESIGN PHASE)

FUND: TRANSPORTATION TAX & HOUSING [CDBG] ALLOCATION

Description – The project is assisting the neighborhood by improving pedestrian safety of crosswalks, sidewalks, bike lanes and storm drainage at the Kingman Street and Florence St./Malpais Ln. intersections with Clay Avenue.

Project Update:

- Capital Improvements is assisting Comprehensive Planning.
- 60% design plans have been submitted for City review.



Conceptual Plan of Proposed Improvements

I-40/Fourth Street Bridge Replacement (CONSTRUCTION PHASE)

FUND: TRANSPORTATION TAX

Description - A partnership with ADOT, the I-40/Fourth St. Bridge Replacement will replace the existing two travel lane bridges across the interstate with new bridges accommodating four travel lanes, a center median/turn lane, bike lanes, FUTS trail and pedestrian/bike path. A bridge slide will be utilized to reduce closures of Fourth St. from 3-4 months to approximately 17 days. The project is being administered by ADOT and the total City financial commitment is \$8,854.644.

Project Update :

- Bridge deck concrete placement completed on three girder side and to be completed soon on seven girder side.
- Construction of retaining wall along Fourth St is underway.
- Detours of I-40 are expected for the coming weeks.
- Full closure of Fourth Street slated to begin July 17th for bridge slide.
- The three-girder side of the bridge (pictured below) is in its permanent location. This will become the Emergency and Pedestrian access during the demolition of the existing bridges.
- The seven-girder portion, located to the east of the existing bridges, will be moved (bridge slide) into place in July.



Fourth St. Bridge construction and deck preparation

Industrial Drive & Fanning Wash Improvements (CONSTRUCTION PHASE)

FUND: TRANSPORTATION TAX

Description – The project is constructing the third phase of the Industrial Drive improvements. The work will bring this segment up to standard as a minor arterial and truck route, build new 12” water main, new fire hydrants, streetlighting, sidewalk, bike lanes and dual 8.5’ diameter pipes to convey Fanning Wash stormwater beneath the new 42’ wide roadway.

Project Update:

- Paving and striping has been completed.
- Site hydroseeding for stabilization has been completed.
- APS has been scheduled to energize the streetlights the week of July 20TH.



Project Overview

Sheep Crossing FUTS Trail (CONSTRUCTION PHASE)

FUND: TRANSPORTATION TAX

Description – The Sheep Crossing FUTS Trail connects the Ponderosa FUTS Trail on the east end, just south of the Ponderosa Trails Subdivision, and the Sinclair Wash FUTS Trail on the west end. The western portion of the trail is in Fort Tuthill County Park and intersects the County’s Soldiers Trail. Furthermore, this 0.74-mile trail is a connecting portion of the greater 44-mile Flagstaff Loop Trail. This trail utilizes two concrete box culverts for passage under Highway 89A and Interstate 17.

Project Update:

- Crews continue with the fine grading of the modified drainage channel leading to Interstate Tank.
- Earthwork continues for the Lower embankment and for tank downstream of Interstate Tank.
- Continuing to coordinate material submittals with appropriate stakeholders.



*Looking north with new drainage channel (left) and trail (right).
Interstate 17 is to the far left.*

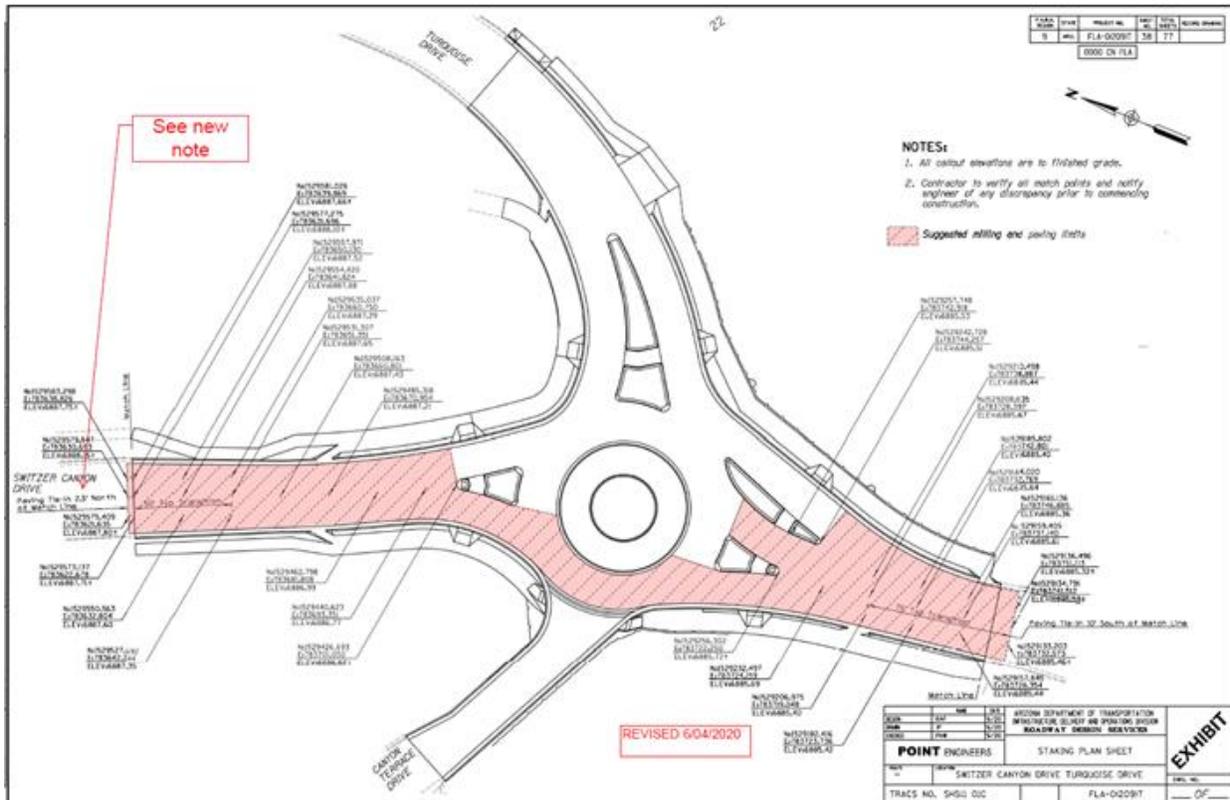
Switzer Canyon Drive/Turquoise Drive Roundabout (CONSTRUCTION PHASE)

FUND: TRANSPORTATION TAX – SAFETY IMPROVEMENTS

Description – This is an ADOT Highway Safety Improvement Program (HSIP) intersection safety improvements project through the construction of a roundabout at the intersection of Switzer Canyon Drive / Turquoise Drive / Canyon Terrace Drive. The project is being managed and delivered by ADOT.

Project Update:

- ADOT and McDonald Brothers (the contractor) are scheduled to perform the pavement corrections July 13 through July 16, 2020.



Plan sheet indicating the pavement area to be corrected

Coconino Estates Improvements Phase I (CONSTRUCTION PHASE)

FUND: ROAD REPAIR & STREET SAFETY

Description - This is a utility and roadway improvements project located in the Coconino Estates neighborhood on Beal Road from Rockridge to Fort Valley, Navajo Drive from Navajo Road to Murray; Whipple Road from Navajo Drive to McMillan and; Navajo Road from Navajo Drive to Fort Valley. Improvements on the streets generally consist of replacing existing infrastructure with new, including water and sewer mains, water and sewer services, fire hydrants, storm drains, street lights, the entire asphalt road way, and defective select edge improvements (curb & gutter, sidewalk, etc.), except for Whipple Road which will only receive a new water main. There will also be new infrastructure added consisting of underground electric lines for street lighting and sidewalk on both sides of the street where it does not currently exist on Beal Road (Ft. Valley to Navajo Drive), Navajo Drive (Beal Road to Navajo Road) and on Navajo Road (Navajo Drive to Ft. Valley).

Project Update:

- The Contractor is currently installing the new sewer main and services in Navajo Road.
- Navajo Road is closed to thru traffic with the posted detour down Apache Road.
- Staff has prepared a City Council Report regarding citizen concerns about 2 spruce trees that are to be removed to allow for installation of sidewalk and to improve safety of the Beal/US180 intersection and the Ft. Valley FYTS trail.



Looking east at the sewer main replacement on Navajo Road

McCallister Ranch Gateway Sign (CONSTRUCTION PHASE)

FUND: BBB (BEAUTIFICATION)

Description – The project is constructing the first sign programmed for a signage system identifying Rt. 66 through the community. The program has been developed by Economic Vitality.

Project Update:

- This project has been completed.



New Sign

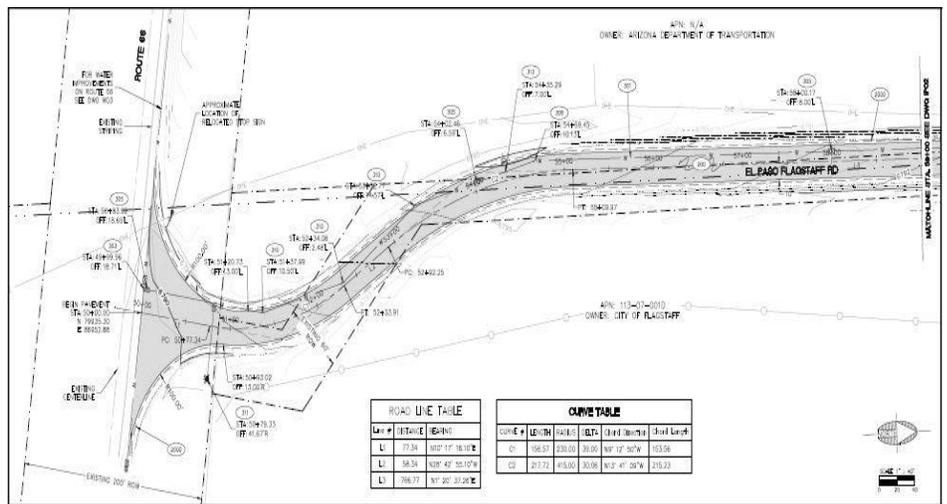
East Rt. 66 and El Paso Flagstaff Waterline Extension (DESIGN)

FUND: AGING INFRASTRUCTURE

Description – A utility improvements project that extends the 12” ductile iron waterline approximately 2,450 linear feet from the intersection of Test Drive and Rt. 66 to the intersection of El Paso Flagstaff Road. The waterline extension continues up El Paso Flagstaff Road towards the Wildcat Treatment plant with approximately 1,600 linear feet of 8” ductile iron waterline. The project also calls for repaving of El Paso Flagstaff Road for the extents of the waterline extension.

Project Update:

- A Professional Services contract was approved with SWI on 4/22.
- Civil Plans were received and are now under review with the County and City.
- Tentative construction schedule is to construct the waterline extension along Rt. 66 and El Paso Flagstaff Road during winter of 2020/2021 followed by paving of El Paso Flagstaff Road in the Spring of 2021.



Draft Design Drawing

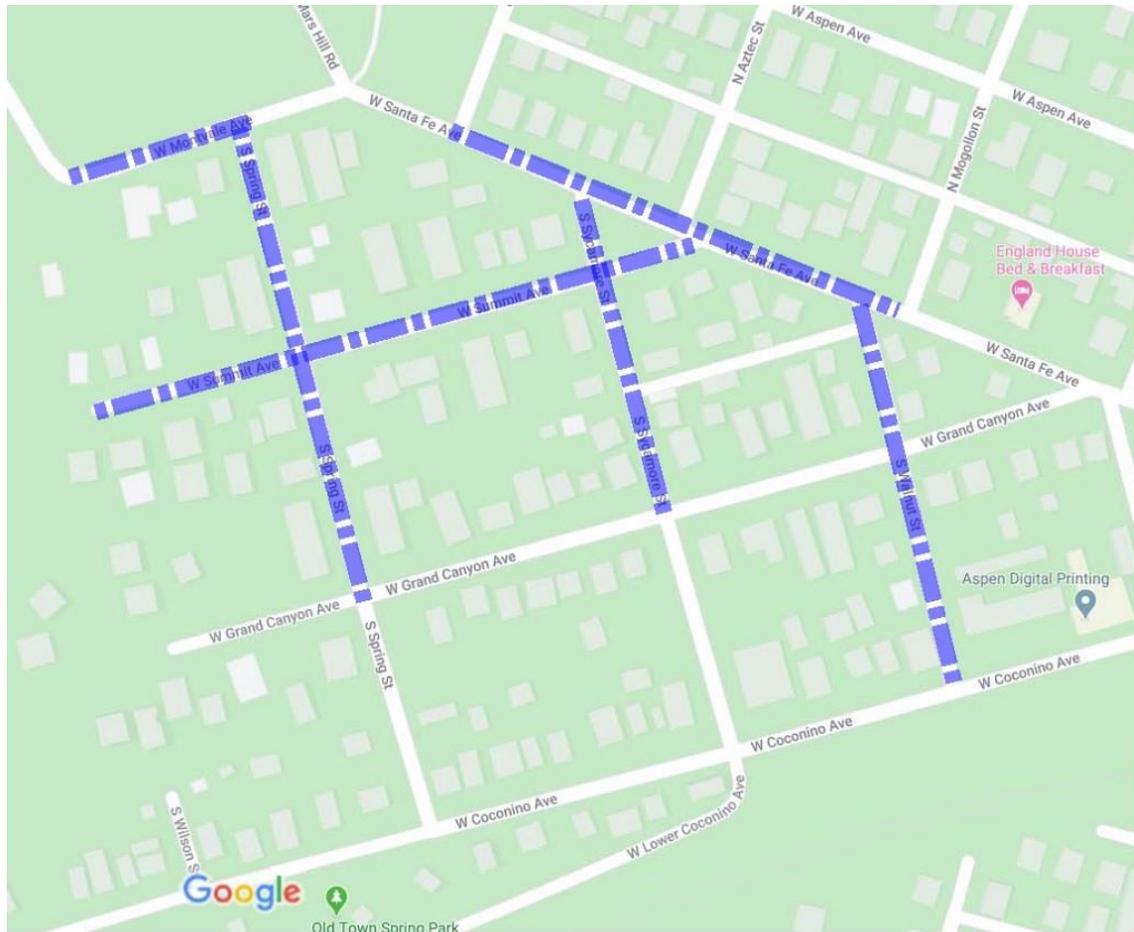
Summit Waterline Project (CONSTRUCTION PHASE)

FUND: AGING INFRASTRUCTURE

Description - Approximately 3,300 ft of new waterline, water services, fire hydrants, and pavement reconstruction (see map below). Waterline only (no street improvements) will be installed on W. Montvale Ave. from Santa Fe Ave, to end.

Project Update :

- Contract with Overlay's approved at June 2nd City Council meeting.
- Pre-Construction meeting held June 25th.
- Project started on July 6th.
- Project Notification flyers sent to neighborhood.



Map data ©2020 Google 100 ft

Summit Water Project Vicinity Map

Fir Avenue Waterline Replacement (CONSTRUCTION PHASE)

FUND: AGING INFRASTRUCTURE

Description - The Project consists of installing 3,000 feet of 8" ductile iron pipe (DIP), 100 feet of 6" DIP and associated roadway improvements. Included in the project will be new water services, fire hydrants and air release valves. The project is in the Mount Elden Park Subdivision, north of Flagstaff Medical Center and is approximately three blocks of Fir Avenue and one block of Mesa Avenue.

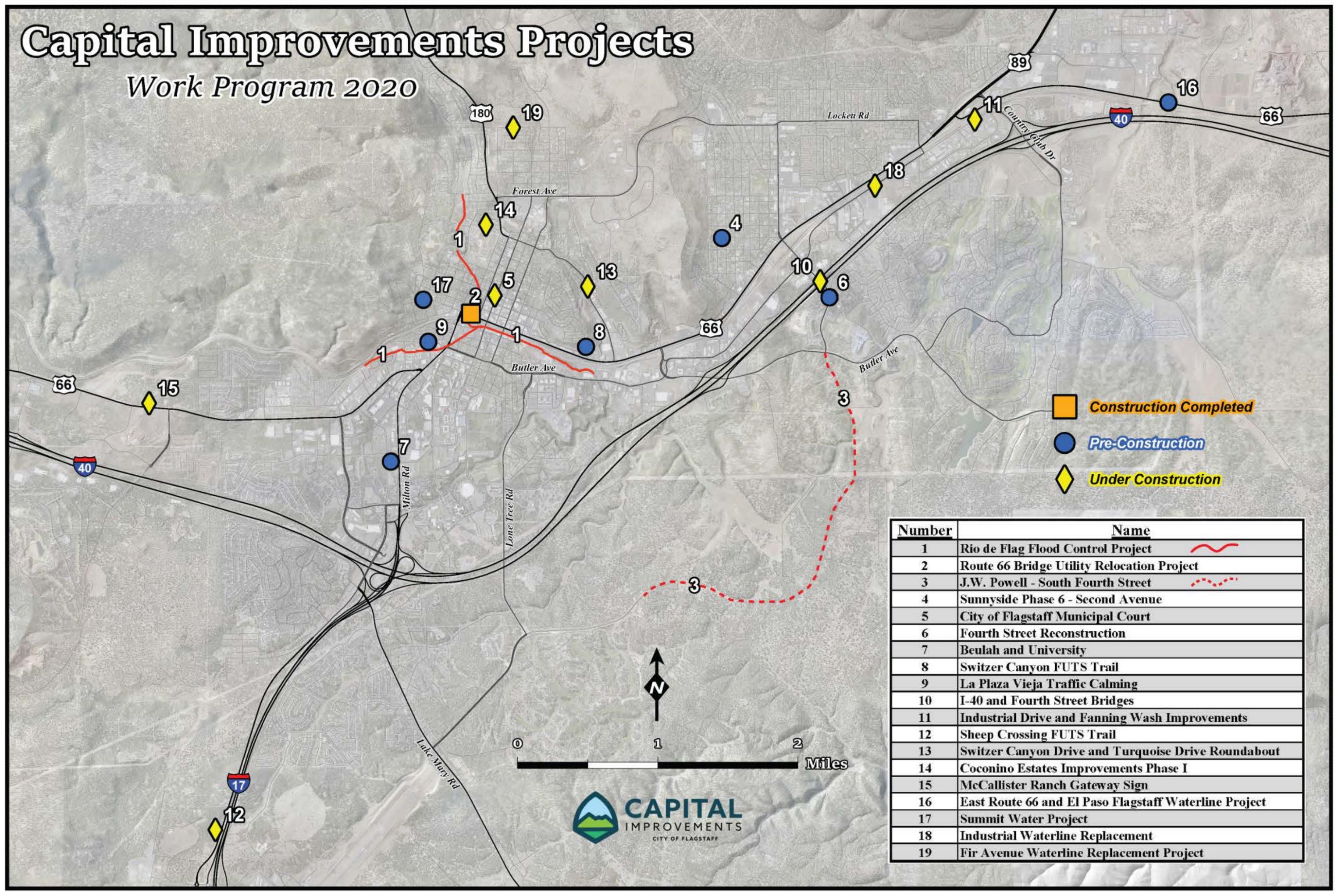
Project Update:

- Notice to Proceed was issued for July 6, 2020.
- Mountain High Excavating setup traffic control for the project construction area.
- Potholing efforts and pre-construction investigation are underway.
- All residents have been contacted by the project team.



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