

TOWN OF PARADISE VALLEY

Stormwater Policy Resolution **April 13, 2017**



PURPOSE

Establish the philosophical position of the Mayor and Town Council regarding the provision of storm water services by the municipality.



April 13th, 2017

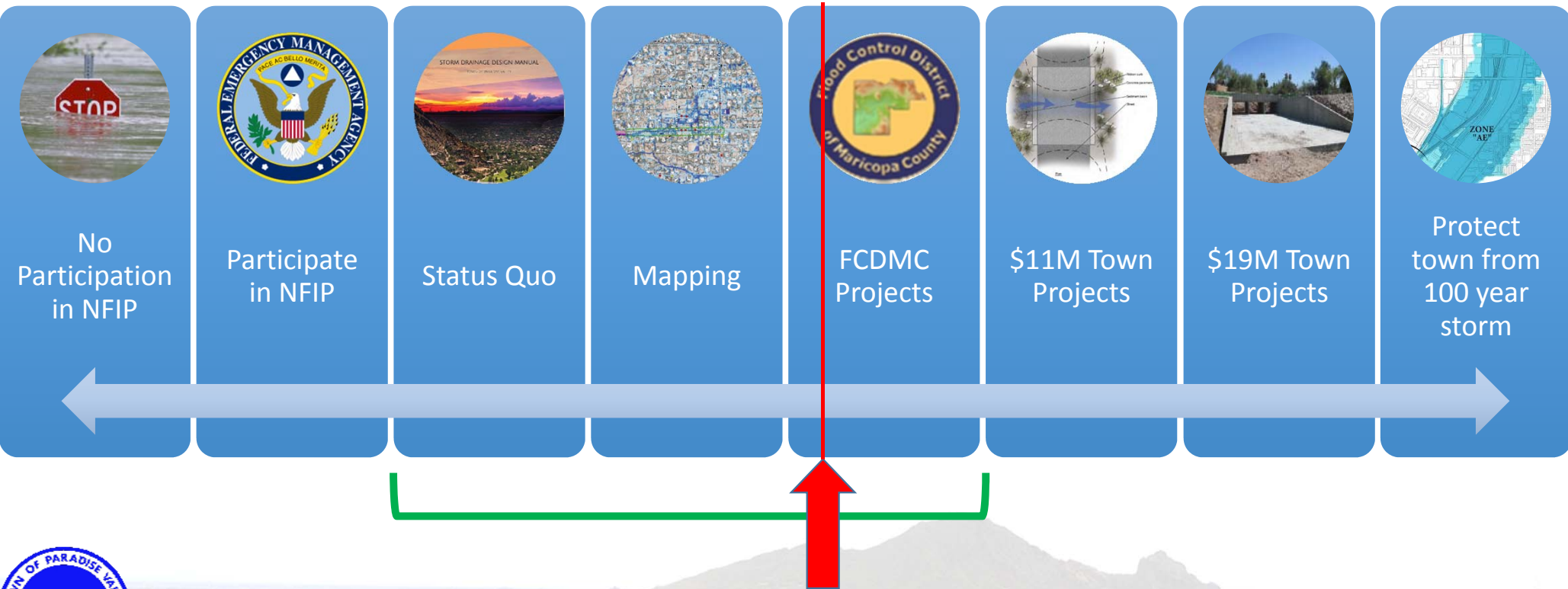
AGENDA

- 1. Continuum of Stormwater Services**
- 2. Recommended Stormwater Services**
- 3. Impact on Stormwater Section of the Capital Improvement Plan**
- 4. Resolution 2017-08**



April 13th, 2017

CONTINUUM OF STORMWATER SERVICES



April 13th, 2017

RECOMMENDED STORMWATER SERVICES

Includes:

- Rely on the updated Storm Drainage Design Manual to guide private development
- Construct storm drainage facilities with roadway projects as necessary
- Maintain individual storm drain studies in GIS
- Town constructs very small local projects (i.e. curb and gutter)
- Residents responsible for wash maintenance and private storm drainage structures, lot by lot solutions
- Meet federal and state requirements for stormwater management, participate in the NFIP



RECOMMENDED STORMWATER SERVICES

Includes:

- **Continue Mapping Six PV Watersheds After FCDMC Conducts Baseline**
- **Field verify FCDMC's FLO-2d mapping**
- **Determine path and depth of flood water**
- **Notification of residents, better decisions for Flood Insurance**
- **Would need to be updated periodically**
- **Lot-by-lot drainage studies still required by SDDM**

April 13th, 2017



RECOMMENDED STORMWATER SERVICES

Includes:

- **Follow the FCDMC schedule for Area Drainage Master Plan's (ADMP's)**
- **Complete cost-benefit analysis for PV in participating in any FCDMC stormwater projects**
- **If recommended by Town Engineer & Approved by Council**
 - **Participate on design and construction of alternatives identified**
- **Commit town funds to cost share on projects identified in ADMP's**

April 13th, 2017



RECOMMENDED STORMWATER SERVICES

Pros

- Town is being proactive
- Town is mitigating flood events
- Flood insurance available to residents
- Continue to maintain regulatory control
- More information for residents and development reviews
- Regional scale solutions
- Cost sharing for design and construction
- Eventual outfall reduction

Cons

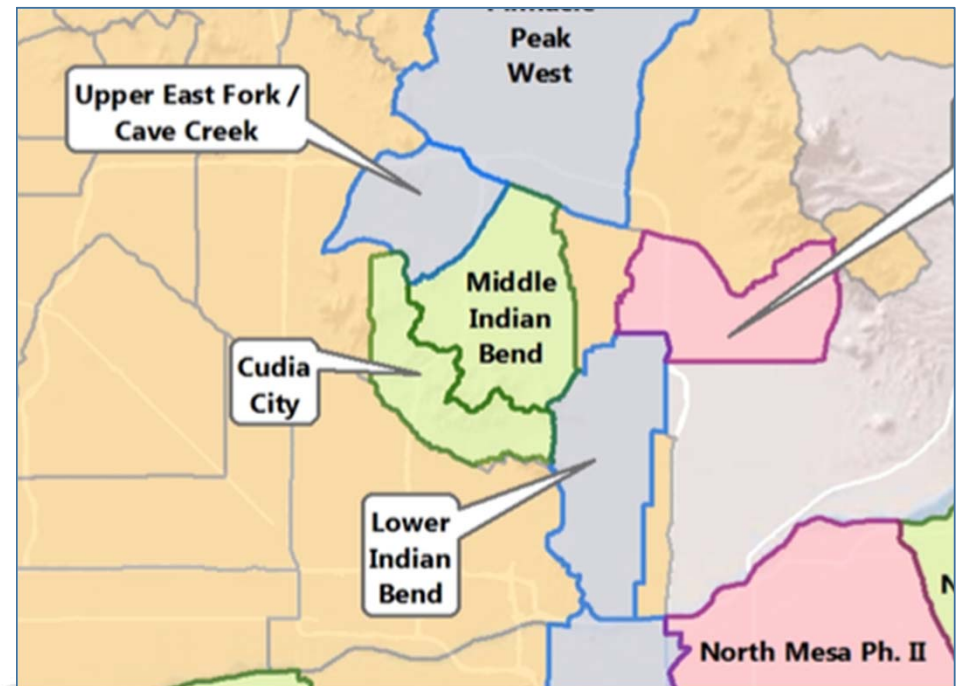
- FCDMC is utilizing a 10 year design for future projects
- Less control over prioritization and timing of future projects
- Competing with other municipalities for FCDMC funding
- Larger financial commitment
- On-going mapping effort requires town funds to map



RECOMMENDED STORMWATER SERVICES

Flood Control District Area Drainage Master Plan's

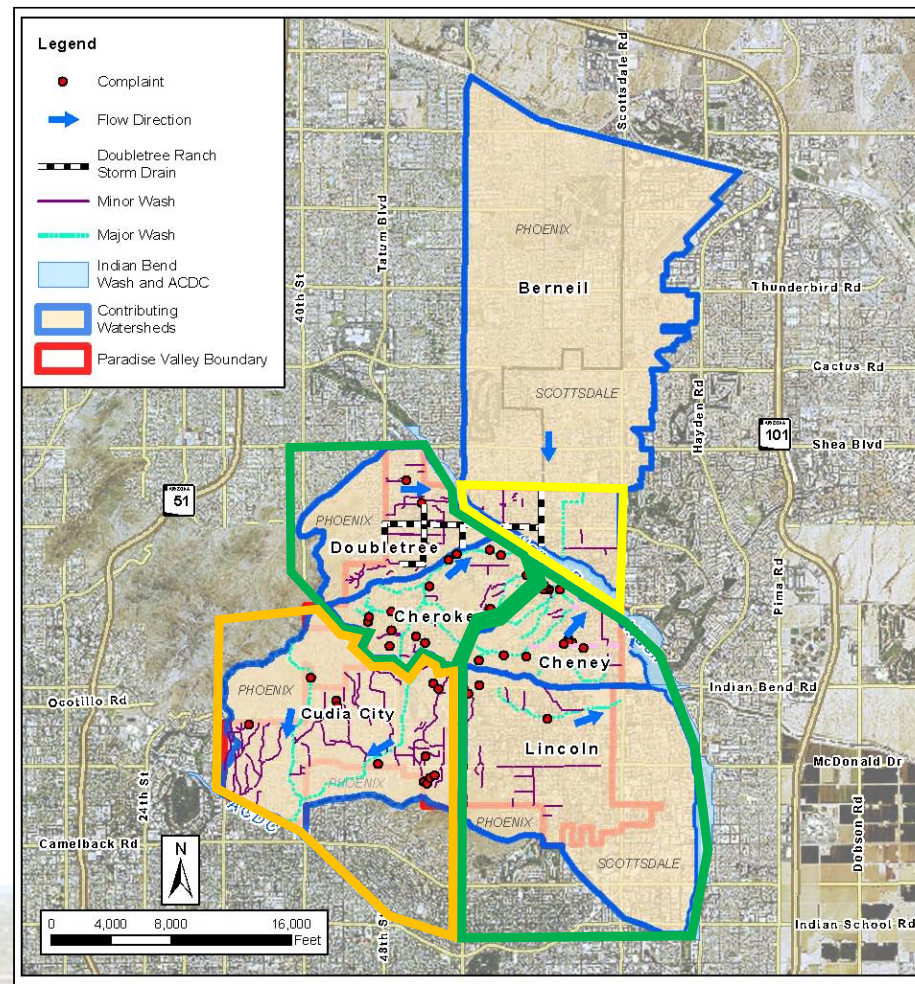
- **Active ADMP's**
 1. Lower Indian Bend Wash
 2. Middle Indian Bend Wash
- **FY18 ADMP's**
 1. Cudia City



April 13th, 2017



RECOMMENDED STORMWATER SERVICES



April 13th, 2017



RECOMMENDED STORMWATER SERVICES

Flood Control District Area Drainage Master Plan's

- **Town will need to:**
 - **Map Berneil Watershed**
 - **Cut out areas of larger ADMP's to create one townwide FLO-2D model**
 - **Manage changes and updates to the FLO-2D model in the future**
 - **Approximately \$450k initial effort, \$10k on-going**



RECOMMENDED STORMWATER SERVICES

Impact on the Capital Improvement Program (CIP)

- **Cheney and Cherokee Watershed Study Modified**
- **Future Watershed Studies Scope Change**
 - **Reduce budget from \$1M to \$450k**
 - **Postpone until ADMP data available**
- **CIP Stormwater budget is restructured to include FCDMC projects and small miscellaneous local projects**
- **Will Need Council Approval Before Dollars Expended**



RECOMMENDED STORMWATER SERVICES

Impact on CIP continued

	FY18	FY19	FY20	FY21	FY22
Town Mapping Effort		\$450,000			
Wash Culvert Extension McDonald Drive	\$205,000				
52 nd Street Stormwater Improvements	\$100,000				
FCD LIBW Cheney Improvements Alt 1 ¹		\$1,500,000	\$6,000,000		
FCD LIBW PV Wash Improvements Alt 3 ^{1,2}					
FCD LIBW Invergordon Improvements Alt 1 ¹				\$1,300,000	\$5,200,000
FY Total	\$305,000	\$1,950,000	\$6,000,000	\$1,300,000	\$5,200,000
Town Total	\$305,000	\$1,200,000	\$3,000,000	\$650,000	\$2,600,000

1 - 50% cost share with FCD

2 – Fiscal Year 23 and 24 (\$11.8M total, \$5.9M town)



April 13th, 2017

RESOLUTION 2017-08

SECTION 1. The Town of Paradise Valley will:

- provide storm water data and information available to it concerning the 100 year, 2 hour storm event to property owners;
- participate in National Flood Insurance Program such that property owners have the ability to purchase federally backed flood insurance;
- regulate development to mitigate the impacts of storm drainage;
- budget for small (i.e. under the Capital Improvement Program financial threshold) flood control projects that benefit two or more Paradise Valley parcels and seek cost sharing opportunities for these or other storm water management projects; and,
- consider cost-benefit analysis for all proposed projects.



RESOLUTION 2017-08

SECTION 2. In order to accomplish the policy objective articulated in Section 1, the Town shall periodically develop, update and share information, including maps, showing the location, flows, and depths of storm waters associated with the 100 year, 2 hour storm event in each of the Town's six watersheds.

SECTION 3. In order to accomplish the policy objective articulated in Section 1, the Town shall be a member in good standing in the National Flood Insurance Program.



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RESOLUTION 2017-08

SECTION 4. In order to accomplish the policy objective articulated in Section 1, the Town shall adopt and periodically update a Storm Drainage Design Manual that provides regulatory and design parameters for new construction in Paradise Valley.

SECTION 5. In order to accomplish the policy objective articulated in Section 1, the Town may budget for small (i.e. under the Capital Improvement Program financial threshold) flood control projects that benefit two or more Paradise Valley parcels. The Town will seek cost sharing opportunities for these and other storm water management projects.



RESOLUTION 2017-08

SECTION 6. In order to accomplish the policy objective articulated in Section 1, the Town may participate in the study of regional storm water analyses, design and construction projects when the cost to benefit information is deemed appropriate by the Town Engineer, Town Manager and Mayor and Town Council.



April 13th, 2017

KEY QUESTION

- Does the proposed Resolution reflect the Mayor & Council's policy choice?
- Are the edits or corrections to the Resolution?



RESOLUTION 2017-08

Questions?

April 13th, 2017

