



Thunderbird Paseo Park Flood Response Actions

Compliance with this instruction is mandatory.

Glendale Emergency Management
Supersedes:
Thunderbird Paseo Park Flood Response Actions
August 2015 Version

Approved:
Original Signed
Nicole Munson, Emergency Manager
Pages: 12

This instruction implements Maricopa County Flood Control District Thunderbird Paseo Park Flood Response Plan.

Summary of Changes:

April 2015:

Phone numbers and websites updated to reflect current information.
City organization and department positions updated to reflect current information.
Table of contact information summarized at end of document.

August 2015:

Contact information updated to reflect current information.

May 2022:

Contact information updated to reflect current information.

May 2023:

Contact information updated to reflect current information. Additionally, SOP guidance was updated to reflect current organizational roles and responsibilities within the City of Glendale. Full document formatting update.

May 2024:

Contact information updated to reflect current information. Verified phone numbers and updated department titles to reflect current organizational chart changes. Added the City of Glendale Transportation Department as there are identified actions for their staff.

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I. SITUATION

Thunderbird Paseo Park is located within the City of Glendale, Arizona. The park operates from sunrise to sunset and lies within and along the north side of the Arizona Canal Diversion Channel (ACDC) from 51st Avenue and Cactus Northwest to 73rd Ave and Greenway, with trail heads located off the parking lots located at 67th Ave and 59th Ave. (**Figure 1**). The park was constructed by the City of Glendale after this reach of the ACDC was completed.

Because Thunderbird Paseo Park is located in the bottom of a large regional drainage channel, it is vulnerable to periodic flooding. There are two types of flooding which could pose a threat to occupants within the park during active flooding. First, general flooding of the ACDC occurs from runoff generated by large areas upstream of Thunderbird Paseo Park. Second, localized flooding from adjacent neighborhoods can occur near flood control structures that drain to the ACDC from the neighborhoods. These two situations are described in further detail below.

- A. General ACDC Flooding.** During major storms, runoff from the northern areas of Phoenix and Paradise Valley enters the ACDC via large upstream washes. Large volumes of water may enter the ACDC and flood the channel. This creates a flood threat along the entire length of Thunderbird Paseo Park (**See Figure 1**).
- B. Localized Flooding at Drainage Structures.** Many structures along the north side of the ACDC discharge directly into it. Many are small, and because of their size are not considered to pose imminent danger to passersby. However, a few are very large and may pose a localized threat to people in the vicinity of the structure.
- C. Potential Flood Vulnerability Locations.** Areas of anticipated flooding, that are also likely to draw people because of nearby park facilities, are potential flood hazards. These areas are described in **Figure 2** and **Table 1**.

II. PURPOSE

To provide local notification of impending flood threat to residents within Thunderbird Paseo Park, emergency response to flooding, and expeditious recovery from flooding that would cause conditions hazardous to life and property within the Park.

III. EXECUTION

A. Concept of Operations

1. The National Weather Service (NWS) issues weather statements, watches, and warnings to governmental agencies and to the general public.
2. The Flood Control District (FCD) of Maricopa County operates and monitors a network of automated precipitation gauges, stream gauges, and weather stations in Maricopa County, Arizona, including locations within the City of Glendale.
3. Information collected by the NWS and the FCD may be helpful to the City of Glendale in identifying a potential flood situation in Thunderbird Paseo Park.

4. Upon notification by the NWS and/or the FCD, the City of Glendale can reduce the risk of loss of life and property by alerting park users of a flood threat and committing available resources to mitigate potential flood damage.

B. Notification

The FCD is the primary agency in the notification process for flood issues relating to Thunderbird Paseo Park. FCD monitors a series of stream gauges along the ACDC to alert the city of potential flood conditions. The main gauge is located at ACDC @ 43rd Ave, approximately 2.4 miles upstream from the park.

When water flow at the gauge exceeds 200 cubic feet per second, FCD will notify the On Duty Glendale Police Communications Supervisor. At this speed, it will take the water approximately 1 hour to reach the park.

C. Alert Responsibilities

Upon notification by FCD of an alarm at the ACDC @ 43rd Ave Gauge, these agencies/personnel will take the following actions:

1. Police Communications Supervisor

- FCD to notify the primary contact, Glendale On Duty Police Communications Supervisor at [REDACTED]. If unavailable, notify the Glendale Emergency Management (GDEM) Duty Officer at [REDACTED].
- Whoever takes the call should then contact the Park Superintendent and/or the On Duty Park Ranger. If after midnight, dispatch a Police Patrol Unit.

The unit should:

- Instruct patrons at the Park to leave immediately.
 - Secure both parking lots at 67th Ave South of Greenway and 59th Ave and Thunderbird Avenue.
 - Erect barricades at trailheads located at 55th Avenue and Sweetwater, and 61st Avenue and Hern Rd.
 - Report to the Police Communications Supervisor any water in the ACDC and/or significant floodwaters entering the Park from local storm drains.
 - Move to higher ground once patrons are notified.
- Monitor incoming information from FCD, the NWS, and other sources of information, if available.
 - Pass updated information from FCD or the Glendale Emergency Management (EM) Duty Officer to responding units via radio or Mobile Data Computer (MDC).
 - If telephone communications are interrupted, access weather information provided by the FCD over the internet in 15-minute intervals. The internet address is: <https://alert.fcd.maricopa.gov/alert/Rain/prpt.txt>

- The FCD also has an interactive map that provides rainfall totals, gauge, streamflow, and impoundment data. The data display map updates its rainfall and streamflow in 5-minute intervals. The internet address is:
<https://alert.fcd.maricopa.gov/alert/Google/v3/gmap.html>
- In addition to other FCD websites, monitor the FCD Flood Gauge at ACDC @ 43rd Ave. The internet address is:
<https://alert.fcd.maricopa.gov/alert/Flow/11307.htm>
- A Glendale-specific interactive map is also available. The map updates in 5-minute intervals. The internet address is:
https://alert.fcd.maricopa.gov/php/Glendale_frp.php/?MP=Glendale_frp
- Coordinate with the Glendale EM Duty Officer as needed for activating the Emergency Operations Center (EOC) or providing additional emergency response.

2. Parks & Recreation

- When directed by the On Duty Police Communications Supervisor, dispatch Park staff to the park.
- Secure both parking lots at 67th Ave South of Greenway and 59th Ave and Thunderbird Avenue.
- Erect barricades at trailheads located at 55th Avenue and Sweetwater, and 61st Avenue and Hern Rd. Notify people within the park of the impending flood threat by means of a mobile Public Address system and instruct them to leave immediately.
- Report to the Police Communications Supervisor any water in the ACDC and/or significant floodwaters entering the Park from local storm drains.

3. Glendale Police Patrol Unit

- When directed by the On Duty Police Communications Supervisor, patrol Thunderbird Paseo Park.
- Notify people within the park of the impending flood threat by means of a mobile Public Address system and instruct them to leave immediately.
- Secure both parking lots at 67th Ave South of Greenway and 59th Ave and Thunderbird Avenue.
- Coordinate with Transportation to erect barricades at trailheads located at 55th Avenue and Sweetwater, and 61st Avenue and Hern Rd.
- Report to the On Duty Police Communications Supervisor any water in the ACDC and/or significant floodwaters entering the Park from local storm drains.

4. Glendale Emergency Management (EM) Duty Officer

- When notified by the On Duty Police Communications Supervisor of the flood threat, contact the Emergency Manager. If notification is received direct from FCD, confirm the On Duty Police Communications Supervisor has received notification of the flood threat.
- Monitor incoming weather information from the NWS, the FCD, and other sources of information, if available.
- Monitor the Special Flood Vulnerability Areas identified in Table 1 and report any flood concerns to the participating departments.
- In addition to other FCD websites, monitor the FCD Flood Gauge at ACDC @ 43rd Ave. The internet address is:
<https://alert.fcd.maricopa.gov/alert/Flow/11307.htm>
- Report changes in gauge information to the On Duty Police Communications Supervisor and Emergency Manager.
- Review the City of Glendale Emergency Operations Plan for additional guidance and direction.
- Make notifications to the following as directed by the Emergency Manager and/or Duty Officer:
 - Glendale Fire Chief
 - Glendale Fire Public Information Officer (PIO)
 - Glendale Police Chief
 - Glendale Police Public Information Officer (PIO)
 - Director of Transportation
 - Director of Parks and Recreation
 - Director of Communications
- Make preparations to activate the EOC as directed.
 - i. Thresholds:
 1. First Alarm 4.0ft
 2. Second Alarm 6.37ft
 3. Evacuate Channel 6.9 ft

5. Transportation

- Provide current road information in and around Thunderbird Paseo Park to the On Duty Police Communications Supervisor at [REDACTED]. If unavailable, notify the Glendale Emergency Management (EM) Duty Officer at [REDACTED].
- Assist the Police Department in traffic and area control.

- Provide barricades to the Police Department if needed.

D. All Clear Responsibilities

Upon notification by the NWS or the FCD that a flood threat has ended, the following tasks shall be performed:

1. Police Communications Supervisor

- Contact the Parks Superintendent to verify that a flood threat no longer exists along the length of Thunderbird Paseo Park, or, if after hours, dispatch a police unit.
- If a flood threat no longer exists, notify the Emergency Manager and all other departments involved of the ALL CLEAR status.

2. Parks & Recreation

- When directed by the On Duty Police Communications Supervisor, the Parks Superintendent will dispatch Park Staff to patrol Thunderbird Paseo Park to verify that the flood threat has ended.
- Patrol the Thunderbird Paseo Park from the parking lots at 67th Ave South of Greenway and 59th Ave and Thunderbird Avenue and trailheads located at 55th Avenue and Sweetwater, and 61st Avenue and Hern Rd. and report observations to the On Duty Police Communications Supervisor.
- Assess any damage to the park and report information to the Glendale EM Duty Officer or EOC.
- Determine the park's safety and fitness for reopening.
- When directed, return to normal operations.

3. Glendale Police Patrol Unit

- When directed by the On Duty Police Communications Supervisor, patrol Thunderbird Paseo Park to verify that the flood threat has ended.
- Patrol the parking lots at 67th Ave South of Greenway and 59th Ave and Thunderbird Avenue and trailheads located at 55th Avenue and Sweetwater, and 61st Avenue and Hern Rd. and report observations to the On Duty Police Communications Supervisor.
- Assess any damage to the park, and report information to the Glendale EM Duty Officer or EOC, if activated.
- When directed, return to normal operations.

4. Glendale Emergency Management (EM) Duty Officer

- When notified by the On Duty Police Communications Supervisor of the ALL CLEAR relating to the flood threat, update the Emergency Manager. Or notify the Police

Communications Supervisor of the ALL CLEAR status and update the Emergency Manager.

- Continue to monitor incoming weather information from the NWS, the FCD, and other sources of information, if available.
- Continue to monitor the Special Flood Vulnerability Areas identified in Table 1 and report any flood concerns to the participating departments.
- Continue to monitor the FCD Flood Gauge at ACDC @ 43rd Ave. The internet address is:
<https://alert.fcd.maricopa.gov/alert/Flow/11307.htm>
- Report changes in gauge information to On Duty Police Communications Supervisor and Emergency Manager.
- If necessary, activate the Damage Assessment Teams and/or Debris Management Teams, as directed by the Emergency Manger.
- Make notifications of the ALL CLEAR to the following, as directed by the Emergency Manager:
 - Glendale Fire Chief
 - Glendale Fire Public Information Officer (PIO)
 - Glendale Police Chief
 - Glendale Police Public Information Officer (PIO)
 - Director of Transportation
 - Director of Parks and Recreation
 - Director of Communications
- When directed, deactivate the EOC and return to normal operations.

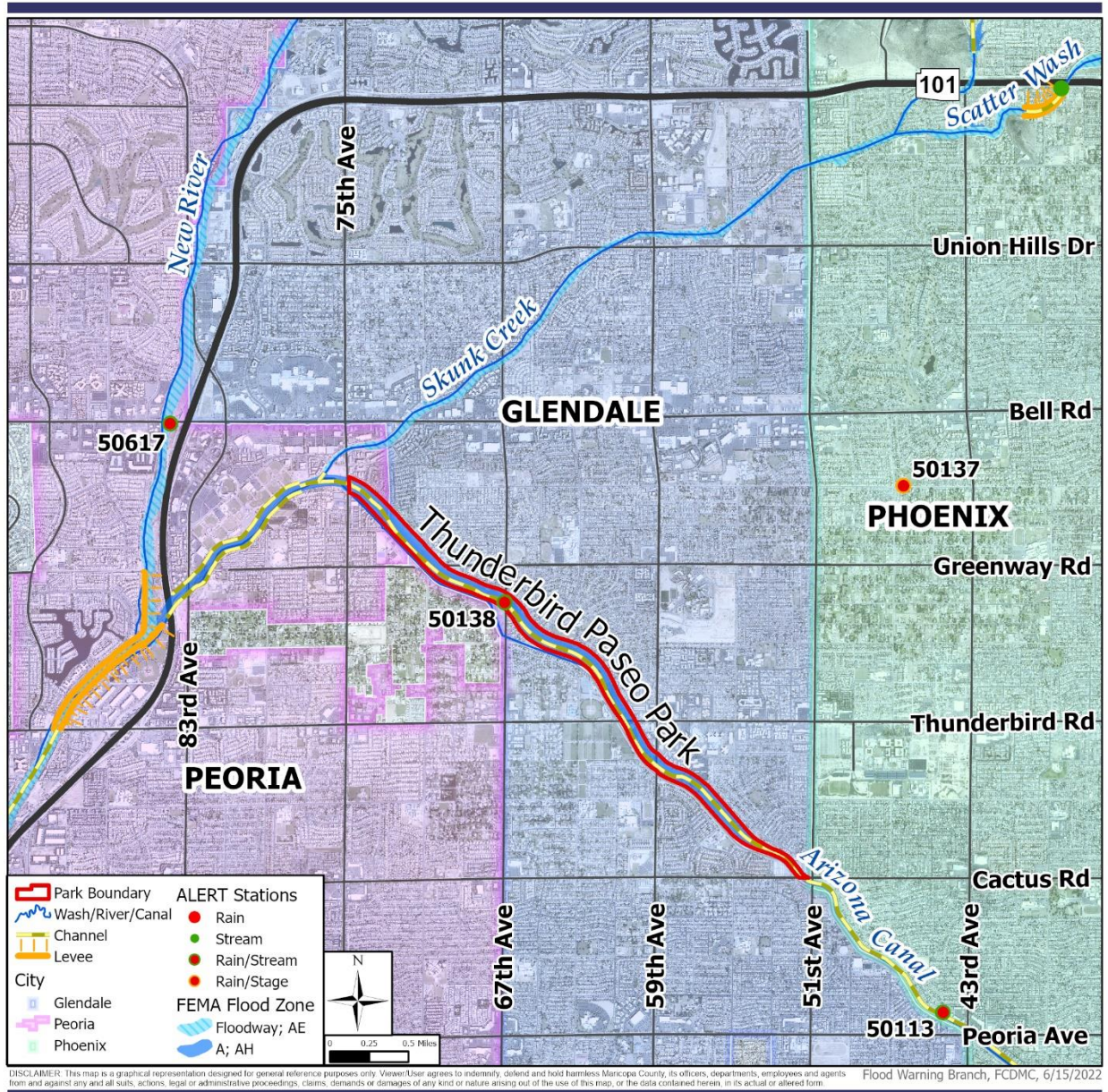
5. Transportation

- Provide current road information in and around Thunderbird Paseo Park to the On Duty Police Communications Supervisor at [REDACTED]. If unavailable, contact the Glendale EM Duty Officer at [REDACTED].
 - When directed, provide debris clearance and removal within Thunderbird Paseo Park and adjacent city streets.
 - Remove any barricades, except as needed to barricade hazardous areas.
 - When directed, return to normal operations.
-

IV. PARK FIGURES AND TABLES

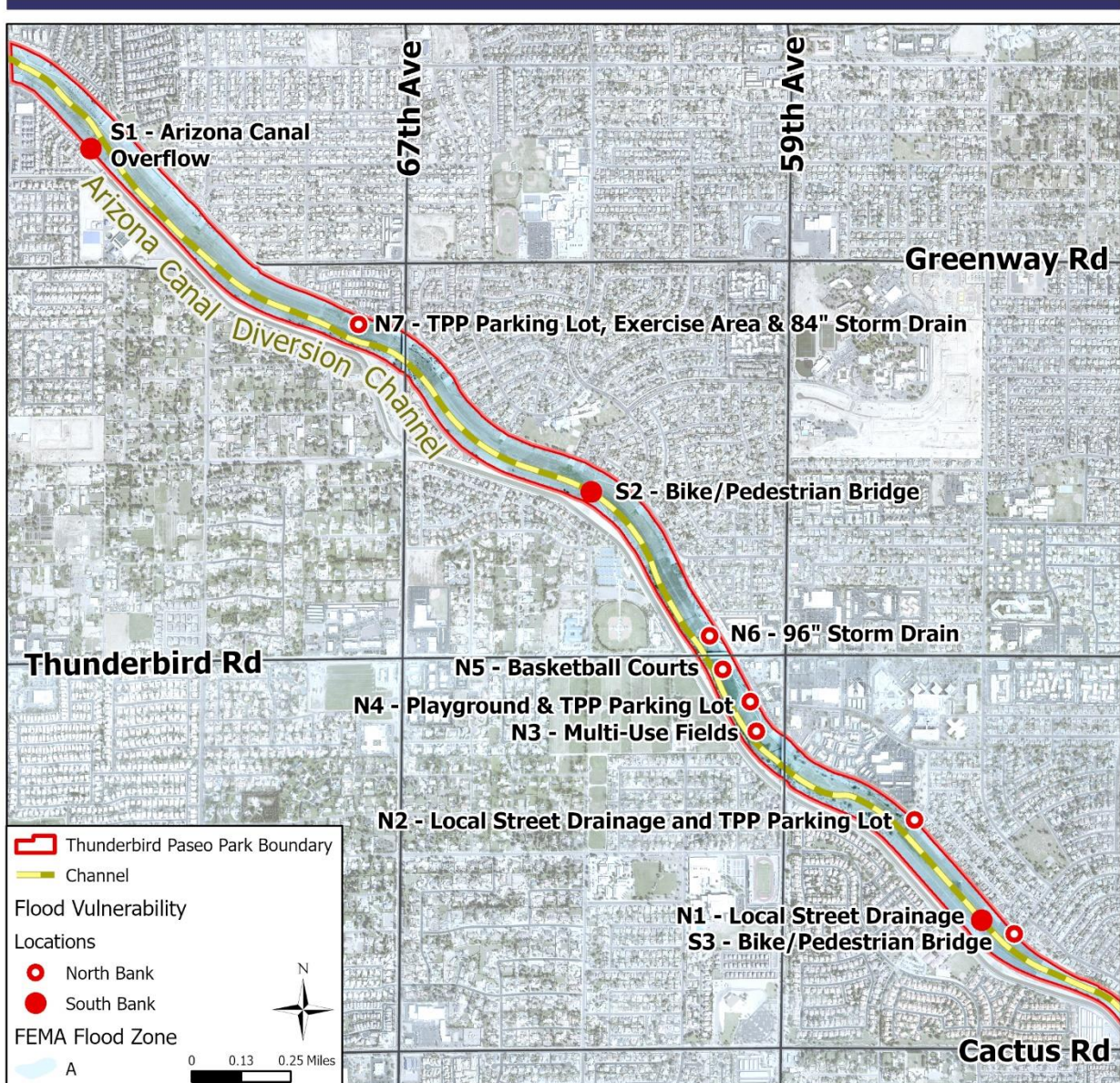
A. Park Location Map (Figure 1)

Figure 1
Thunderbird Paseo Park FRP
Location Map



B. Locations of Flood Vulnerability (Figure 2)

Figure 2
Thunderbird Paseo Park FRP
Locations of Flood Vulnerability



DISCLAIMER: This map is a graphical representation designed for general reference purposes only. Viewer/User agrees to indemnify, defend and hold harmless Maricopa County, its officers, departments, employees and agents from and against any and all suits, actions, legal or administrative proceedings, claims, demands or damages of any kind or nature arising out of the use of this map, or the data contained herein, in its actual or altered form.

Flood Warning Branch, FCDMC, 6/15/2022

C. Locations of Special Flood Vulnerability

Table 1
Locations of Special Flood Vulnerability

North Bank

| | |
|-----|---|
| N-1 | Concrete swale with grouted riprap conveys stormwater from adjacent Sweetwater Avenue to ACDC. |
| N-2 | Grouted riprap for adjacent parking lot and street drainage, and local small channel. |
| N-3 | Thunderbird Paseo Park does not have a volleyball court. |
| N-4 | Playground in the channel bottom along the north bank. |
| N-5 | Basketball courts in the channel bottom downstream (southeast) of the Thunderbird Road bridge. |
| N-6 | 96-inch diameter reinforced concrete storm drain pipe. |
| N-7 | 84-inch diameter reinforced concrete storm drain pipe; Street-level parking; Passive exercise area in channel bottom. |

South Bank

| | |
|-----|--|
| S-1 | Large 25-foot wide gated structure with energy dissipaters that connect with the Arizona Canal. |
| S-2 | Pedestrian bridge over the Arizona Canal. Sidewalk traverses channel bottom and provides access from the south side of the ACDC. |
| S-3 | Pedestrian bridge over the Arizona Canal. Sidewalk to channel bottom provides access from the south side of the ACDC. |

V. CONTACT INFORMATION

| Glendale (City of) Last updated 3/2024 | | |
|---|---|---------------------|
| Organization/Title | Name | Contact Information |
| Police Department | On Duty Communications Supervisor *Primary Contact* | [REDACTED] |
| | Non-Emergency Main Dispatch | [REDACTED] |
| | Chris Briggs, Police Chief | [REDACTED] |
| | Michaelanne Acree, Police Technical Services Administrator | [REDACTED] |
| | Myla Marovich, Police Communications Manager | [REDACTED] |
| Fire Department | Ryan Freeburg, Fire Chief | [REDACTED] |
| | Tim Pirtle, Assistant Fire Chief | [REDACTED] |
| Parks & Recreation | On Duty Park Ranger | [REDACTED] |
| | Caitlin Biliske, Park Ranger Supervisor | [REDACTED] |
| | Sam Chiovari, Park Superintendent | [REDACTED] |
| | John Kennedy, Director | [REDACTED] |
| Emergency Management | Duty Officer *Secondary Contact* | [REDACTED] |
| | Nicole Munson, Emergency Manager | [REDACTED] |
| | Madison Rybicki, Emergency Management Specialist (primary contact for contact updates) | [REDACTED]* |
| Transportation | Purab Adabala, Deputy Director | [REDACTED] |
| Communications | Sue Breeding, Director | [REDACTED] |
| | Jose Santiago, Public Safety Media/Communications Program Manager | [REDACTED] |
| Intergovernmental Programs | Ryan Lee, Director | [REDACTED] |