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**FLOODING IN  
EAST MARICOPA COUNTY**

**AUGUST 1988**

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This report was prepared by Shanna Yager and myself. We performed a field trip on August 30, 1988 to collect data for a Flood Control District study.

Besian Khatiblou

Filed under: "Upper East Maricopa Flooding" - 32

## A REPORT ON THE AUGUST 1988 RAIN

On August 27, 28 and 29 of 1988, we had part of our monsoon seasonal rain which developed some flooding all over Maricopa County, specifically in the north and northeast portion of the county. Our computer data center has recorded the following information (the following information reflects only the areas of our concern):

MARICOPA COUNTY FLOOD CONTROL DISTRICT  
PRECIPITATION DATA (August 27, 28 and 29, 1988)

<u>Sta. I.D.</u>	<u>Name</u>	<u>Location</u>	<u>Precip. In.</u>
5600 .....	Rittenhouse .....	S35T1SR9E .....	1.34
5605 .....	King's Ranch .....	S33T1NR9E .....	0.79
5610 .....	Vineyard Dam .....	S9T1SR8E .....	0.00
5615 .....	Queen Creek/Rittenhouse .....	S10T25R7E .....	0.28
5620 .....	Usery Mountain, North .....	S26T2NR7E .....	0.70
5625 .....	Usery Mountain, South .....	S1T1NR7E .....	1.22
5630 .....	Signal Buttes Dam .....	S35T1NR7E .....	1.10
5635 .....	Microwave Tower .....	S28T2NR7E .....	0.63
5640 .....	Bulldog Floodway .....	S5T1NR8E .....	0.24
5645 .....	Spookhill Dam .....	S31T2NR7E .....	0.83
1103 .....	.....	S19T1NR8E .....	0.11
1018 .....	.....	S8T1NR8E .....	1.30
1029 .....	.....	S5T1NR8E .....	0.40

Based on information from the FCD computer data center, we did not expect to see any severe damages in the area. We were hoping to collect some field data that could be used in our studies. The following pictures and descriptions are the product of our August 30, 1988, field trip:



1a. Looking east, Bulldog Floodway at Signal Butte Dam.



1b. Looking east, Bulldog Floodway at Signal Butte Dam.

Pictures 1a and 1b are showing the Bulldog Floodway where it receives the discharges from Apache Junction Dam into the Signal Butte Dam (East of Meridian Dr. north of Brown Rd). This structure, as part of the Buckhorn-Mesa flood retarding structures, is still under construction and is expected to be completed soon. As it shows, there is approximately one foot of water ponding at this point. But, there is no ponding at Signal Butte Dam. The ponding area in the pictures is designed to be covered by riprap construction as part of Bulldog Floodway construction.



3a. Vinyard Rd. dam, 4.50 feet of water is stored.



3b. Rittenhouse dam, 4.0 feet of water is stored.



2. Looking east, Ironwood Rd. ditch, crossing Ironwood road north of 16th Avenue. The depth of water from the water marks is approximately 1.5 feet.



- 4a. Warner Rd. ditch, looking east at Warner Rd. and Sossaman Rd. intersection. The water mark shows at approximately 2 feet deep. (See vicinity map)



4b. Sossaman Rd. ditch, looking north at Warner Rd. and Sossaman Rd. intersection. The water mark shows approximately 3.50 feet deep. (See vicinity map)



4c. Combine Sossaman/Warner Rd. ditch, looking west at Warner Rd. and Sossaman Rd. intersection. The water surface elevation is marked at approximately 4 feet deep. (See vicinity map)



5a. Elliot Rd. looking west, one of the two pipe inlets which collects the discharges coming from the north of Elliot Rd. and directs them west along Elliot Rd. Pipe #1 in the picture is blocked by an engine.



5b. Debris along the south side of Elliot Rd.



5b. Debris along the south side of Elliot Rd.

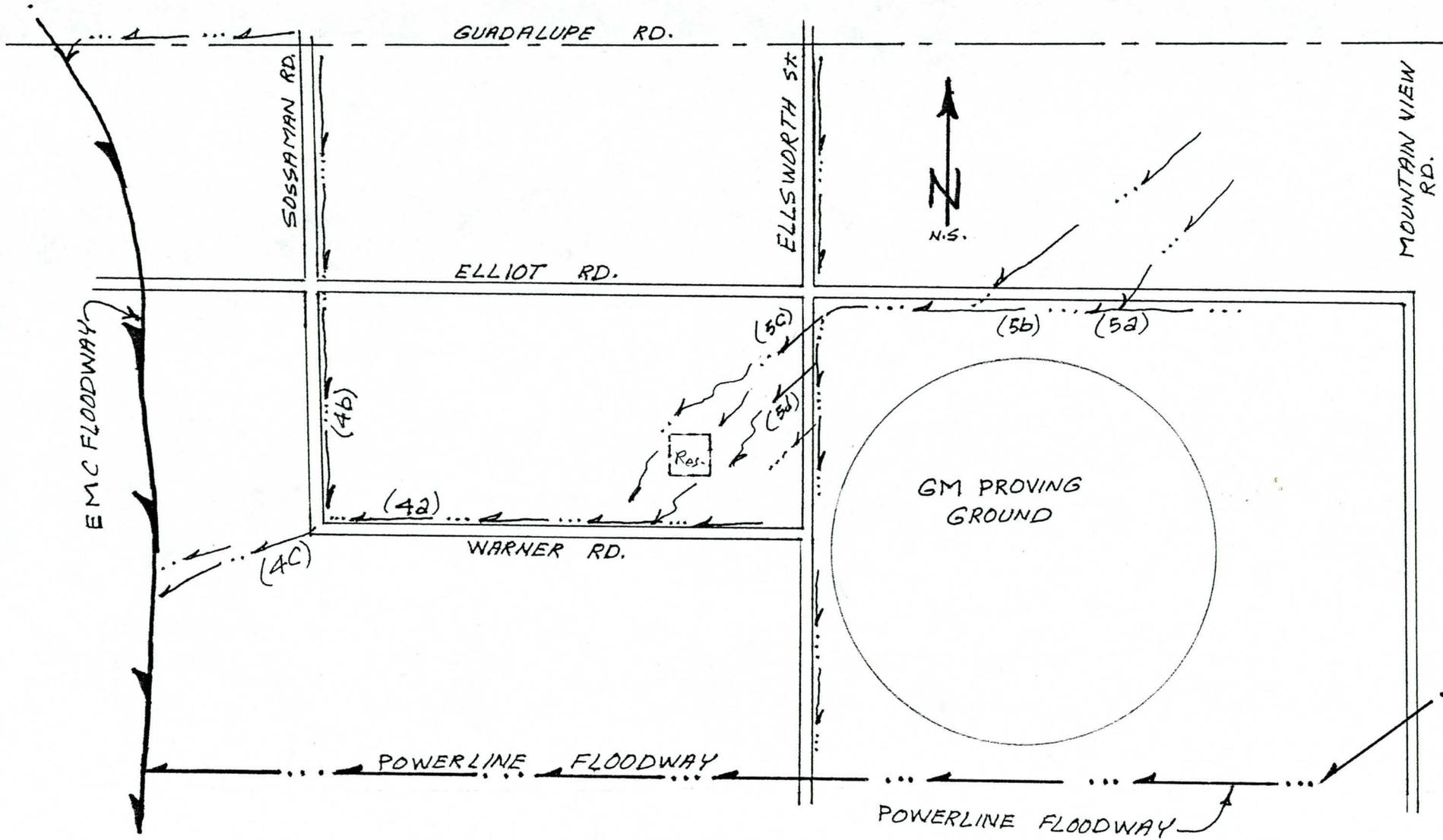
Elliot Rd and Ellsworth St. intersection had the worse flooding condition. GM has constructed a very high berm along Elliot Rd. and Ellsworth St. which discharges flows from the north of Elliot Rd. which is designed to be collected into a ditch on the south side of Elliot Rd. and directed westerly to the intersection and then cross Ellsworth St. in different locations for continuing in a southwesterly direction. There was no rain in this area of the county, based on our discussion with the residents. However, the residents were complaining about flooding problems that they are getting from runoffs crossing Ellsworth St. There was evidence of the carport being under a few inches of water. (See vicinity map)



5c. Looking south, Scours and debris along east side of Ellsworth Street, south of Elliot Rd. and Ellsworth Street intersection.



5d. Looking north, Scours and debris along east side of Ellsworth St., and south of Elliot Rd. & Ellsworth St. intersection (south of 5c).



VICINITY MAP

N.S.

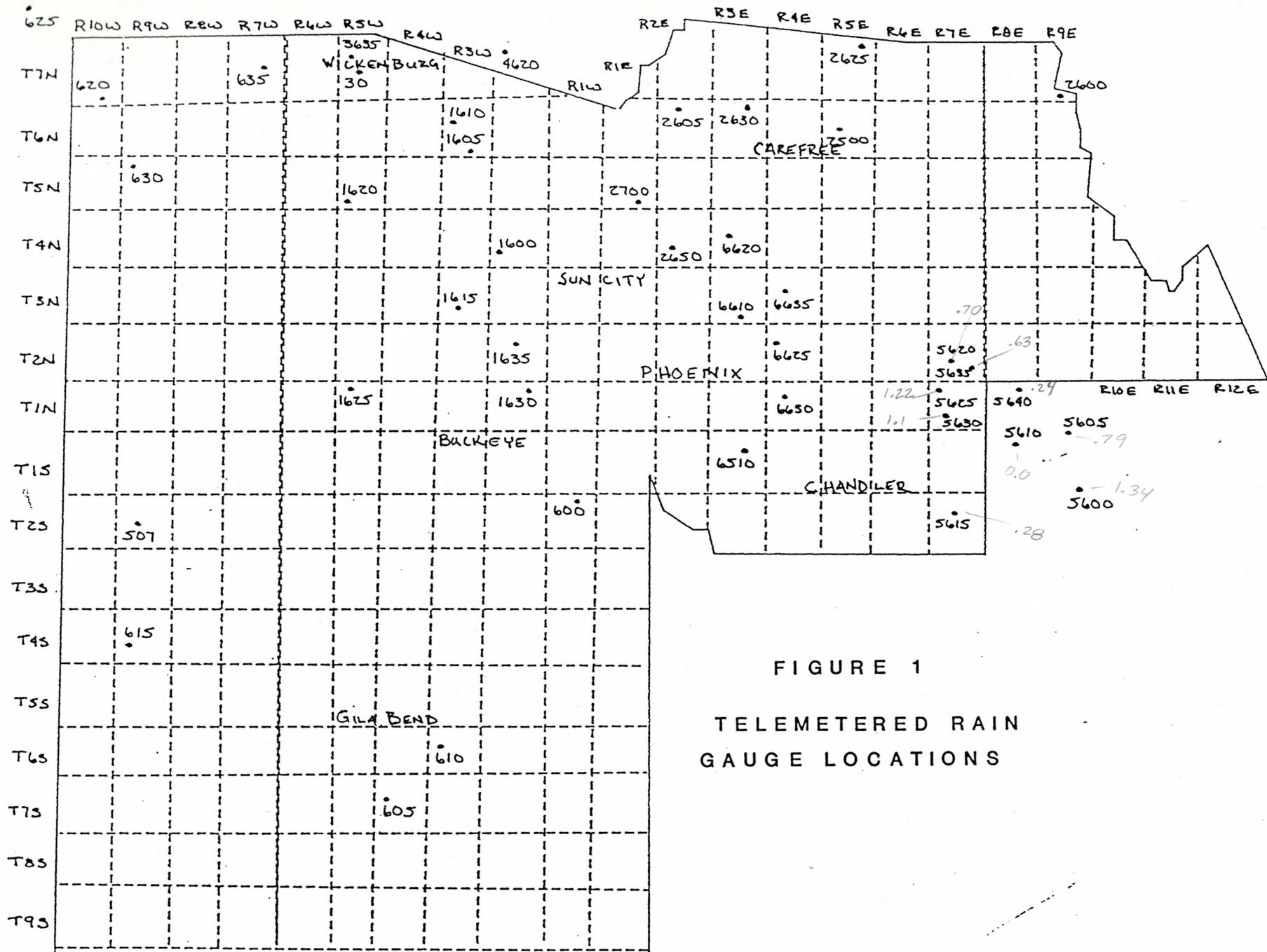


FIGURE 1  
 TELEMETERED RAIN  
 GAUGE LOCATIONS