

MARYVALE AREA DRAINAGE MASTER STUDY

HYDROLOGY

FCD #93-29

ADDENDUM

Prepared for:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

2801 West Durango
Phoenix, AZ 85009
(602) 506-1501

Prepared by:

WOOD, PATEL & ASSOCIATES, INC.
1550 East Missouri Avenue, Suite 203
Phoenix, AZ 85014
(602) 234-1344



December, 1997
WP #94154.00

MARYVALE ADMS

WOOD/PATEL TRANSMITTAL

WP #94154

FCD #93-29

TO:

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CH2M HILL

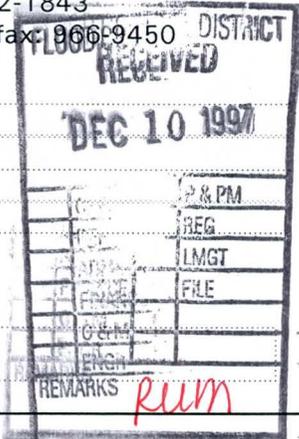
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FROM:

Ashok C. Patel, P.E.

DATE:

12/9/97

WE ARE SENDING YOU THE ATTACHED

- VIA FAX VIA MAIL
 VIA HAND DELIVERY

Copies	Date	Description
1	12/8/97	CD with HEC-1 input/output, Fig 5 & 6
3	"	Addendum to Hydrology Report, Maryvale ADMS

THESE ARE TRANSMITTED as checked below:

- For approval For your information/file _____
 For your use As requested For review and comment

Remarks:

please place this addendum in the front portion of
ADMS 3-Ring Binder dated Feb. 1997.
thanks!

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ADDENDUM

December 1997

Purpose

An error in diversion was discovered within Sub-Basin 26-31. It was found that the ID of "D2631N" had been used twice, which resulted in improper computation sequencing.

Modifications

To mitigate the error, the following corrections were made to the HEC-1 model from the Maryvale ADMS prepared in February, 1997.

The three separate locations within the HEC-1 data input file were corrected by replacing the "N" with a "W" as noted below:

KD2631E
KM SUB-BASIN DIVERSION
KM SUB-BASIN 26-31E
KM 35% NORTHWEST AND 65% SOUTHEAST
KM DIVERSION IS TO THE NORTHWEST
KM MAIN COMPUTATION PATH IS TO THE SOUTHWEST
DTD 2631N (Change "N" to "W")
DI 0 10000
DQ 0 3500

KKD26331N (Change "N" to "W")
KM RETRIEVAL OF SUB-BASIN DIVERSION
KM SUB-BASIN 26-31E
DRD2631N (Change "N" to "W")

Conclusion

The hydrologic impact of the error is relatively limited in both magnitude and extent. Digital copies of the corrected Exhibit 5 (sht. 1), Exhibit 6 (sht. 1), and HEC-1 input/output files are included with this Addendum.

Also included is a blueline copy of Exhibits 5 and 6.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MARYVALE AREA DRAINAGE MASTER STUDY "FCD CONTRACT # 93-29"

LEGEND

- ROAD/PAVEMENT
- RAILROAD
- INDEX CONTOUR
- 16-32 DRAINAGE SUB-BASIN BOUNDARY
- 16-32 SUB-BASIN I.D. NO.
- 100 COMPUTED PEAK DISCHARGE 100-YEAR 6-HOUR EVENT
- SURGE BASIN
- PONDING AREA

NOTE:
THE INDICATED PEAK DISCHARGES INCLUDE SURFACE FLOWS AND/OR FLOWS IN STORM DRAIN SYSTEMS.
THIS EXHIBIT SUMMARIZES THE COMPUTED PEAK DISCHARGES FOR THE 100-YEAR, 6-HOUR EVENT, THE HEC-1 OUTPUT FOR THE 10-YEAR, 6-HOUR; 100-YEAR, 6-HOUR; AND THE 100-YEAR, 24-HOUR EVENTS ARE PROVIDED IN APPENDIX K. THE RESULTS OF THE HEC-1 ANALYSES INDICATE THAT THE COMPUTED PEAK DISCHARGES FOR THE 100-YEAR, 24-HOUR EVENT ARE GREATER THAN THOSE CORRESPONDING TO THE 100-YEAR, 6-HOUR EVENT, AT SOME LOCATIONS.

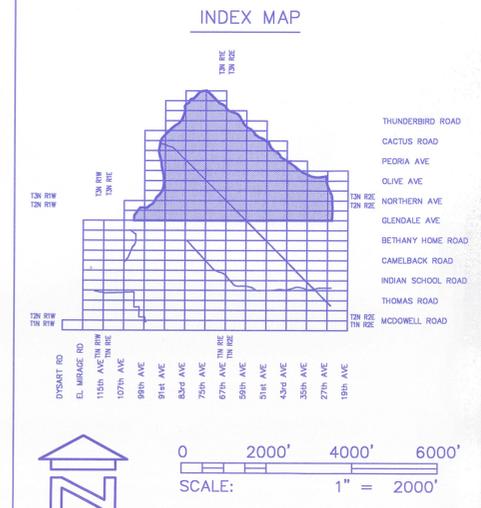
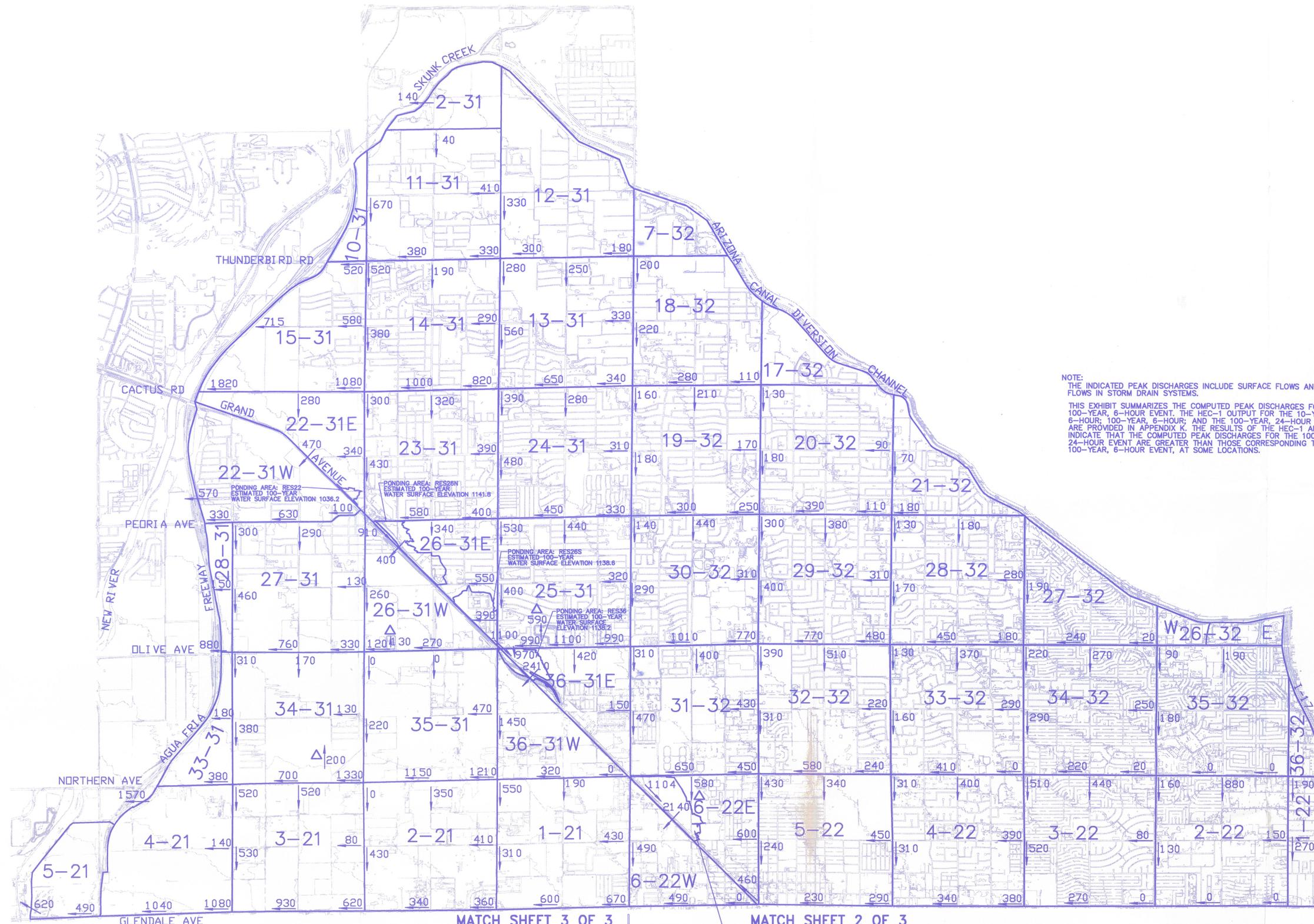


EXHIBIT 6
SUMMARY OF COMPUTED PEAK DISCHARGES:
100-YEAR 6-HOUR EVENT

CH2M HILL		WOOD / PATEL	
DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	-	-	RECOMMENDED BY: _____ DATE _____
PLANS	-	-	APPROVED BY: _____ DATE _____
PLANS CHK.	DWD	OCT 96	CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:	OCT 96	SHEET 1 OF 3

DEC 0 9 1997

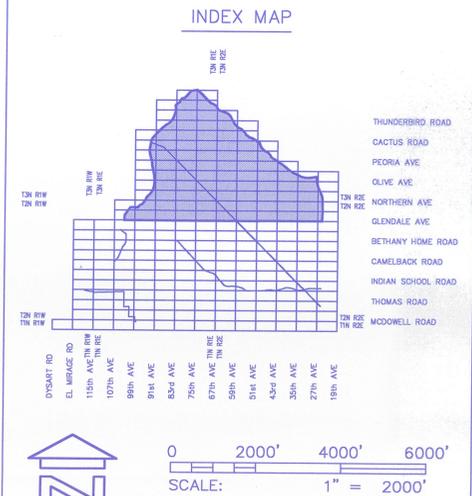
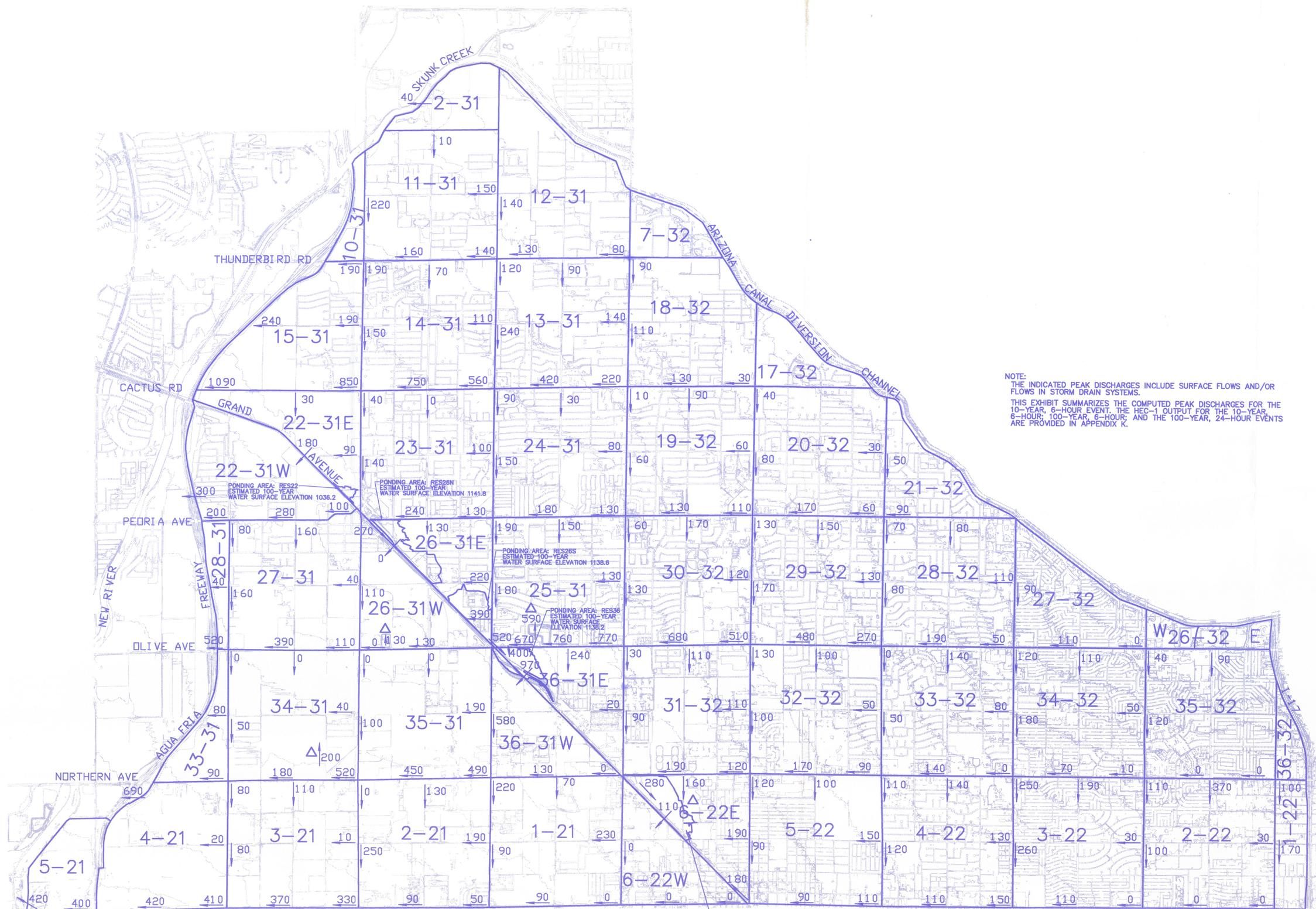
FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

MARYVALE
AREA DRAINAGE MASTER STUDY
"FCD CONTRACT # 93-29"

LEGEND

- ROAD/PAVEMENT
- RAILROAD
- INDEX CONTOUR
- DRAINAGE SUB-BASIN BOUNDARY
- SUB-BASIN I.D. NO.
- COMPUTED PEAK DISCHARGE
10-YEAR 6-HOUR EVENT
- SURGE BASIN
- PONDING AREA

NOTE:
THE INDICATED PEAK DISCHARGES INCLUDE SURFACE FLOWS AND/OR
FLOWS IN STORM DRAIN SYSTEMS.
THIS EXHIBIT SUMMARIZES THE COMPUTED PEAK DISCHARGES FOR THE
10-YEAR, 6-HOUR EVENT. THE HEC-1 OUTPUT FOR THE 10-YEAR
6-HOUR, 100-YEAR, 6-HOUR; AND THE 100-YEAR, 24-HOUR EVENTS
ARE PROVIDED IN APPENDIX K.



MATCH SHEET 3 OF 3

MATCH SHEET 2 OF 3

- 91st AVE
- 83rd AVE
- 75th AVE
- 67th AVE
- 59th AVE
- 51st AVE
- 43rd AVE
- 35th AVE
- 27th AVE

EXHIBIT 5
SUMMARY OF COMPUTED PEAK DISCHARGES:
10-YEAR 6-HOUR EVENT

CH2M HILL WOOD / PATEL

DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	-	-	
PLANS	-	-	RECOMMENDED BY: _____ DATE _____
PLANS CHK.	DWD	OCT 96	APPROVED BY: _____ DATE _____
SUBMITTED BY:	DATE: OCT 96		CHIEF ENGINEER AND GENERAL MANAGER
SHEET 1 OF 3			

DEC 09 1997