

**Paper Maps with Q's and  
FEMA Cross Section Letter  
Designation were also  
scanned and placed before  
the original mylars.**

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Neil S. Erwin, P.E., Chief Engineer and General Manager

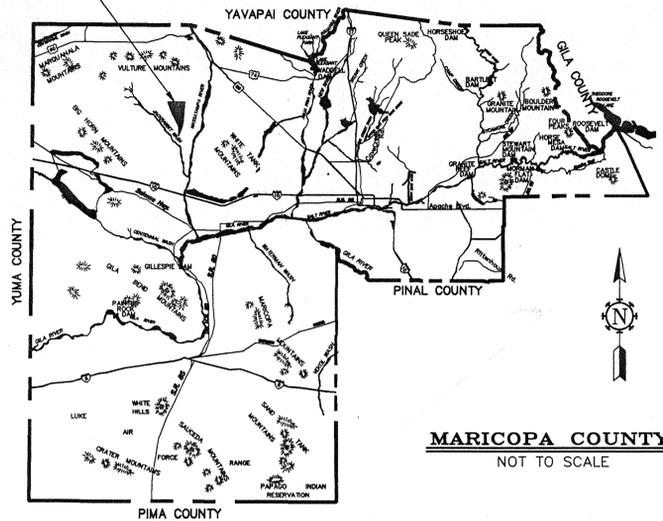
## STAR WASH AND TRIBUTARIES

Floodplain Delineation Study

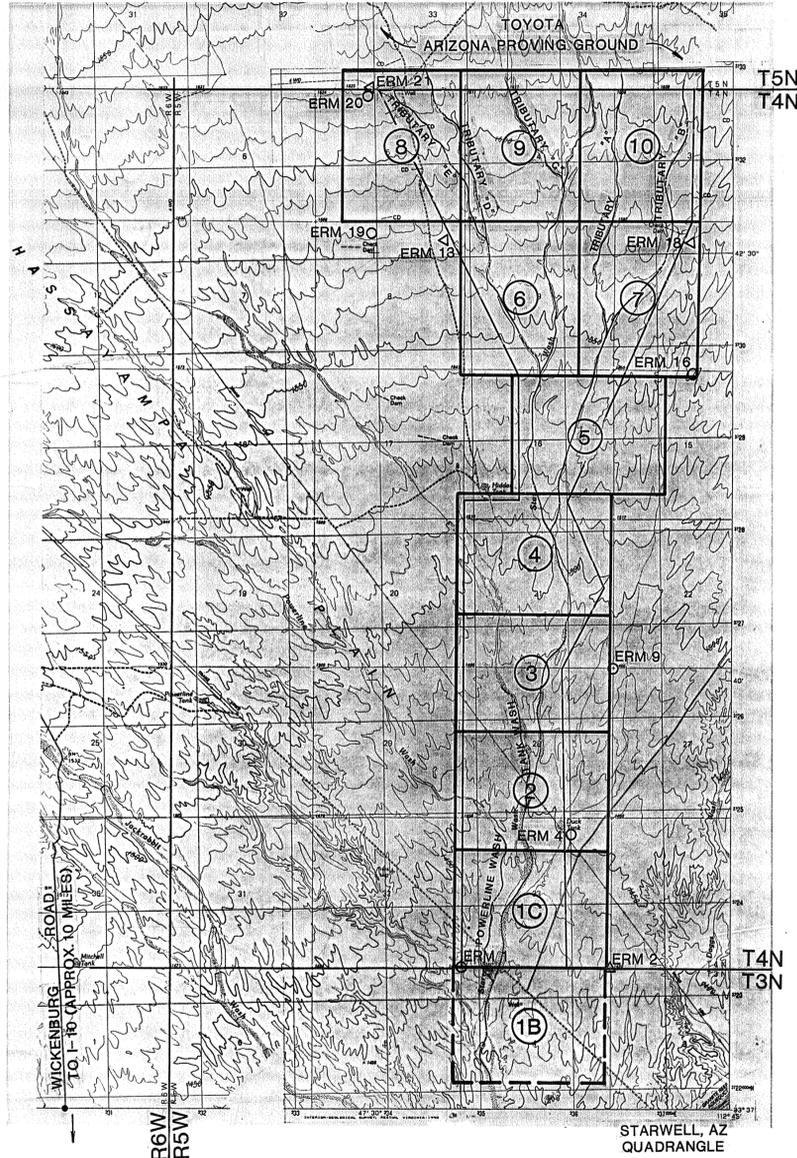
FCD 92-06



STUDY AREA



MARICOPA COUNTY  
NOT TO SCALE



**AERIAL MAPPING & VERTICAL CONTROL:**

Aerial Mapping Company, Inc.  
3141 West Clarendon Avenue  
Phoenix, Arizona 85017 (602) 263-5728

AMCI JOB #92155  
FLIGHT DATE: October 20, 1992  
CONTOUR INTERVAL: 2 Feet

**GROUND CONTROL:**

Project Engineering Consultants, Ltd. (Horizontal Control Only)  
3130 North 35th Avenue, Suite 1  
Phoenix, Arizona 85017 (602) 484-7691  
PEC Job # 92017,92019

**HYDROLOGY**

Burgess and Niple, Inc., FCD 90-05 (F.E.M.A. Approved)

**LEGEND**

Mapping Limits	---
Sheet Limits	---
Sheet Number	①
Section Corner (Found)	17 16 20 21
Quarter Corner (Found)	17 20
Section Corner	7 8 18 17
Quarter Corner	7 18
Elect Trans Tower	✕
Dirt Road	----

**CERTIFICATION**

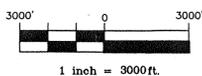
This is to certify that all work accomplished in the conduct of this Floodplain Delineation Study for Star Wash & Tributaries was done in accordance with FEMA 37 Document, "Flood Insurance Study, Guidelines and Specifications for Study Contractors", Federal Insurance Administration, March, 1991; and the General Provisions of Contract FCD 92-06 and all amendments thereto, together with all such modifications, either written or oral as the FCD Contracting Officer or their representatives have directed, as such modifications affect this Contract, and that all such work has been accomplished in accordance with sound and accepted engineering practice within the contract provisions for respective phases of the work.

*Ashok C. Patel*  
Ashok C. Patel, P.E., R.L.S.



**SHEET INDEX:**

- SHEET 1A Cover Sheet
- SHEET 1B Restudy, Boundary and Floodway Map
- SHEET 1C-10 Work maps



**DATUM**

HORIZONTAL: North American Datum of 1927  
VERTICAL: National Geodetic Vertical Datum of 1929

**FOUND**

GLO Brass Cap on 3" Iron Pipe, 1.2 Feet Above Ground, Stamped "SE COR SEC 32 T4N R5W", Elevation = 1434.540. (ERM 1)

**SUPPLEMENTAL ERM'S (SEE THIS SHEET FOR LOCATION)**

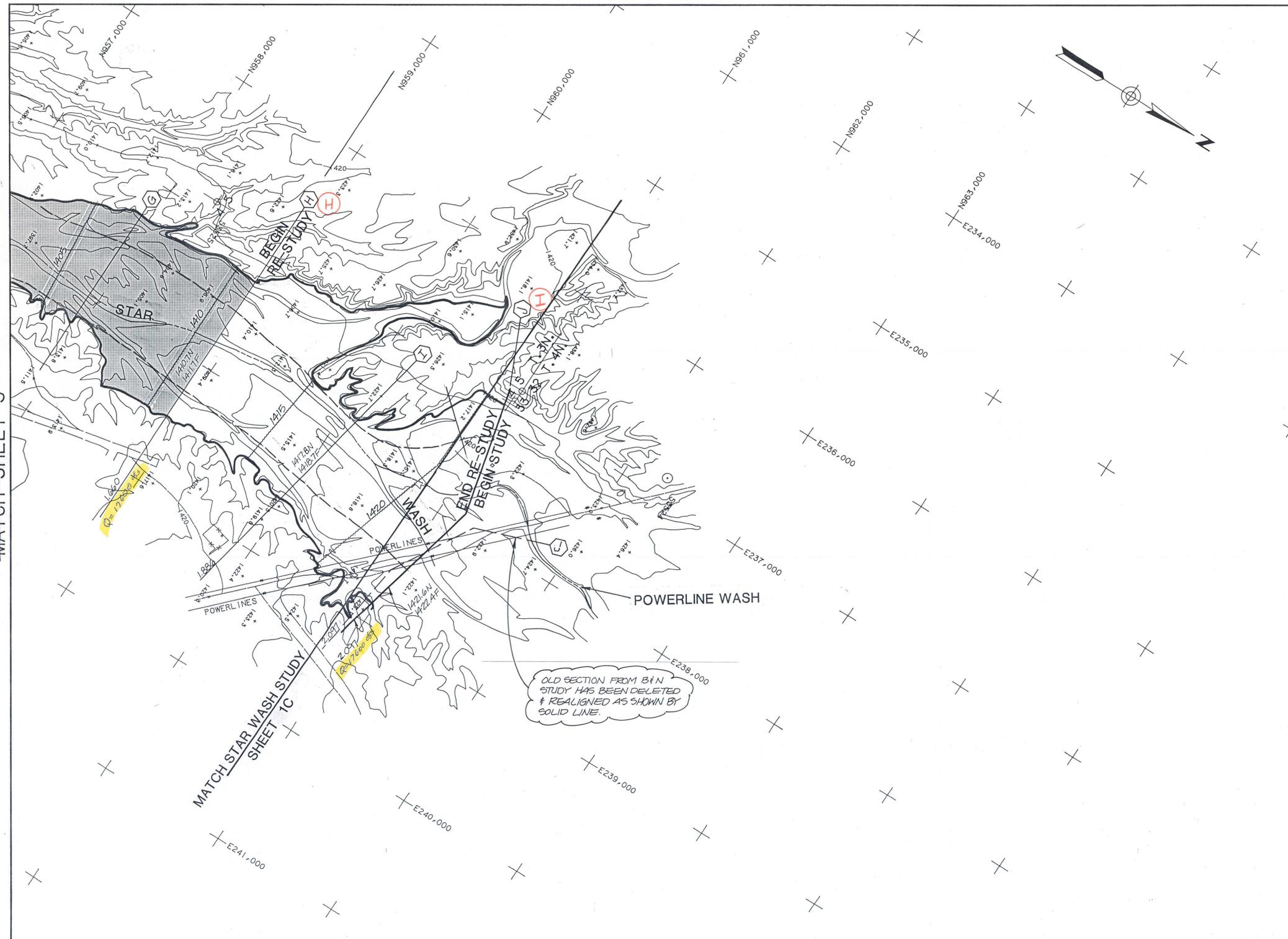
ID NUMBER	ELEVATION	DESCRIPTION/LOCATION
ERM 2	1429.71	GLO Brass Cap on 3" I.P., 1.1' above ground, Northeast Corner of Section 4 T3N R5W.
ERM 4	1451.32	Railroad Spike Set Flush, Approximately 800' Southeast on North 1/4 Corner of Section 33 T4N R5W.
ERM 9	1485.19	GLO Brass Cap on 2" I.P., Approximately 0.9' above ground, Northeast Corner of Section 28 T4N R5W.
ERM 13	1574.52	1/2" Rebar Approximately 0.15' above ground, Approximately 1000' Southwest Of Northeast Corner Of Section 8 T4N R5W.
ERM 16	1551.80	GLO Brass Cap On 3/4 I.P., Approximately 1.23' Above Ground, N 1/4 Of Section 15 T4N R5W.
ERM 18	1585.20	1/2" Rebar, Approximately 0.32' Above Ground, Approximately 800' South Of the North 1/4 Corner of Section 10 T4N R5W.
ERM 19	1578.59	1/2" Rebar, Approximately 0.09' Above Ground, Approximately 1000' WestSouthwest Of the North 1/4 Corner Of Section 8 T4N R5W.
ERM 20	1622.24	1/2" Rebar, Approximately 0.24' Above Ground, Approximately 30' South Of Southeast Corner Of Section 32 T5N R5W.
ERM 21	1622.62	GLO Brass Cap On 3" I.P., Approximately 0.40' Above Ground, Southeast Corner Of Section 32 T5N R5W.

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<b>EXHIBIT 2</b>			<b>WOOD, PATEL &amp; ASSOC., INC.</b> 1550 EAST MISSOURI, SUITE 203 PHOENIX, ARIZONA (602) 234-1344	
DESIGN	BY	DATE	<b>WORK MAP</b>	
DESIGN CHK.	J.G.T.	3/25/93	<b>COVER SHEET</b>	
PLANS	I.G.	3/25/93	RECOMMENDED BY:	DATE:
PLANS CHK.	A.C.P.	3/25/93	APPROVED BY:	DATE:
Date Revised: August 1993			FILE NAME: COVERSHT	SHEET
1 inch = 3000ft.			PROJ. # 92916.00	1A
			DATE: 4/5/93	1 of 10

STAR WASH & TRIBS

STAR WASH and TRIBS



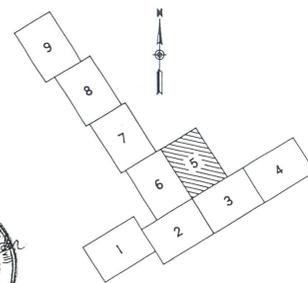
LEGEND:

- 100 YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- DISTANCE IN MILES UPSTREAM FROM MOUTH
- CROSS SECTION
- NATURAL ELEVATION FLOODWAY ELEVATION
- BASE FLOOD ELEVATION

(A) FEMA CROSS SECTION LETTER IDENTIFIER

**RE STUDY (LOMR)**  
 THE RE STUDY REACH IS UPDATED TO REFLECT CORRECT PEAK FLOWS, MORE ACCURATE FLOODPLAIN DELINEATION UPSTREAM OF SECTION "H", AND CORRECT LOCATION FOR THE POWERLINE WASH CONFLUENCE.

**NOTE:**  
 THIS WORK MAP IS REPRODUCED FROM THE PREVIOUSLY APPROVED FIS ON JACKRABBIT WASH. THIS RE STUDY UPDATES THE STUDY REACH BETWEEN SECTIONS "H" AND "J".



NO.	REVISIONS	DATE	BY	CHK.

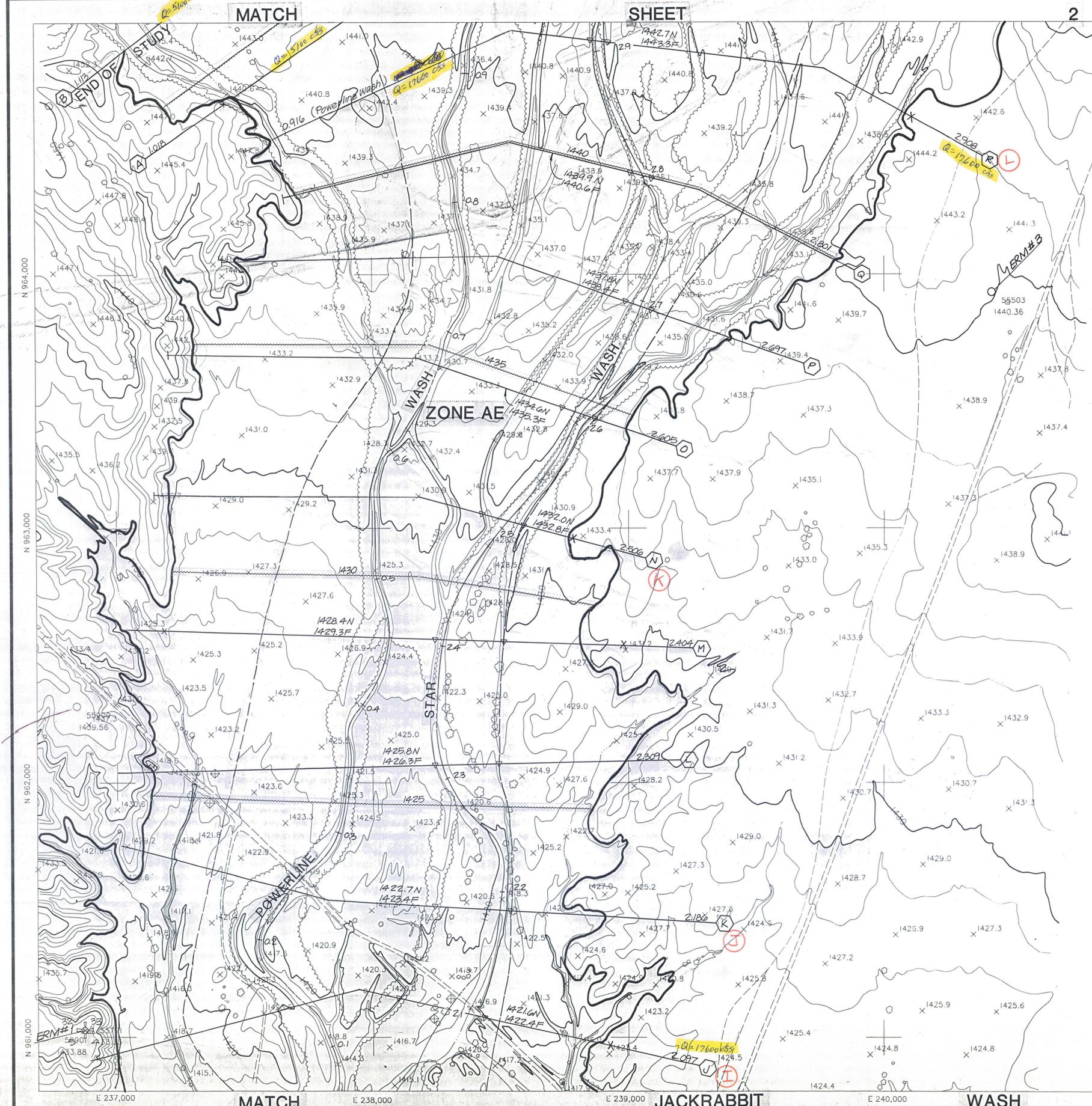
**Burgess & Niple, Inc.**  
 Engineers and Architects  
 Akron, OH • Cincinnati, OH • Columbus, OH • Crestview Hills, KY  
 Peineville, OH • Parkersburg, WV • Payson, AZ • Phoenix, AZ



**JACKRABBIT WASH FLOODPLAIN DELINEATION STUDY**  
 FCD 90-05  
 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CONTOUR INTERVAL-2 FEET  
 JOB NO. 10310  
 DESIGNED BY: JEM  
 DRAWN BY: AK / CEU  
 CHECKED BY: JEM  
 APPROVED BY:  
 DATE: JUNE-91

SCALE: 0 200 400  
 SCALE IN FEET  
**BASE MAP**  
 SHEET NO. 5 OF 9



**100-YEAR FLOODPLAIN DELINEATION SUMMARY OF DISCHARGES**

FLOODING SOURCE	REACH	DISCHARGE (cfs)
Star Wash	River Mile 1.660 to 2.908	17,800
	River Mile 3.002 to 3.897	13,900
	River Mile 3.998 to 6.308	10,700
	River Mile 6.400	7,200
	River Mile 6.509 to 6.964	4,700
	River Mile 7.062 to 7.442	4,800
River Mile 7.541 to 7.797	4,900	
River Mile 7.900 to 8.571	3,200	
Powerline Wash	River Mile 1.018 to 1.113	5,100
Tank Wash	River Mile 0.749 to 0.980	6,600
Tributary "A"	River Mile 1.104 to 1.580	8,700
	River Mile 1.692 to 3.279	6,000
Tributary "B"	River Mile 0.096 to 1.933	4,000
Tributary "C"	River Mile 0.087 to 0.789	2,600
Tributary "D"	River Mile 0.083 to 2.242	3,300
Tributary "E"	River Mile 0.373 to 0.778	2,000
	River Mile 0.885 to 1.277	3,000

**(A) = FEMA CROSS SECTION LETTER DESIGNATION**

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
**FLOOD DELINEATION STUDY OF**

**STAR WASH & TRIBUTARIES**  
**FCD 92-06**

**LEGEND**

- 100-Year Floodplain Boundary
- Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

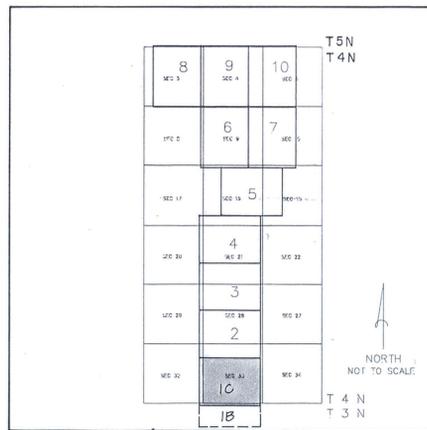
**ELEVATION REFERENCE MARKS**  
 NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #1	1434.54	This station is located approximately 20 +/- miles south of Wickburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLO Brass Cap on 3" I.P. 1.2' above ground located at the southeast corner of section 32, T4N, R5W.
ERM #2	1429.71	This station is located approximately 20 +/- miles south of Wickburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLO Brass Cap on 3" I.P. 1.1' above ground located at the northeast corner of section 4, T4N, R5W.
ERM #3	1440.21	This station is located approximately 20 miles +/- to the intersection of the Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.08' above ground located at approximately 800' east of the center of section 33, T4N, R5W approximately 200' west of dirt road.

**NOTES**

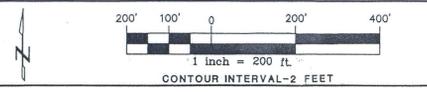
- \* Cross-section station 10,000 is hydraulic base line except as noted.

**INDEX MAP**



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



**WORK MAP**

**WOOD, PATEL & ASSOCIATES, INC.**

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	DATE _____
SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
			SHEET <b>1C</b> OF 10

FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks ERM #3
- Base Flood Elevation 1430
- Zone Designation Zone "AE"

ELEVATION REFERENCE MARKS

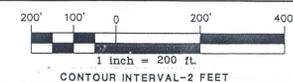
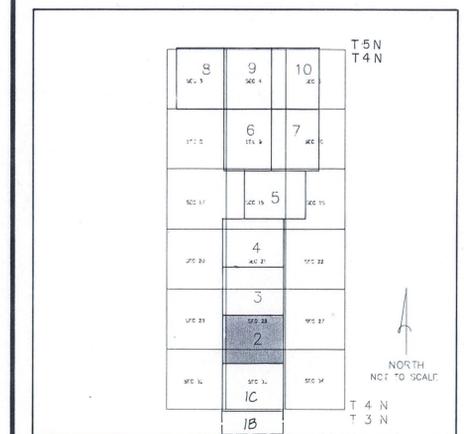
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #4	1451.32	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Railroad Spike Set Flush located at approximately 800' E southeast on north 1/4 corner of section 33, T4N, R5W.
ERM #5	1449.72	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.67' above ground located at north 1/4 of section 33, T4N, R5W.
ERM #6	1454.93	This station is located approximately 20 miles +/- to the intersection of the Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLO Brass Cap on 2" I.P. approximately 1.0' above ground located at the northeast corner of section 32, T4N, R5W.
ERM #7	1453.56	This station is located approximately 20 miles +/- to the intersection of the Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" fiber approximately 0.10' above ground located north of Steel Tower powerline approximately 700' north of North 1/4 of section 33 T4N, R5W.

NOTES

- Cross-section station 10,000 is hydraulic base line except as noted.

INDEX MAP

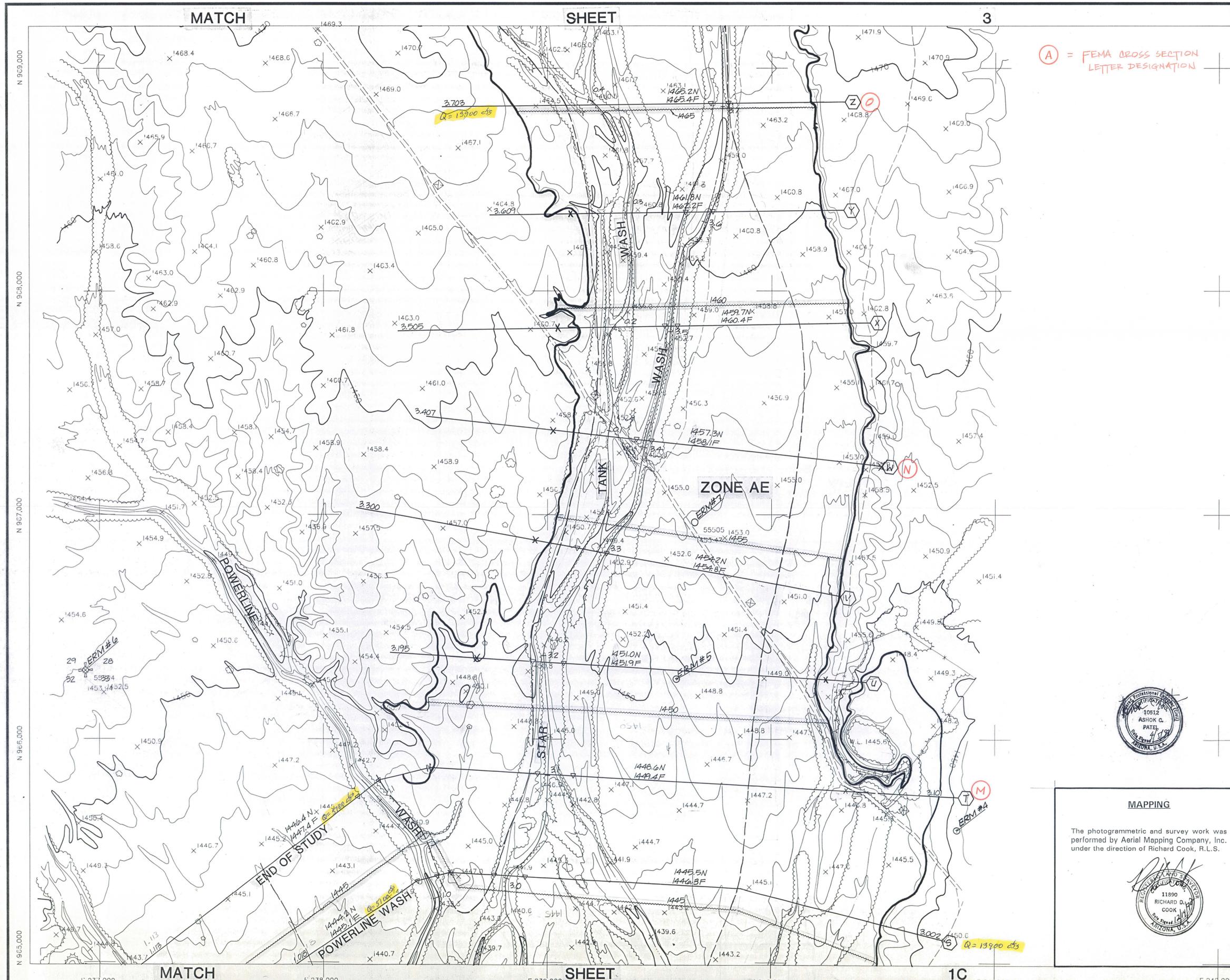


WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY: _____ DATE: _____
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE: _____
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:			SHEET 2 OF 10
	DATE		

(A) = FEMA CROSS SECTION LETTER DESIGNATION



MAPPING

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



AERIAL MAPPING COMPANY, INC.  
SURVEYING AND PHOTOGRAMMETRY  
FLIGHT DATE: 10-20-1992

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS  
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY  
DATA PROVIDED BY PROJECT ENGINEERING AND AERIAL MAPPING COMPANY, INC.

W.P. # 92916.00

FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

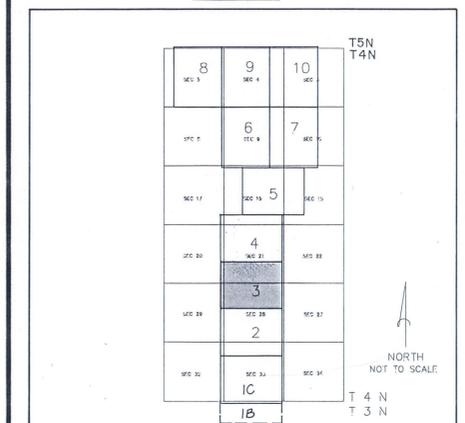
ELEVATION REFERENCE MARKS  
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #8	1485.08	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aguilera Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 1.2' above ground located at the northeast corner of section 28, T4N, R5W.
ERM #9	1485.19	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aguilera Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.9' above ground located at the northeast corner of section 28, T4N, R5W.
ERM #10	1486.12	This station is located approximately 20 miles +/- to the intersection of the Aguilera Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Brass Flush with ground approximately 1000' south of the center of section 21, T4N, R5W.

NOTES

- \* Cross-section station 10,000 is hydraulic base line except as noted.

INDEX MAP



(A) = FEMA CROSS SECTION LETTER DESIGNATION



MAPPING

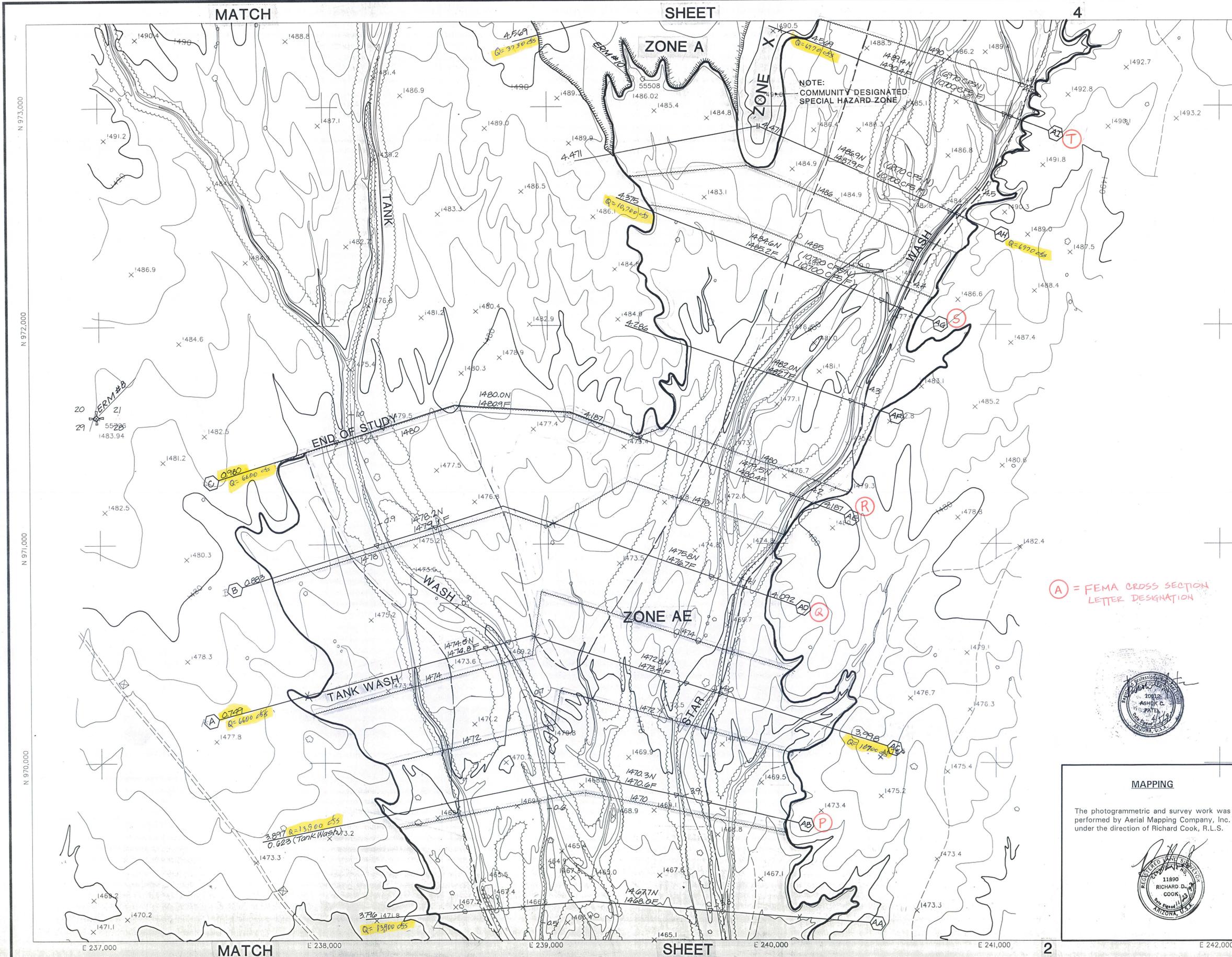
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	DATE _____
SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
	DATE		SHEET 3 OF 10



FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

ELEVATION REFERENCE MARKS  
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

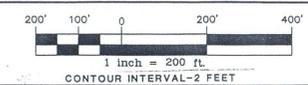
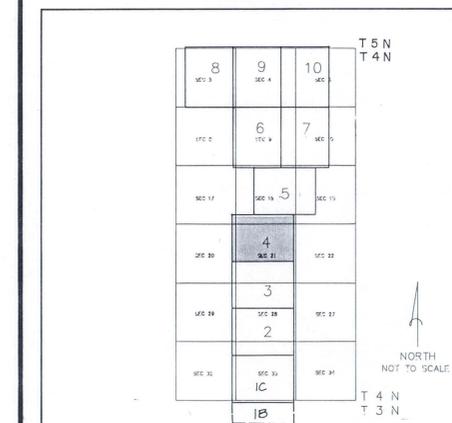
LD. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #11	1508.49	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aguilera Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.6' above ground located at the northeast corner of section 20, T4N, R5W.

(A) = FEMA CROSS SECTION LETTER DESIGNATION

NOTES

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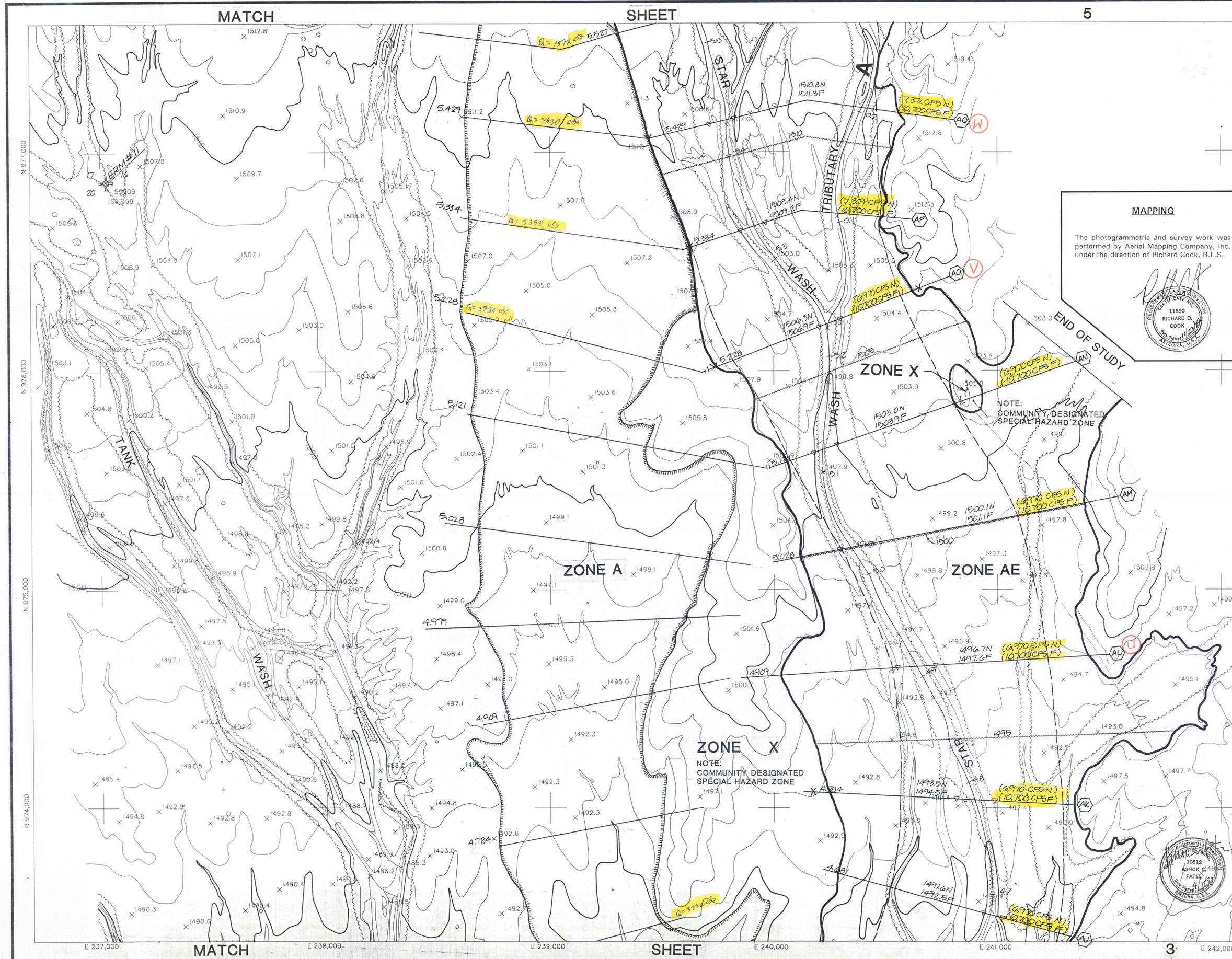
INDEX MAP



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: DATE
PLAN CHK.	A.C.P.	3/25/93	CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:			SHEET 4 OF 10



FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks ERM #3
- Base Flood Elevation 1430
- Zone Designation Zone "AE"

ELEVATION REFERENCE MARKS

NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

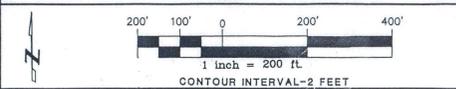
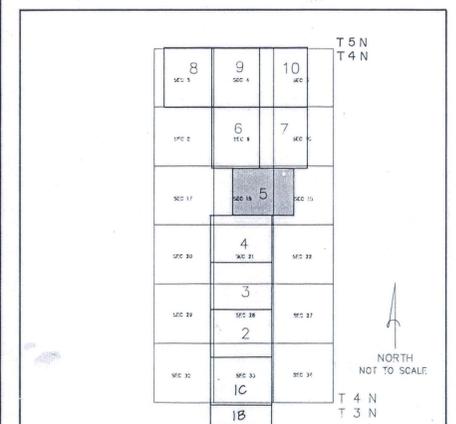
ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #12	1521.96	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.11' above ground located approximately 200 south of the center of section 16, T4N, R5W.

(A) = FEMA CROSS SECTION LETTER DESIGNATION

NOTES

- Cross-section station 10,000 is hydraulic base line except as noted.

INDEX MAP

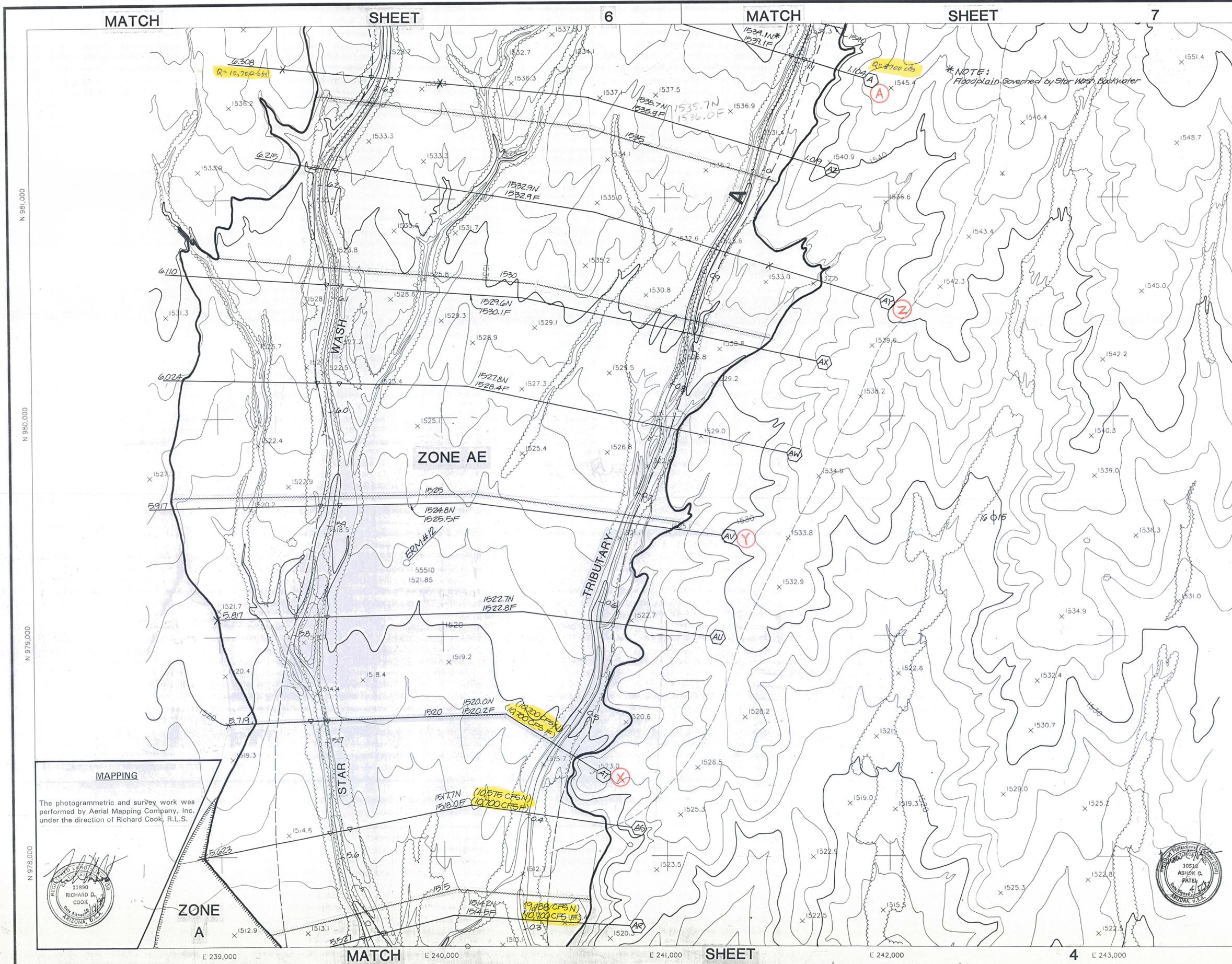


WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	DATE _____
SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
	DATE		SHEET 5 OF 10

W.P. # 92916.00



**MAPPING**  
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

ELEVATION REFERENCE MARKS  
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

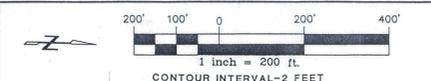
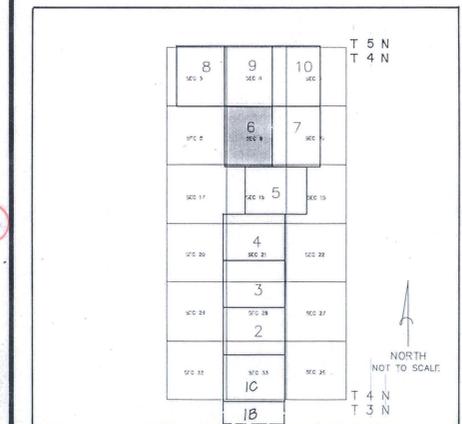
I.D. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #13	1574.52	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulia Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Rebar approximately 0.15' above ground approximately 1000' southwest of the northeast corner of section 8, T4N, R5W.
ERM #14	1567.64	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulia Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar Flush with ground approximately 800' southwest of the north 1/4 of section 9, T4N, R5W.

**(A) = FEMA CROSS SECTION LETTER DESIGNATION**

NOTES

- Cross-section station 10,000 is hydraulic base line except as noted.

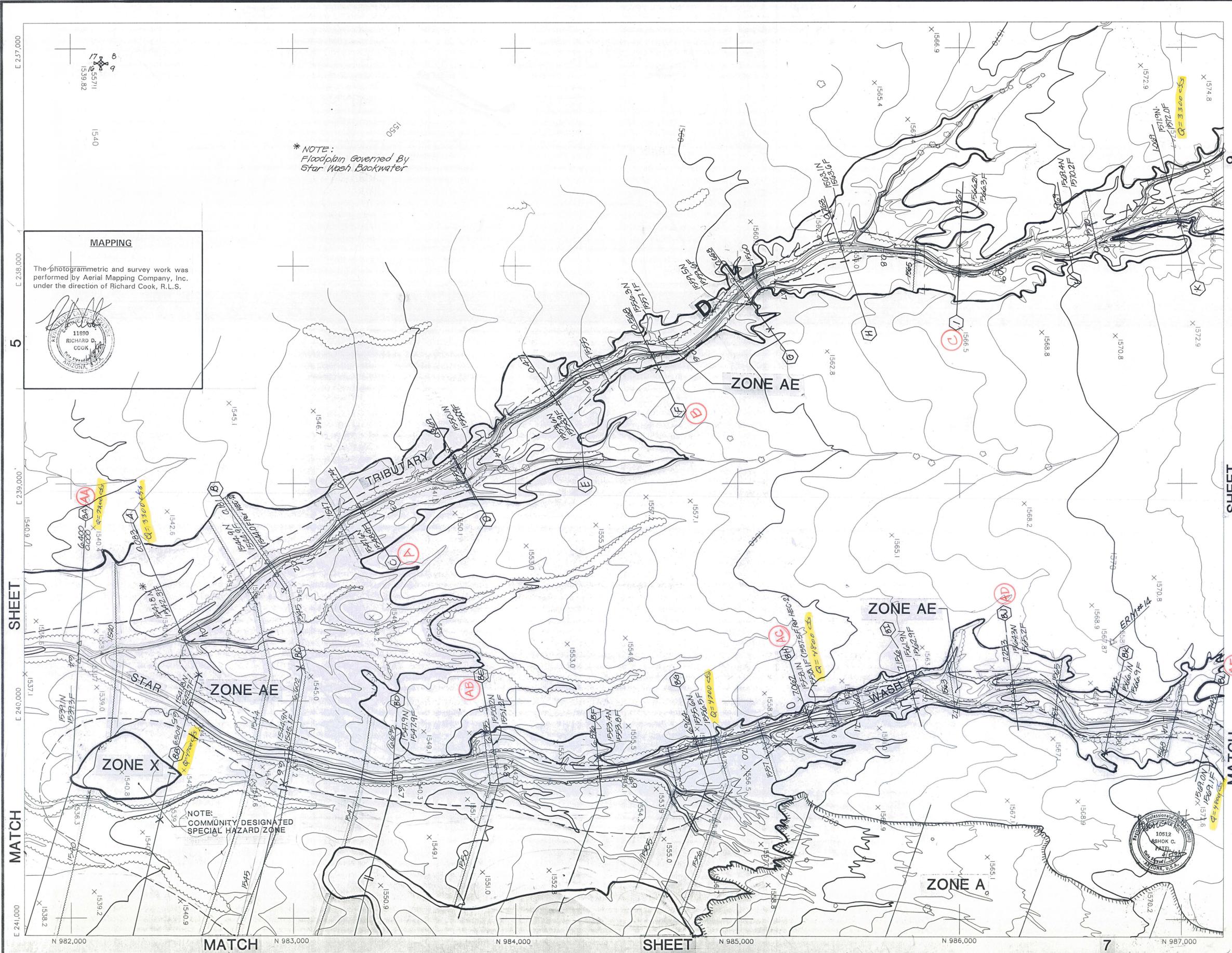
INDEX MAP



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	DATE _____
SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
DATE			SHEET 6 OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY FLOOD DELINEATION STUDY OF

## STAR WASH & TRIBUTARIES FCD 92-06

**LEGEND**

100-Year Floodplain Boundary	—
Floodway Boundary	- - - - -
Zone "A" Boundary	—
Hydraulic Base Line With River Mile	2.00 2.25
Cross-Section	2.100 (D) 1421.6N (Natural WSE) 1422.4F (Floodway WSE)
Elevation Reference Marks	ERM #3
Base Flood Elevation	1430
Zone Designation	Zone "AE"

**ELEVATION REFERENCE MARKS**

NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

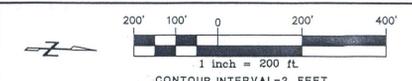
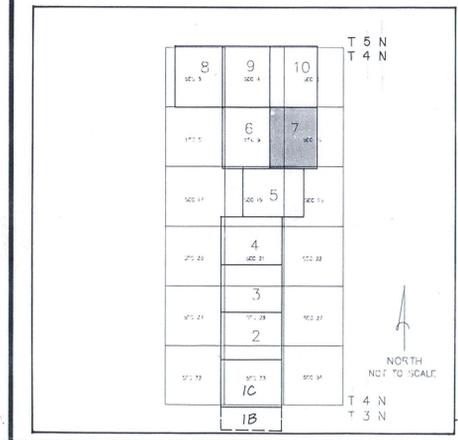
ERM NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #15	1548.40	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P., approximately 1.2' above ground located at the northeast corner of section 10, T4N, R5W.
ERM #16	1551.80	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 3/4" I.P., approximately 1.23' above ground located at the north 1/4 of section 10, T4N, R5W.
ERM #17	1573.42	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar Flash with ground approximately 800' south of the northeast corner of section 9, T4N, R5W.
ERM #18	1585.20	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 800' south of the north 1/4 corner of section 10, T4N, R5W.

**(A) = FEMA CROSS SECTION LETTER DESIGNATION**

**NOTES**

- Cross-section station 10,000 is hydraulic base line except as noted.

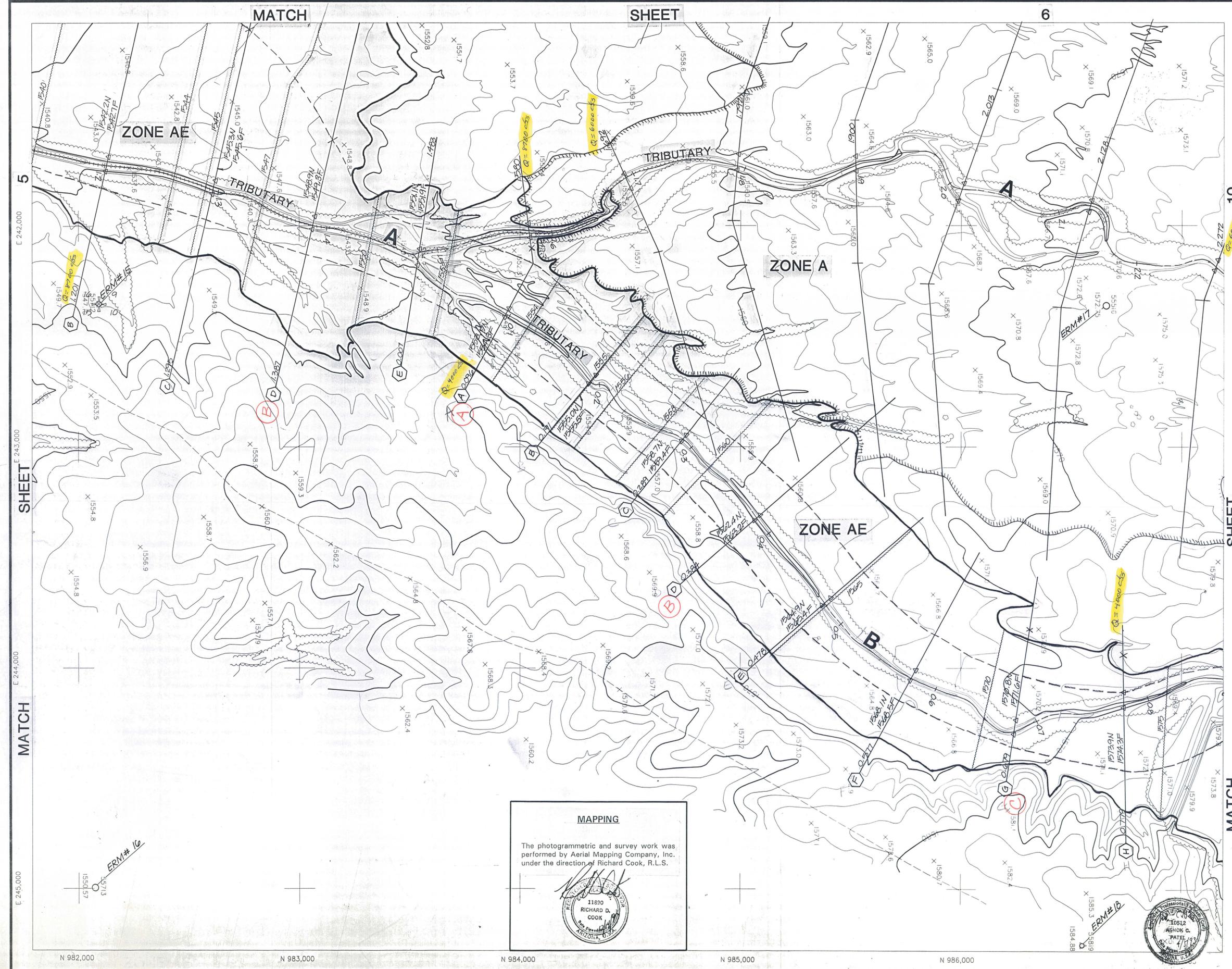
**INDEX MAP**



**WORK MAP**

**WOOD, PATEL & ASSOCIATES, INC.**

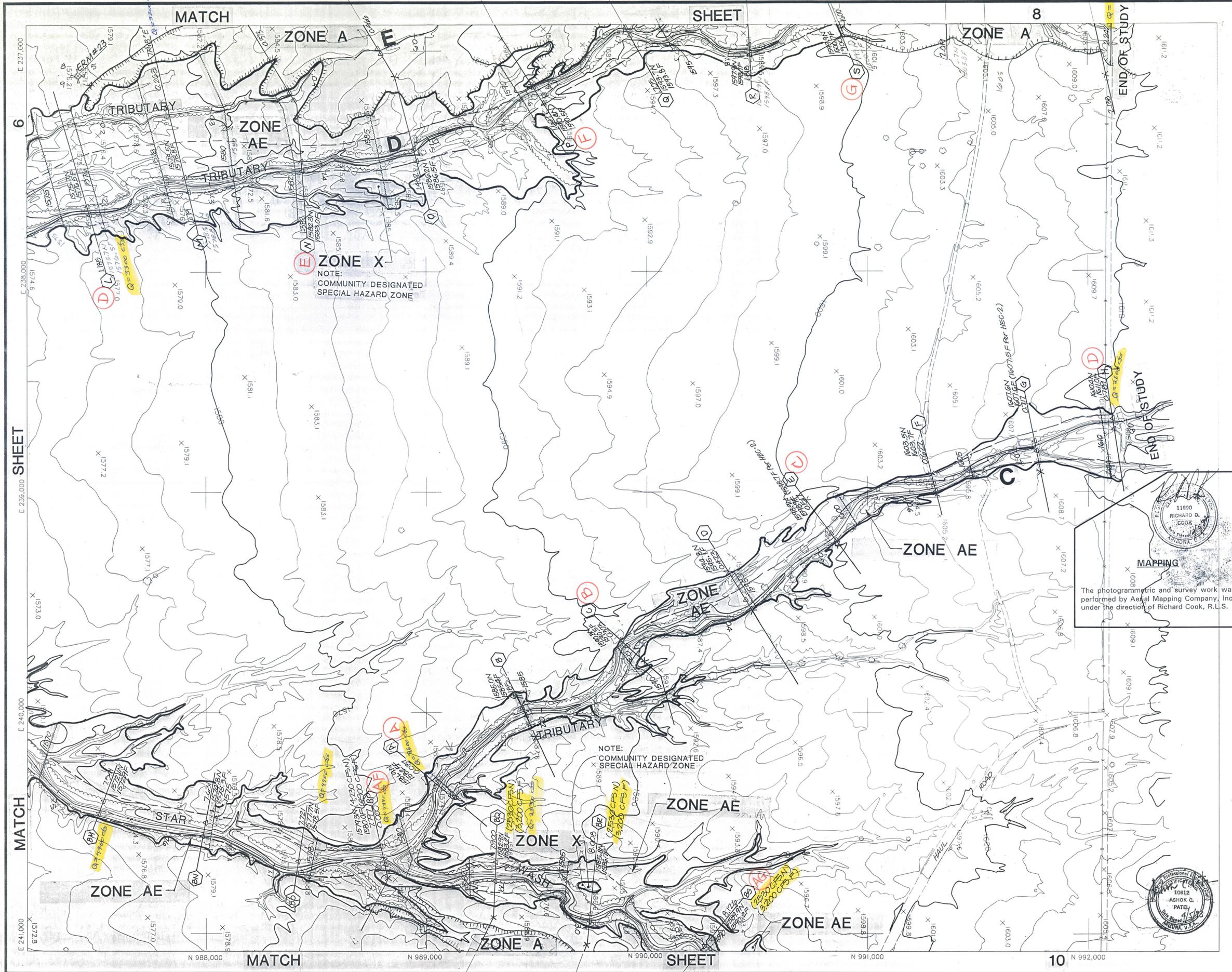
DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY:
PLAN CHK.	A.C.P.	3/25/93	DATE:
SUBMITTED BY:			DATE:
			DATE:
			SHEET
			7 OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.





FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

ELEVATION REFERENCE MARKS  
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

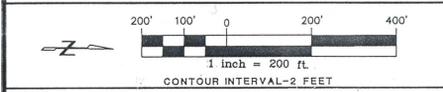
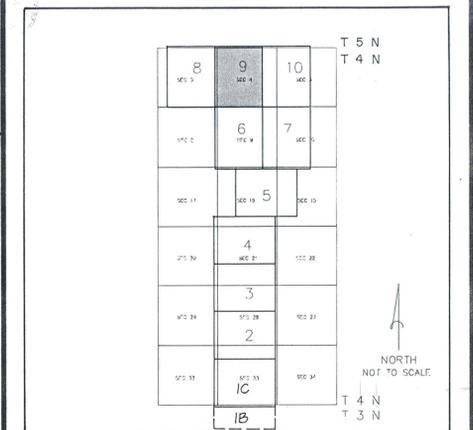
ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #23	1576.91	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 1.14' above ground located at the northeast corner of section 8, T4N, R5W.

**(A) = FEMA CROSS SECTION LETTER DESIGNATION**

NOTES

- Cross-section station 10,000 is hydraulic base line except as noted.

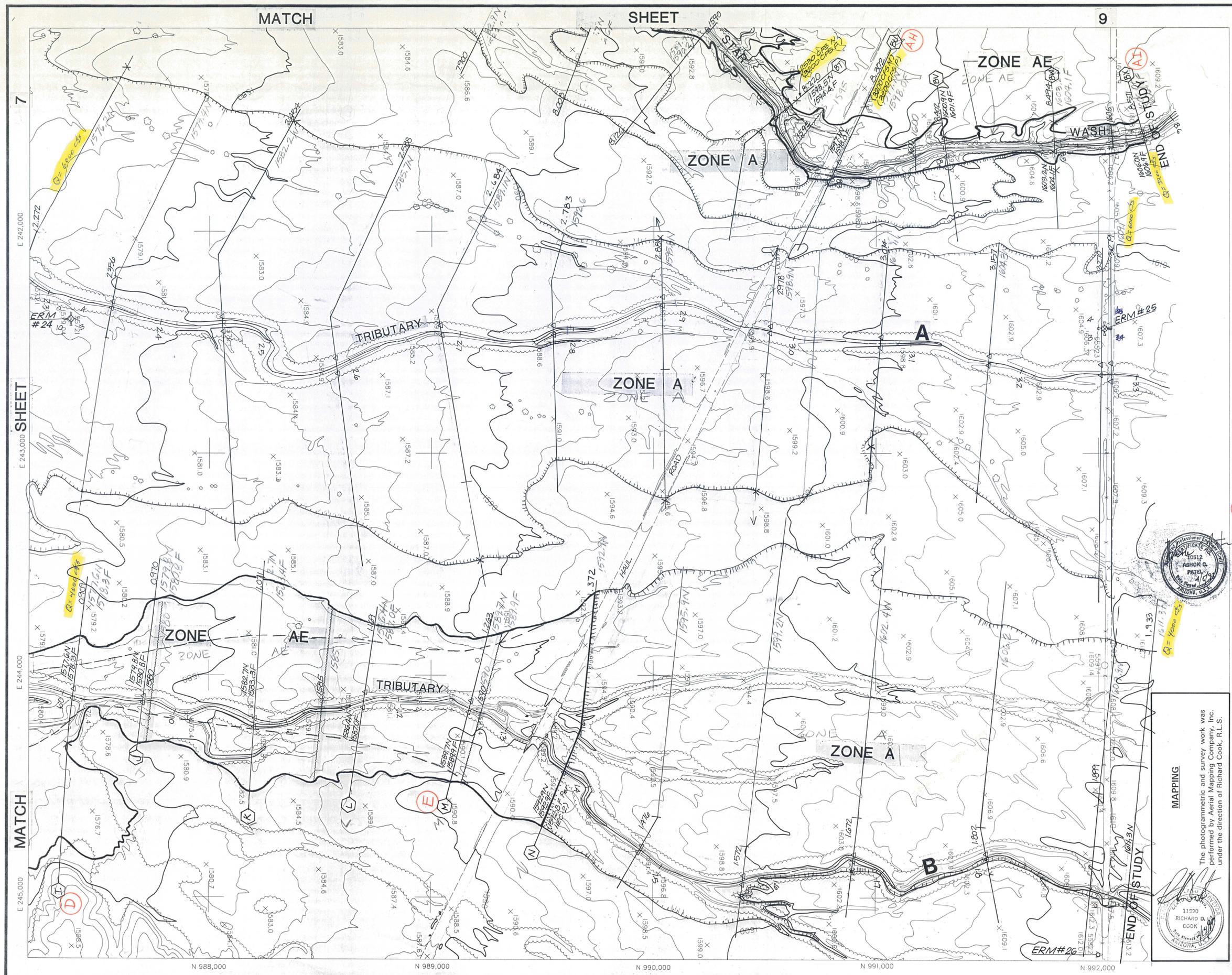
INDEX MAP



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE _____		SHEET 9 OF 10



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

**LEGEND**

100-Year Floodplain Boundary:

Floodway Boundary:

Zone "A" Boundary:

Hydraulic Base Line With River Mile:

Cross-Section:

Elevation Reference Marks: ERM #3

Base Flood Elevation: 1430

Zone Designation: Zone "AE"

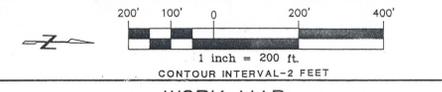
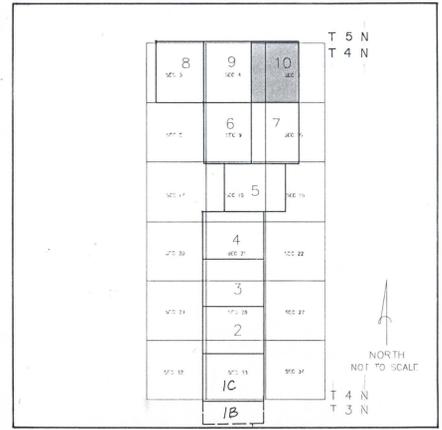
**ELEVATION REFERENCE MARKS**  
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #24	1580.03	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.85' above ground located at the northeast corner of section 9, T4N, R5W.
ERM #25	1606.54	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1"x2"x12" Stake approximately 0.17' above ground located approximately 300' east of the northeast corner of section 4, T4N, R5W.
ERM #26	1612.12	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.11' above ground located near approximately north 1/4 section 3, T4N, R5W.

**NOTES**

Cross-section station 10,000 is hydraulic base line except as noted.

**INDEX MAP**



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: DATE
PLAN CHK.	A.C.P.	3/25/93	DATE
SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
DATE			SHEET 10 OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

ALRIAL MAPPING COMPANY, INC. SURVEYING AND PHOTOGAMMETRY. FLIGHT DATE: 10-20-1992

THIS MAP WAS PREPARED BY PHOTOGAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS 1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY DATA PROVIDED BY PROJECT ENGINEERING AND AERIAL MAPPING COMPANY, INC.

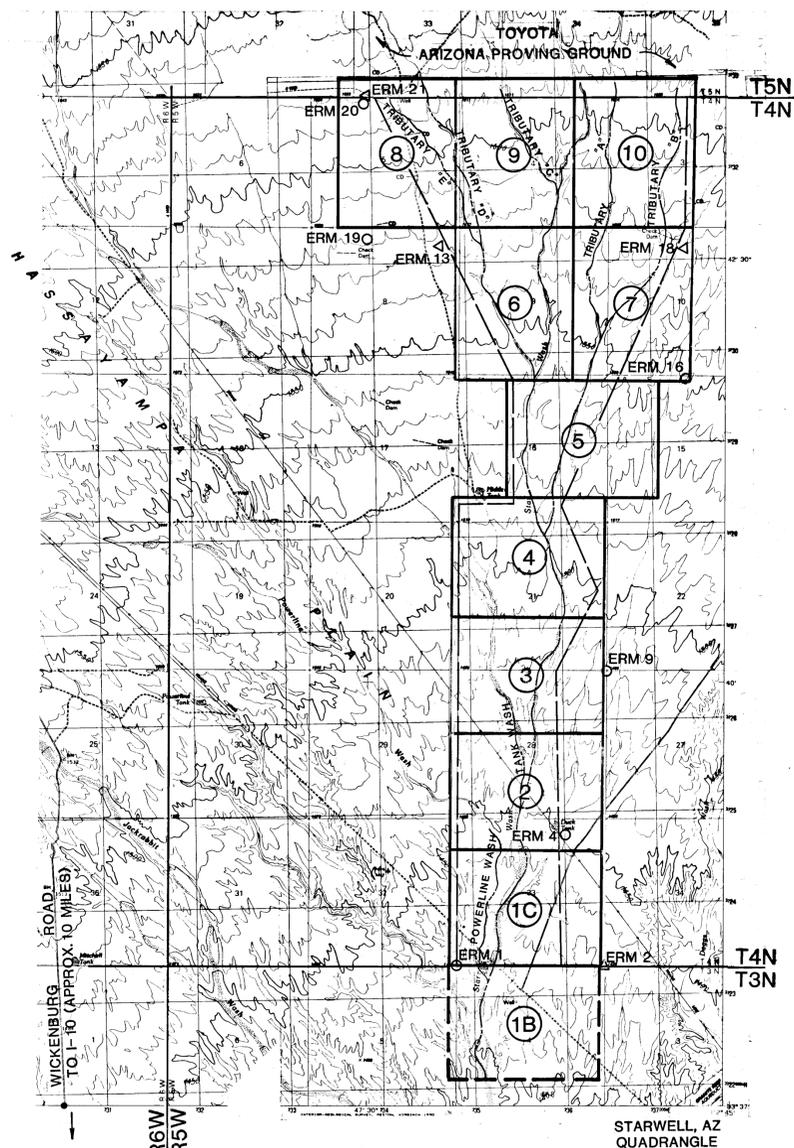
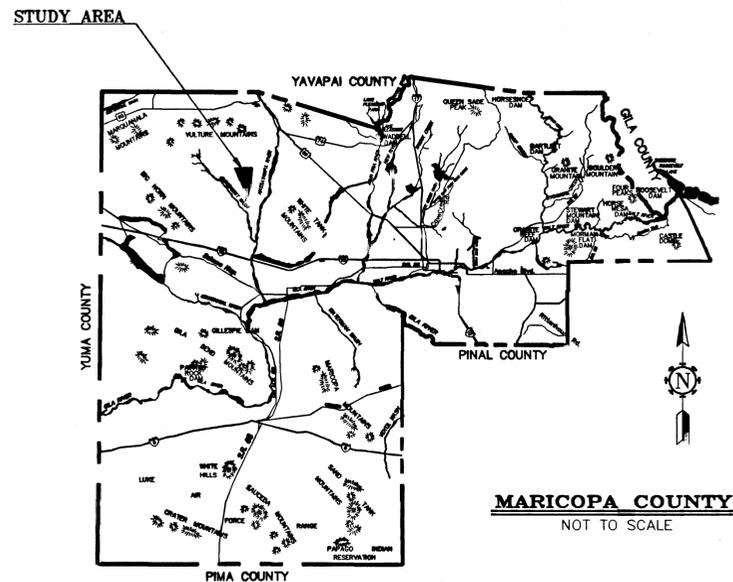
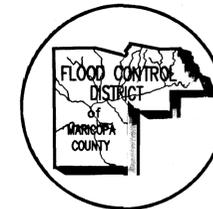
# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Neil S. Erwin, P.E., Chief Engineer and General Manager

## STAR WASH AND TRIBUTARIES

Floodplain Delineation Study

FCD 92-06



### AERIAL MAPPING & VERTICAL CONTROL:

Aerial Mapping Company, Inc.  
3141 West Clarendon Avenue  
Phoenix, Arizona 85017 (602) 263-5728

AMCI JOB #92155  
FLIGHT DATE: October 20, 1992  
CONTOUR INTERVAL: 2 Feet

### GROUND CONTROL:

Project Engineering Consultants, Ltd. (Horizontal Control Only)  
3130 North 35th Avenue, Suite 1  
Phoenix, Arizona 85017 (602) 484-7691  
PEC Job # 92017,92019

### HYDROLOGY

Burgess and Niple, Inc., FCD 90-05 (F.E.M.A. Approved)

### DATUM

HORIZONTAL: North American Datum of 1927  
VERTICAL: National Geodetic Vertical Datum of 1929

### FOUND

GLO Brass Cap on 3" Iron Pipe, 1.2 Feet Above Ground, Stamped "SE COR SEC 32 T4N R5W", Elevation = 1434.540. (ERM 1)

### SUPPLEMENTAL ERM'S (SEE THIS SHEET FOR LOCATION)

ID NUMBER	ELEVATION	DESCRIPTION/LOCATION
ERM 2	1429.71	GLO Brass Cap on 3" I.P., 1.1' above ground, Northeast Corner of Section 4 T3N R5W.
ERM 4	1451.32	Railroad Spike Set Flush, Approximately 80' Southeast on North 1/4 Corner of Section 33 T4N R5W.
ERM 9	1485.19	GLO Brass Cap on 2" I.P., Approximately 0.9' above ground, Northeast Corner of Section 28 T4N R5W.
ERM 13	1574.52	1/2" Rebar Approximately 0.15' above ground, Approximately 1000' Southwest Of Northeast Corner Of Section 8 T4N R5W.
ERM 16	1551.80	GLO Brass Cap On 3/4 I.P., Approximately 1.23' Above Ground, N 1/4 Of Section 15 T4N R5W.
ERM 18	1585.20	1/2" Rebar, Approximately 0.32' Above Ground, Approximately 800' South Of the North 1/4 Corner of Section 10 T4N R5W.
ERM 19	1578.59	1/2" Rebar, Approximately 0.09' Above Ground, Approximately 1000' West/Southwest Of the North 1/4 Corner Of Section 8 T4N R5W.
ERM 20	1622.24	1/2" Rebar, Approximately 0.24' Above Ground, Approximately 30' South Of Southeast Corner Of Section 32 T5N R5W.
ERM 21	1622.62	GLO Brass Cap On 3" I.P., Approximately 0.40' Above Ground, Southeast Corner Of Section 32 T5N R5W.

### LEGEND

Mapping Limits	---
Sheet Limits	---
Sheet Number	①
Section Corner (Found)	17 16 20 21
Quarter Corner (Found)	17 20
Section Corner	7 8 18 17
Quarter Corner	7 18
Elect Trans Tower	*
Dirt Road	---

### CERTIFICATION

This is to certify that all work accomplished in the conduct of this Floodplain Delineation Study for Star Wash & Tributaries was done in accordance with FEMA 37 Document, "Flood Insurance Study, Guidelines and Specifications for Study Contractors", Federal Insurance Administration, March, 1991; and the General Provisions of Contract FCD 92-06 and all amendments thereto, together with all such modifications, either written or oral as the FCD Contracting Officer or their representatives have directed, as such modifications affect this Contract, and that all such work has been accomplished in accordance with sound and accepted engineering practice within the contract provisions for respective phases of the work.

*Ashok C. Patel*  
Ashok C. Patel, P.E., R.L.S.



### SHEET INDEX:

SHEET 1A Cover Sheet  
SHEET 1B Restudy, Boundary and Floodway Map  
SHEET 1C-10 Work maps



Date Revised: August 1993

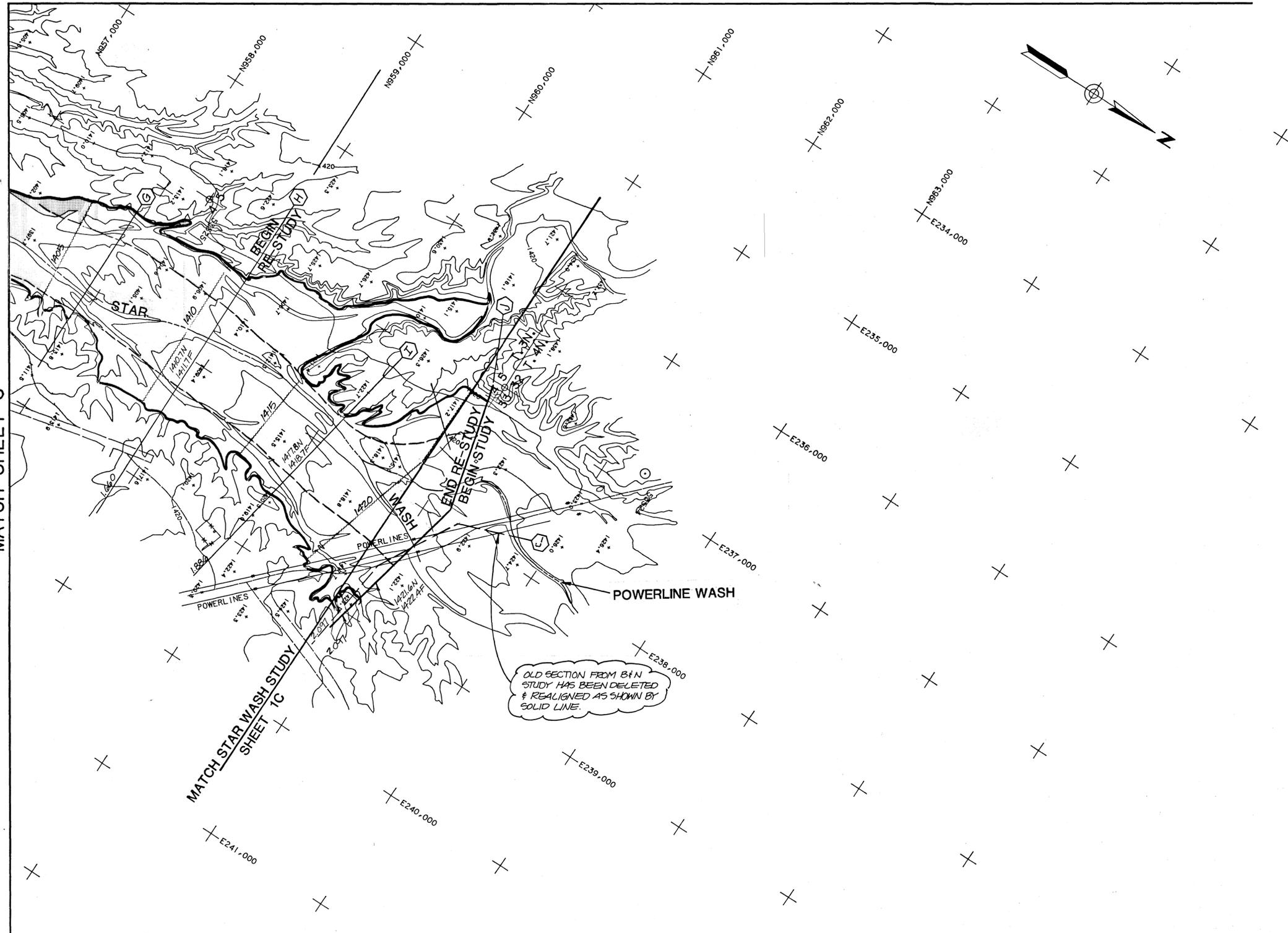
FILE NAME: COVERSHT  
PROJ. # 92916.00

EXHIBIT 2		
DESIGN	BY T.J.S.	DATE 3/25/93
DESIGN CHK.	J.G.T.	3/25/93
PLANS	I.G.	3/25/93
PLANS CHK.	A.C.P.	3/25/93
SUBMITTED BY:	<i>Ashok C. Patel</i>	DATE: 4/5/93

WOOD, PATEL & ASSOC., INC.	
1550 EAST MISSOURI, SUITE 203 PHOENIX, ARIZONA (602) 234-1344	
WORK MAP	
COVER SHEET	
RECOMMENDED BY:	DATE:
APPROVED BY:	DATE:
CHIEF ENGINEER AND GENERAL MANAGER	
SHEET	1A
1 of 10	

MATCH SHEET 6

MATCH SHEET 3



- LEGEND:**
- 100 YEAR FLOOD LIMITS
  - FLOODWAY LIMITS
  - DISTANCE IN MILES UPSTREAM FROM MOUTH
  - CROSS SECTION
  - NATURAL ELEVATION  
FLOODWAY ELEVATION
  - 1250  
BASE FLOOD ELEVATION

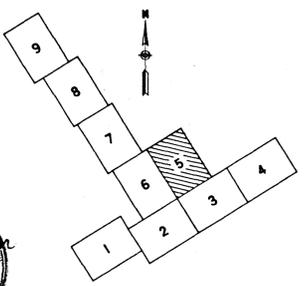
**RESTDY (LOMR)**

THE RESTDY REACH IS UPDATED TO REFLECT CORRECT PEAK FLOWS, MORE ACCURATE FLOODPLAIN DELINEATION UPSTREAM OF SECTION "H", AND CORRECT LOCATION FOR THE POWERLINE WASH CONFLUENCE.

**NOTE:**

THIS WORK MAP IS REPRODUCED FROM THE PREVIOUSLY APPROVED FIS ON JACKRABBIT WASH. THIS RESTDY UPDATES THE STUDY REACH BETWEEN SECTIONS "H" AND "J".

OLD SECTION FROM B+N STUDY HAS BEEN DELETED & REALIGNED AS SHOWN BY SOLID LINE.



NO.	REVISIONS	DATE	BY	CHK.

**Burgess & Niple, Inc.**  
 Engineers and Architects  
 Akron, OH - Cincinnati, OH - Columbus, OH - Crestview Hills, KY  
 Peasopville, OH - Parkersburg, WV - Payson, AZ - Phoenix, AZ



**JACKRABBIT WASH FLOODPLAIN DELINEATION STUDY**  
 FCD 90-05  
 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CONTOUR INTERVAL-2 FEET  
 JOB NO. 10310  
 DESIGNED BY: JEM  
 DRAWN BY: AK / CEU  
 CHECKED BY: JEM  
 APPROVED BY:  
 DATE: JUNE-91

**BASE MAP**

SCALE:  
 0 200 400  
 SCALE IN FEET  
 SHEET NO. 5 OF 9

FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

ELEVATION REFERENCE MARKS

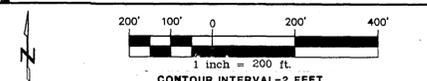
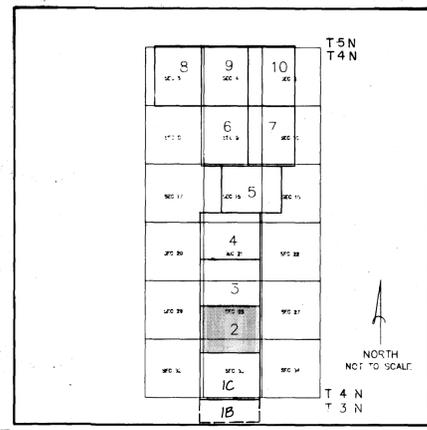
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #4	1451.32	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Railroad Spike Set Flush located at approximately 800' E southeast on north 1/4 corner of section 33, T4N, R5W.
ERM #5	1448.72	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.67' above ground located at north 1/4 of section 33, T4N, R5W.
ERM #6	1454.93	This station is located approximately 20 miles +/- to the intersection of the Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLD Brass Cap on 2" I.P. approximately 1.0' above ground located at the northeast corner of section 32, T4N, R5W.
ERM #7	1453.58	This station is located approximately 20 miles +/- to the intersection of the Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.10' above ground located north of Steel Tower powerline approximately 700' north of North 1/4 of section 33 T4N, R5W.

NOTES

\* Cross-section station 10,000 is hydraulic base line except as noted.

INDEX MAP

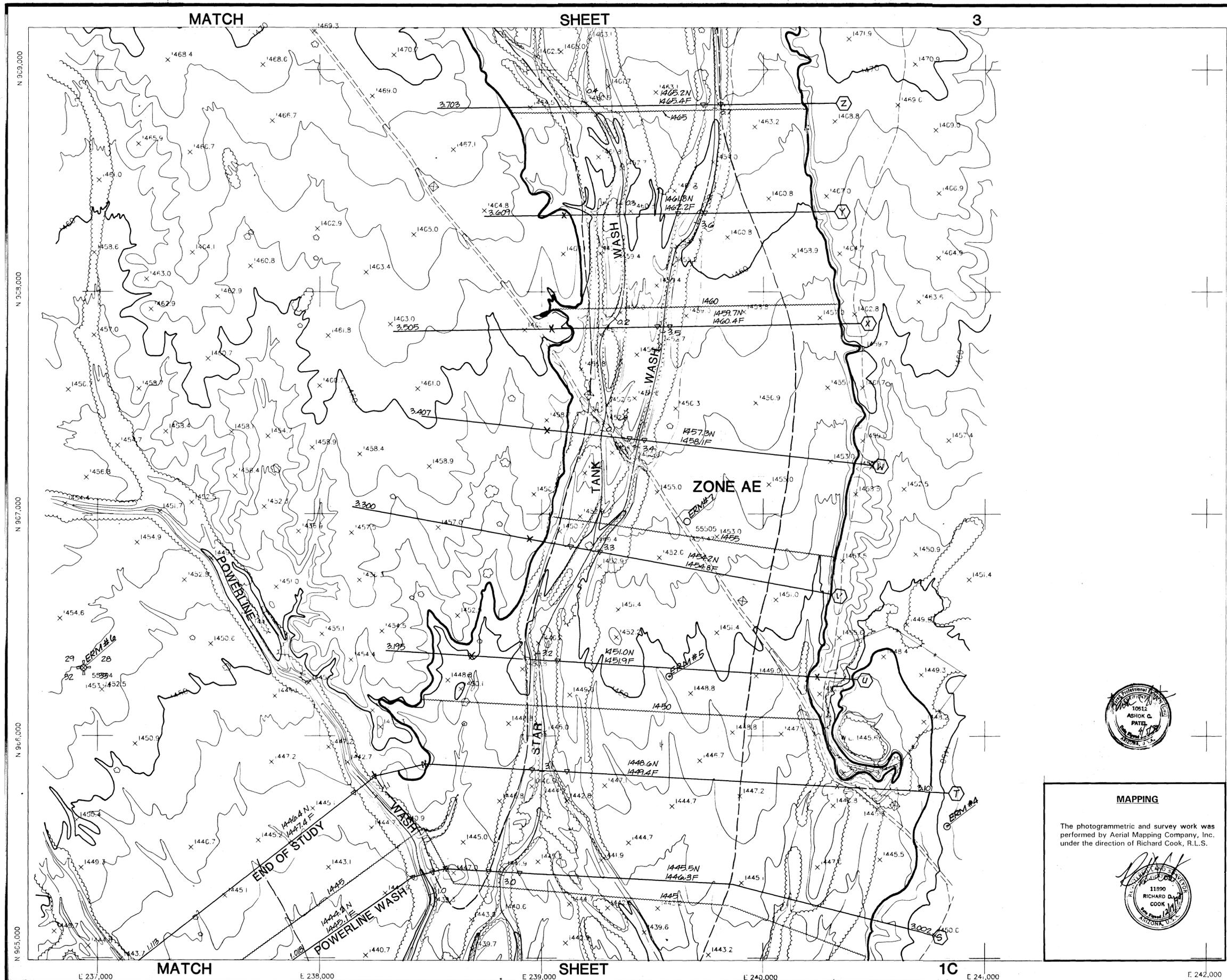


WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY: _____
PLANS	I.G.	3/25/93	APPROVED BY: _____
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:			SHEET 2 OF 10
		DATE	

W.P. # 92916.00



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

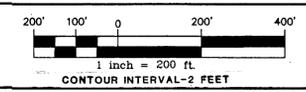
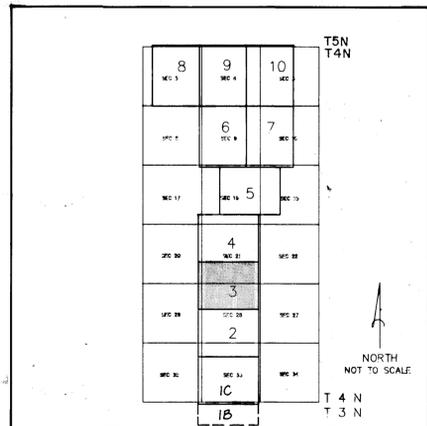
ELEVATION REFERENCE MARKS  
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #8	1485.08	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 1.2' above ground located at the northeast corner of section 29, T4N, R5W.
ERM #9	1485.19	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.9' above ground located at the northeast corner of section 28, T4N, R5W.
ERM #10	1486.12	This station is located approximately 20 miles +/- to the intersection of the Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar Flush with ground approximately 1000' south of the center of section 21, T4N, R5W.

NOTES

- Cross-section station 10,000 is hydraulic base line except as noted.

INDEX MAP



WORK MAP

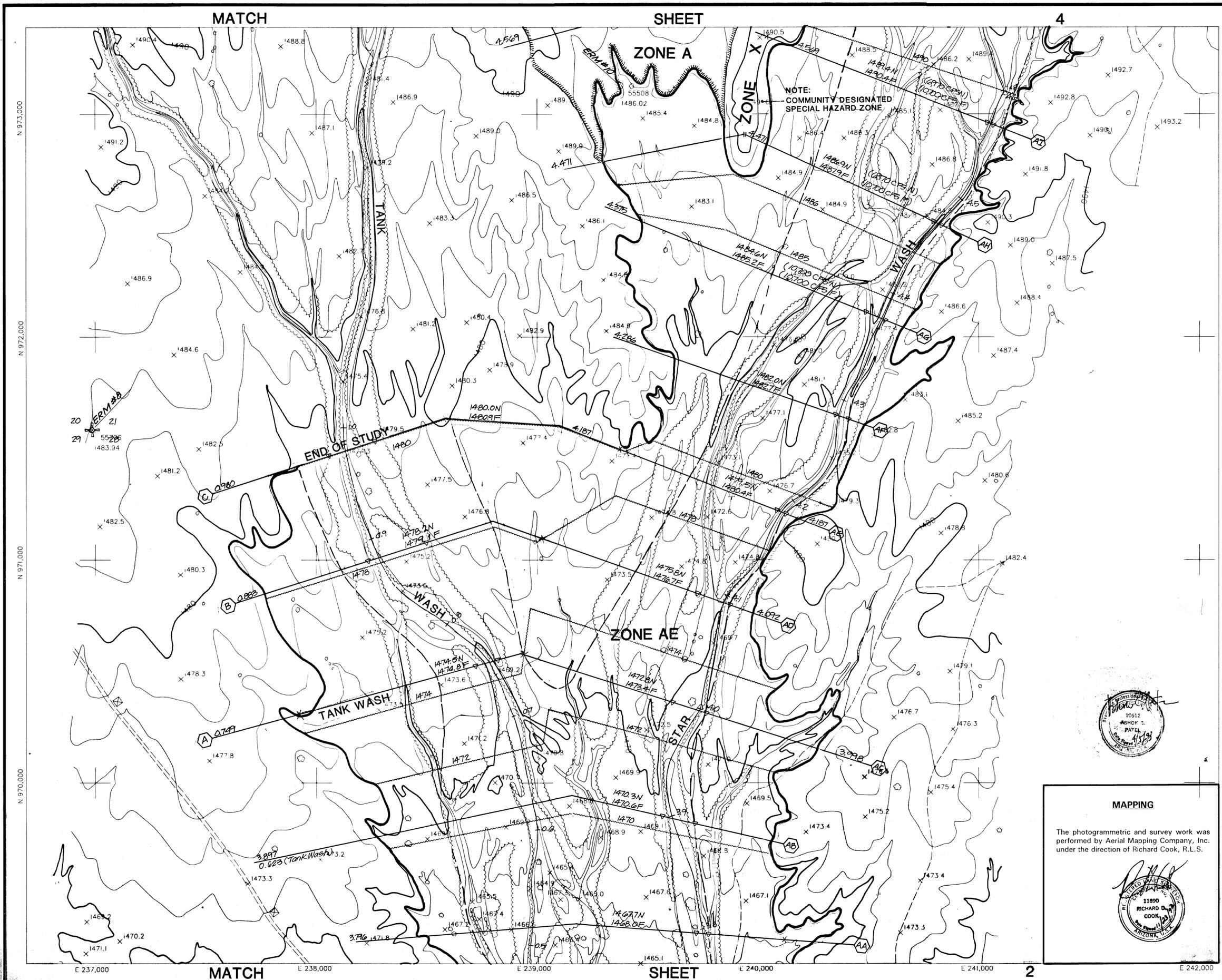
WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:			SHEET 2 OF 10
DATE			



MAPPING

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks ERM #3
- Base Flood Elevation
- Zone Designation Zone "AE"

ELEVATION REFERENCE MARKS

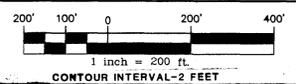
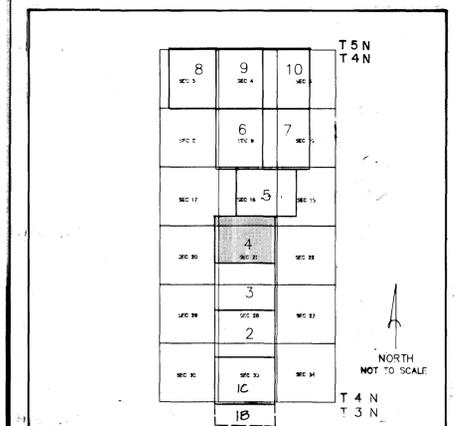
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #11	1508.49	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.6' above ground located at the northeast corner of section 20, T4N, R5W.

NOTES

- \* Cross-section station 10,000 is hydraulic base line except as noted.

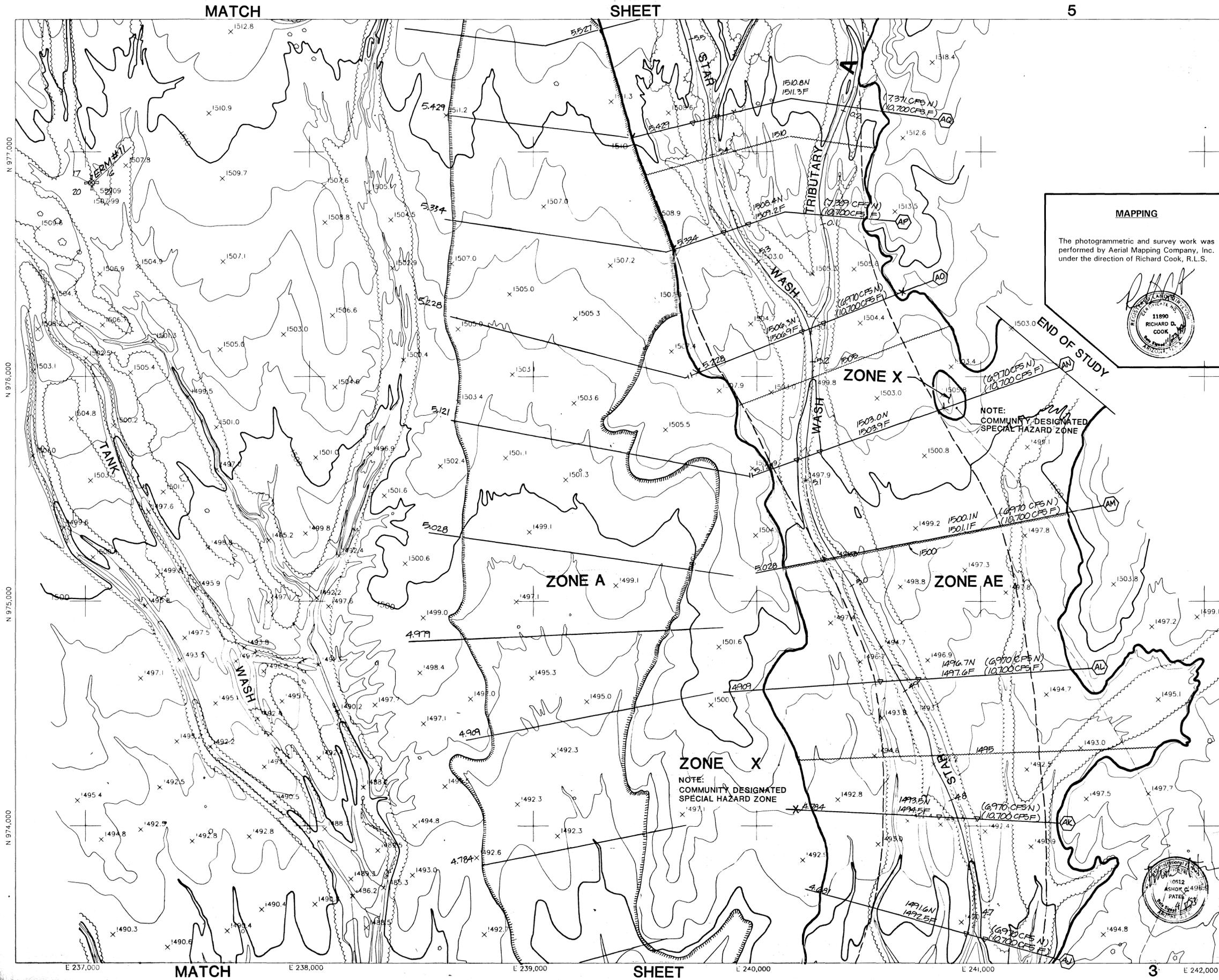
INDEX MAP



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	DATE _____
SUBMITTED BY:	_____		DATE _____
	_____		SHEET 4 OF 10



MATCH

SHEET

6

MATCH

SHEET

7

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY FLOOD DELINEATION STUDY OF

## STAR WASH & TRIBUTARIES FCD 92-06

### LEGEND

100-Year Floodplain Boundary

Floodway Boundary

Zone "A" Boundary

Hydraulic Base Line With River Mile

Cross-Section

Elevation Reference Marks

Base Flood Elevation

Zone Designation

### ELEVATION REFERENCE MARKS

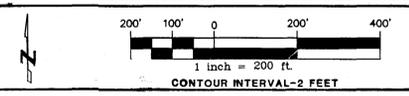
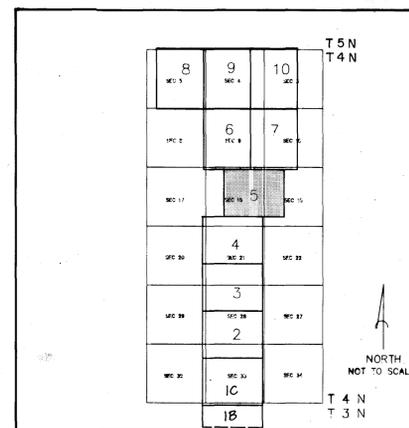
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

I.D. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #12	1521.86	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4.12 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1.2" Rebar approximately 0.11' above ground located approximately 200 south of the center of section 16, T4N, R5W.

### NOTES

\* Cross-section station 10,000 is hydraulic base line except as noted.

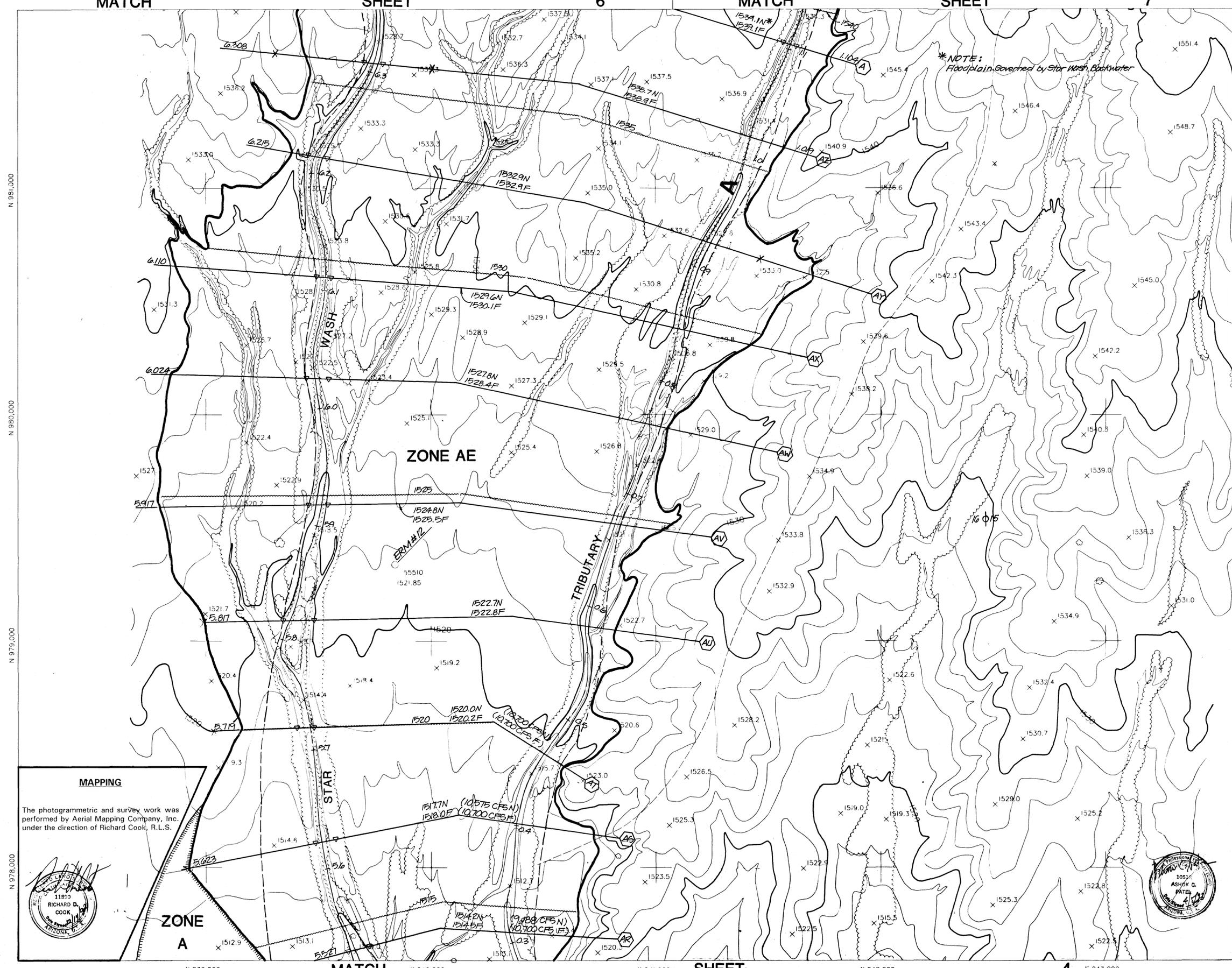
### INDEX MAP



### WORK MAP

## WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: DATE
PLAN CHK.	A.C.P.	3/25/93	DATE
SUBMITTED BY:	DATE		CHEF ENGINEER AND GENERAL MANAGER
			SHEET 5 OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

ELEVATION REFERENCE MARKS

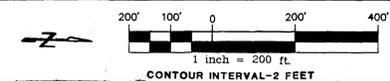
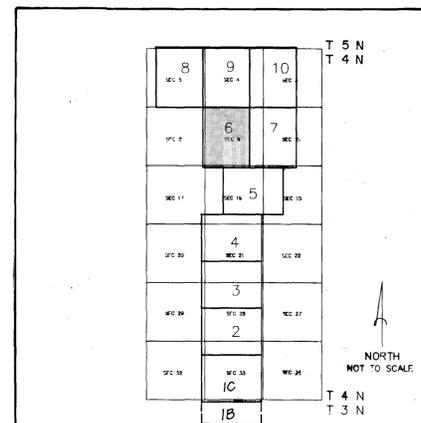
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #13	1574.52	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Rebar approximately 0.15' above ground approximately 1000' southwest of the northeast corner of section 8, T4N, R5W.
ERM #14	1567.54	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar Flush with ground approximately 800' southwest of the north 1/4 of section 9, T4N, R5W.

NOTES

- \* Cross-section station 10,000 is hydraulic base line except as noted.

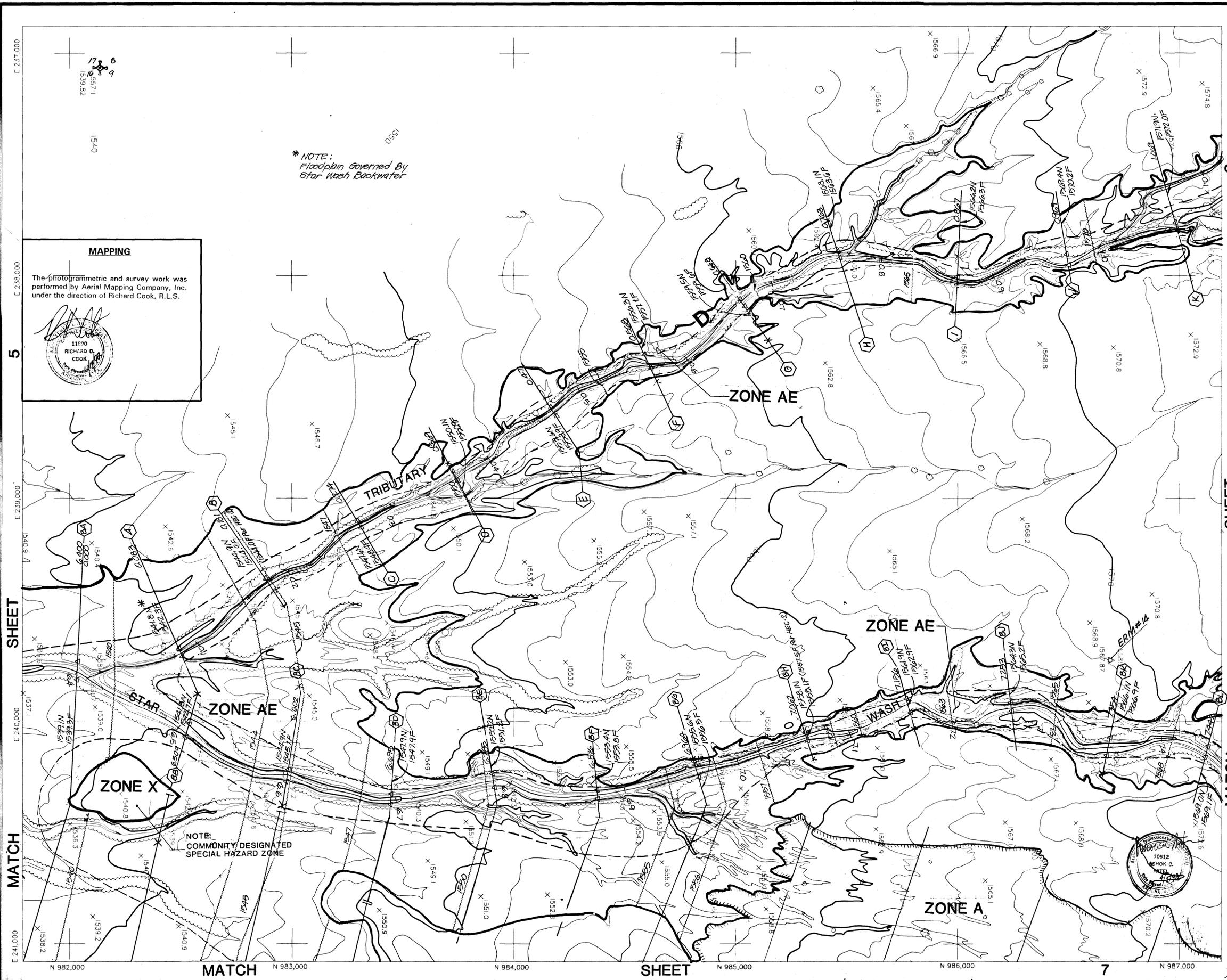
INDEX MAP



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY: _____
PLANS	I.G.	3/25/93	APPROVED BY: _____
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY: _____	DATE: _____	SHEET: _____	OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

\* NOTE:  
Floodplain Governed By  
Star Wash Backwater

FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF

STAR WASH & TRIBUTARIES  
FCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

ELEVATION REFERENCE MARKS

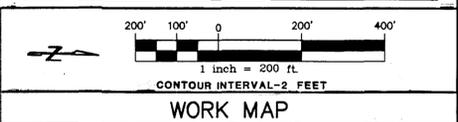
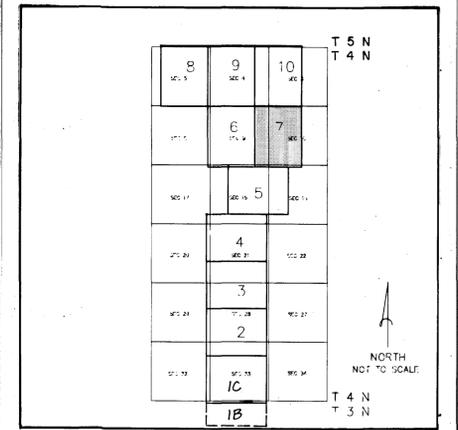
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #15	1548.40	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 1.2' above ground located at the northeast corner of section 16, T4N, R5W.
ERM #16	1551.80	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 3/4" I.P. approximately 1.23' above ground located at the north 1/4 of section 16, T4N, R5W.
ERM #17	1573.42	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar Flush with ground approximately 800' south of the northeast corner of section 9, T4N, R5W.
ERM #18	1585.20	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agulla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 800' south of the north 1/4 corner of section 10, T4N, R5W.

NOTES

Cross section station 10,000 is hydraulic base line except as noted.

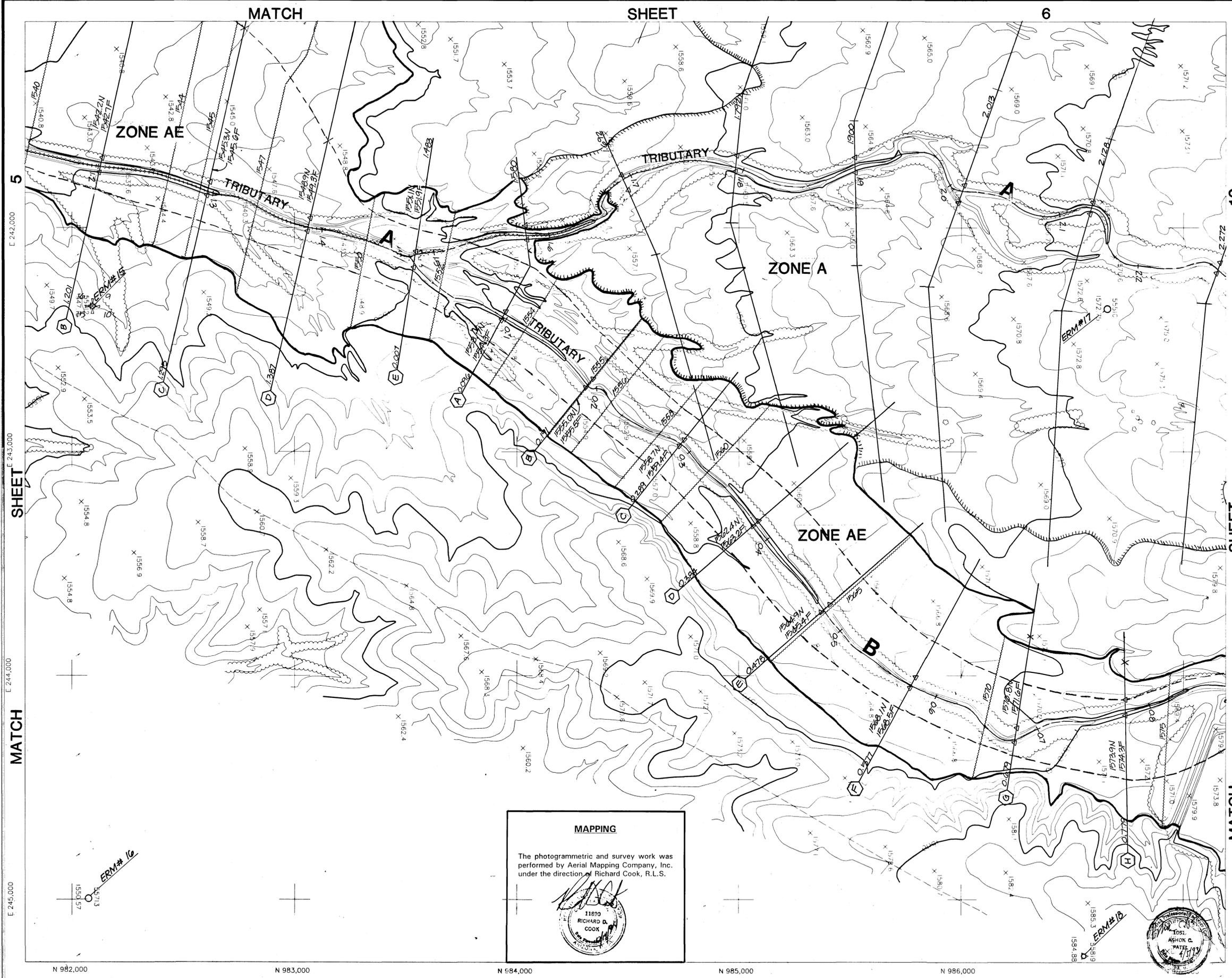
INDEX MAP



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY:
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:			SHEET
DATE			7 OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY FLOOD DELINEATION STUDY OF

**STAR WASH & TRIBUTARIES**  
FCD 92-06

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

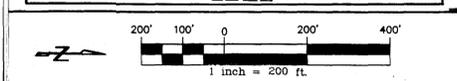
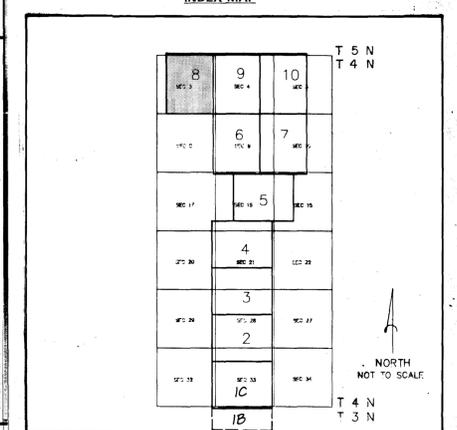
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM #	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #19	1578.58	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agalla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.09' above ground located at approximately 1000' west-southwest of the north 1/4 corner of section 8, T4N, R5W.
ERM #20	1622.24	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agalla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.24' above ground at approximately 30' south of southeast corner of section 32, T5N, R5W.
ERM #21	1622.62	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agalla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 3" I.P. approximately 0.40' above ground located at the southeast corner of section 32, T5N, R5W.
ERM #22	1609.79	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agalla Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.13' above ground located at approximately 1000' west of the northeast corner of section 5, T4N, R5W.

**NOTES**

\* Cross-section station 10,000 is hydraulic base line except as noted.

**INDEX MAP**



**WORK MAP**

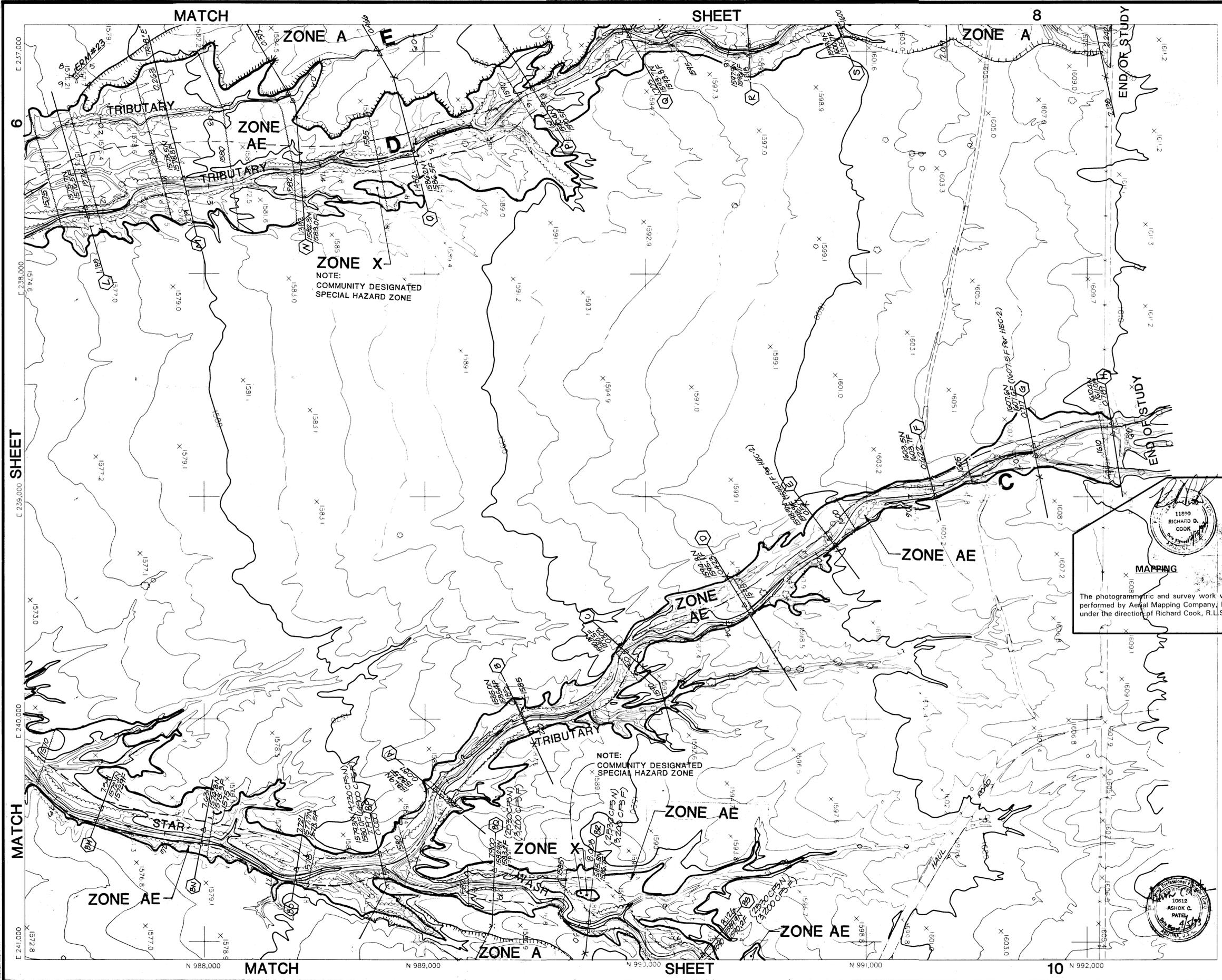
**WOOD, PATEL & ASSOCIATES, INC.**

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY:
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:			SHEET
DATE			6 OF 10



**MAPPING**  
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

**WOOD, PATEL & ASSOCIATES, INC.**  
10512  
RICHARD D. PATIL  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF ARIZONA  
No. 41538



**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF**

**STAR WASH & TRIBUTARIES  
FCD 92-06**

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

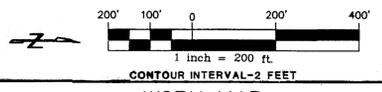
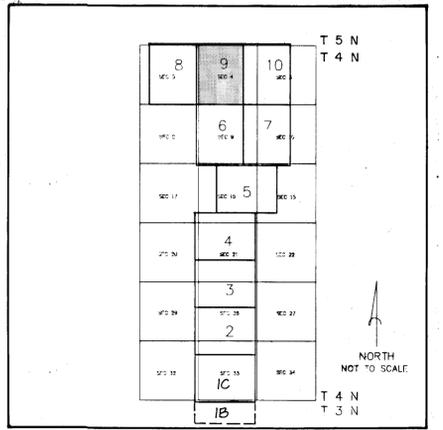
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #23	1576.91	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road; then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 1.14' above ground located at the northeast corner of section 8, T4N, R5W.

**NOTES**

\* Cross-section station 10,000 is hydraulic base line except as noted.

**INDEX MAP**



**WORK MAP**

**WOOD, PATEL & ASSOCIATES, INC.**

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE: _____
PLAN CHK.	A.C.P.	3/25/93	APPROVED BY: _____ DATE: _____
SUBMITTED BY:	DATE: _____		CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 9 OF 10



**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY  
FLOOD DELINEATION STUDY OF**

**STAR WASH & TRIBUTARIES  
FCD 92-06**

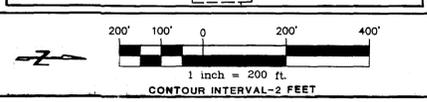
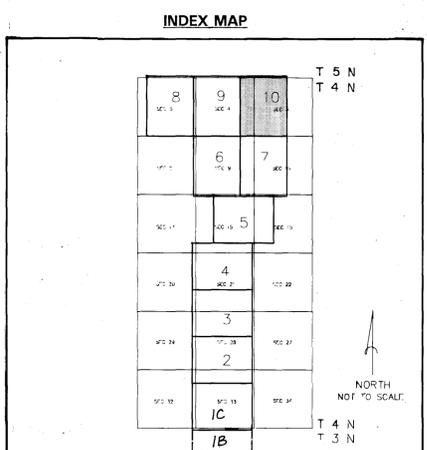
**LEGEND**

100-Year Floodplain Boundary	
Floodway Boundary	
Zone "A" Boundary	
Hydraulic Base Line With River Mile	
Cross-Section	
Elevation Reference Marks	ERM #3
Base Flood Elevation	1430
Zone Designation	Zone "AE"

**ELEVATION REFERENCE MARKS**  
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #24	1580.03	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.85' above ground located at the northeast corner of section 9, T4N, R5W.
ERM #25	1606.54	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1"x2"x12" Stake approximately 0.17' above ground located approximately 300' east of the northeast corner of section 4, T4N, R5W.
ERM #26	1612.12	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.11' above ground located near approximately north 1/4 section 3, T4N, R5W.

**NOTES**  
• Cross-section station 10,000 is hydraulic base line except as noted.



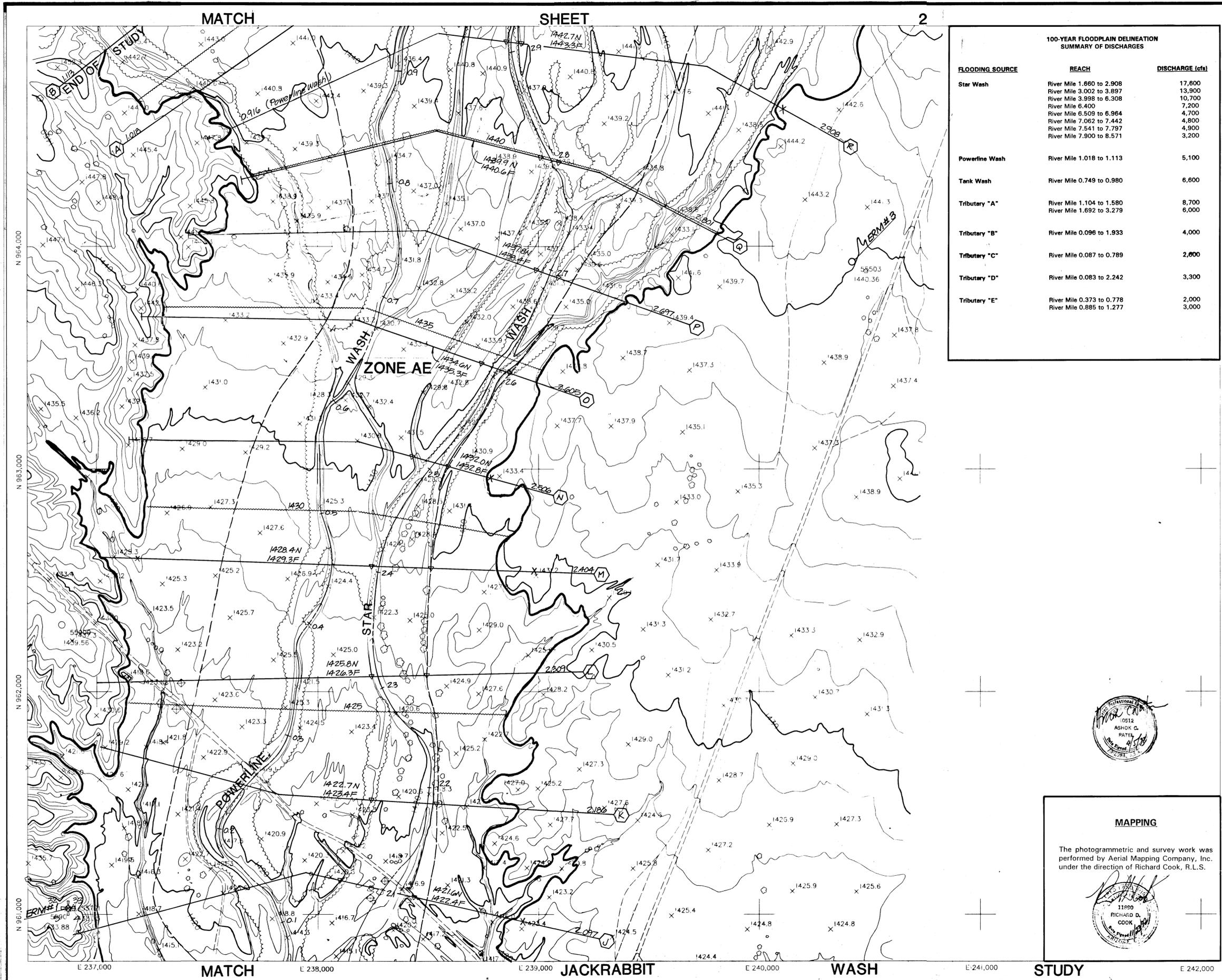
**WORK MAP**

**WOOD, PATEL & ASSOCIATES, INC.**

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	RECOMMENDED BY:
PLANS	I.G.	3/25/93	DATE
PLAN CHK.	A.C.P.	3/25/93	APPROVED BY:
SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
DATE			SHEET 10 OF 10



**MAPPING**  
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



FLOODING SOURCE	REACH	DISCHARGE (cfs)
Star Wash	River Mile 1.660 to 2.908	17,600
	River Mile 3.002 to 3.897	13,900
	River Mile 3.998 to 6.308	10,700
	River Mile 6.400	7,200
	River Mile 6.509 to 6.964	4,700
	River Mile 7.062 to 7.442	4,800
River Mile 7.541 to 7.797	4,900	
River Mile 7.900 to 8.571	3,200	
Powerline Wash	River Mile 1.018 to 1.113	5,100
Tank Wash	River Mile 0.749 to 0.980	6,600
Tributary "A"	River Mile 1.104 to 1.580	8,700
	River Mile 1.692 to 3.279	6,000
Tributary "B"	River Mile 0.096 to 1.933	4,000
Tributary "C"	River Mile 0.087 to 0.789	2,600
Tributary "D"	River Mile 0.083 to 2.242	3,300
Tributary "E"	River Mile 0.373 to 0.778	2,000
	River Mile 0.885 to 1.277	3,000

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
**FLOOD DELINEATION STUDY OF**

**STAR WASH & TRIBUTARIES**  
**FCD 92-06**

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
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- Cross-Section
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- Zone Designation

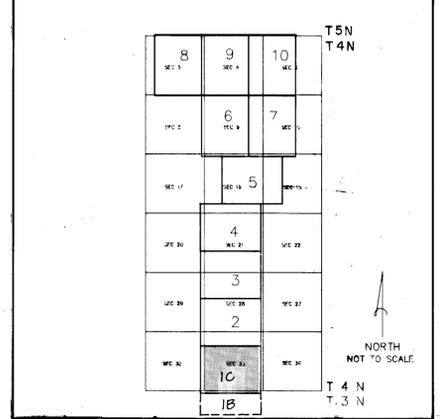
**ELEVATION REFERENCE MARKS**  
 NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM #	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #1	1434.54	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLO Brass Cap on 3" I.P. 1.2" above ground located at the southeast corner of section 32, T4N, R5W.
ERM #2	1429.71	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLO Brass Cap on 3" I.P. 1.1" above ground located at the northeast corner of section 4, T3N, R5W.
ERM #3	1440.21	This station is located approximately 20 miles +/- to the intersection of the Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.05' above ground located at approximately 800' east of the center of section 33, T4N, R5W approximately 200' west of dirt road.

**NOTES**

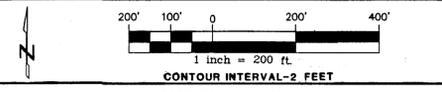
- Cross-section station 10,000 is hydraulic base line except as noted.

**INDEX MAP**



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

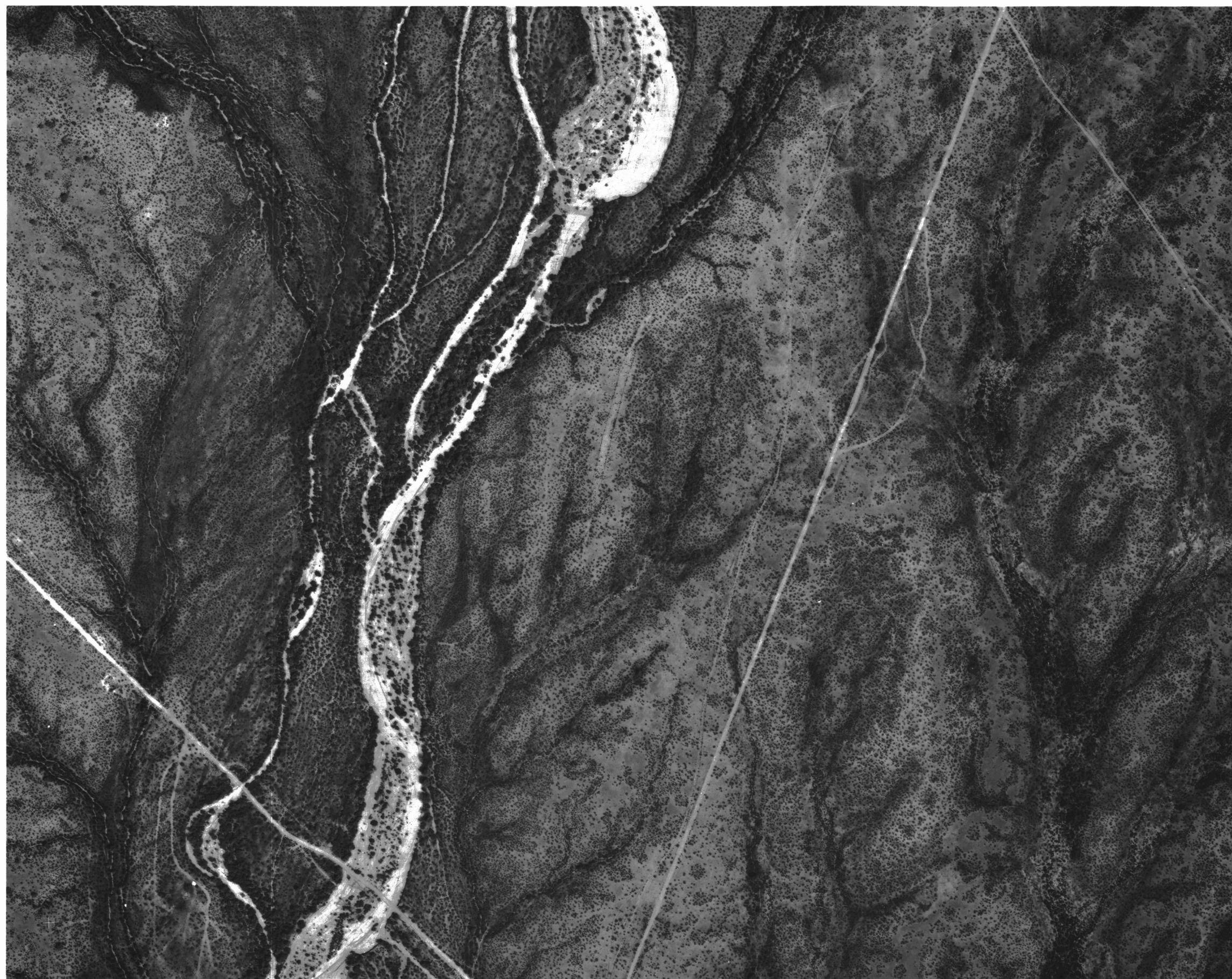


**WORK MAP**

**WOOD, PATEL & ASSOCIATES, INC.**

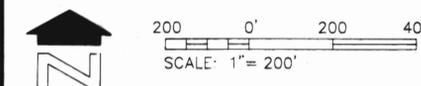
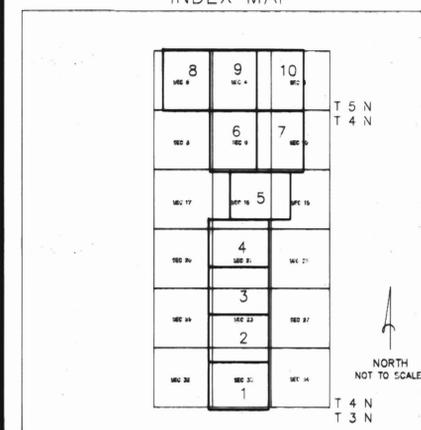
DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	I.G.	3/25/93	
PLAN CHK.	A.C.P.	3/25/93	
SUBMITTED BY:			
DATE			RECOMMENDED BY: _____ DATE: _____
			APPROVED BY: _____ DATE: _____
			CHEF ENGINEER AND GENERAL MANAGER
			SHEET 10 OF 10

FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
**STAR WASH F.I.S.**  
 F.C.D. CONTRACT NO. 92-06



NOTES

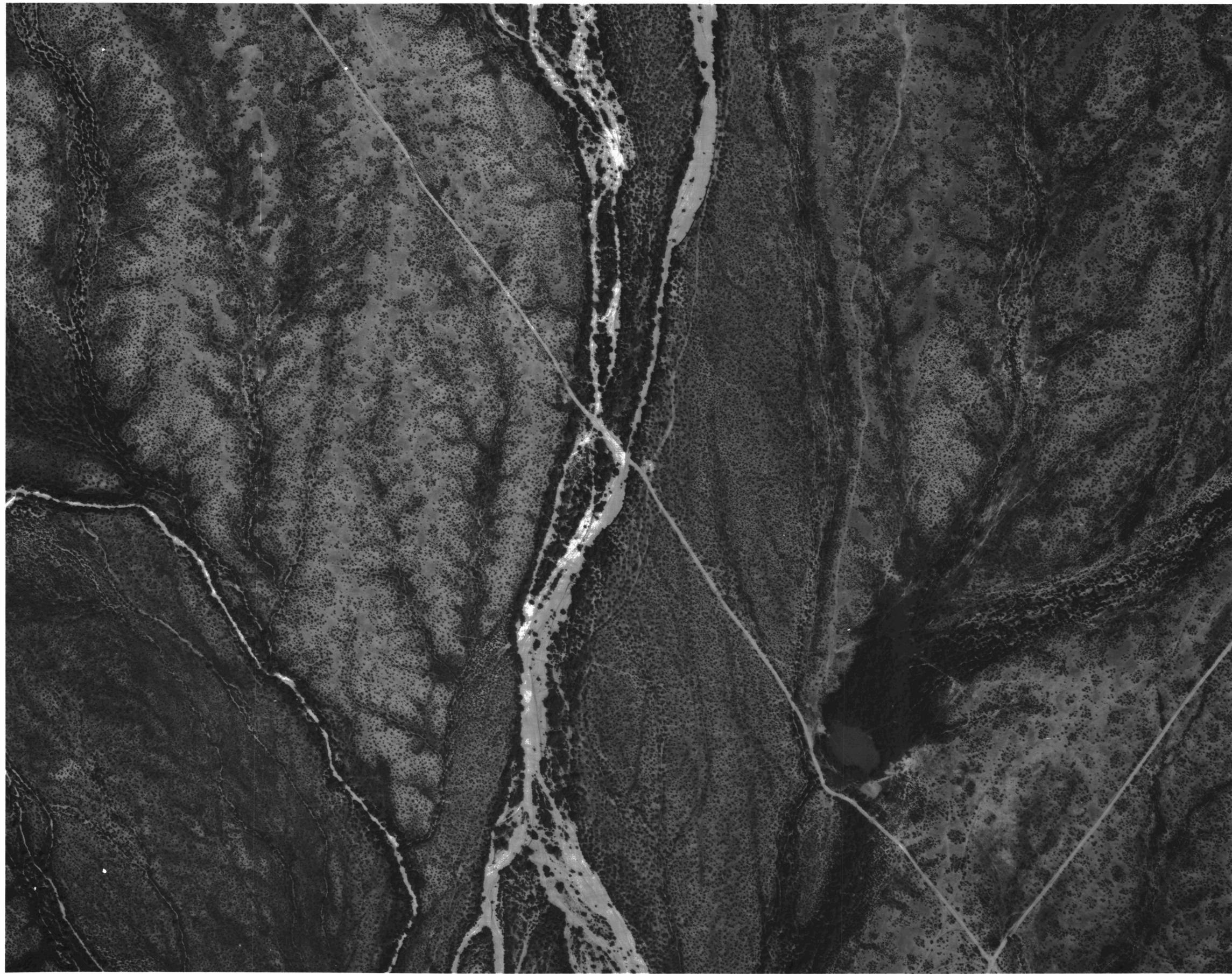
INDEX MAP



**WOOD/PATEL & ASSOCIATES**

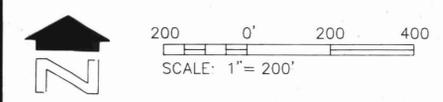
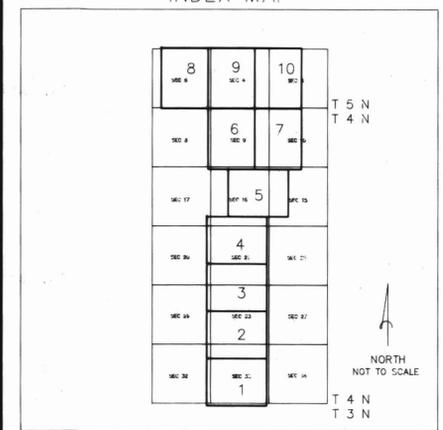
DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			
PLANS			RECOMMENDED BY: _____
PLANS CHK.			APPROVED BY: _____
SUBMITTED BY:			DATE: _____
			DATE: _____
			CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 1 OF 10

FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
**STAR WASH F.I.S.**  
 F.C.D. CONTRACT NO. **92-06**



NOTES

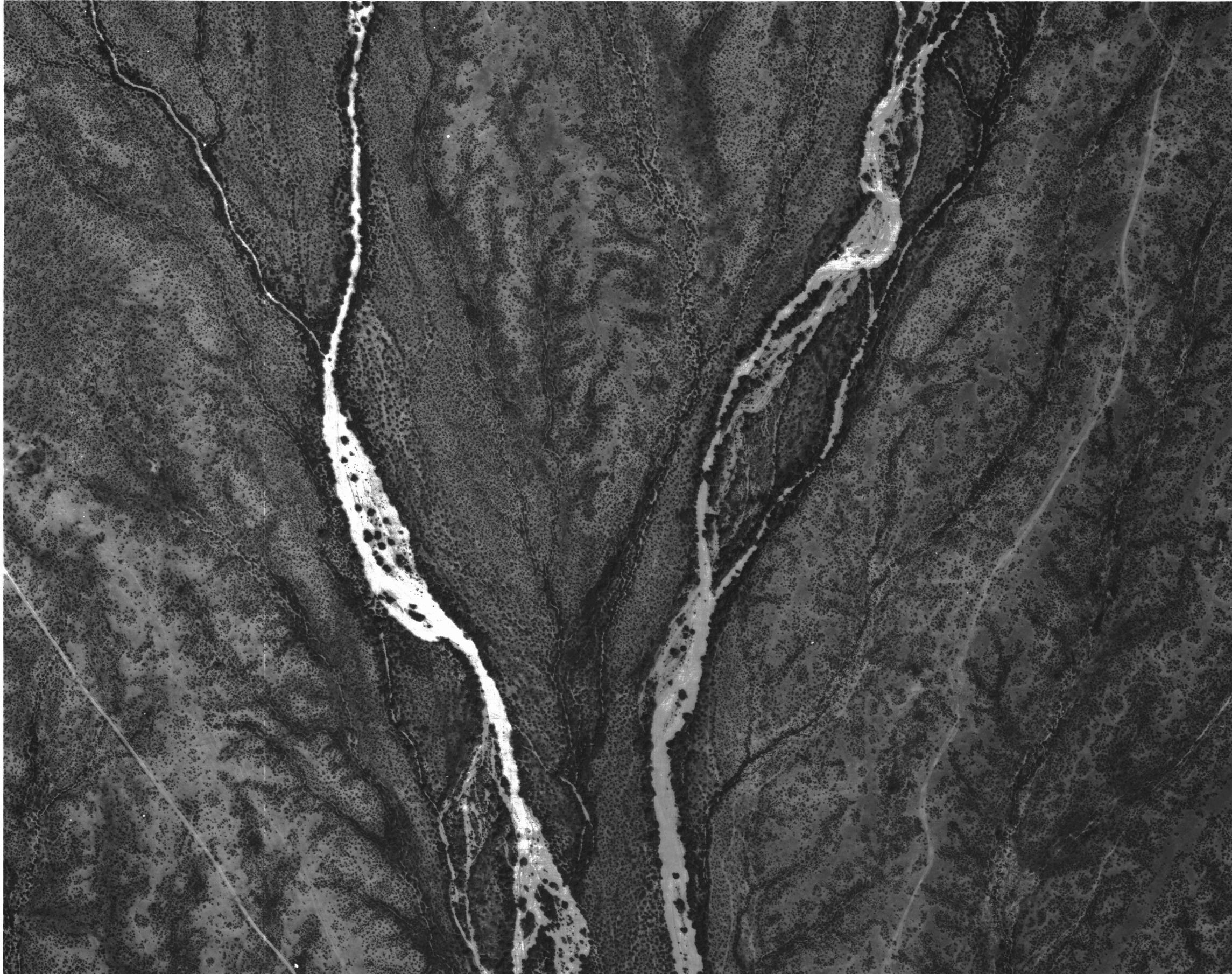
INDEX MAP



**WOOD/PATEL & ASSOCIATES**

DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			
PLANS			RECOMMENDED BY: _____ DATE _____
PLANS CHK.			APPROVED BY: _____ DATE _____
SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
	DATE:		SHEET <b>2</b> OF <b>10</b>

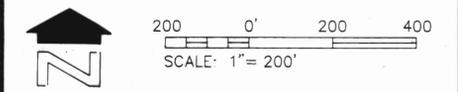
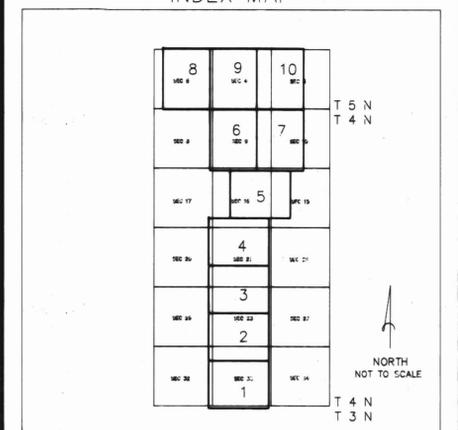
AERIAL MAPPING COMPANY, INC.  
 SURVEYING AND PHOTOGRAMMETRY  
 PHOTO DATE: 3-22-1993



FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
 STAR WASH F.I.S.  
 F.C.D. CONTRACT NO. 92-06

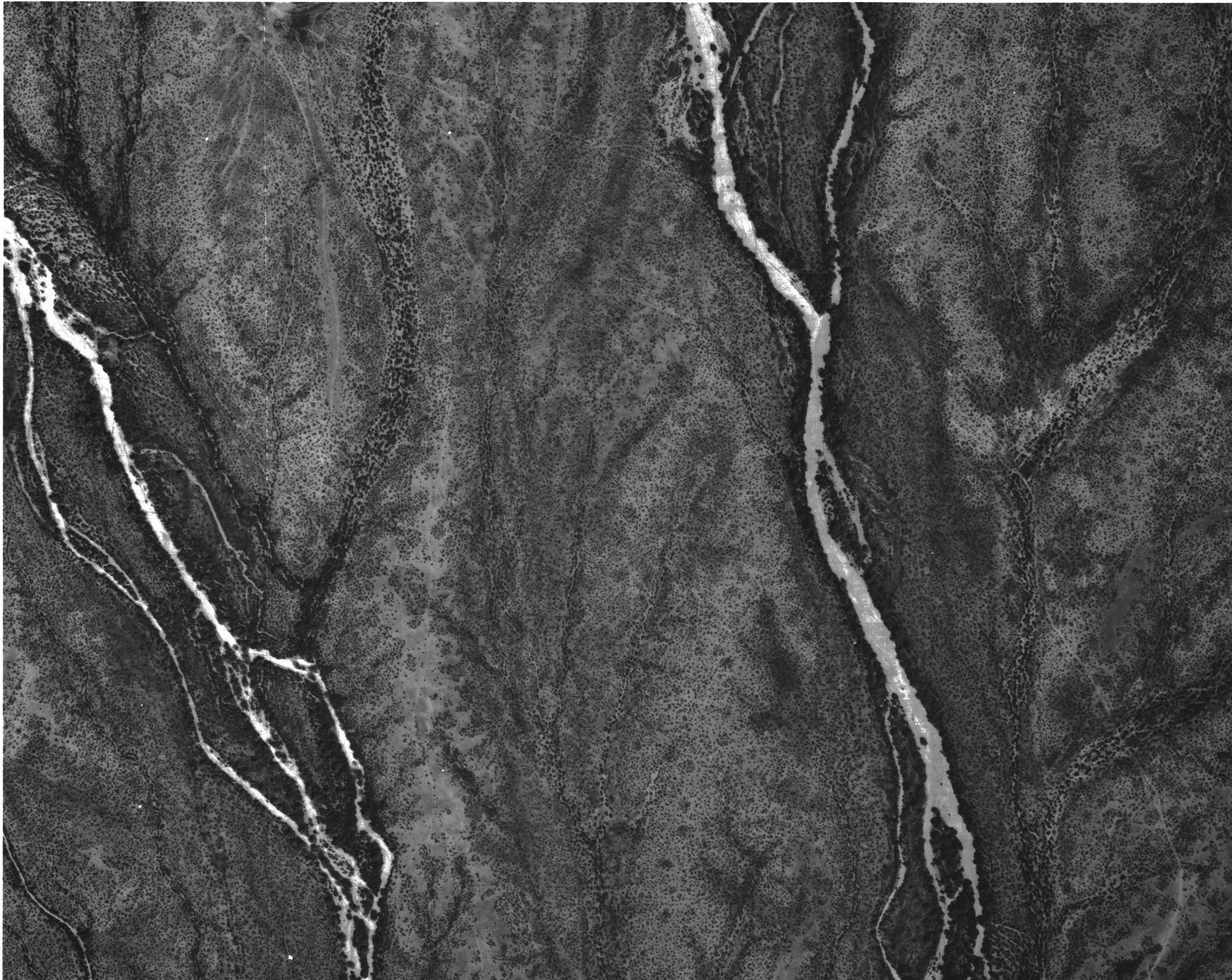
NOTES

INDEX MAP



WOOD/PATEL & ASSOCIATES

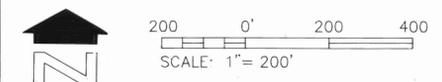
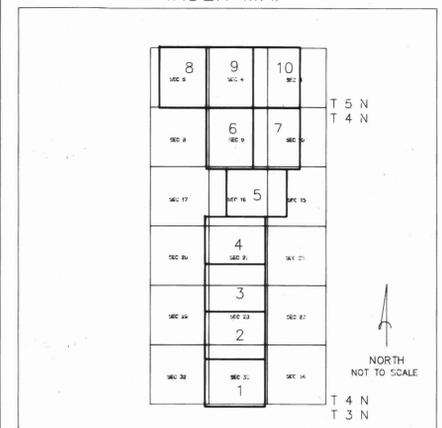
DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			
PLANS			RECOMMENDED BY: _____
PLANS CHK.			APPROVED BY: _____
SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
	DATE:		SHEET 3 OF 10



FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
 STAR WASH F.I.S.  
 F.C.D. CONTRACT NO. 92-06

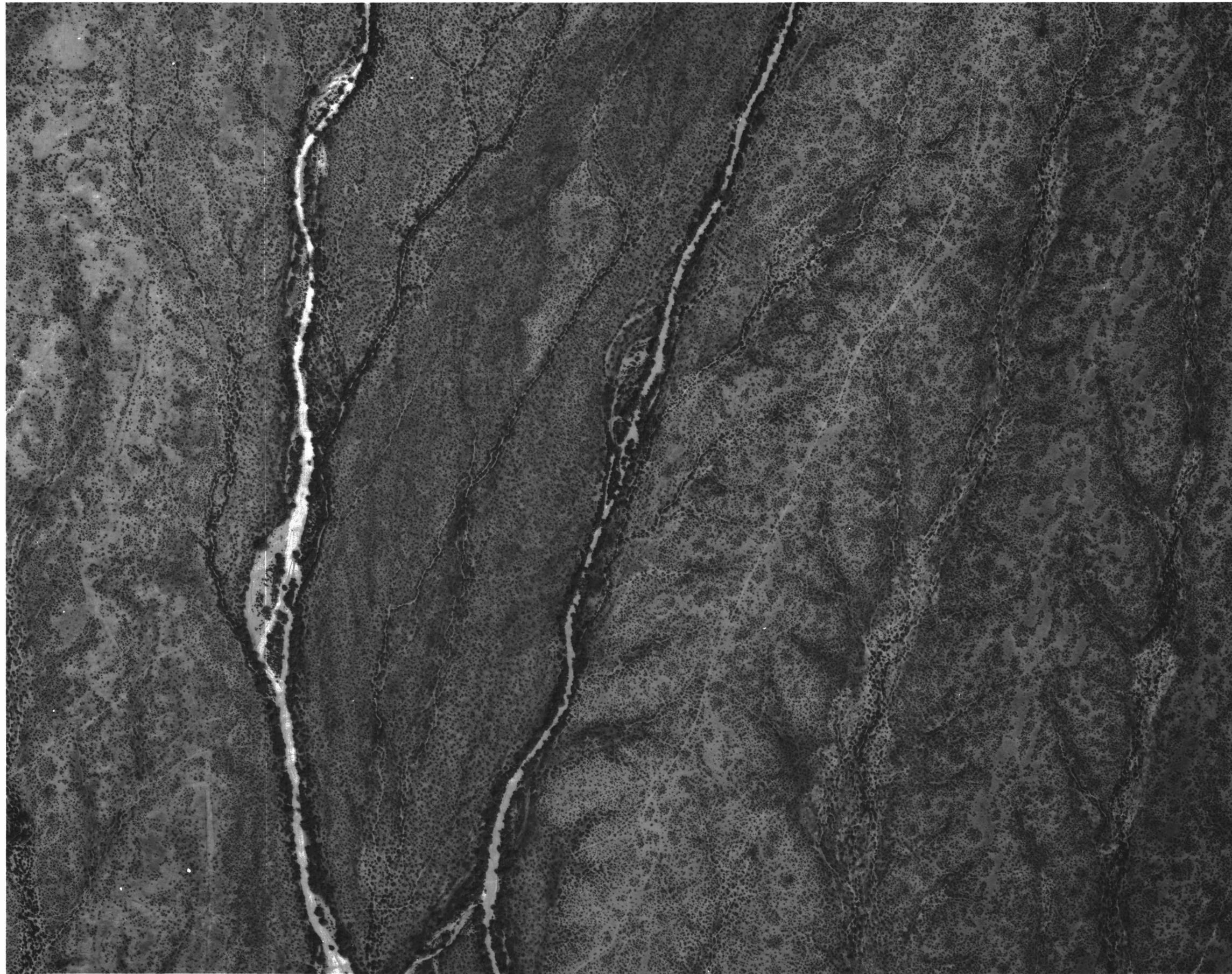
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WOOD/PATEL & ASSOCIATES

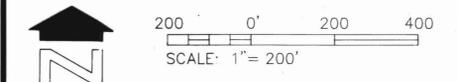
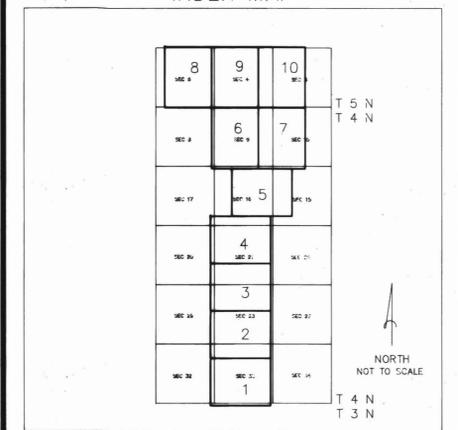
DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			
PLANS			RECOMMENDED BY:
PLANS CHK.			APPROVED BY:
SUBMITTED BY:			DATE
			DATE
			CHIEF ENGINEER AND GENERAL MANAGER
			SHEET
			4 OF 10



FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
**STAR WASH F.I.S.**  
 F.C.D. CONTRACT NO. 92-06

NOTES

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**WOOD/PATEL & ASSOCIATES**

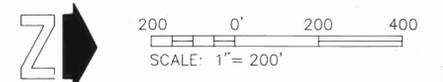
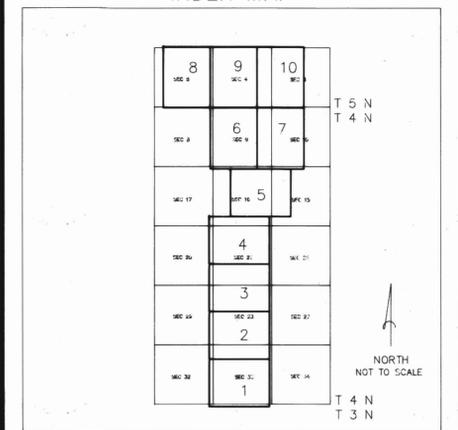
DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			RECOMMENDED BY:
PLANS			APPROVED BY: DATE
PLANS CHK.			DATE
SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
	DATE:		SHEET 5 OF 10

FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
**STAR WASH F.I.S.**  
 F.C.D. CONTRACT NO. 92-06



NOTES

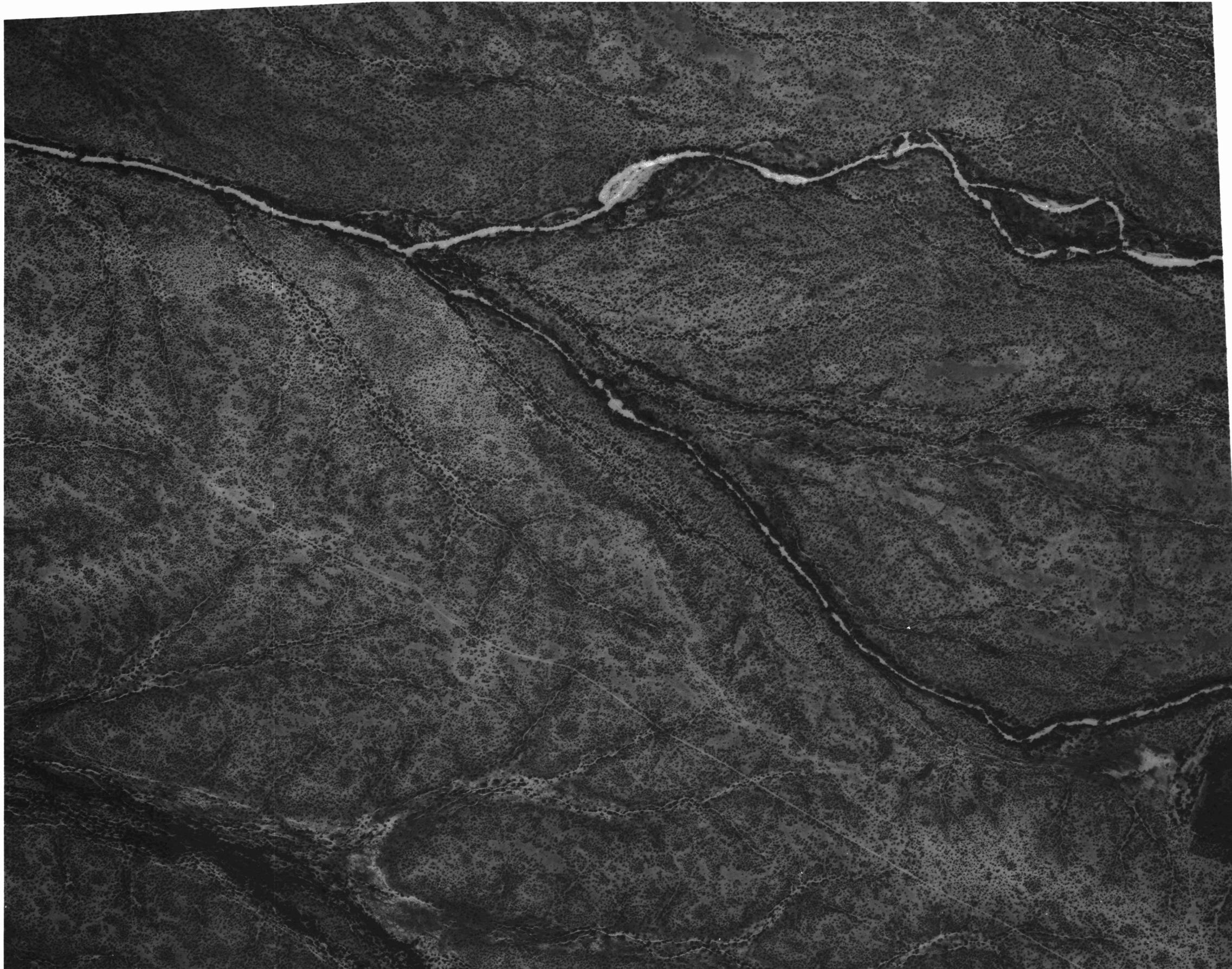
INDEX MAP



**WOOD/PATEL & ASSOCIATES**

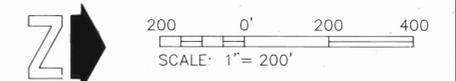
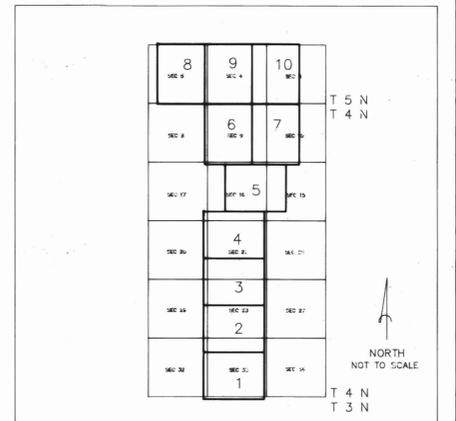
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DESIGN CHK.			
PLANS			RECOMMENDED BY: _____ DATE _____
PLANS CHK.			APPROVED BY: _____ DATE _____
SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
	DATE:		SHEET <b>6</b> OF <b>10</b>

FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
**STAR WASH F.I.S.**  
 F.C.D. CONTRACT NO. 92-06



NOTES

INDEX MAP



**WOOD/PATEL & ASSOCIATES**

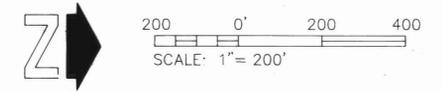
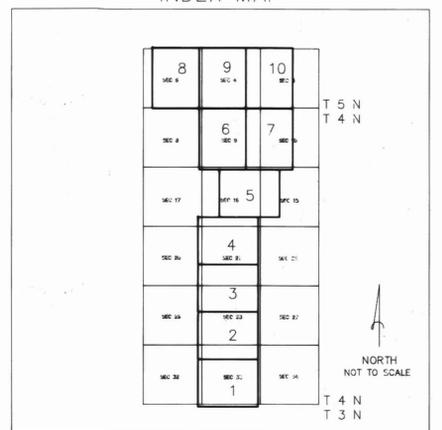
DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			RECOMMENDED BY: _____
PLANS			APPROVED BY: _____ DATE _____
PLANS CHK.			CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:	SHEET	7 OF 10

FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
 STAR WASH F.I.S.  
 F.C.D. CONTRACT NO. 92-06



NOTES

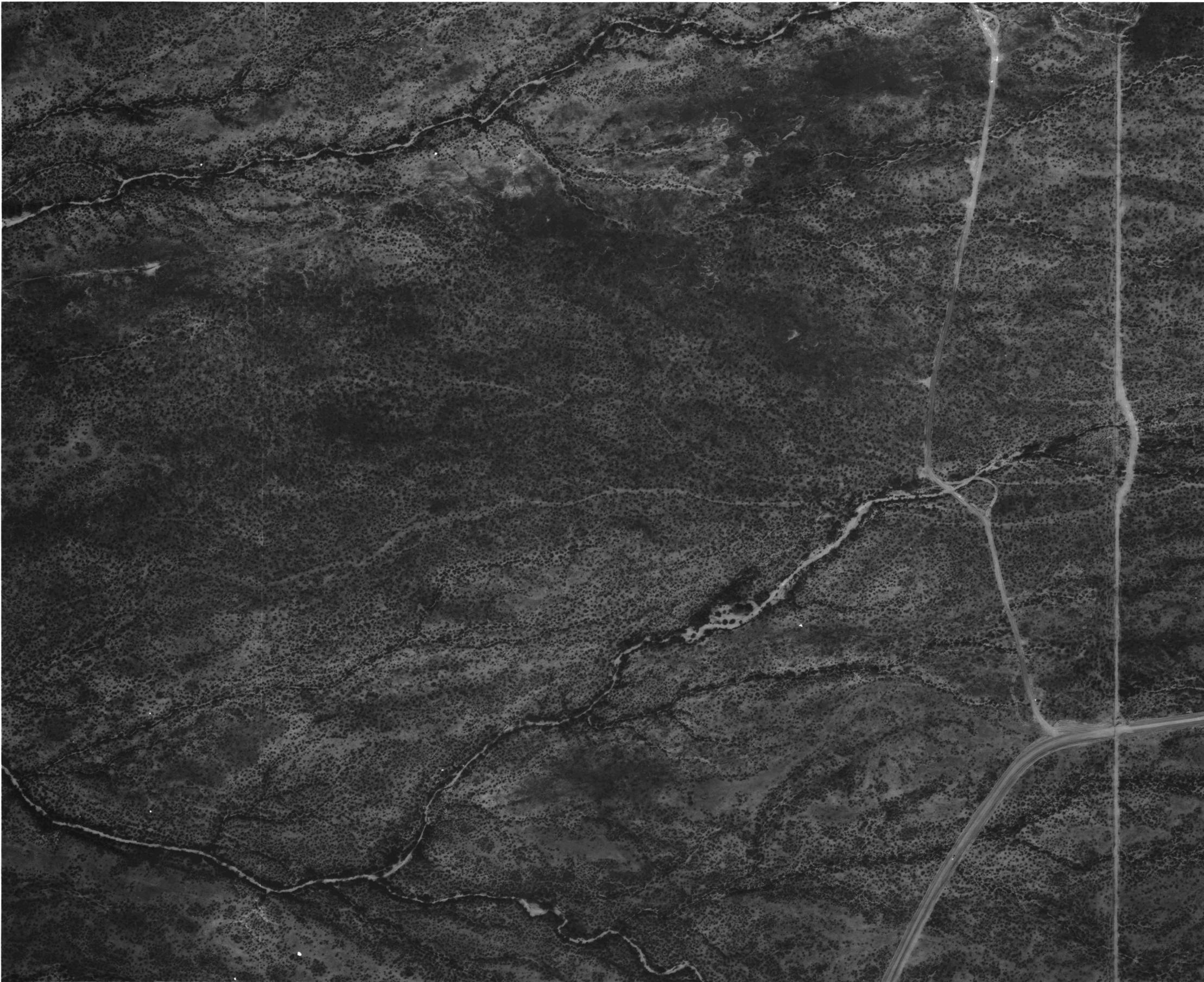
INDEX MAP



WOOD/PATEL & ASSOCIATES

DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK:			RECOMMENDED BY:
PLANS			APPROVED BY: DATE
PLANS CHK.			DATE
SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
	DATE:		SHEET 8 OF 10

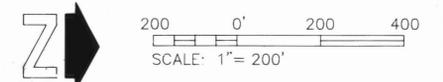
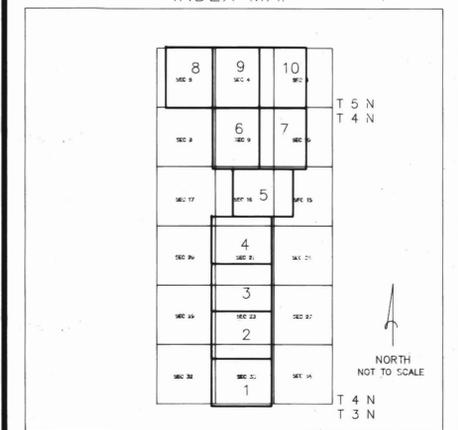
AERIAL MAPPING COMPANY, INC.  
 SURVEYING AND PHOTOGRAMMETRY  
 PHOTO DATE: 3-22-1993



FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
 STAR WASH F.I.S.  
 F.C.D. CONTRACT NO. 92-06

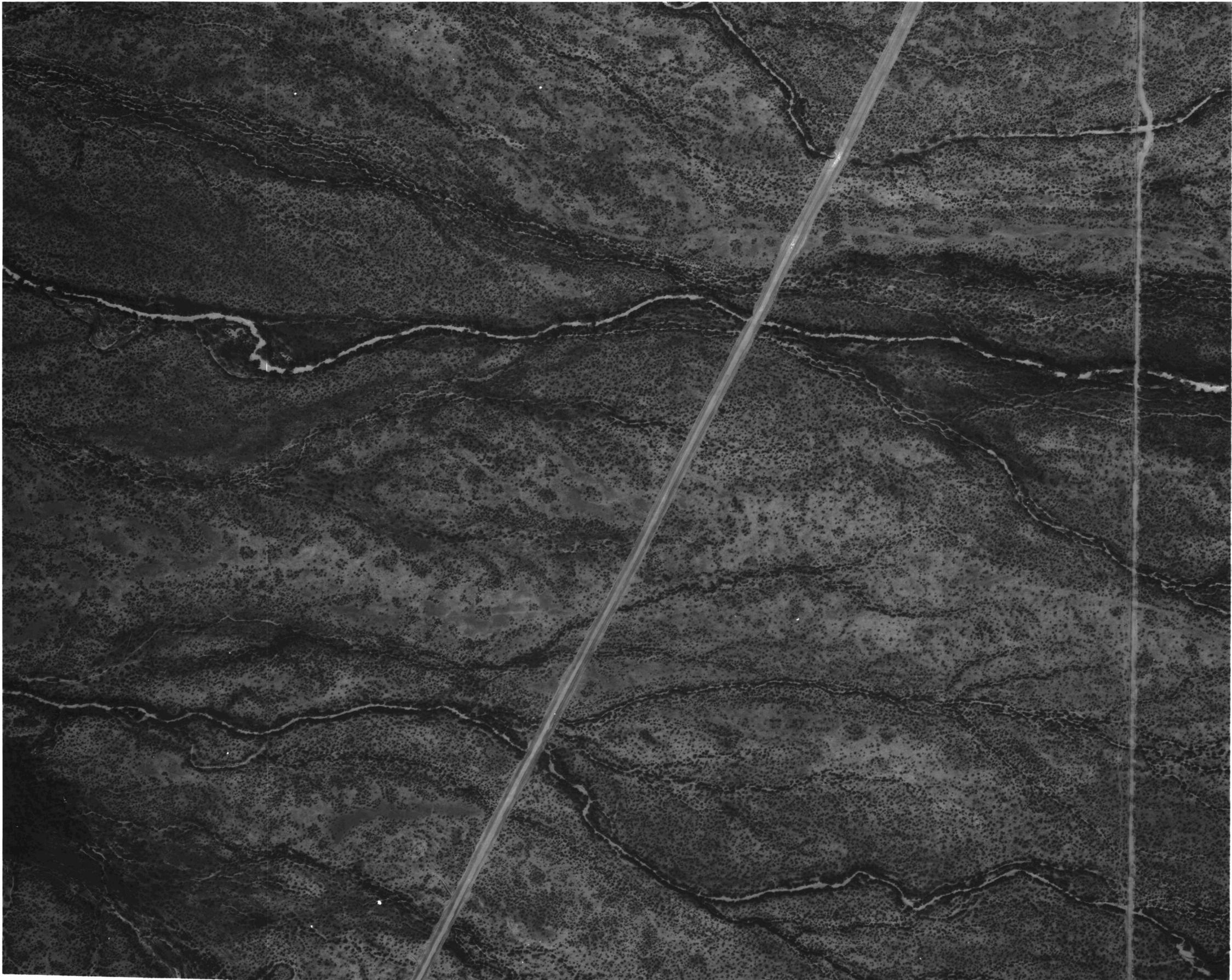
NOTES

INDEX MAP



WOOD/PATEL & ASSOCIATES

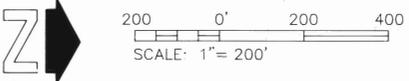
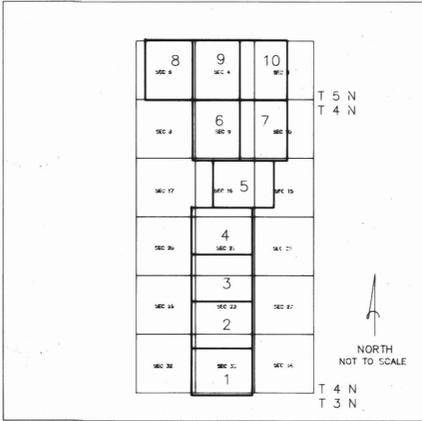
DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			RECOMMENDED BY:
PLANS			DATE
PLANS CHK.			APPROVED BY:
SUBMITTED BY:			DATE
			CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 9 OF 10



FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
**STAR WASH F.I.S.**  
 F.C.D. CONTRACT NO. 92-06

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**WOOD/PATEL & ASSOCIATES**

DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.			RECOMMENDED BY:
PLANS			DATE
PLANS CHK.			APPROVED BY:
			DATE
SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
	DATE:	SHEET	10 OF 10



100-YEAR FLOODPLAIN DELINEATION SUMMARY OF DISCHARGES

FLOODING SOURCE	REACH	DISCHARGE (cfs)
Star Wash	River Mile 1.660 to 2.908	17,600
	River Mile 3.002 to 3.897	13,900
	River Mile 3.998 to 6.308	10,700
	River Mile 6.400	7,200
	River Mile 6.509 to 6.964	4,700
River Mile 6.400	River Mile 7.062 to 7.442	4,800
	River Mile 7.541 to 7.797	4,900
	River Mile 7.900 to 8.571	3,200
Powerline Wash	River Mile 1.018 to 1.113	5,100
Tank Wash	River Mile 0.749 to 0.980	6,600
Tributary "A"	River Mile 1.104 to 1.580	8,700
	River Mile 1.692 to 3.279	6,000
Tributary "B"	River Mile 0.096 to 1.933	4,000
Tributary "C"	River Mile 0.087 to 0.789	2,600
Tributary "D"	River Mile 0.083 to 2.242	3,300
	River Mile 0.373 to 0.778	2,000
Tributary "E"	River Mile 0.885 to 1.277	3,000

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

## FLOOD DELINEATION STUDY OF

### STAR WASH & TRIBUTARIES

FCD 02-06

#### LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

#### ELEVATION REFERENCE MARKS

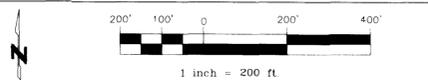
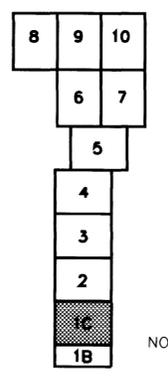
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM NUMBER	ELEVATION (FT)	DESCRIPTION, LOCATION
ERM #1	1434.54	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLO Brass Cap on 3" IP 1 1/2" above ground located at the southeast corner of section 32, 14N, R5W
ERM #2	1429.71	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a GLO Brass Cap on 3" IP 1 1/2" above ground located at the northeast corner of section 4, 13N, R5W
ERM #3	1440.21	This station is located approximately 20 miles +/- to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1 1/2" Rebar approximately 800' east of the center of section 33, 14N, R5W approximately 200' west of dirt road.

#### NOTES

\* Cross-section station 10,000 is hydraulic base line except as noted

#### INDEX MAP



#### WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK	J.G.T.	3/25/93	
PLANS	J.G.	3/25/93	
PLAN CHK.	A.C.P.	3/25/93	
SUBMITTED BY	Richard D. Cook	DATE 5/4/94	



#### MAPPING

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF  
**STAR WASH & TRIBUTARIES**  
FCD 02-06

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

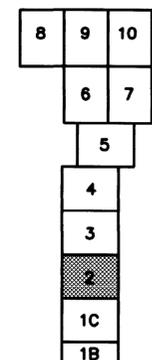
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929.

I.D. NUMBER	ELEVATION (FT.)	DESCRIPTION, LOCATION:
ERM #4	1451.32	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Railroad Spike Set Flush located at approximately 800' southeast on north 1/4 corner of section 33, T4N, R5W.
ERM #5	1449.72	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.67' above ground located at north 1/4 of section 33, T4N, R5W.
ERM #6	1454.93	This station is located approximately 20 miles +/- to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 1.0' above ground located at the northeast corner of Section 32, T4N, R5W.
ERM #7	1453.56	This station is located approximately 20 miles +/- to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 2" Rebar approximately 0.10' above ground located north of Steel Tower powerline approximately 700' north of North 1/4 of section 33, T4N, R5W.

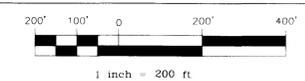
**NOTES**

\* Cross-section station 10,000 is hydraulic base line except as noted.

**INDEX MAP**



NORTH  
NOT TO SCALE



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
DESIGN CHK	J.G.T.	3/25/93	
PLANS	J.G.	3/25/93	
PLAN CHK.	A.C.P.	3/25/93	
SUBMITTED BY:	DATE 5/6/94		RECOMMENDED BY: _____ DATE: _____
			APPROVED BY: _____ DATE: _____
			CHEF ENGINEER AND GENERAL MANAGER
			SHEET 2 OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF

**STAR WASH & TRIBUTARIES**  
PCD 92-06

LEGEND

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

ELEVATION REFERENCE MARKS

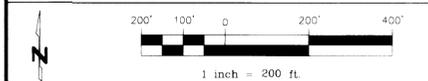
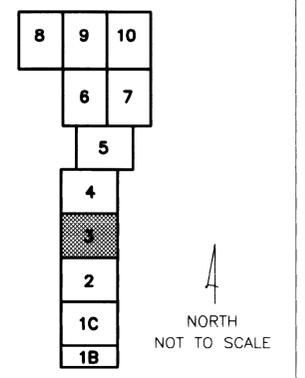
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

I.D. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #8	1485.08	This station is located approximately 20 + miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 + miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 1 2" above ground located at the northeast corner of section 29, 14N, R5W.
ERM #9	1485.19	This station is located approximately 20 + miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 + miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0 9" above ground located at the northeast corner of section 28, 14N, R5W.
ERM #10	1486.12	This station is located approximately 20 miles + to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 + miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1 2" Rebar Flush with ground approximately 100' south of the center of section 21, 14N, R5W.

NOTES

\* Cross-section station 10,000 is hydraulic base line except as noted.

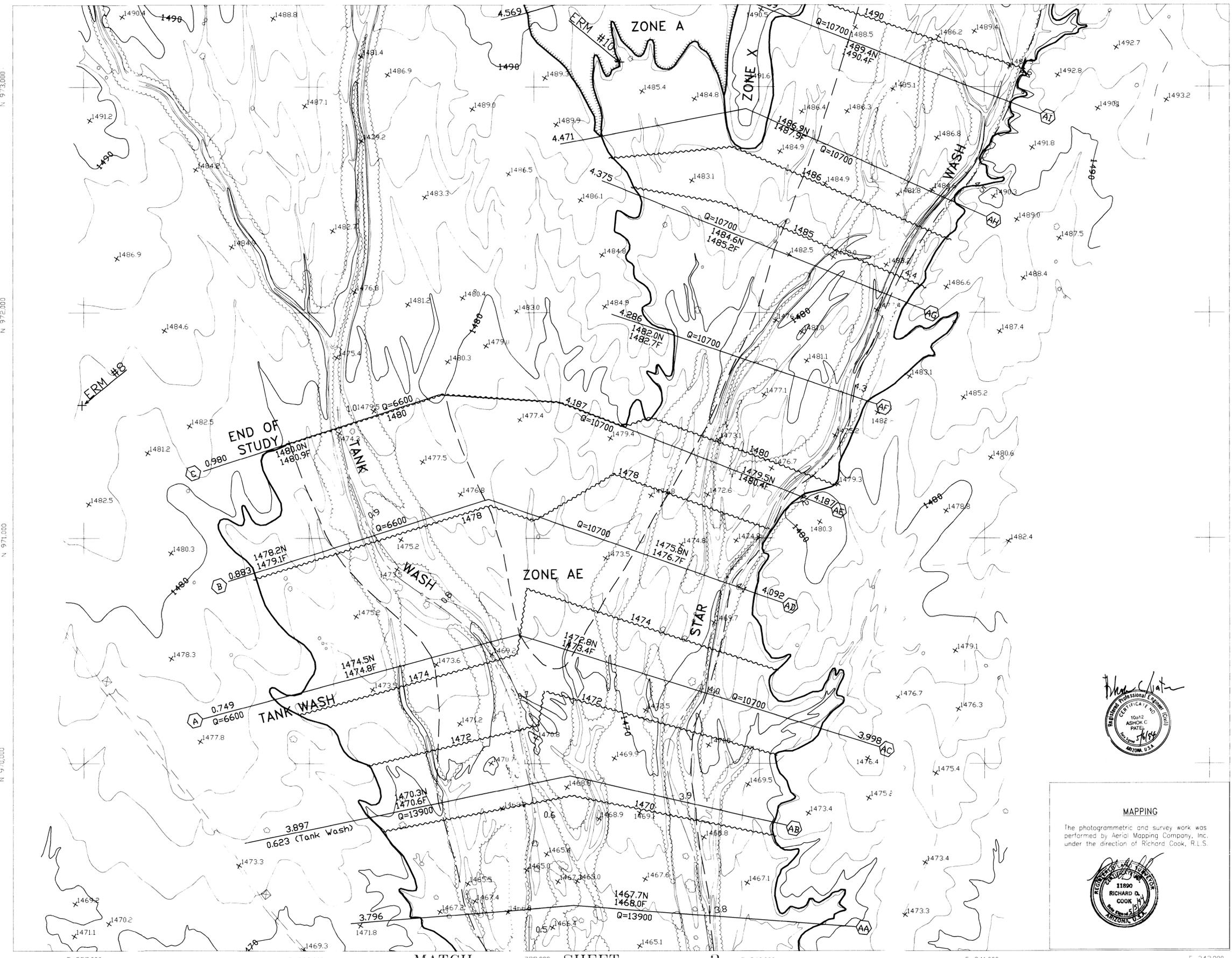
INDEX MAP



WORK MAP

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	I.G.	3/25/93	APPROVED BY
PLAN CHK.	A.C.P.	3/25/93	DATE
SUBMITTED BY	DATE 5/6/94		CHEF ENGINEER AND GENERAL MANAGER
SHEET		3	OF 10



**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF

**STAR WASH & TRIBUTARIES**  
PCD 92-06

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ID NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #1	1508.49	This station is located approximately 20 + miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 2" I.P. approximately 0.6' above ground located at the northeast corner of section 20, T4N, R5W

**MAPPING**

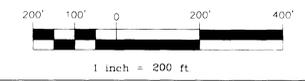
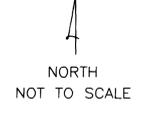
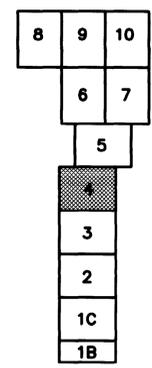
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



**NOTES**

\* Cross-section station 10,000 is hydraulic base line except as noted

**INDEX MAP**



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	I.G.	3/25/93	APPROVED BY _____ DATE _____
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY	<i>R.D. Cook</i>	DATE 3/6/94	SHEET 4 OF 10

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF

**STAR WASH & TRIBUTARIES**  
FCD 92-06

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

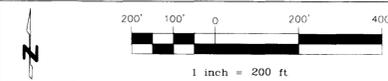
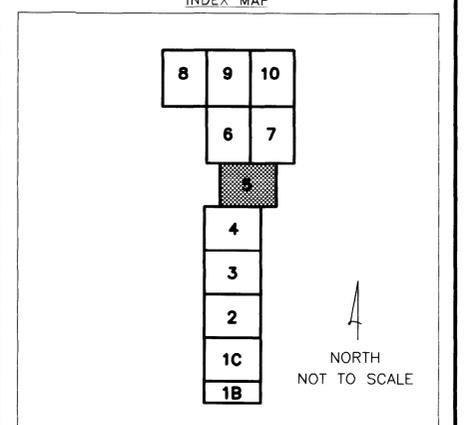
**ELEVATION REFERENCE MARKS**

NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

I.D. NUMBER	ELEVATION (FT.)	DESCRIPTION / LOCATION
ERM #12	1521.96	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Agula Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.1' above ground located approximately 200' south of the center of section 16, 14S, N5W.

NOTE: Cross-section station 10,000 is hydraulic base line except as noted

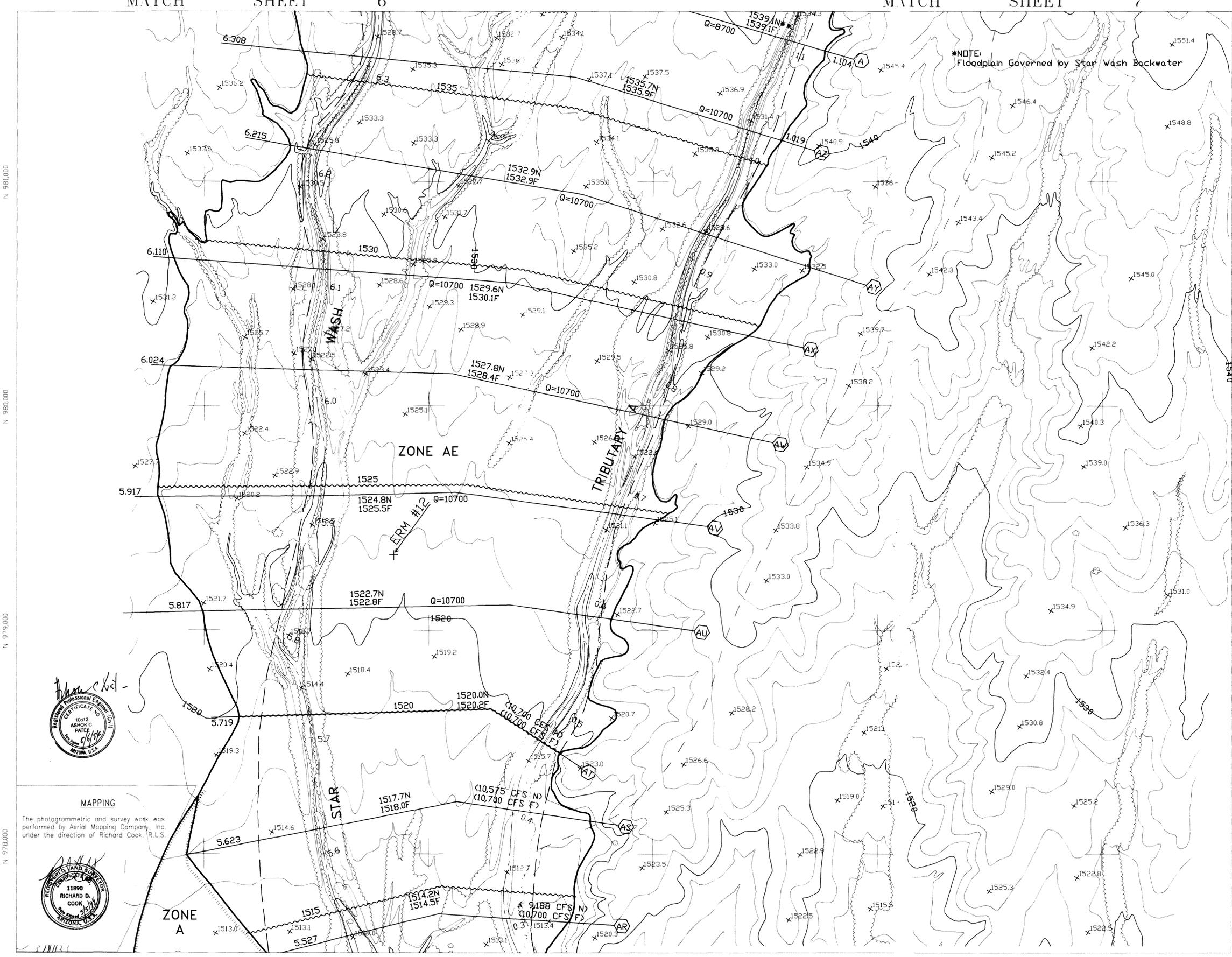
**INDEX MAP**



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	J.G.	3/25/93	
PLAN CHK.	A.C.P.	3/25/93	
SUBMITTED BY	<i>[Signature]</i>	DATE 3/6/94	
RECOMMENDED BY _____ DATE _____			SHEET 5 OF 10
APPROVED BY _____ DATE _____			
CHIEF ENGINEER AND GENERAL MANAGER			



**MAPPING**  
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF  
**STAR WASH & TRIBUTARIES**  
FCD 92-06

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

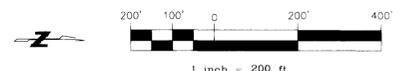
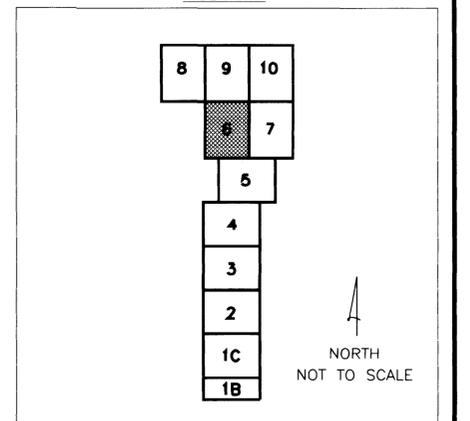
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM #	ELEVATION (FT.)	DESCRIPTION, LOCATION
ERM #13	1574.52	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4-1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1" Rebar approximately 0.15' above ground approximately 1500' southwest of the northeast corner of section 8, 14N, R5W.
ERM #14	1567.54	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4-1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1" Rebar flush with the ground approximately 800' southwest of the north 1/4 of section 9, 14N, R5W.

**NOTES**

- Cross-section station 10,000 is hydraulic base line except as noted

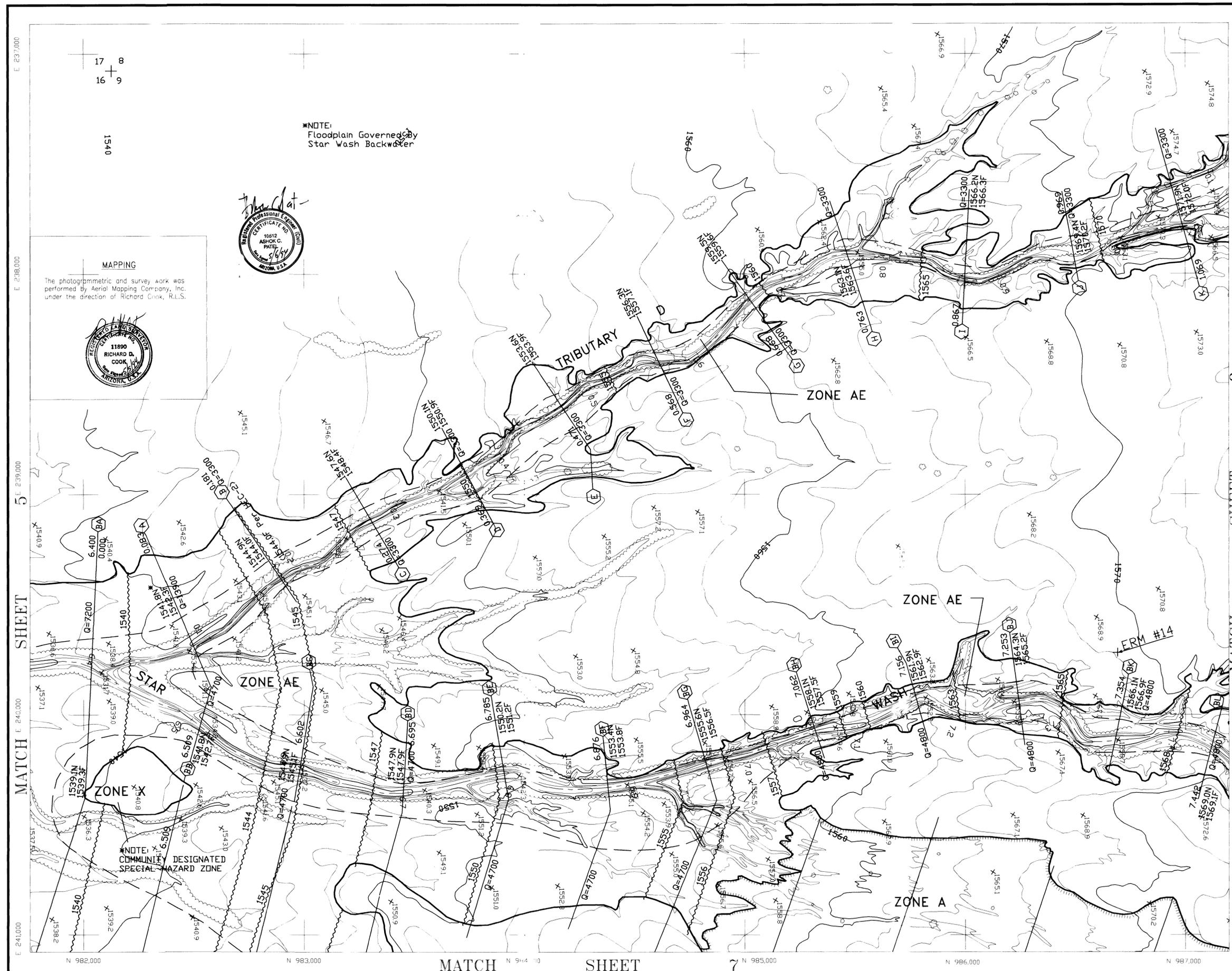
**INDEX MAP**



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	I.G.	3/25/93	APPROVED BY: _____ DATE: _____
PLAN CHK.	A.C.P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED	<i>Wood Patel</i>	DATE 3/24	SHEET 6 OF 10



\*NOTE:  
Floodplain Governed by  
Star Wash Backwater



**MAPPING**  
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
**FLOOD DELINEATION STUDY OF STAR WASH & TRIBUTARIES**  
**FCD 82-08**

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929



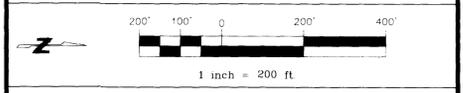
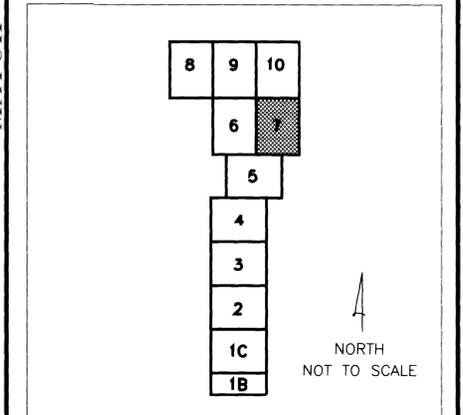
**ELEVATION REFERENCE MARKS**

NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

ERM NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #15	1548.40	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 7" IP approximately 1.3' above ground located at the northeast corner of section 16, 14N, R5W.
ERM #16	1551.80	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 3/4" IP approximately 1.25' above ground located at the north 1/4 of section 15, 14N, R5W.
ERM #17	1573.42	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar Flush with ground approximately 800' south of the northeast corner of section 9, 14N, R5W.
ERM #18	1585.20	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 800' south of the north 1/4 corner of section 10, 14N, R5W.

**NOTES**

- \* Cross-section station 10.000 is hydraulic base line except as noted



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	I.C.	3/25/93	RECOMMENDED BY: _____ DATE: _____
PLAN CHK.	A.C.P.	3/25/93	APPROVED BY: _____ DATE: _____
SUBMITTED BY:	<i>John Chai</i>	DATE: 5/6/94	CHEF ENGINEER AND GENERAL MANAGER
			SHEET 7 OF 10

AERIAL MAPPING COMPANY, INC.  
 SURVEYING AND PHOTOGRAMMETRY  
 FLIGHT DATE 10-20-1992

**MAPPING**

The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS  
 1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY  
 DATA PROVIDED BY PROJECT ENGINEERING AND AERIAL MAPPING COMPANY, INC.

**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF

**STAR WASH & TRIBUTARIES**  
FCD 92-08

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

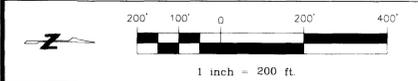
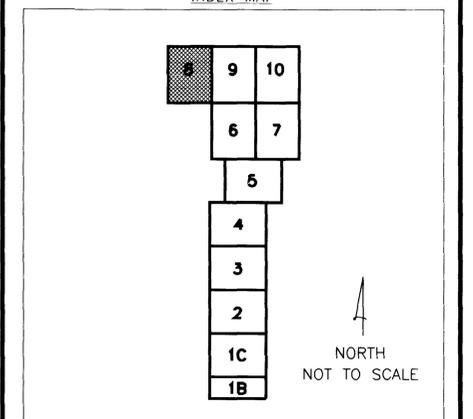
NOTE: All Elevations Are Based on a National Geodetic Vertical Datum of 1929

ID NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #19	1578.59	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquilo Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.09' above ground located at approximately 1000' west-southwest of the north 1/4 corner of section 8, T4N, R5W.
ERM #20	1622.24	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquilo Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.24' above ground at approximately 30' south of the southeast corner of section 32, T4N, R5W.
ERM #21	1622.62	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquilo Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 3" I.P. approximately 0.40' above ground located at the southeast corner of section 32, T4N, R5W.
ERM #22	1609.79	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquilo Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a 1/2" Rebar approximately 0.37' above ground located at approximately 1000' west of the northeast corner of section 5, T4N, R5W.

**NOTES**

\* Cross-section station 10,000 is hydraulic base line except as noted

**INDEX MAP**



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	I.G.	3/25/93	RECOMMENDED BY: _____ DATE: _____
PLAN CHK.	A.C.P.	3/25/93	APPROVED BY: _____ DATE: _____
SUBMITTED BY: <i>Wm. Patel</i>	DATE: <i>3/4/94</i>	SHEET 8 OF 10	



MAPPING  
The photogrammetric and survey work was performed by Aerial Mapping Company, Inc. under the direction of Richard Cook, R.L.S.



**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF

**STAR WASH & TRIBUTARIES**  
FCD 92-08

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

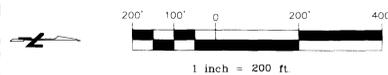
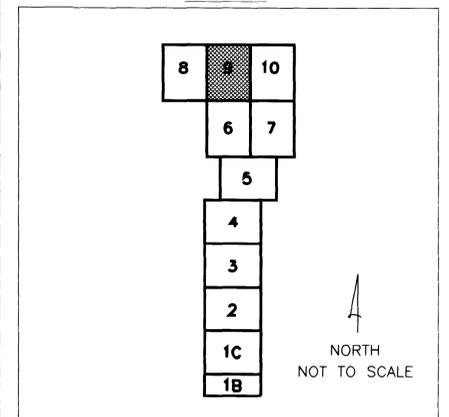
ID. NUMBER ELEVATION (FT.) DESCRIPTION/LOCATION

ERM #23 1576.91 This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aquila Road, then south on Vulture Mine Road 4-1/2 +/- miles to a fence and cattle guard, take track road east along south side of fence. This mark is a Brass Cap on 3/4" P. approximately 1.14' above ground located at the northeast corner of section 8, T4N, R5W.

**NOTES**

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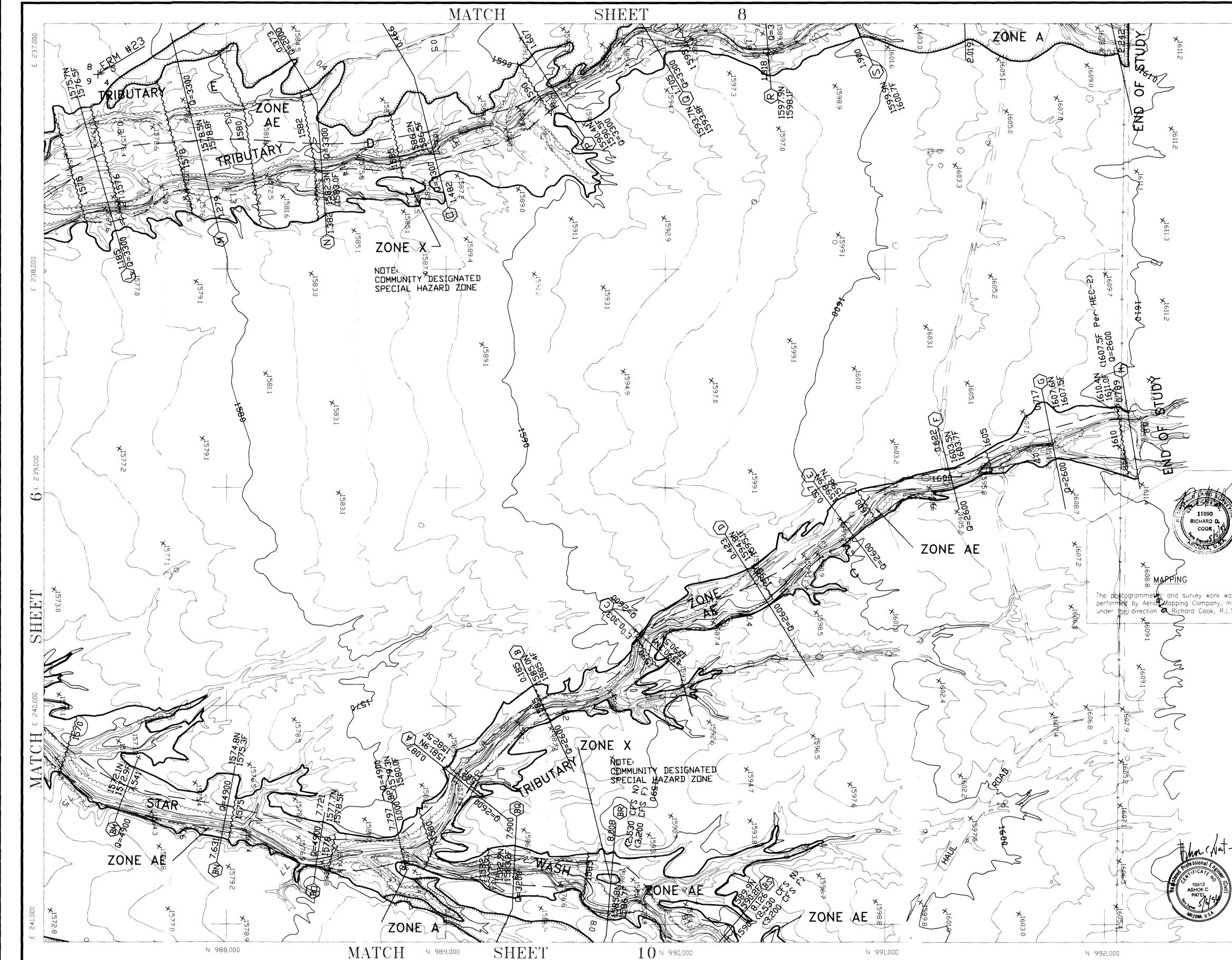
**INDEX MAP**



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A.J.R.	3/25/93	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
DESIGN CHK.	J.G.T.	3/25/93	
PLANS	I.G.	3/25/93	
PLAN CHK.	A.C.P.	3/25/93	
SUBMITTED BY	<i>Wood Patel</i>	DATE 5/4/94	
RECOMMENDED BY: _____ DATE _____			CHIEF ENGINEER AND GENERAL MANAGER
APPROVED BY: _____ DATE _____			
SHEET 9 OF 10			



AERIAL MAPPING COMPANY, INC.  
SURVEYING AND PHOTOGRAMMETRY  
FLIGHT DATE 10-20-1992

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS  
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY  
DATA PROVIDED BY PROJECT ENGINEERING AND AERIAL MAPPING COMPANY, INC.

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF

**STAR WASH & TRIBUTARIES**  
FCD 92-06

**LEGEND**

- 100-Year Floodplain Boundary
- Floodway Boundary
- Zone "A" Boundary
- Hydraulic Base Line With River Mile
- Cross-Section
- Elevation Reference Marks
- Base Flood Elevation
- Zone Designation

**ELEVATION REFERENCE MARKS**

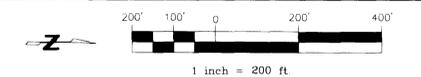
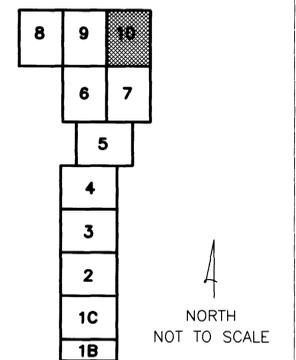
NOTE: All Elevations Are Based on National Geodetic Vertical Datum of 1929

I.D. NUMBER	ELEVATION (FT.)	DESCRIPTION/LOCATION
ERM #24	1580.03	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aguilero Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east going south side of fence. This mark is a Brass Cap on 2" IP approximately 0.85' above ground located at the northeast corner of section 9, T4N, R5W
ERM #25	1606.54	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aguilero Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east going south side of fence. This mark is a 1"x2"x12" Stake approximately 0.17' above ground located approximately 300' east of the northeast corner of section 4, T4N, R5W
ERM #26	1612.12	This station is located approximately 20 +/- miles south of Wickenburg on the Vulture Mine Road to the intersection of Aguilero Road, then south on Vulture Mine Road 4 1/2 +/- miles to a fence and cattle guard, take track road east going south side of fence. This mark is a 1/2" Rebar approximately 0.11' above ground located near approximately north 1/4 section 4, T4N, R5W

**NOTES**

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**INDEX MAP**



**WORK MAP**

WOOD, PATEL & ASSOCIATES, INC.

DESIGN	A. J. R.	3/25/93	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	J. G. T.	3/25/93	
PLANS	I. G.	3/25/93	APPROVED BY: _____ DATE: _____
PLAN CHK.	A. C. P.	3/25/93	CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY: <i>Doree Clark</i>	DATE: <i>5/1/94</i>	SHEET 10	OF 10

