Flood Control District of Maricopa County, Arizona
APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF WATERSHED "OO"
(FCD 2000C019)

Upper Jackrabbit Wash and Tributaries

TECHNICAL DATA NOTEBOOK
VOLUME 2 of 2

Submitted by:

JE Fuller / Hydrology and Geomorphology, Inc.
6101 S. Rural Road, Suite 110
Tempe, Arizona 85283
(480) 752-2124

In Association With:

Wood, Patel & Associates, Inc.
2051 West Northern Ave, Suite 100
Phoenix, Arizona 85021
(602) 335-8500

On behalf of:

Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, AZ 85009
(602) 506-1501

December 2003

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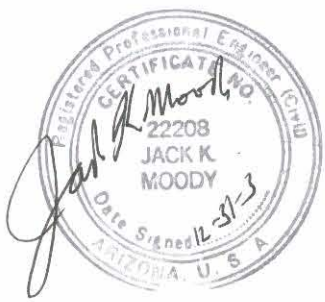

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EXHIBITS

Exhibit A: Hydrology Study Work Map
Exhibit B: Hydraulics Study Work Maps
Exhibit C: Annotated Flood Insurance Rate Maps
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PREFACE

This approximate Zone A floodplain delineation study was conducted for the Flood Control District of Maricopa County (FCDMC) by JE Fuller / Hydrology and Geomorphology, Inc. (JEF) in association with Wood, Patel & Associates, Inc. (Wood/Patel), and Argus Consulting (Argus). JEF was responsible for the overall management and integration of the work products from the other team members as well as for the performance of the hydrology for the entire study area and the approximate Zone A floodplain delineation of Hassayampa River Tributaries and Lower Jackrabbit Wash Tributaries located on the Hassayampa Plain. Wood/Patel concurrently performed the approximate Zone A floodplain delineations for both Coyote Wash and Upper Jackrabbit Wash and their tributaries. Argus assisted JEF with portions of the approximate Zone A floodplain delineation of Hassayampa River Tributaries and Lower Jackrabbit Wash Tributaries. All team members contributed to the development of the reconnaissance report. This study is presented in TDN format for Upper Jackrabbit Wash and Tributaries.

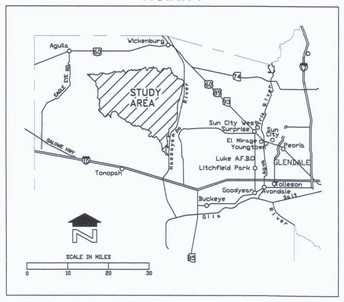
EXHIBIT A
HYDROLOGY STUDY WORK MAP

Approximate Zone A FDS of Watershed "OO"
Upper Jackrabbit Wash and Tributaries, FCD 2000C019
Wood, Patel & Associates, Inc.

LEGEND

- BASIN BOUNDARY (from FCD 90-05)
- BASIN ID (from FCD 90-05) — 10K
- CONCENTRATION POINT (from FCD 90-05) — 89, 2900 CFS
- BASIN BOUNDARY (from FCD 2000C019)
- BASIN ID (from FCD 2000C019) — 10K_1
- CONCENTRATION POINT (from FCD 2000C019) — 132, 900 CFS
- APPROXIMATE ZONE A STUDY REACH — T5 R5 S33
- MODELED SPLIT FLOW LOCATION — 10K_1

VICINITY



4500' 0' 4500' 9000'

SCALE: 1 INCH = 4500 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERSHED "OO"

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY, FCD 2000C019

EXHIBIT A
HYDROLOGY WORK MAP

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.

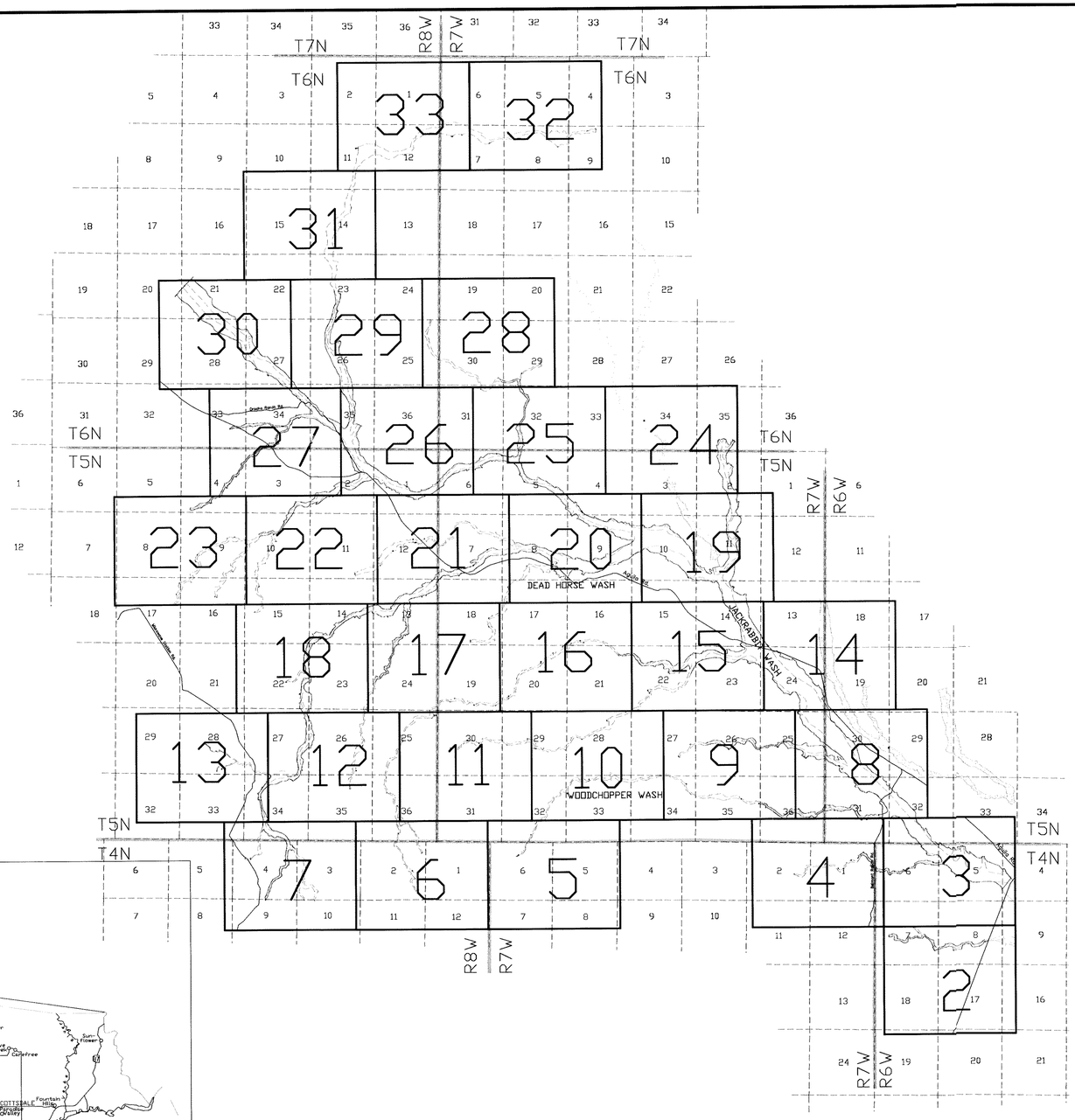
in association with

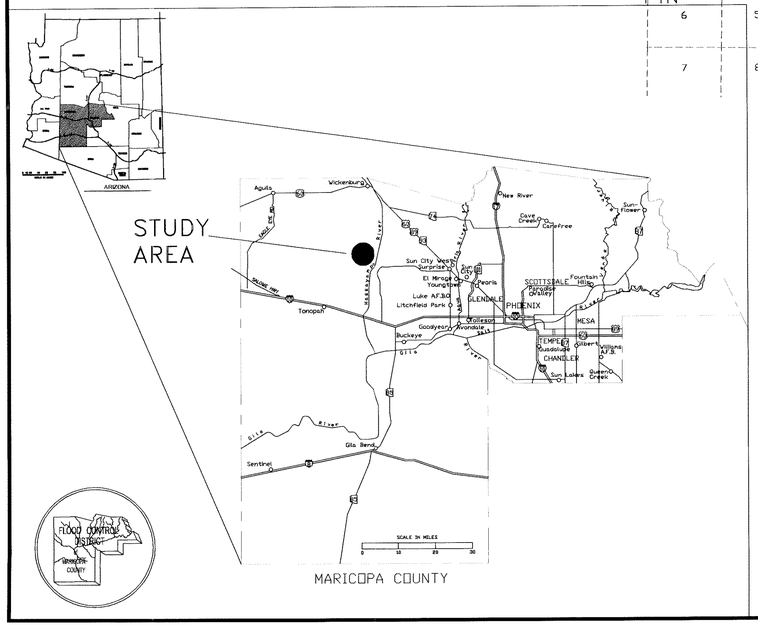
WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 558-8500

ARGUS CONSULTING

EXHIBIT B
HYDRAULICS STUDY WORK MAPS

Approximate Zone A FDS of Watershed "OO"
Upper Jackrabbit Wash and Tributaries, FCD 2000C019
Wood, Patel & Associates, Inc.





LEGEND

SECTION BOUNDARY

STUDY REACH AND REACH ID — T5 R5 S36

ROAD — Carefree Hwy.

SHEET OUTLINE AND NUMBER — 5

NOTES

1. HORIZONTAL PROJECTION IS ARIZONA STATE PLANE CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
2. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

STATEMENT OF PROFESSIONAL REGISTRATION

THE APPROXIMATE ZONE A FLOODPLAIN AND FLOODWAY DELINEATION WERE PREPARED UNDER MY DIRECT SUPERVISION USING HYDROLOGY FROM FCD 90-05 AND NEW HYDROLOGY UNDER THIS CONTRACT.

N

SCALE
3750' 0' 3750' 7500'

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION
STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

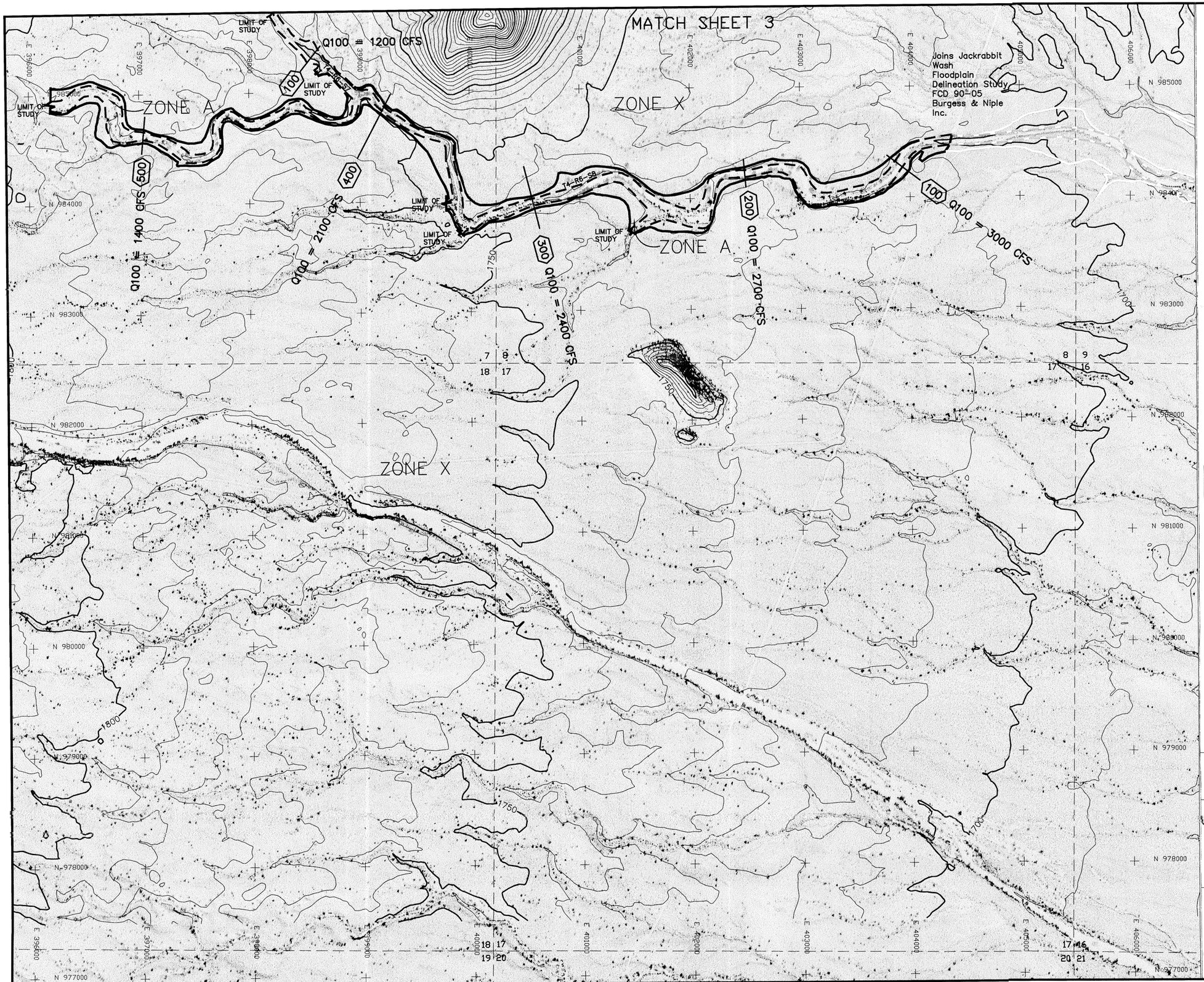
Registered Professional Engineer (Civil)
Certificate No. 22208
JACK K. MOODY
Date Signed 12-31-03
ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TUCSON, ARIZONA - 480-752-2126

IN ASSOCIATION WITH
WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8500

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-596-1111

WP# 001218



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION (200)
- ZONE DESIGNATIONS: ZONE A
- CORPORATE LIMITS: Corporate Limits
- COUNTY BOUNDARY: County Boundary
- SECTION BOUNDARY: 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK: AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

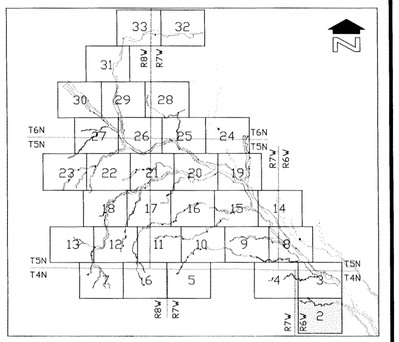
NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	4IM2 (Not Shown, Outside Boundary of Sheet)	992315.696	395092.070	1820.600

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION
STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

Registered Professional Engineer (Civil) Certificate No. 22208 JACK K. MOODY Date Signed 11-7-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-5124
IN ASSOCIATION WITH
WOOD/PATEL ASSOCIATES
Civil Engineers
Flood Hydrology
Mesa, Arizona
(602) 335-8600
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-998-2211

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

MATCH SHEET 8

MATCH SHEET 4

MATCH SHEET 2

ZONE X

ZONE A

ZONE X

ZONE X

Q100 = 21900 CFS

Q100 = 1500 CFS

Q100 = 1400 CFS

LIMIT OF STUDY

JACKRABBIT WASH

T4-R6-S4

T4-R6-S5

Joins Jackrabbit Wash Floodplain Delineation Study FCD 90-05 Burgess & Niple Inc.

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
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ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
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NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
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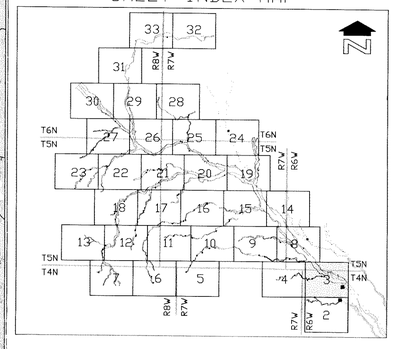

400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) JACK K. MOODY 22208 Date Signed 12-17 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8500

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480-948-1211

WP# 001218

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LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

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NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
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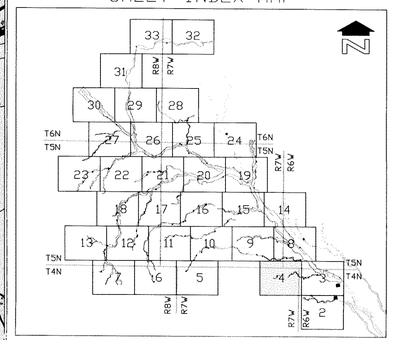
SHEET INDEX MAP



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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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WATERSHED "00"

DECEMBER 2003

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ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480 596 1111

WP# 001218

SHEET 4 OF 33

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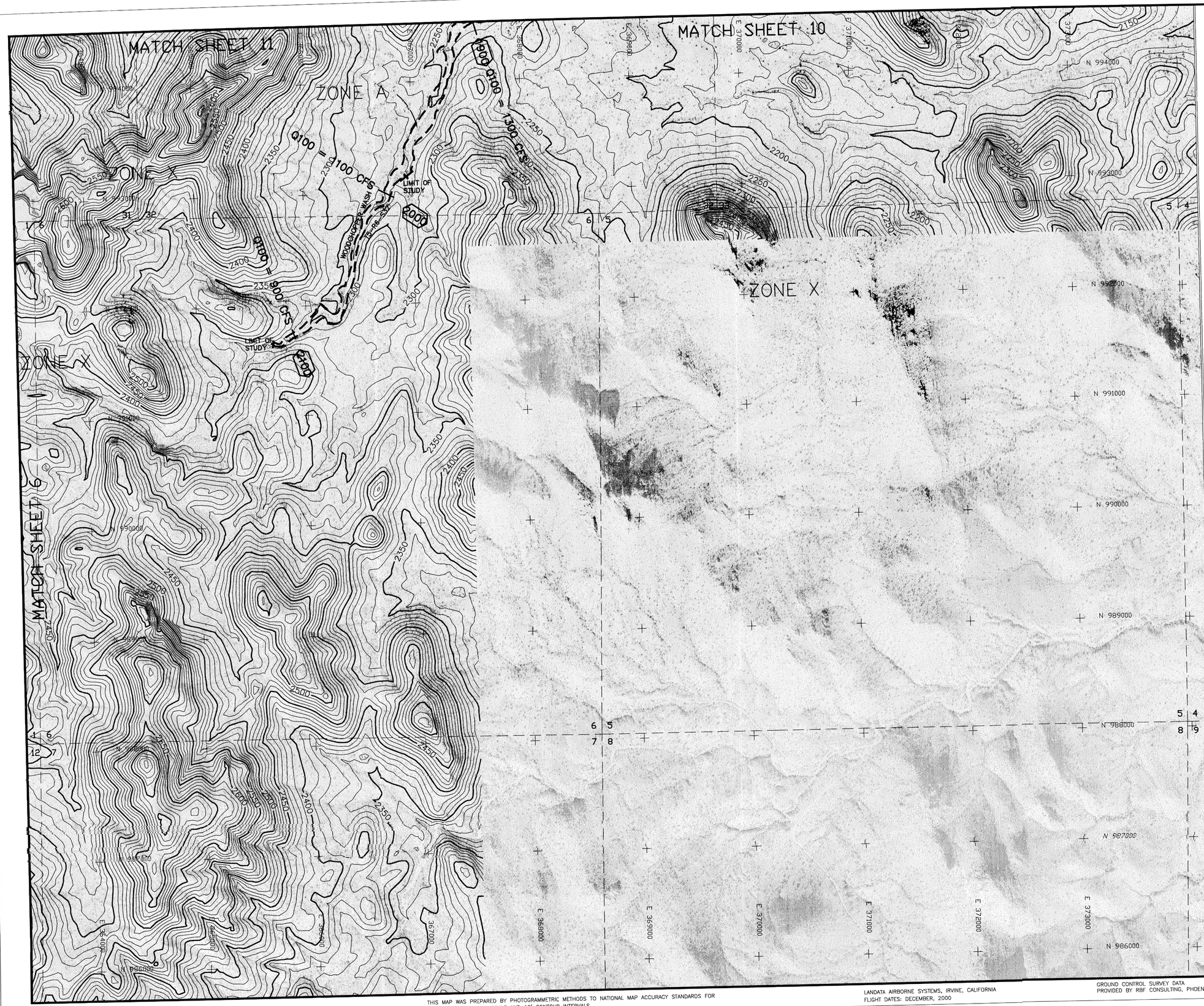
LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



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NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
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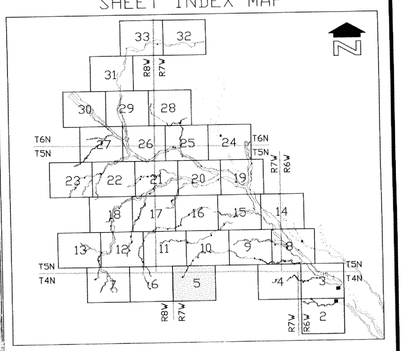
(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

Registered Professional Engineer (Civil) 22006 JACK K. MOODY Date Signed 12-2-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8600

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480.998.1111

WP# 001218

SHEET 5 OF 33

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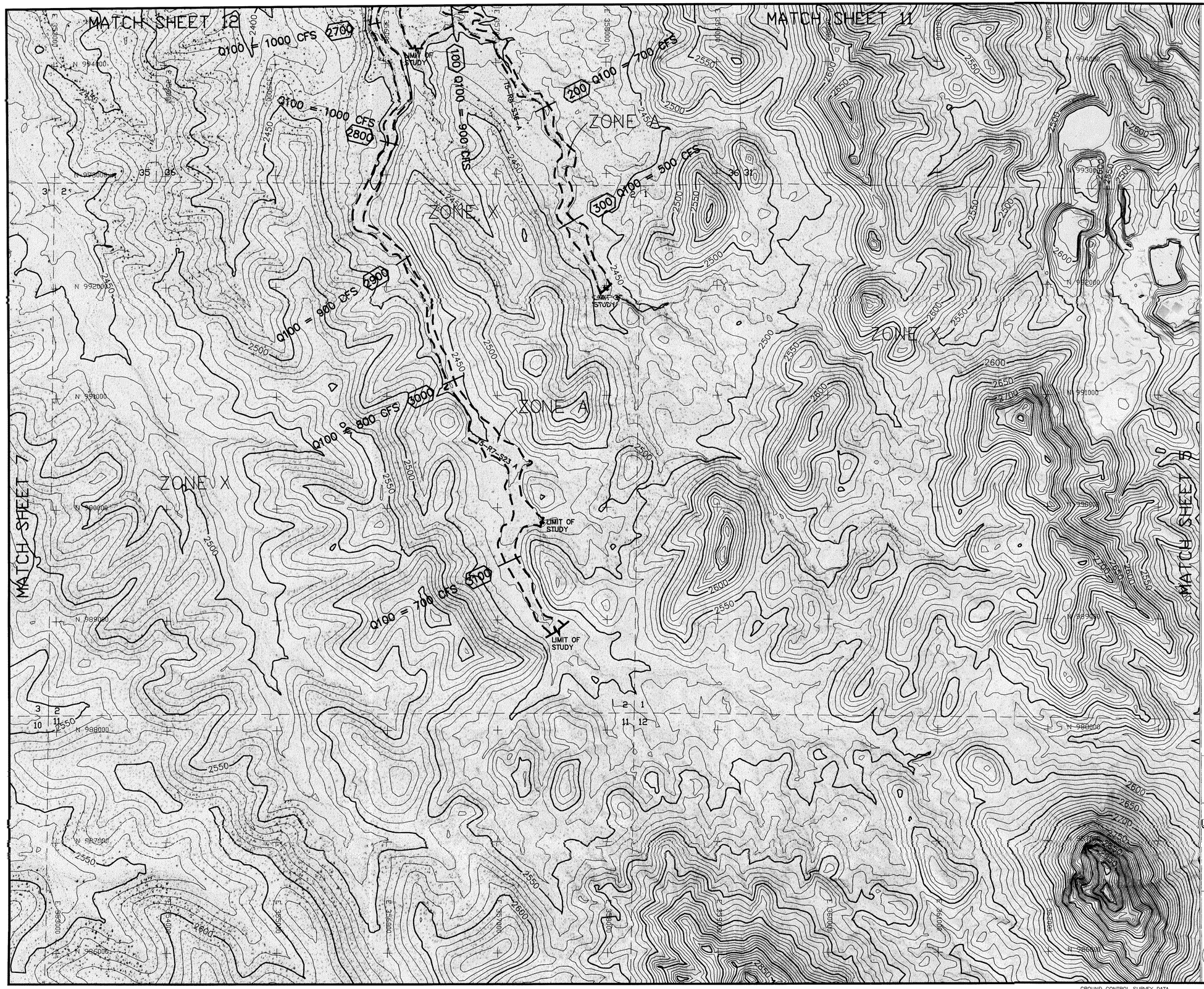
LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



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- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3594

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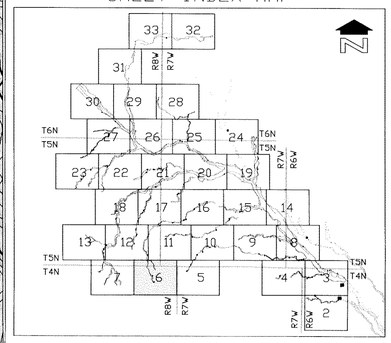
AJ3601	4104	996226.696	363836.457	2327.224

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer, Civil
22208
JACK K. MOODY
Date signed 12-1-03
ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124
IN ASSOCIATION WITH
WOOD/PATEL ASSOCIATES
Civil Engineers
Water Resources
Land Surveyors
(602) 335-8500
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-596-1777

WP# 001218

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LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
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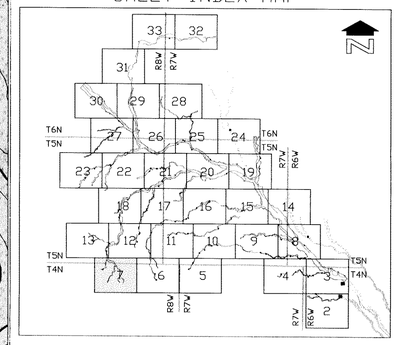
NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3601	4IO4	996226.696	363836.457	2327.224
	(Not Shown, Outside Boundary of Sheet)			

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-7-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8600

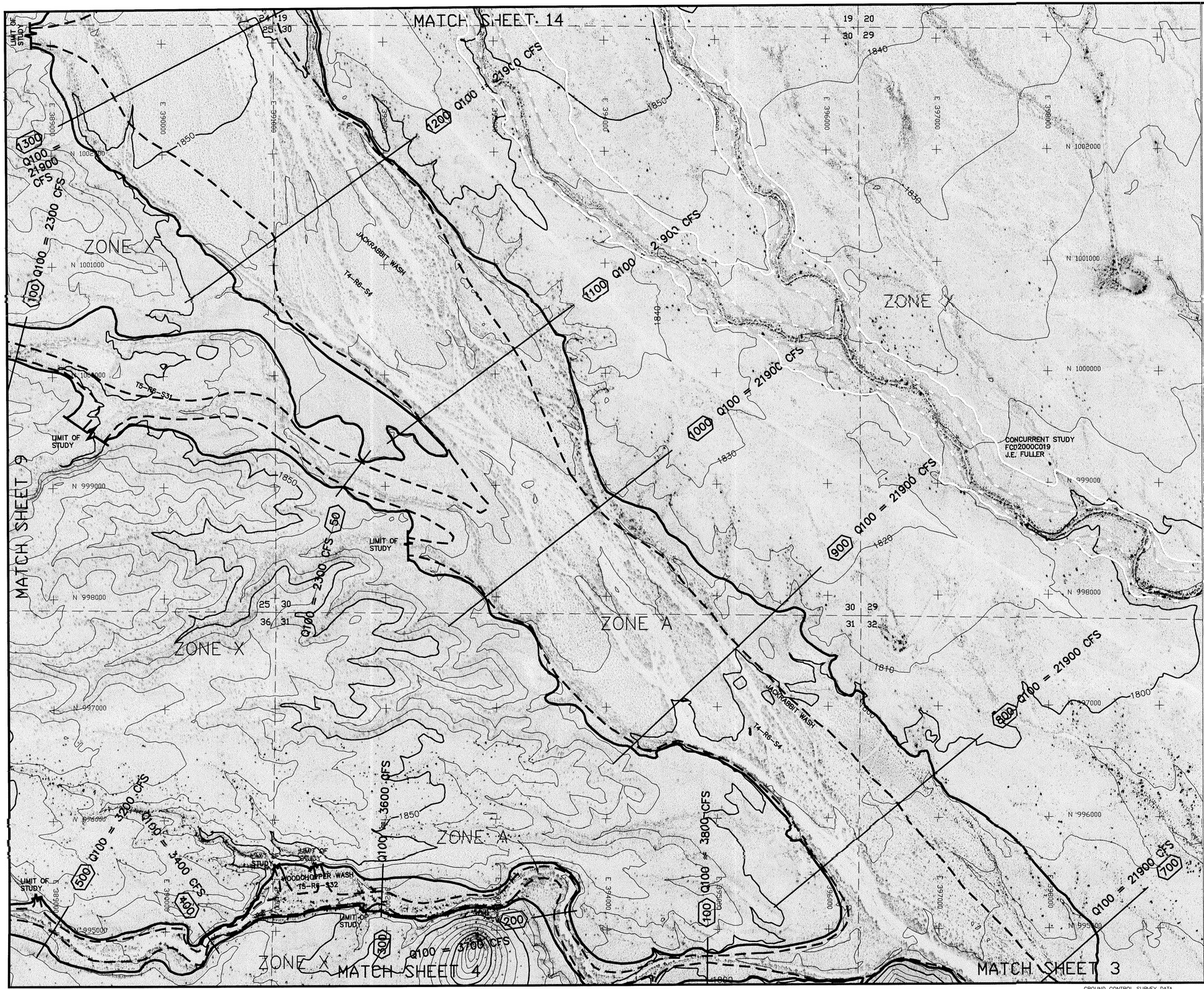
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480.596.1111

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION (200)
- ZONE DESIGNATIONS: ZONE A
- CORPORATE LIMITS: Corporate Limits
- COUNTY BOUNDARY: County Boundary
- SECTION BOUNDARY: 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK: AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

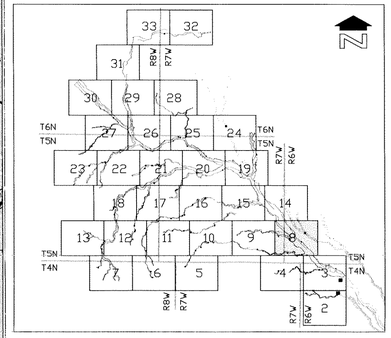
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	4IM2	992315.696	395092.070	1820.600

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION
STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

Registered Professional Engineer (and Land Surveyor) 22208 JACK K. MOODY Date Signed 12-1-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8000

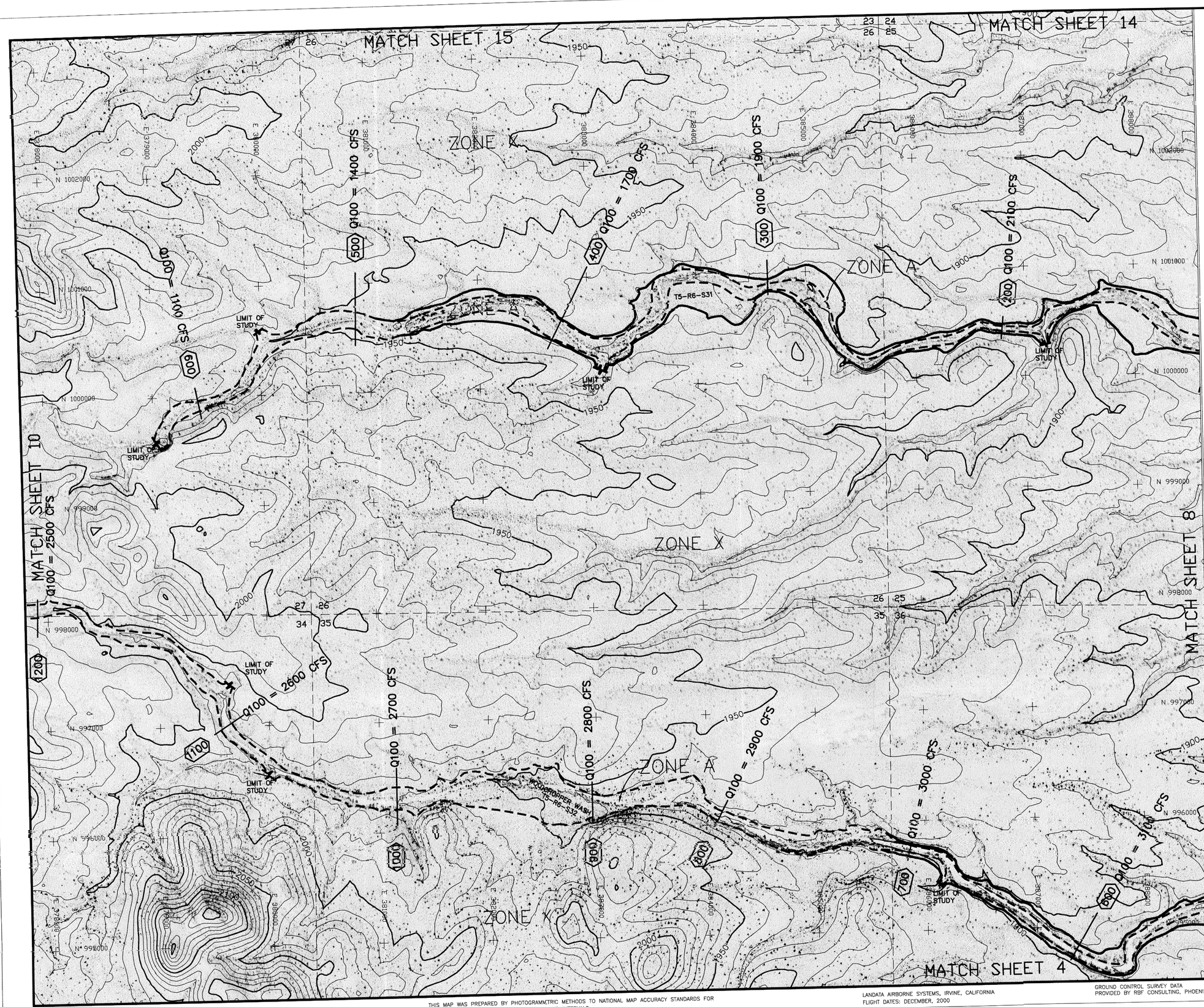
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-596-1111

WP# 001218 SHEET 8 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

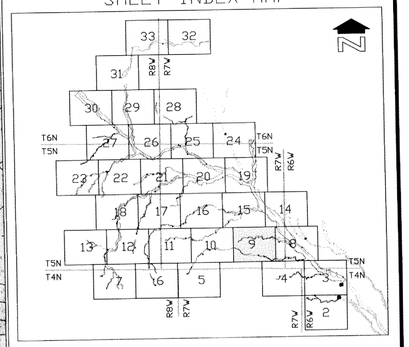
NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	4IM2	992315.696 (Not Shown, Outside Boundary of Sheet)	395092.070	1820.600

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-3-3 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8600

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480 596 1111

WP# 001218

SHEET 9 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' COITOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

MATCH SHEET 16

MATCH SHEET 15

MATCH SHEET 5

MATCH SHEET 9

ZONE X

ZONE A

ZONE A

ZONE X

ZONE X

LIMIT OF STUDY

LIMIT OF STUDY

LIMIT OF STUDY

LIMIT OF STUDY

LIMIT OF STUDY

T5-R7-S23

WOODCHOPPER WASH
T5-R6-S32

Q100 = 1800 CFS

Q100 = 2000 CFS

Q100 = 2100 CFS

Q100 = 2200 CFS

Q100 = 2300 CFS

Q100 = 2400 CFS

Q100 = 1700 CFS

Q100 = 1500 CFS

Q100 = 1900 CFS

Q100 = 2100 CFS

Q100 = 2300 CFS

Q100 = 2400 CFS

Q100 = 1300 CFS

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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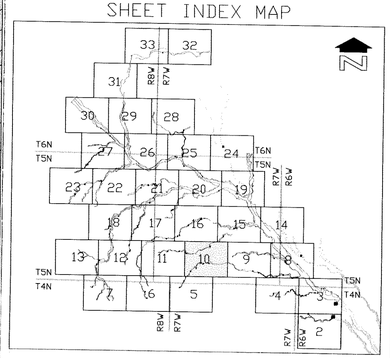
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3601	4IC4	996226.696	363836.457	2327.224

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION
STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

Registered Professional Engineer, Civil
CERTIFICATE NO. 22208
JACK K. WOODY
Date Signed 12-31-03
ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8500

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.

WP# 001218

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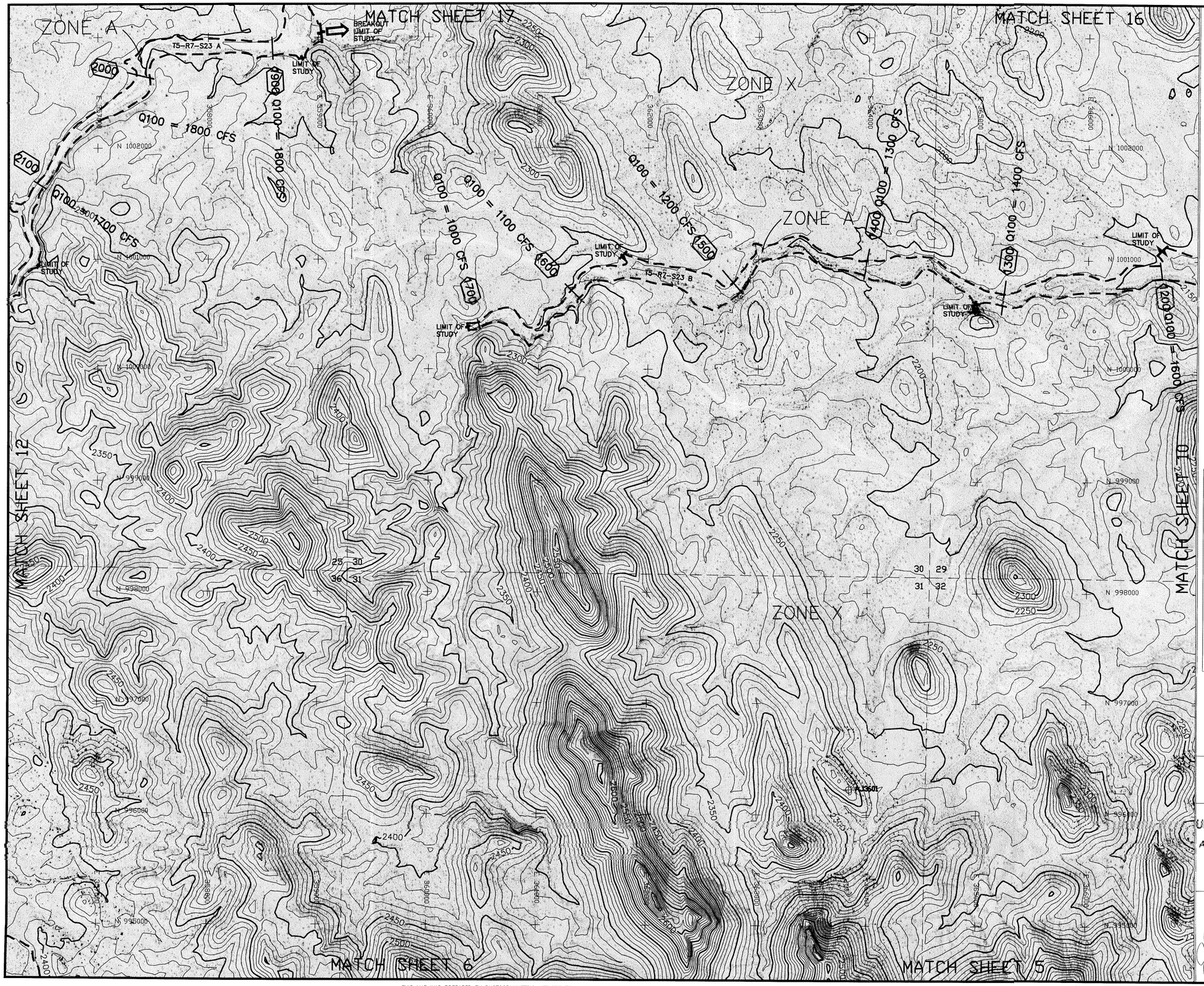
LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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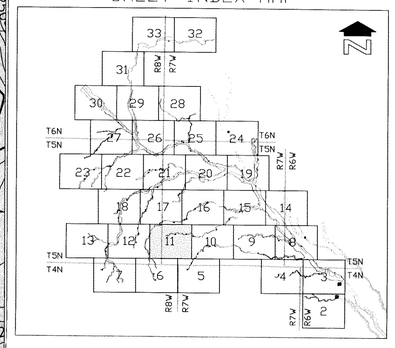
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3601	4IO4	996226.696	363836.457	2327.224

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-3 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-5600

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480/596-1111

WP# 001218

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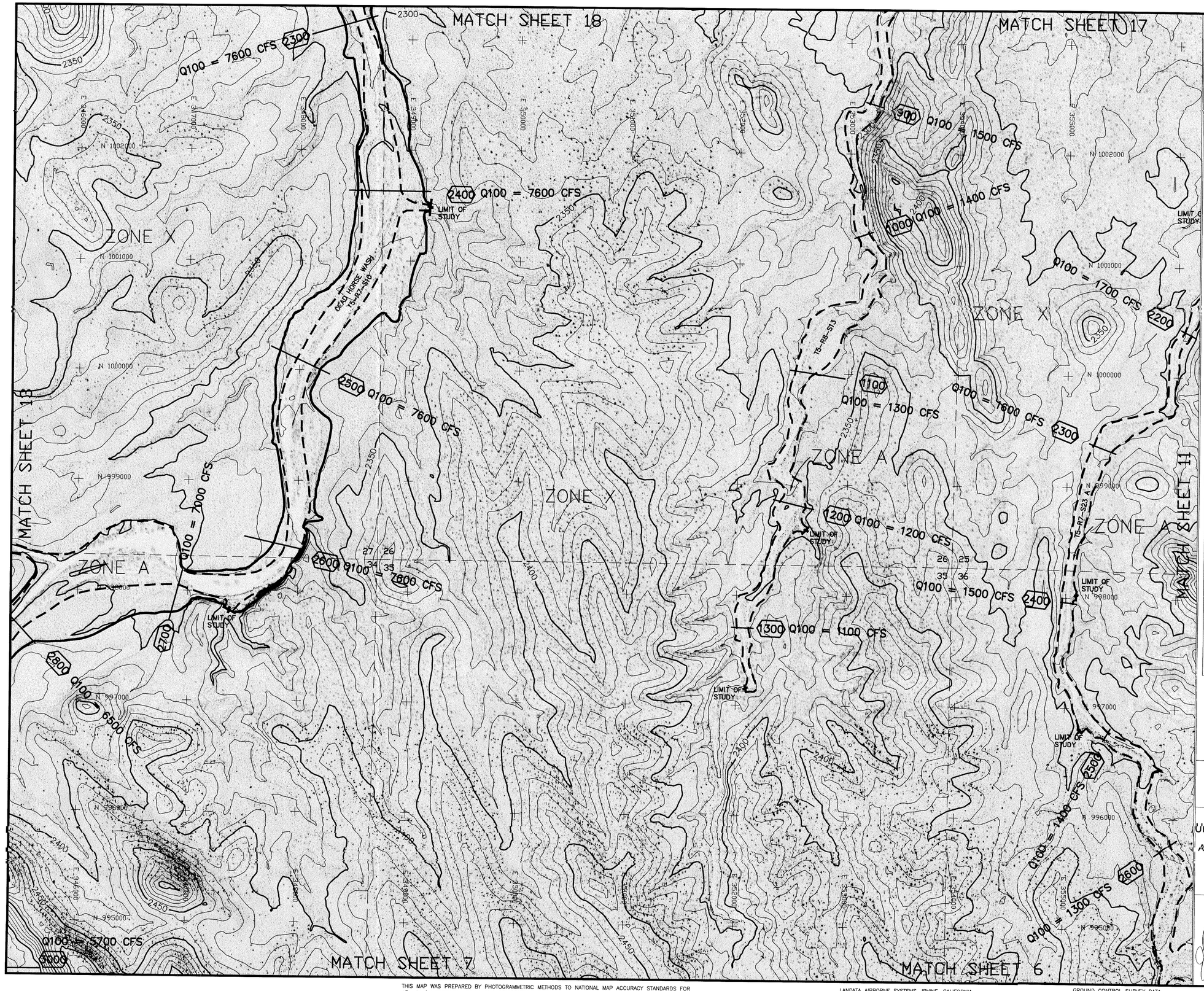
LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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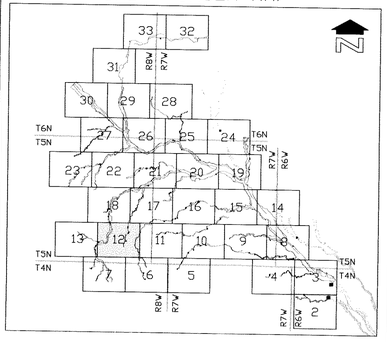
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3601	4IO4	996226.696 (Not Shown, Outside Boundary of Sheet)	363836.457	2327.224

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES CIVIL Engineers Hydrologists Land Surveyors (602) 335-8500

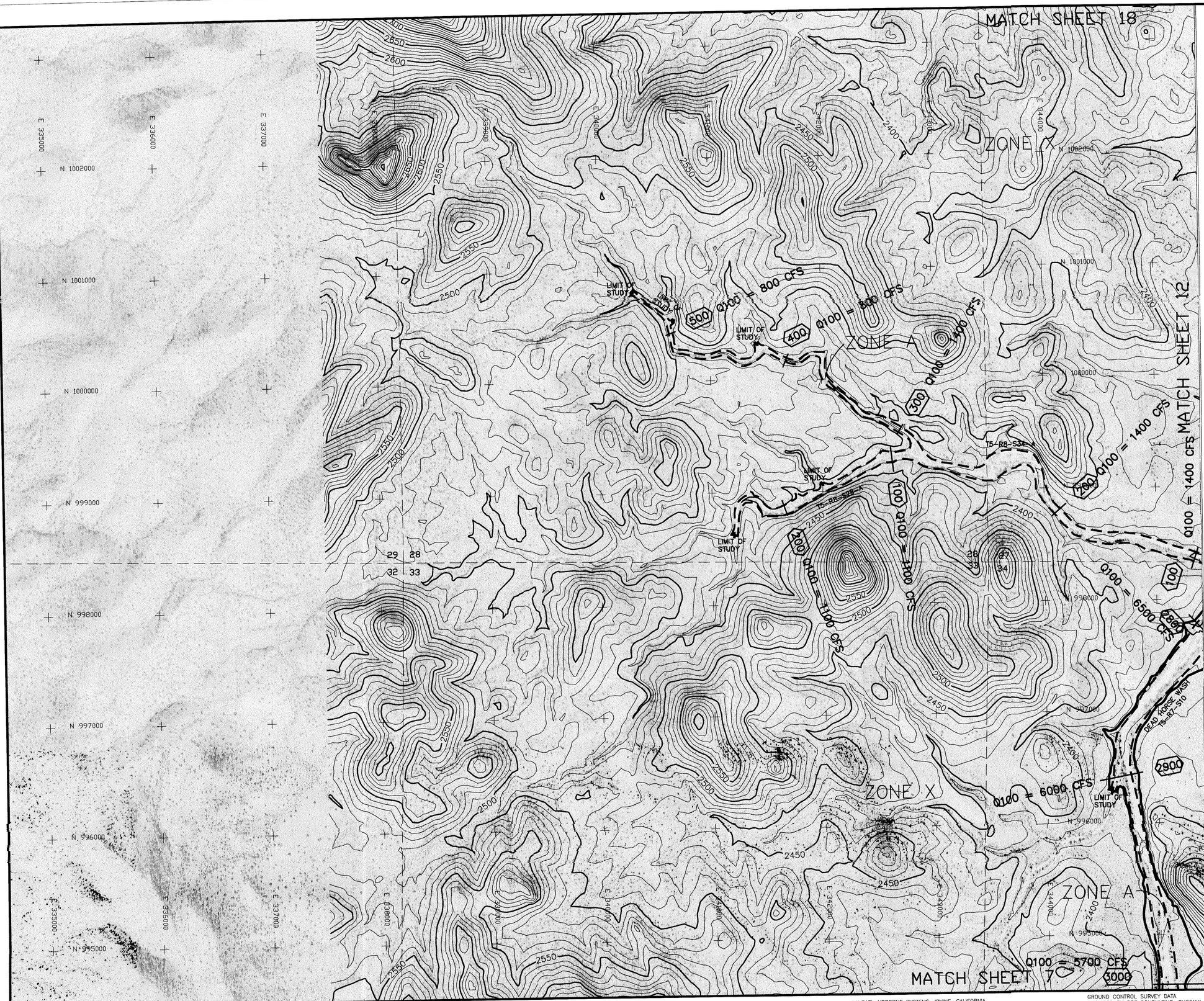
ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480-348-1777

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION (200)
- ZONE DESIGNATIONS: ZONE A
- CORPORATE LIMITS: Corporate Limits
- COUNTY BOUNDARY: County Boundary
- SECTION BOUNDARY: 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK: AJ3594

NOTES

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NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

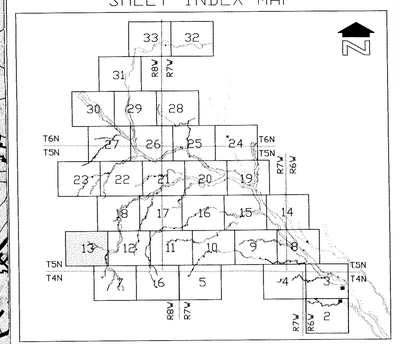
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3601	4IO4	996226.696	363836.457	2327.224

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer Seal — JACK K. MOODY — 22208 — ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. — TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES — Civil Engineers, Hydrologists, Land Surveyors — (602) 335-8500

ARGUS CONSULTING — A CIVIL ENGINEERING COMPANY, L.L.C. — Scottsdale, Arizona

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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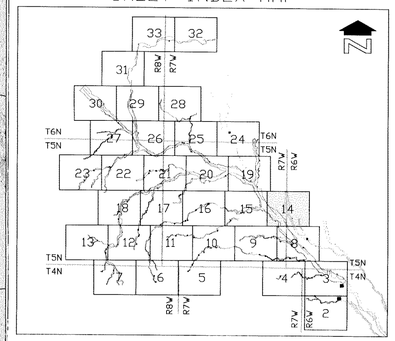
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	4IM2	992315.696	395092.070	1820.600
		(Not Shown, Outside Boundary of Sheet)		

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-3 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8500

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480 596 1111

WP# 001218

SHEET 14 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION 200
- ZONE DESIGNATIONS ZONE A
- CORPORATE LIMITS Corporate Limits
- COUNTY BOUNDARY County Boundary
- SECTION BOUNDARY 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK AJ3594

NOTES

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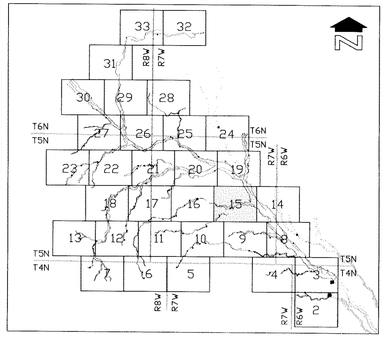
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3607	4JN4 (Not Shown, Outside Boundary of Sheet)	1014118.845	374837.064	2041.808

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 11-7-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers Hydrologists Land Surveyors
(602) 335-8500

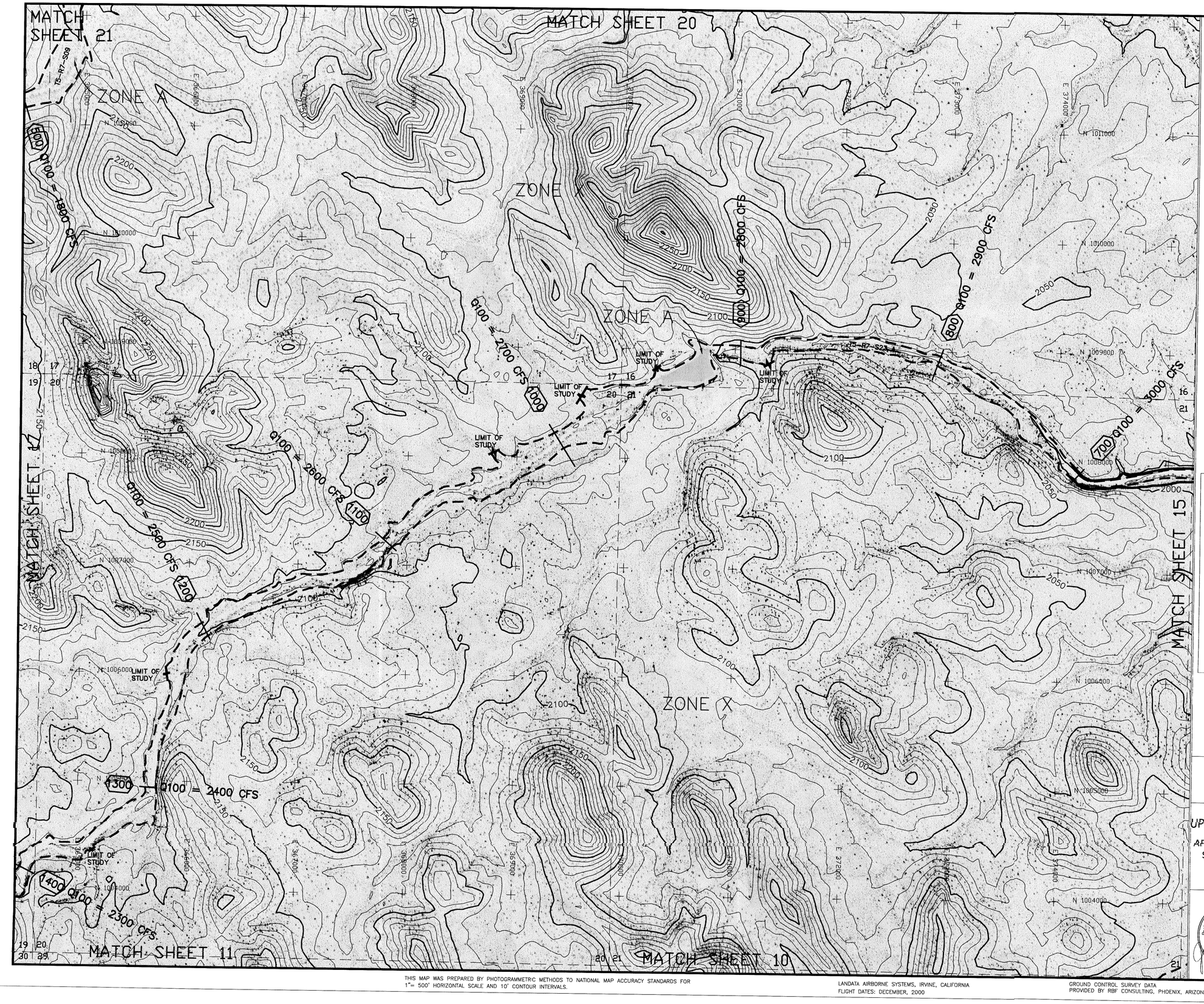
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480.596.1111

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION (200)
- ZONE DESIGNATIONS: ZONE A
- CORPORATE LIMITS: Corporate Limits
- COUNTY BOUNDARY: County Boundary
- SECTION BOUNDARY: 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK: AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

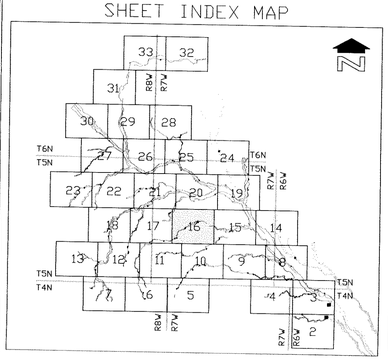
NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3607	4JN4	1014118.845 (Not Shown, Outside Boundary of Sheet)	374837.064	2041.808

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer, Certificate No. 22208, JACK K. MOODY, Date Signed, ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8600

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-348-1141

WP# 001218

SHEET 16 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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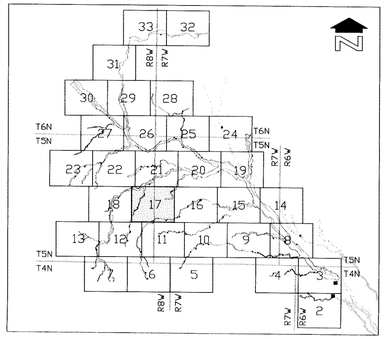
NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3608	4JP3	1014540.663	347552.982	2346.093
	(Not Shown, Outside Boundary of Sheet)			

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8500

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480-596-1111

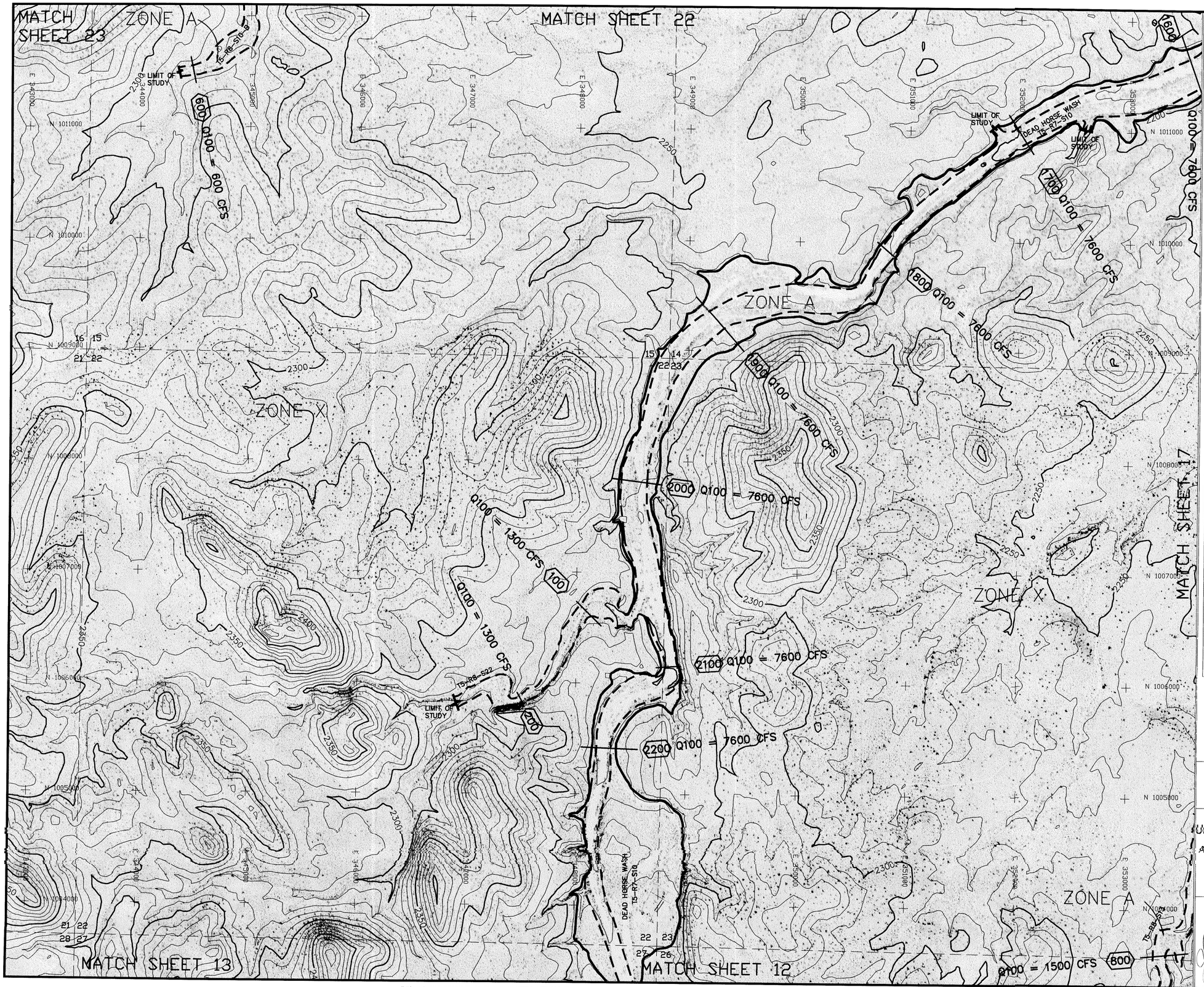
WP# 001218

SHEET 17 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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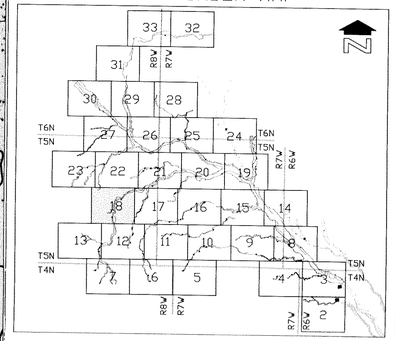
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3608	4JP3	1014540.663	347552.982	2346.093

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) — Certificate No. 22208 — JACK K. MOODY — Date Signed 11-7-03 — ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 355-8500

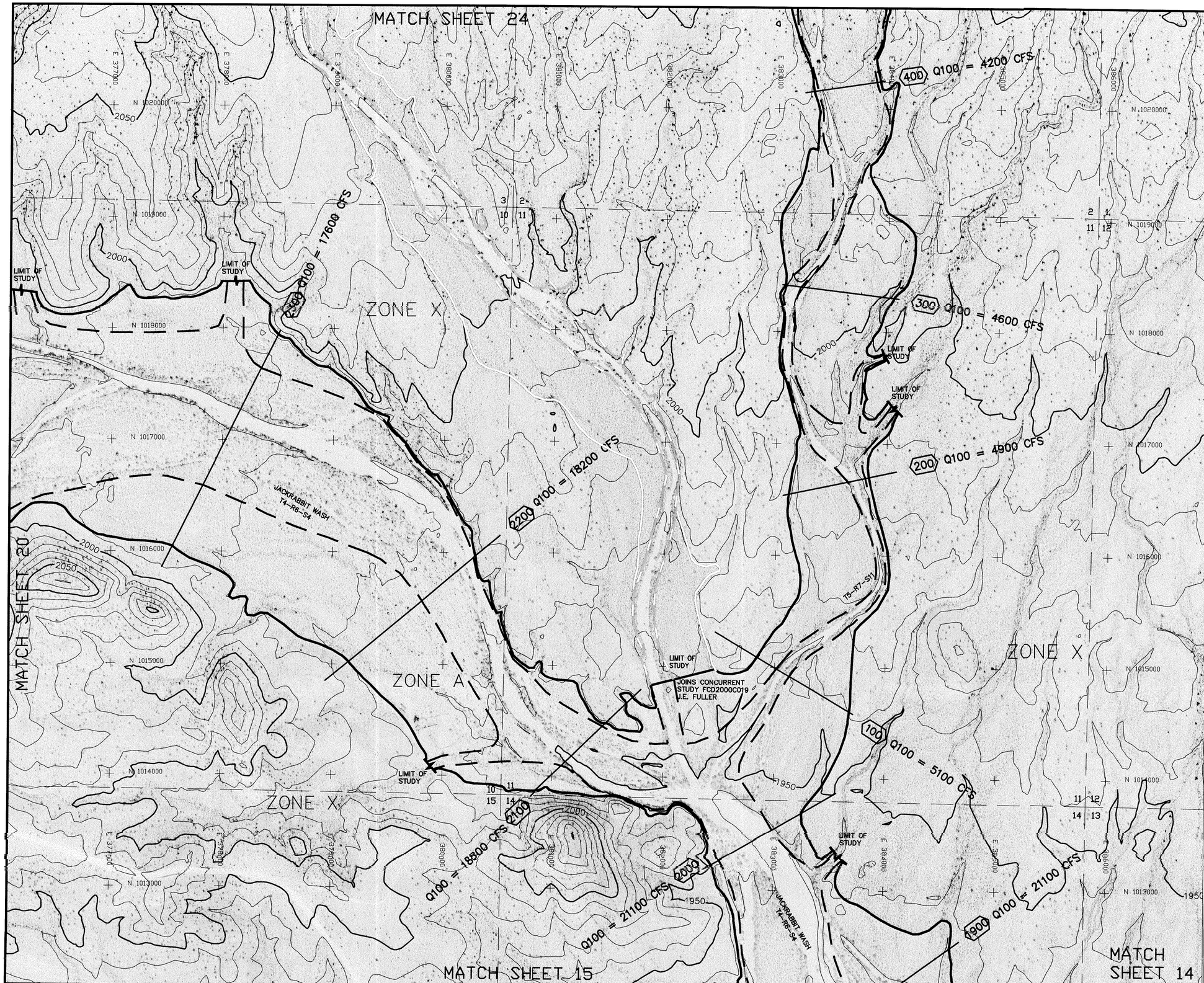
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-596-1111

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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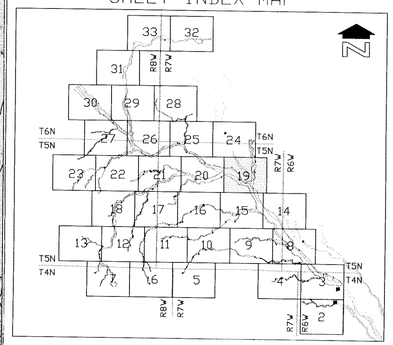
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3607	4JN4	1014118.845	374837.064	2041.808
		(Not Shown, Outside Boundary of Sheet)		

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-3 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8600

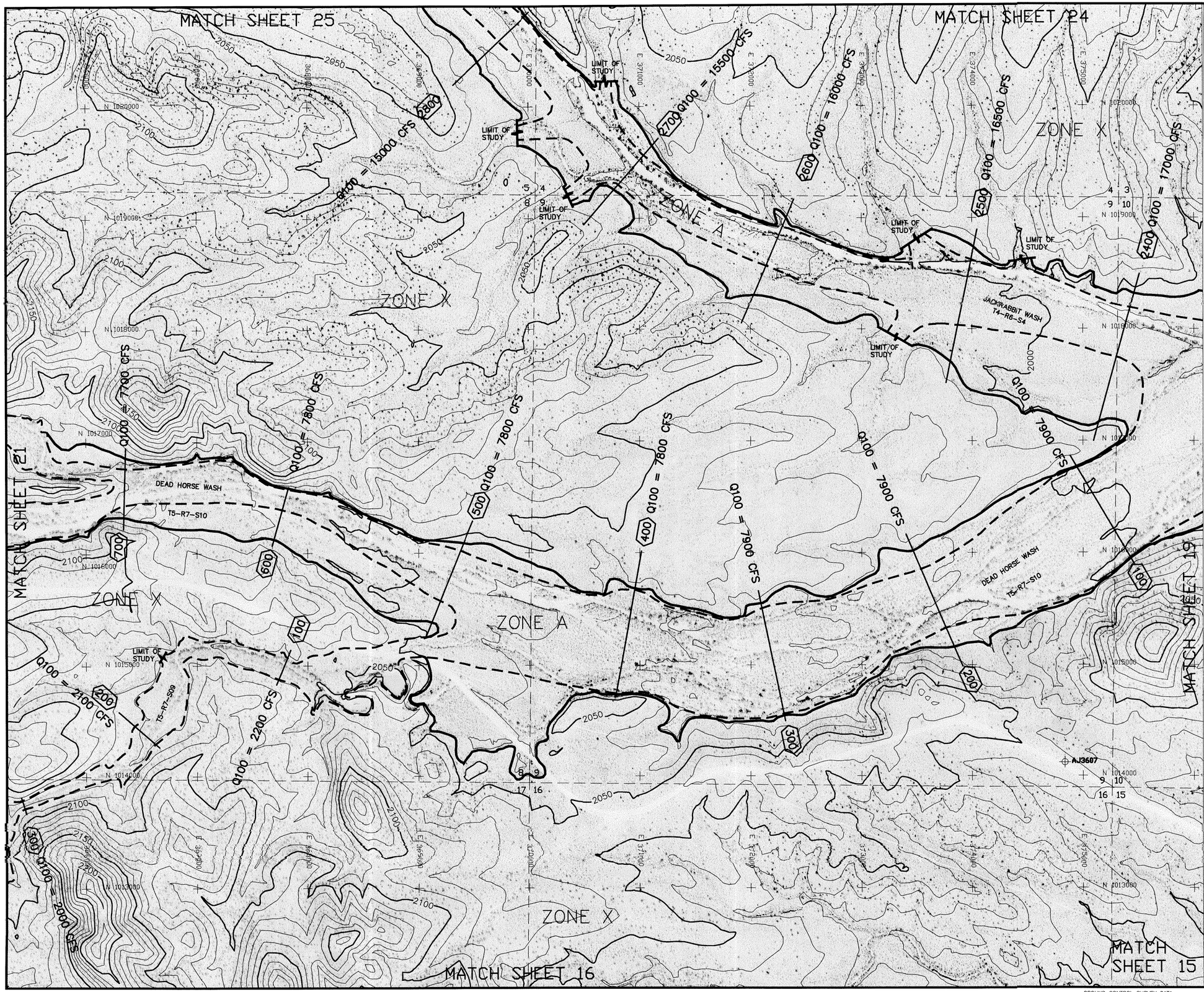
ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480-596-1111

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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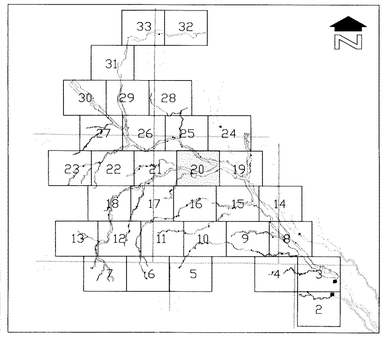
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3607	4JN4	1014118.845	374837.064	2041.808

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) Certificate No. 22208 JACK K. MOODY Date Signed 12-31-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8500

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-596-1111

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
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- CROSS SECTION (200)
- ZONE DESIGNATIONS: ZONE A
- CORPORATE LIMITS: Corporate Limits
- COUNTY BOUNDARY: County Boundary
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- ELEVATION REFERENCE MARK: AJ3594

NOTES

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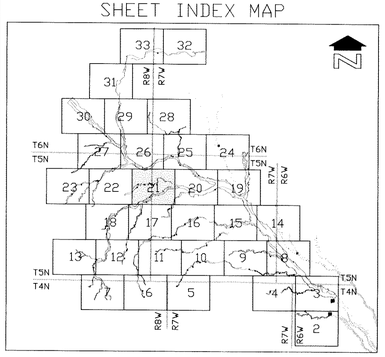
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (foot)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3608	4JP3	1014540.663	347552.982	2346.093

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION
STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

Registered Professional Engineer, Civil
Certificate No. 32208
JACK K. MOODY
Date Signed 12-31-03
ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8500

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-348-1232

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER, 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

MATCH SHEET 27

ZONE A

MATCH SHEET 26

ZONE X

LIMIT OF STUDY

100 Q100 = 3000 CFS

400

300 Q100 = 3200 CFS

T5-R8-S2

LIMIT OF STUDY

Q100 = 2800 CFS 500

Q100 = 2500 CFS 600

100 Q100 = 1200 CFS

ZONE X

LIMIT OF STUDY

200 Q100 = 1100 CFS

Q100 = 1100 CFS 100

T5-R8-S10-B

MATCH SHEET 23

300 Q100 = 1000 CFS

AJ3608

400 Q100 = 900 CFS

LIMIT OF STUDY

500 Q100 = 800 CFS

MATCH SHEET 18

ZONE A

Q100 = 1300 CFS 1000

MATCH SHEET 21

Q100 = 1100 CFS 1100

ZONE A

T5-R7-S5

LIMIT OF STUDY

MATCH SHEET 17

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
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SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

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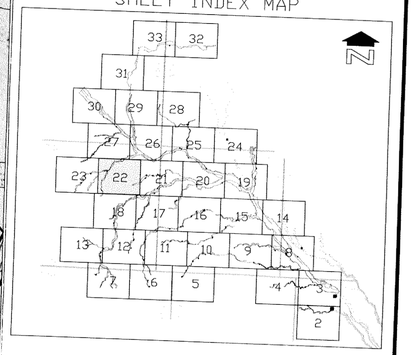
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3608	4JP3	1014540.663	347552.982	2346.093

SHEET INDEX MAP



N

400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Professional Engineer Seal — 22208 JACK K. MOODY — Date Signed 10-27-03 — ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. — TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES — Civil Engineers, Hydrologists, Land Surveyors (602) 335-8500

ARGUS CONSULTING — A CIVIL ENGINEERING COMPANY, L.L.C. — Scottsdale, Arizona 480-348-1111

WP# 001218

SHEET 22 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

MATCH SHEET 27

ZONE A

ZONE X

ZONE A

ZONE X

ZONE A

ZONE X

ZONE A

MATCH SHEET 22

MATCH SHEET 18

LIMIT OF STUDY

Q100 = 1400 CFS

Q100 = 1200 CFS

Q100 = 2000 CFS

Q100 = 2200 CFS

Q100 = 1800 CFS

Q100 = 1500 CFS

Q100 = 1100 CFS

Q100 = 1200 CFS

T5-R8-S2

T5-R8-S10-A

E 332000 E 334000 E 335000 E 336000 E 337000 E 338000 E 339000 E 340000 E 341000 E 342000 E 343000

N 1020000 N 1019000 N 1018000 N 1017000 N 1016000 N 1015000 N 1014000 N 1013000

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
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SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

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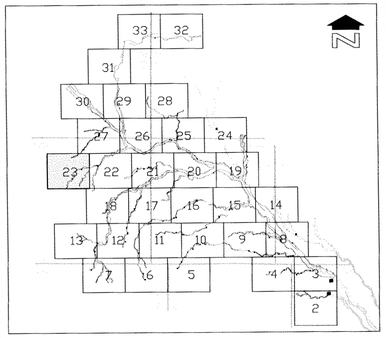
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3608	4JP3	1014540.663	347552.982	2346.093

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 1-7-04 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8500

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480-998-7237

WP# 001218

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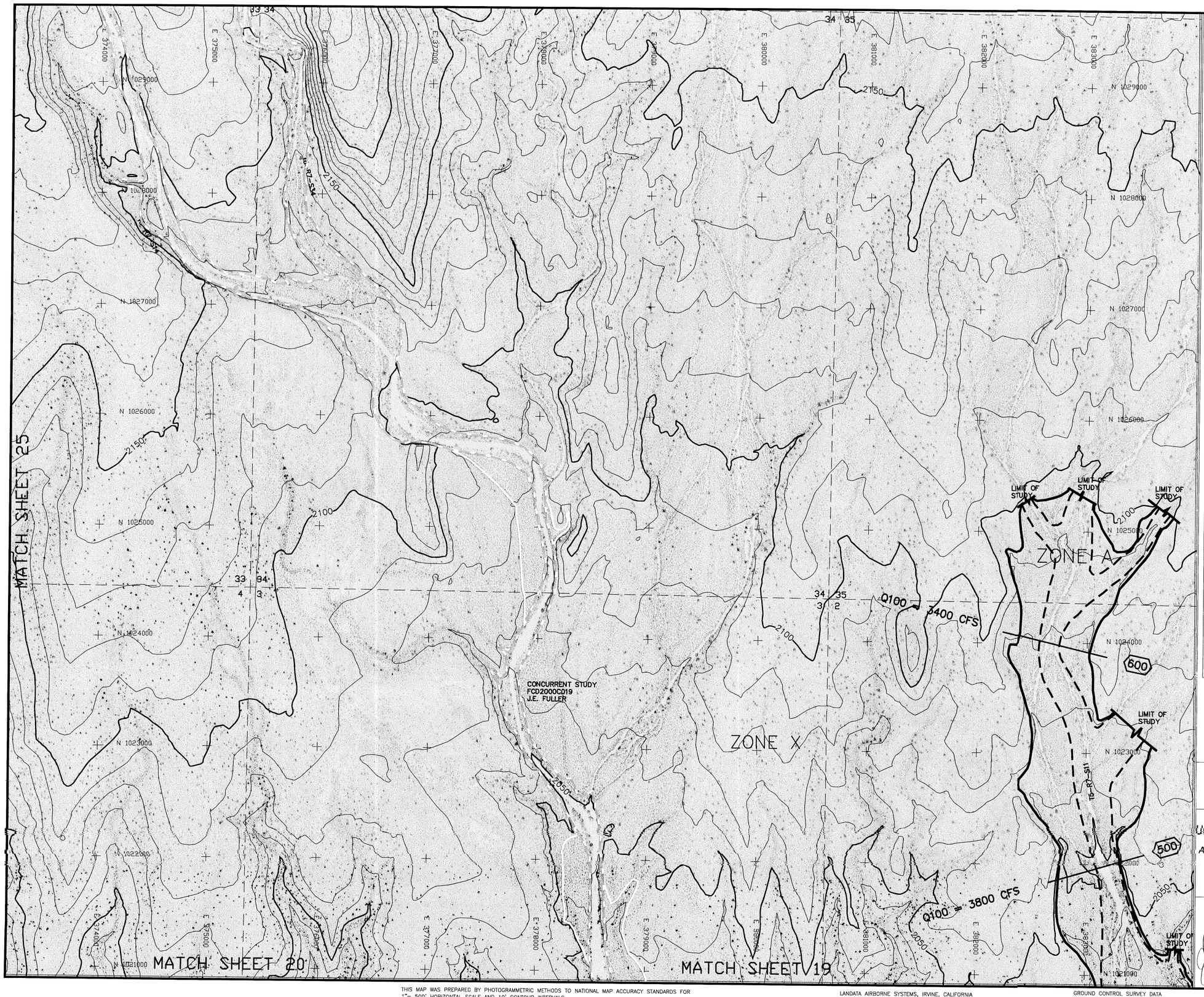
LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

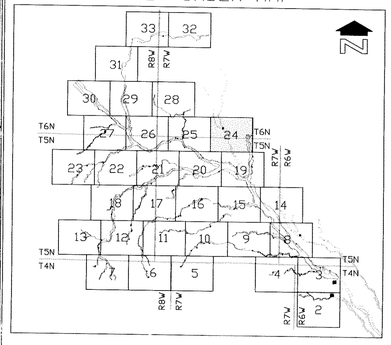
NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3607	4JN4	1014118.845	374837.064	2041.808
		(Not Shown, Outside Boundary of Sheet)		

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8500

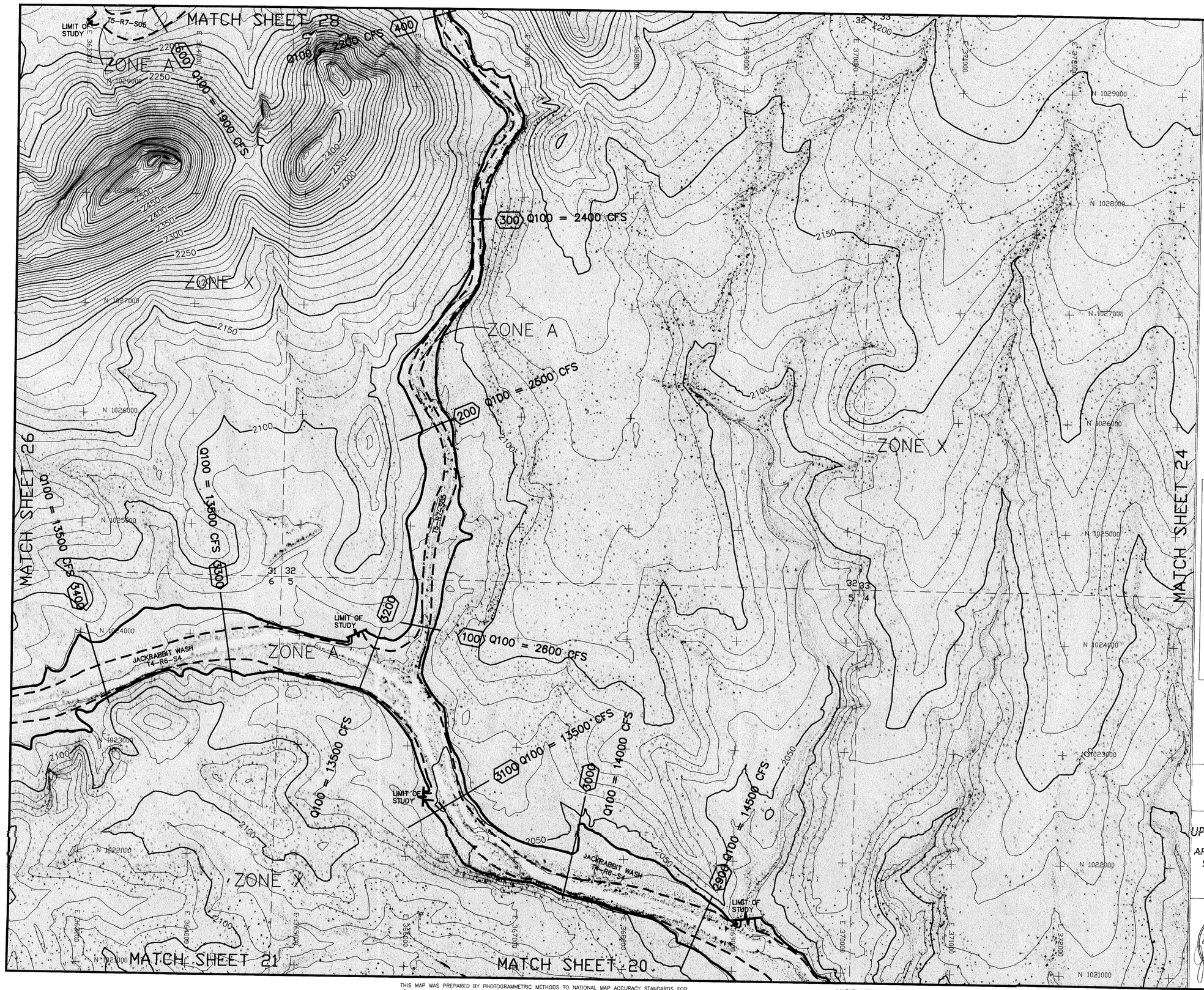
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480.596.1111

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION (200)
- ZONE DESIGNATIONS: ZONE A
- CORPORATE LIMITS: Corporate Limits
- COUNTY BOUNDARY: County Boundary
- SECTION BOUNDARY: 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK: AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

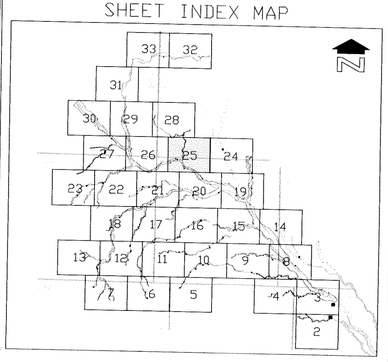
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3607	4JN4	1014118.845	374837.064	2041.808

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Professional Professional Engineer (Civil) — 22208 — JACK K. MOODY — Date Signed 12-31-03 — ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. — TEMPE, ARIZONA — 480-752-8124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES — Civil Engineers, Hydrologists, Land Surveyors (602) 335-8500

ARGUS CONSULTING — A CIVIL ENGINEERING COMPANY, L.L.C. — Scottsdale, Arizona 480.348.1211

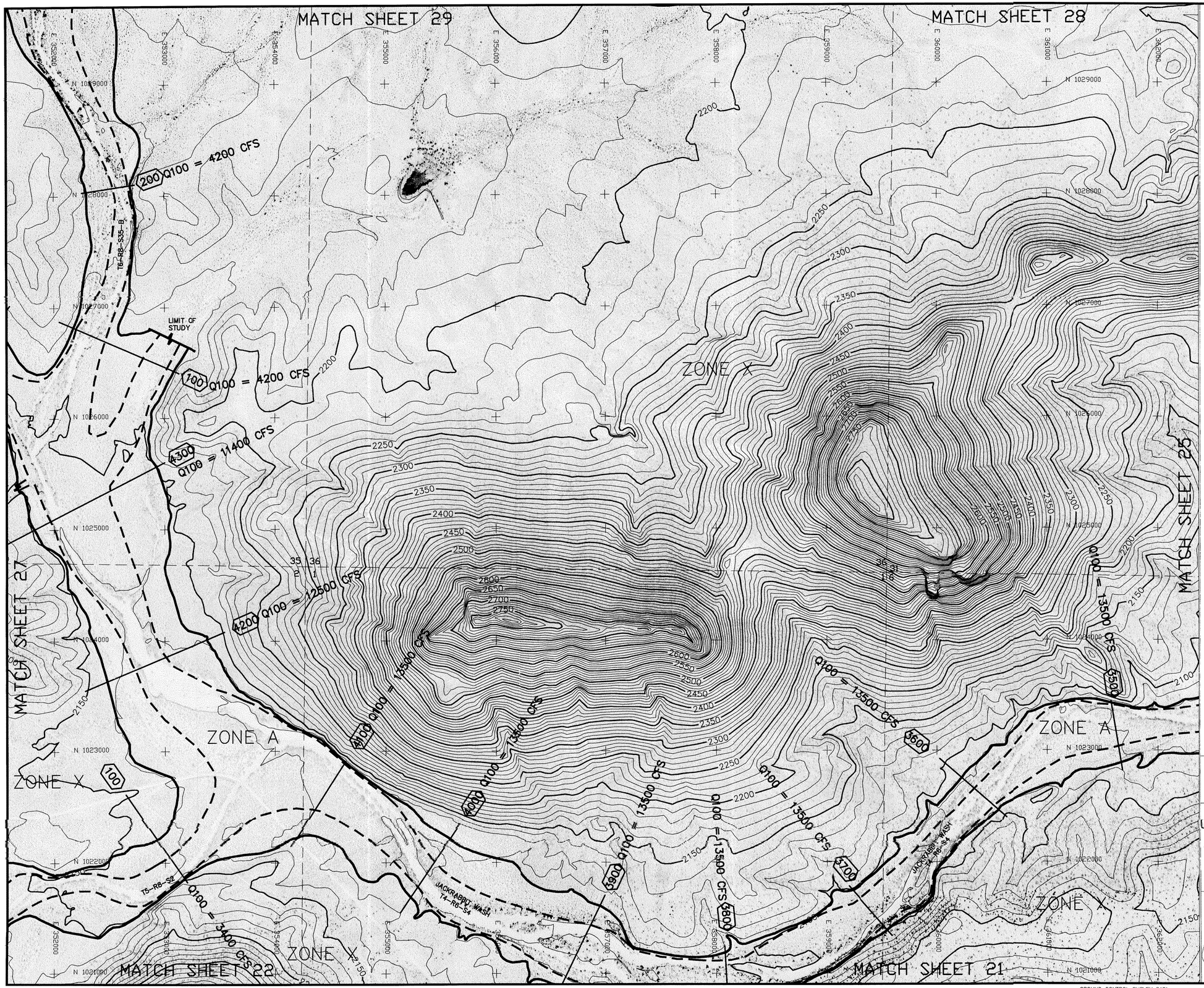
WP# 001218

SHEET 25 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION (200)
- ZONE DESIGNATIONS: ZONE A
- CORPORATE LIMITS: Corporate Limits
- COUNTY BOUNDARY: County Boundary
- SECTION BOUNDARY: 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK: AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

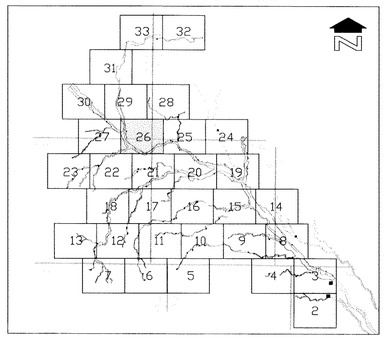
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3613	4KO3	1022758.793	348548.619	2234.403

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

Registered Professional Engineer Civil CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-21-3 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8600

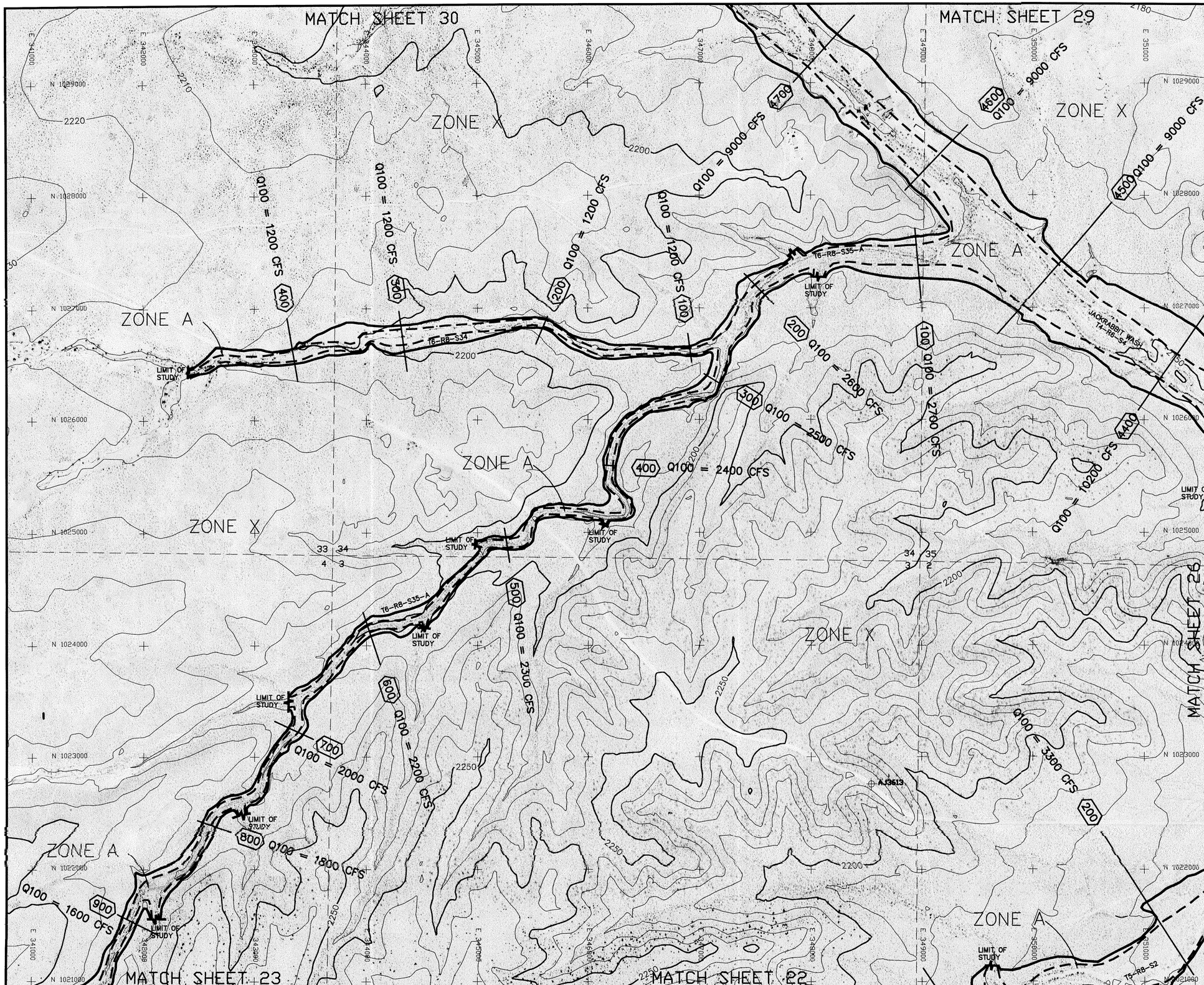
ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-998-1777

WP# 001218

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

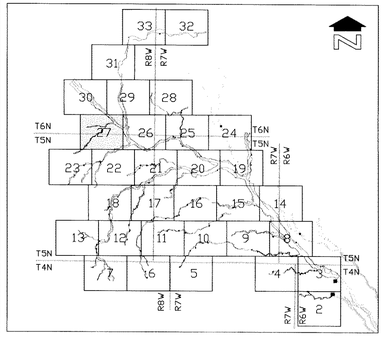
NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3613	4KO3	1022758.793	348548.619	2234.403

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-7-3 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8500

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480 596 1111

WP# 001218

SHEET 27 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

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NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

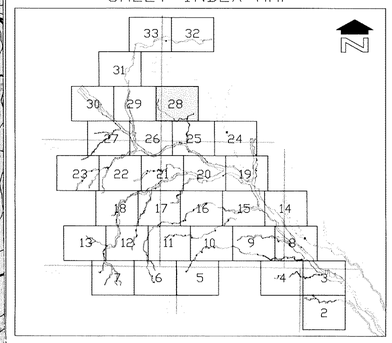
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3613	4KO3	1022758.793	348548.619	2234.403

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION
STUDY OF JACKRABBIT WASH, FCD 2000C019
WATERSHED "00"
DECEMBER 2003

Registered Professional Engineer (Civil) JACK K. MOODY 22208 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

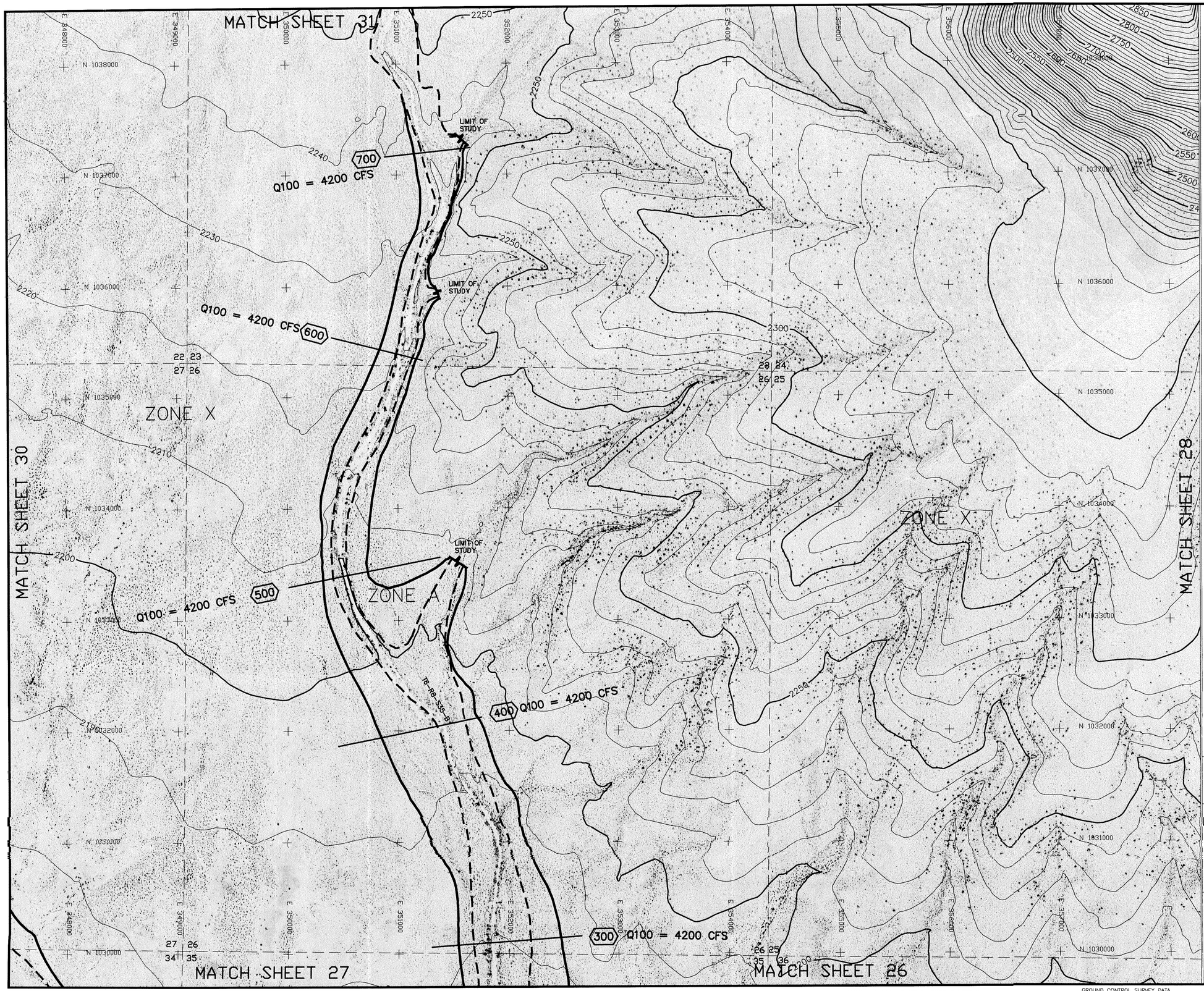
WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8600

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-998-1111

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR ADMINISTRATIVE FLOODWAY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY) (Shown as white)
- 100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY) (Shown as white & gray)
- CROSS SECTION (200)
- ZONE DESIGNATIONS — ZONE A
- CORPORATE LIMITS — Corporate Limits
- COUNTY BOUNDARY — County Boundary
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

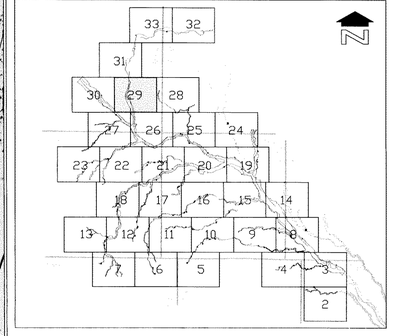
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (foot)	NAD 83 Easting (foot)	NAVD 88 Elevation (feet)
AJ3613	4KO3	1022758.793	348548.619	2234.403

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer Civil — Certificate No. 22208 — JACK K. MOODY — Date Signed 12-3-03 — ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. — TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES — Civil Engineers, Hydrologists, Land Surveyors — (602) 335-8500

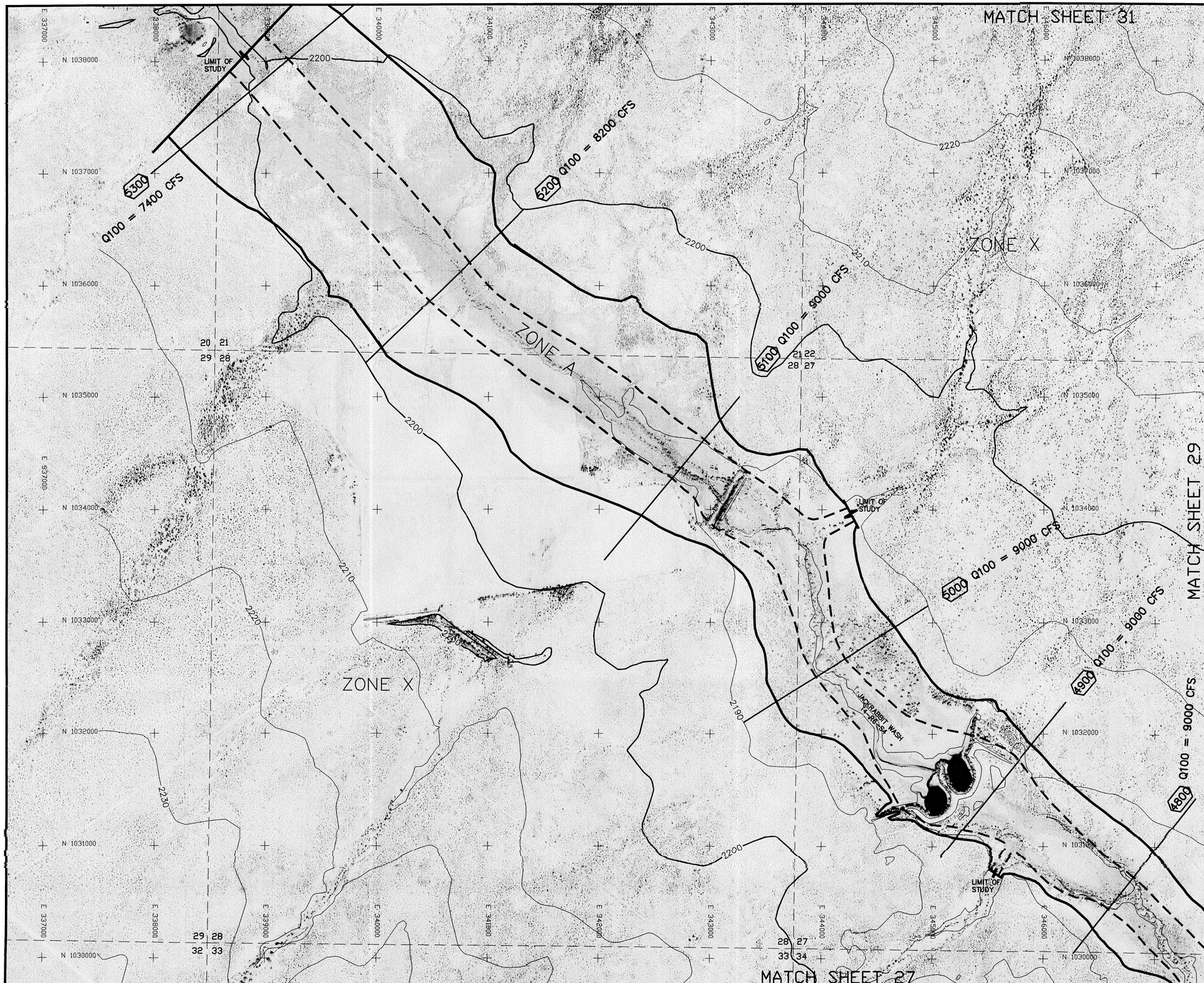
ARGUS CONSULTING — A CIVIL ENGINEERING COMPANY, L.L.C. — Scottsdale, Arizona 480-998-1111

WP# 001218 — SHEET 29 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTCUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

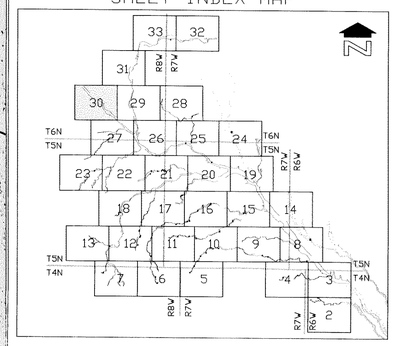
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3613	4KO3	1022758.793	348548.619	2234.403

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 11-17-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Hydrologists
Land Surveyors
(602) 335-8500

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480 998 1111

WP# 001218

SHEET 30 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

MATCH SHEET 33

MATCH SHEET 30

MATCH SHEET 29

ZONE A

ZONE X

ZONE X

1100 Q100 = 2900 CFS

900 Q100 = 3700 CFS

800 Q100 = 4000 CFS

1000 Q100 = 3300 CFS

LIMIT OF STUDY

76-RB-S35-8

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 | 7 / 13 | 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

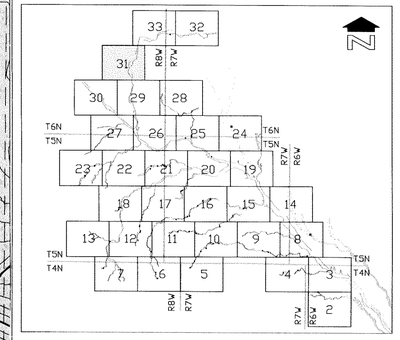
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3625	4MO2	1056733.045	351955.512	2388.058

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer, Certificate No. 22208, JACK K. MOODY, Date Signed 11-21-03, ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC.
TEMPE, ARIZONA - 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES
Civil Engineers
Water Resources
Land Surveyors
(602) 335-8500

ARGUS CONSULTING
A CIVIL ENGINEERING COMPANY, L.L.C.
Scottsdale, Arizona 480-348-1717

WP# 001218

SHEET 31 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

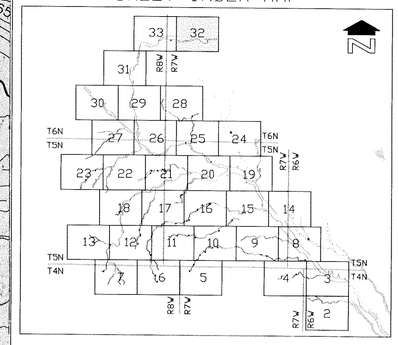
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3625	4MO2	1056733.045	357955.512	2388.058

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-03 ARIZONA, U.S.A.

JE FULLER HYDROLOGY & GEOMORPHOLOGY, INC. TEMPE, ARIZONA – 480-752-2124

IN ASSOCIATION WITH

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists Land Surveyors (602) 335-8500

ARGUS CONSULTING A CIVIL ENGINEERING COMPANY, L.L.C. Scottsdale, Arizona 480-596-1111

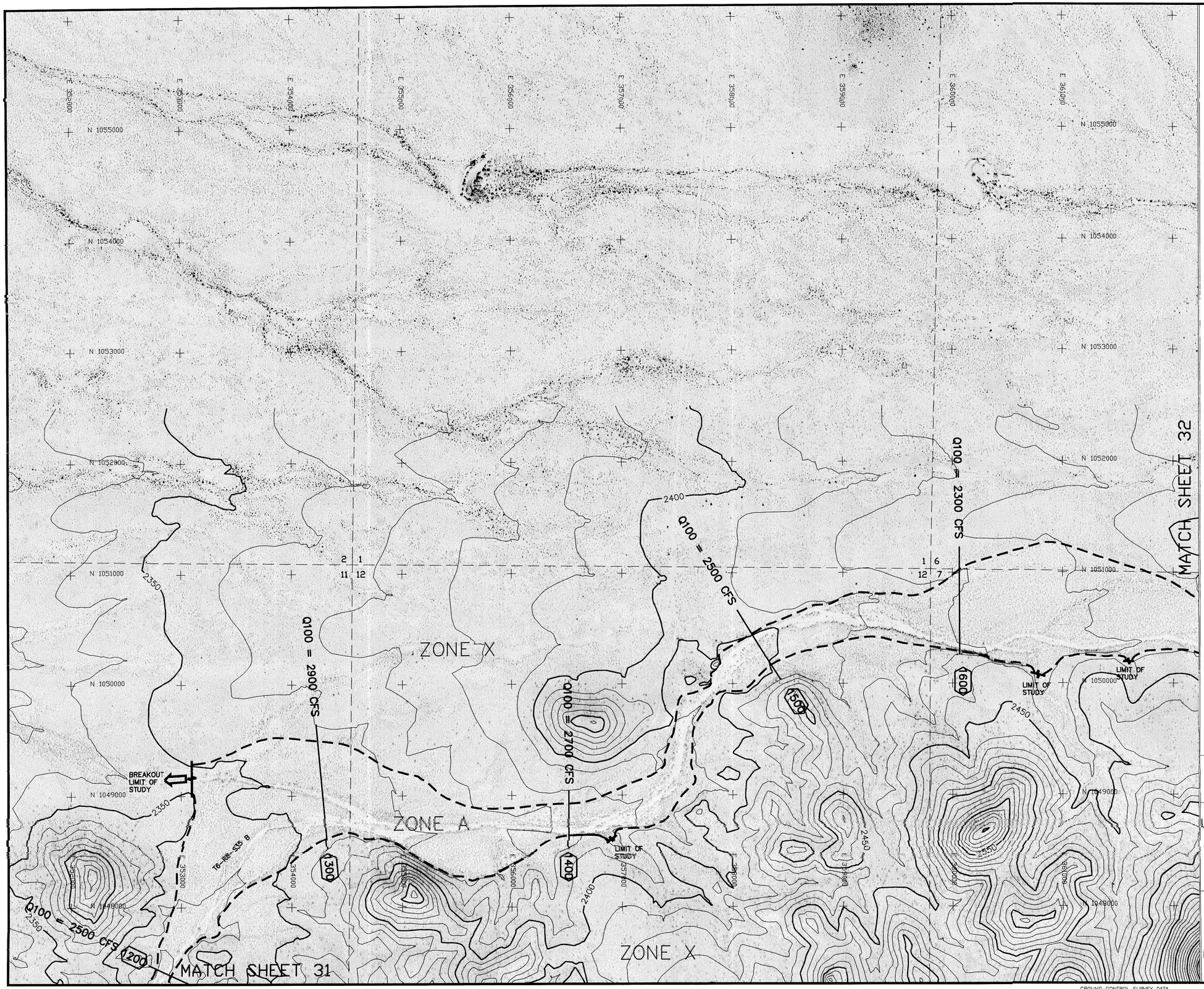
WP# 001218

SHEET 32 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR ADMINISTRATIVE FLOODWAY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	(Shown as white)
100-YR ADMINISTRATIVE FLOODWAY (EXISTING OR CONCURRENT STUDY)	(Shown as white & gray)
CROSS SECTION	200
ZONE DESIGNATIONS	ZONE A
CORPORATE LIMITS	Corporate Limits
COUNTY BOUNDARY	County Boundary
SECTION BOUNDARY	12 7 / 13 18
ELEVATION REFERENCE MARK	AJ3594

NOTES

NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN GEODETIC VERTICAL DATUM OF 1988.

NOTE: ALL NORTHING AND EASTING MARKS ARE IN NAD83 STATE PLANE COORDINATE SYSTEM

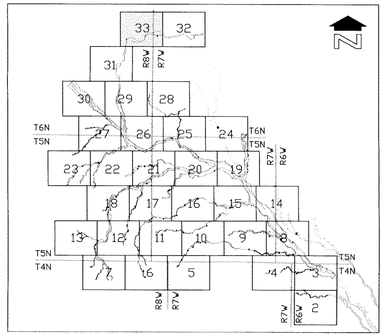
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3625	4MO2	1056733.045	357955.512	2388.058

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400 FEET

CONTOUR INTERVAL = 10 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER JACKRABBIT WASH AND TRIBUTARIES

APPROXIMATE ZONE A FLOODPLAIN DELINEATION

STUDY OF JACKRABBIT WASH, FCD 2000C019

WATERSHED "00"

DECEMBER 2003

Registered Professional Engineer (Civil) CERTIFICATE NO. 22208 JACK K. MOODY Date Signed 12-31-03 ARIZONA, U.S.A.

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WP# 001218

SHEET 33 OF 33

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS FOR 1"= 500' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS.

LANDATA AIRBORNE SYSTEMS, IRVINE, CALIFORNIA
FLIGHT DATES: DECEMBER 2000

GROUND CONTROL SURVEY DATA
PROVIDED BY RBF CONSULTING, PHOENIX, ARIZONA

EXHIBIT C
ANNOTATED FLOOD INSURANCE RATE MAPS

Approximate Zone A FDS of Watershed "OO"
Upper Jackrabbit Wash and Tributaries, FCD 2000C019
Wood, Patel & Associates, Inc.

Only one of the FEMA Flood Insurance Rate Maps is printed in this study area.

ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FEET NGVD)	DESCRIPTION OF LOCATION
RM1051	1700.58	This station is located at the corner common to sections 8, 9, 16, and 17, T4N, R6W, GLO brass cap dated 1916, 1.2 feet above ground.
RM1052	1726.07	This station is located 10.1 miles north of the centerline of the CAP Canal along Wickenburg Road, a standard USGS brass cap in a concrete post 103 feet north of the roadway intersection with Vulture Mine Road, stamped 25 WLS 1957 1726.
RM3089	1752.08	GLO brass cap on 2-inch pipe, 0.8 foot above ground, common corner of sections 27, 28, 33, and 34, T5N, R6W, dated 1916.
RM3090	1726.32	GLO brass cap on 2-inch pipe, 1.1 feet above ground, common corner of sections 33 and 34, T5N, R6W, dated 1916.

EXHIBIT C
ANNOTATED FIRM PANEL

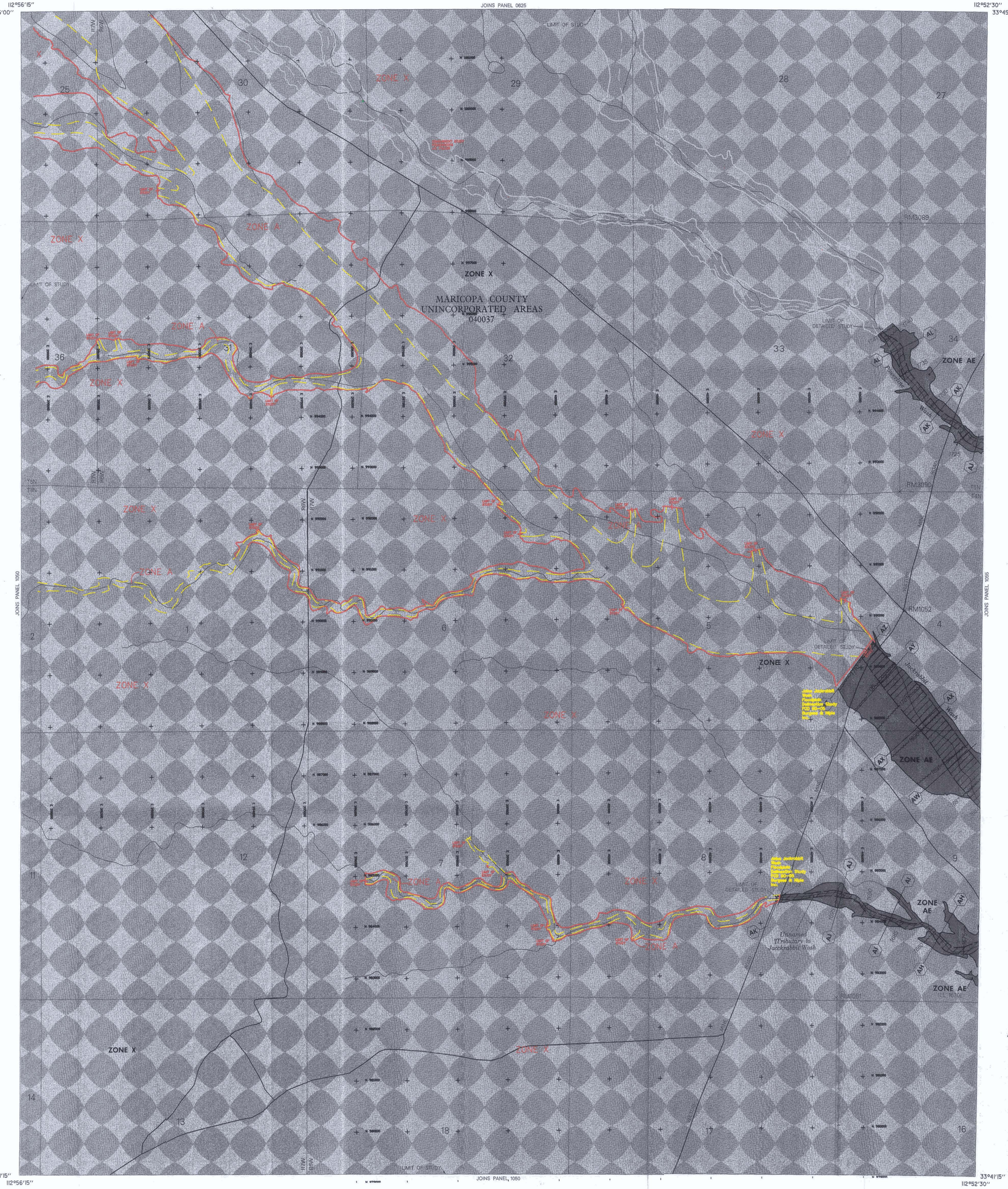
LEGEND
100-YR FLOODPLAIN BOUNDARY
100-YR ADMINISTRATIVE FLOODWAY
WOOD/PATEL DECEMBER 2003

LEGEND

To obtain more detailed information in areas where Base Flood Elevations (BFEs)and /or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations and therefore may not exactly reflect the flood elevation data presented in the FIS. BFEs shown on the FIRM are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS should be utilized in conjunction with the FIRM for purposes of construction and /or floodplain management.

ERM elevations listed on this map were obtained and/or developed to establish vertical control for determination of flood elevations and floodplain boundaries portrayed on this map. Users should be aware that these ERM elevations may have changed since the publication of this map. To obtain up-to-date elevation information on National Geodetic Survey (NGS) ERMs shown on this map, please contact the Information Services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov. Map users should seek verification of non-NGS ERM monument elevations when using these elevations for construction or floodplain management purposes.

Coastal BFE's shown on this map may apply only landward of 0.0' NGVD. Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this community. Elevations shown in the Summary of Stillwater Elevations table should be used for construction, and / or floodplain management purposes when they are higher than the elevations shown on this FIRM.



LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

ZONE A No base flood elevations determined.

ZONE AE Base flood elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE A99 To be protected from 100-year flood by Federal flood protection system under construction ; no base flood elevations determined.

ZONE V Coastal flood with velocity hazard (wave action); no base flood elevations determined.

ZONE VE Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

ZONE X Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

ZONE X Areas determined to be outside 500-year floodplain.

ZONE D Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

Identified 1983 | Identified 1990 | Otherwise Protected Areas

Coastal barrier areas are normally located within or adjacent to Special Flood Hazard Areas.

Floodplain Boundary

Floodway Boundary

Zone D Boundary

Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.

513 Base Flood Elevation Line; Elevation in Feet. See Map Index for Elevation Datum.

(EL 987) Cross Section Line

Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum.

RM7 Elevation Reference Mark

M2 River Mile

97°07'30", 32°22'30" Horizontal Coordinates Based on North American Datum of 1927 (NAD 27) Projection.

NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside Special Flood Hazard Areas. The community map repository should be consulted for more detailed data on BFE's, and for any information on floodway delineations, prior to use of this map for property purchase or construction purposes.

Areas of Special Flood Hazard (100-year flood) include Zones A, AE, A1-A30, AH, AO, A99, V, VE and V1-V30.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 120 inch.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

This map may incorporate approximate boundaries of Coastal Barrier Resource System Units and /or Otherwise Protected Areas established under the Coastal Barrier Improvement Act of 1990 (PL 101-591).

For community map revision history prior to countywide mapping, see Section 6.0 of the Flood Insurance Study Report.

For adjoining map panels and base map source see separately printed Map Index.

MAP REPOSITORY
Refer to Repository Listing on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:
APRIL 15, 1988

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL:
DECEMBER 3, 1993, SEPTEMBER 30, 1996

Map revised July 19, 2001 to update corporate limits, to change base flood elevations, to add base flood elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to update map format, to add roads and road names, and to incorporate previously issued Letters of Map Revision.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620.

APPROXIMATE SCALE IN FEET
1000 0 1000

CLM 1035

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 1035 OF 4350
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
MARICOPA COUNTY, UNINCORPORATED AREAS	040037	1035	G

MAP NUMBER 04013C1035 G

MAP REVISED: JULY 19, 2001

Federal Emergency Management Agency

EXHIBIT D
CD CONTAINING ELECTRONIC FILES

Approximate Zone A FDS of Watershed "OO"
Upper Jackrabbit Wash and Tributaries, FCD 2000C019
Wood, Patel & Associates, Inc.

Approximate Zone A Floodplain Delineation Study of Watershed "OO" (Upper Jackrabbit Wash and Tributaries)

Community Name: Maricopa County, Arizona
Date Prepared: January 7, 2004
Study Contractor Name: Wood, Patel & Associates, Inc.
2051 West Northern, Suite 100, Phoenix, AZ. 85021

Flooding Source: Upper Jackrabbit Wash and Tributaries

AUTOCAD DXF FILE:

BASEDXF1	dxf	5,403,228	12/30/2003	03:10p

HYDROLIC MODEL FILES:

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T4R6S04	O01	118,464	10/13/2003	10:48a
T4R6S04	p01	3,978	09/30/2003	01:21p
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T4R6S04	r01	42,188	10/13/2003	10:48a
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T4R6S05	g01	5,716	10/16/2003	01:10p
T4R6S05	O01	51,264	10/16/2003	01:10p
T4R6S05	p01	1,628	09/30/2003	01:10p
T4R6S05	prj	612	10/16/2003	05:01p
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T5R6S31	r01	5,174	09/30/2003	02:36p
T5R6S32	f01	2,151	04/15/2003	09:14a
T5R6S32	g01	11,644	10/01/2003	01:02p
T5R6S32	O01	67,264	10/01/2003	01:19p
T5R6S32	p01	1,680	10/01/2003	01:19p
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T5R7S05	prj	612	10/15/2003	01:27p
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T5R7S08	O01	51,264	10/01/2003	01:47p
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T5R7S10	r01	24,656	10/15/2003	09:50a
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T5R7S11	g01	3,840	10/01/2003	04:47p
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