

# FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

## CAVE CREEK

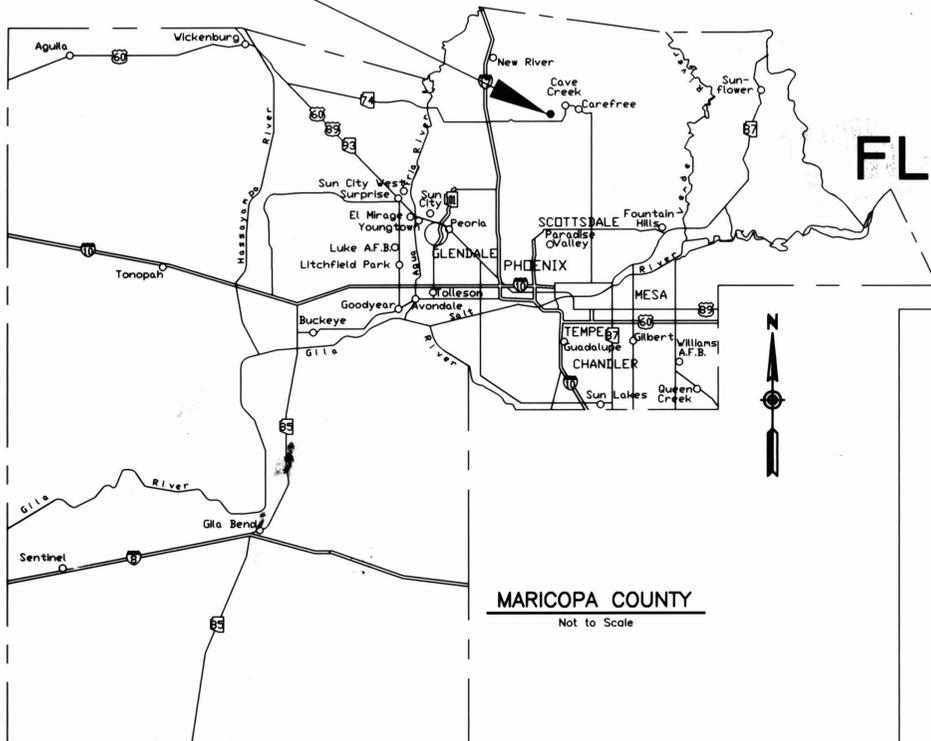
### ABOVE CAREFREE HIGHWAY

### FLOODPLAIN DELINEATION STUDY

#### FCD 95-28



STUDY AREA



LOCATION MAP

**DATUM**

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

**STATEMENTS BY PROFESSIONAL REGISTRANTS**

The ground control survey was prepared under my direct supervision:



The following statements apply to the individual seals affixed to each of the maps following this cover sheet.

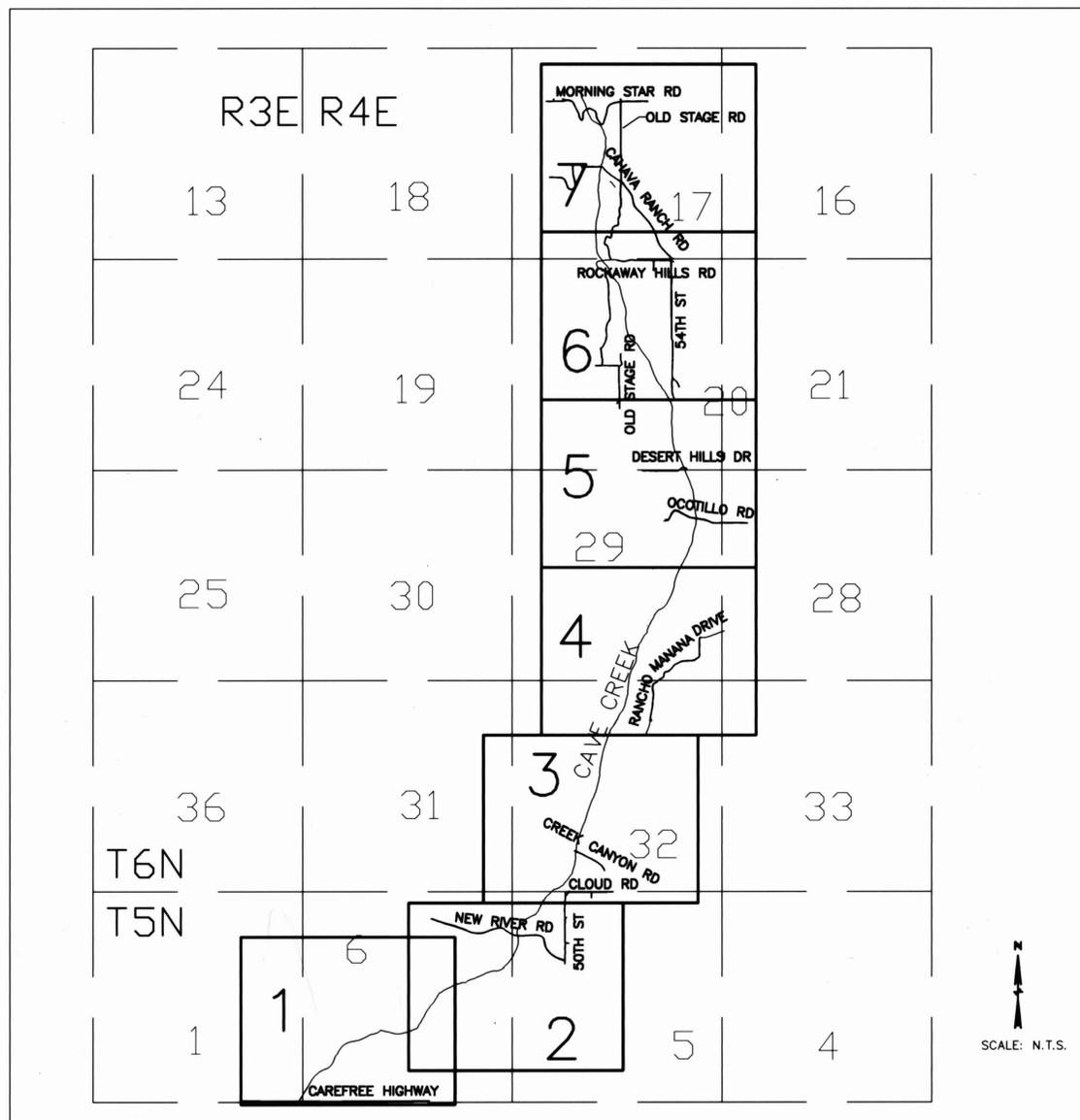
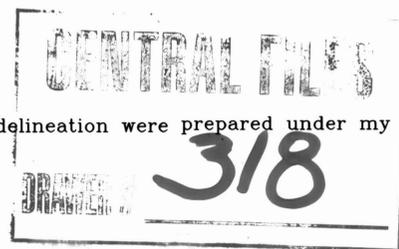
The photogrammetry and topographic mapping were prepared under my direct supervision:



The hydrologic values used for the floodplain and floodway delineation were prepared under my direct supervision:



The floodplain and floodway delineation were prepared under my direct supervision:



STUDY AREA MAP AND SHEET INDEX

**SHEET INDEX**

Sheet 1-7 Floodplain Delineation Study

**NOTE**

Floodplain Limits in this Study are Plotted at each HEC-2 Cross Section on the Basis of Starting (SSTA) and Ending (ENDST) Stations Unless there is Ineffective Flow Area or a Conflict with Topographic Contours, in which case, the Contours take Precedence.

**AERIAL MAPPING**

Aerial Mapping Company, Inc.  
 3141 W. Clarendon Avenue  
 Phoenix, Arizona 85017 (602) 263-5728  
 Flight Date: January 12, 1996  
 Contour Interval: 2 Feet

**GROUND CONTROL**

Alcocer Land Surveyors  
 3501 N. 16th Street, Suite C  
 Phoenix, Arizona 85016 (602) 263-7846

**HYDROLOGY**

George V. Sabol Consulting Engineers, Inc.  
 40 SFC Engineering Company  
 7776 Pointe Parkway West, Suite 290  
 Phoenix, Arizona 85044 (602) 438-2200

**HYDRAULICS**

McLaughlin Kmetty Engineers, Ltd.  
 3501 N. 16th Street  
 Phoenix, Arizona 85016 (602) 248-7702

**LEGEND**

Section Label	31
Sheet Limits	—————
Sheet Number	7
Study Wash	—————
Section Line	- - - - -

GEORGE V. SABOL CONSULTING ENGINEERS, INC.  
 in association with  
 McLAUGHLIN KMETTY ENGINEERS, LTD.

DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	CLJ	9/96	
PLANS	KLH,RGS	3/97	RECOMMENDED BY: _____ DATE _____
PLANS CHK.	FEB	3/97	APPROVED BY: _____ DATE _____
SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
		DATE: _____	<b>COVER SHEET</b>

Dwg. Name: P:\92404003\ACAD\CCCOVER.dwg  
 REV. March 31, 1997 2:17pm

**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY**  
**FLOOD DELINEATION STUDY OF  
CAVE CREEK  
ABOVE CAREFREE HIGHWAY**  
**F.C.D. CONTRACT NO. 95-28**

**LEGEND**

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- HYDRAULIC BASE LINE & RIVER MILE
- CROSS SECTION  $\frac{FP=100 \text{ Yr WSEL}}{FW=\text{Floodway WSEL}} = 5.519$   
 $\frac{Q=100 \text{ Yr Flow}}{Q=100 \text{ Yr Flow}}$
- ELEVATION REFERENCE MARK
- BASE FLOOD ELEVATIONS
- ZONE DESIGNATIONS ZONE AE
- CORPORATE LIMITS
- SECTION LINE

**ELEVATION REFERENCE MARKS**

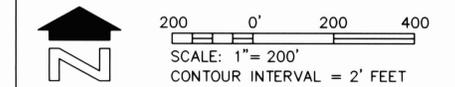
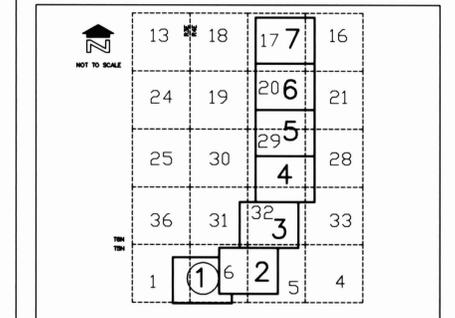
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
CC061	1908.08	LOCATED AT TOP OF BRASS CAP IN HANDHOLE AT S 1/4 CORNER SEC 6, T5N, R4E.
CC062	1914.48	LOCATED AT TOP OF BRASS CAP IN HANDHOLE AT W 1/4 CORNER SEC 6, T5N, R4E.

**NOTES**

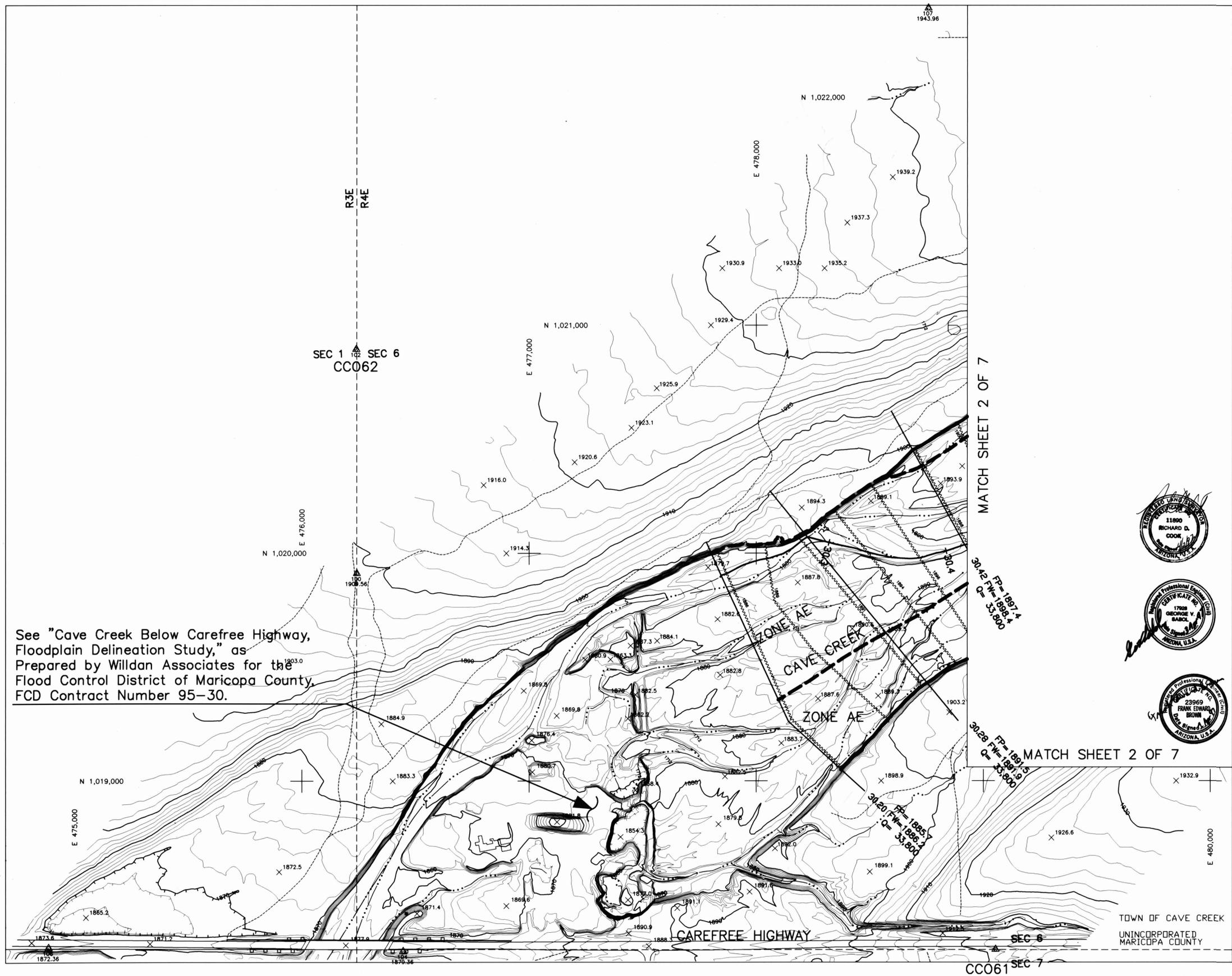
1. NGVD 29 TO NAVD 88 ELEVATION CONVERSION: NGVD 1929 + 1.87 FEET (OR + 0.57 METERS) = NAVD 88. THIS CONVERSION WAS DERIVED BY THE NATIONAL GEODETIC SURVEY, RETRIEVAL DATE JULY 21, 1992, AT BELL 2, USING DIFFERENTIAL LEVELING. BELL 2 IS LOCATED ABOUT 0.05 MILES WEST OF INTERSTATE 17 AT THE BELL ROAD INTERCHANGE.
2. ALL SECTION CORNERS ARE APPROXIMATE.
3. ERM LABELS "CC061": WHERE CC MEANS CAVE CREEK, THE NEXT TWO DIGITS REFER TO THE SECTION NUMBER THE ERM IS IN, AND THE LAST DIGIT IS THE ACTUAL ERM NUMBER.

**INDEX MAP**

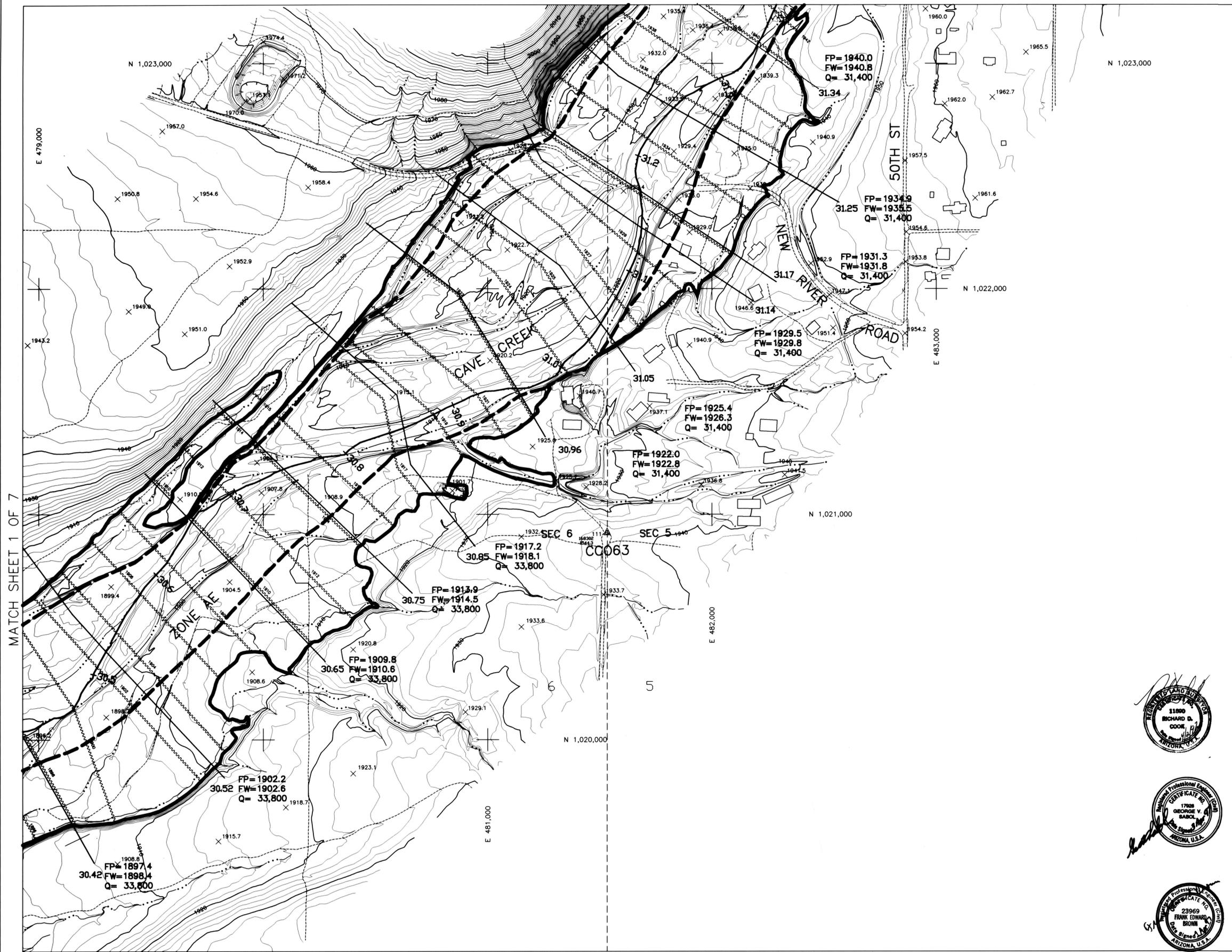


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SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
	DATE:		SHEET 1 OF 7



See "Cave Creek Below Carefree Highway, Floodplain Delineation Study," as Prepared by Willdan Associates for the Flood Control District of Maricopa County, FCD Contract Number 95-30.



**FLOOD CONTROL DISTRICT  
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- FLOODWAY BOUNDARY
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- CROSS SECTION
- ELEVATION REFERENCE MARK
- BASE FLOOD ELEVATIONS
- ZONE DESIGNATIONS
- CORPORATE LIMITS
- SECTION LINE

ELEVATION REFERENCE MARKS

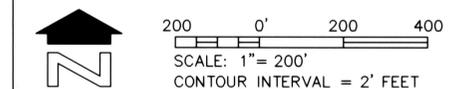
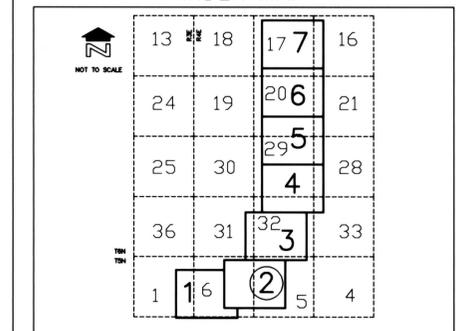
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
CC063	1938.37	LOCATED AT TOP OF USGLD BRASS CAP AT EAST 1/4 CORNER SEC 6 TSN R4E

NOTES

1. NGVD 29 TO NAVD 88 ELEVATION CONVERSION: NGVD 1929 + 1.37 FEET (OR + 0.57 METERS) = NAVD 88. THIS CONVERSION WAS DERIVED BY THE NATIONAL GEODETIC SURVEY, RETRIEVAL DATE JULY 21, 1992, AT BELL 2, USING DIFFERENTIAL LEVELING. BELL 2 IS LOCATED ABOUT 0.05 MILES WEST OF INTERSTATE 17 AT THE BELL ROAD INTERCHANGE.
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PLANS CHK.	FEB	3/97	
SUBMITTED BY:			SHEET 2 of 7



**FLOOD CONTROL DISTRICT  
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 $Q=100 \text{ Yr Flow}$
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- ZONE DESIGNATIONS
- CORPORATE LIMITS
- SECTION LINE

**ELEVATION REFERENCE MARKS**

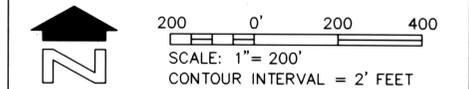
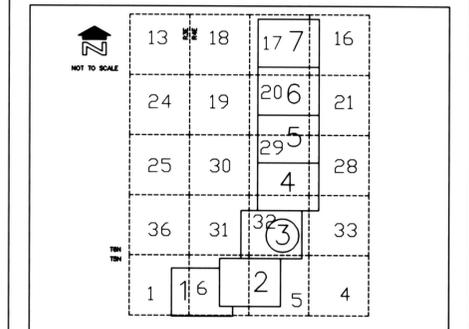
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
CC064	1993.22	LOCATED AT TOP OF USGLD BRASS CAP AT NE CORNER SEC 6 T5N R4E
CC321	1985.02	LOCATED AT TOP OF BRASS CAP IN CONCRETE 7' WEST OF POWER LINE AND 7' WEST OF POWER & TELEPHONE POLE # P51007660, BEING IN THE SE 1/4 OF SEC 32, T6N R4E. APPROXIMATE COORDINATES N1025619.4 E484463.9

**NOTES**

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**INDEX MAP**



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SUBMITTED BY:			CHEF ENGINEER AND GENERAL MANAGER
	DATE:		SHEET 3 of 7



**FLOOD CONTROL DISTRICT  
OF MARICOPA COUNTY**  
FLOOD DELINEATION STUDY OF  
**CAVE CREEK**  
ABOVE CAREFREE HIGHWAY  
F.C.D. CONTRACT NO. 95-28

**LEGEND**

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
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- CROSS SECTION  $FP=100 \text{ Yr WSEL } 5.519$   
 $FW=\text{Floodway WSEL}$   
 $Q=100 \text{ Yr Flow}$
- ELEVATION REFERENCE MARK OR **CC061**
- BASE FLOOD ELEVATIONS 1221
- ZONE DESIGNATIONS ZONE AE
- CORPORATE LIMITS
- SECTION LINE

**ELEVATION REFERENCE MARKS**

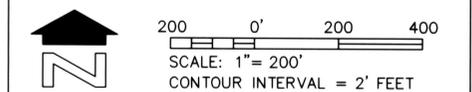
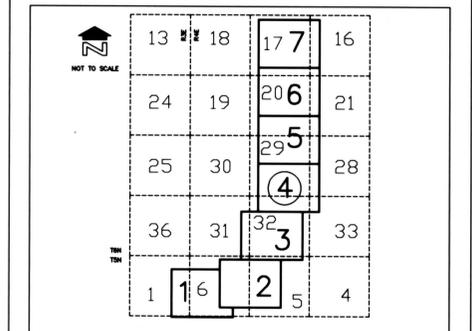
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
CC322	2005.81	LOCATED AT TOP OF BRASS CAP IN CONCRETE 10' NORTH & 6' WEST OF ELECTRIC TRANSFORMER # M6450, BEING ON THE WEST SIDE OF ANDORRA HILLS WASH DRIVE, BEING IN THE NE 1/4 OF SEC 32 T6N R4E, APPROXIMATE COORDINATES N1028278.3 E485054.4

**NOTES**

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4. THE GOLF CART BRIDGE AT RM 33.08 IS ABOUT 1.0 FEET ABOVE THE CHANNEL BOTTOM. THE CROSS SECTION IS TAKEN ALONG THE TOP OF DECK AND A BRIDGE ANALYSIS IS NOT NEEDED.

**INDEX MAP**



<b>GEORGE V. SABOL CONSULTING ENGINEERS, INC.</b> in association with <b>McLAUGHLIN KMETTY ENGINEERS, LTD.</b>			
DESIGN	BY	DATE	<b>FLOOD CONTROL DISTRICT OF MARICOPA COUNTY</b>
	FEB	9/96	
DESIGN CHK.	FCDMC	9/96	RECOMMENDED BY:
PLANS	KLH,RGS	3/97	APPROVED BY:
PLANS CHK.	FEB	3/97	DATE
SUBMITTED BY:	DATE:		CHIEF ENGINEER AND GENERAL MANAGER
			SHEET <b>4</b> OF <b>7</b>



LIMIT OF CAVE CREEK FLOODPLAIN DELINEATION

LIMIT OF CAVE CREEK FLOODPLAIN DELINEATION

LIMIT OF CAVE CREEK FLOODPLAIN DELINEATION

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY**  
**FLOOD DELINEATION STUDY OF CAVE CREEK ABOVE CAREFREE HIGHWAY**  
**F.C.D. CONTRACT NO. 95-28**

LEGEND

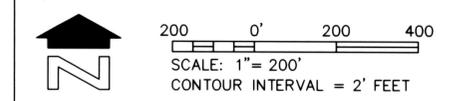
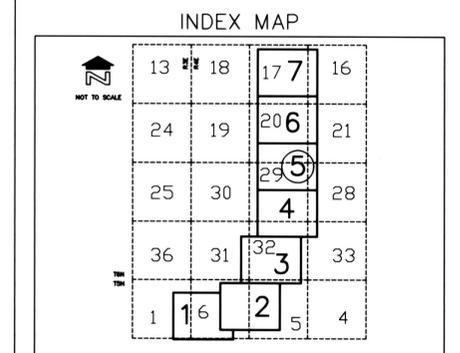
100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	
CROSS SECTION	FP=100 Yr WSEL FW=Floodway WSEL Q=100 Yr Flow
ELEVATION REFERENCE MARK	 CC061
BASE FLOOD ELEVATIONS	
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	
SECTION LINE	

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
CC291	2057.34	LOCATED AT TOP OF BRASS CAP IN CONCRETE 10' SOUTH OF OCOTILLO ROAD & 55TH STREET, BEING IN THE NE 1/4 SEC 29 T6N R4E. APPROXIMATE COORDINATES N1032723.2 E486628.2
CC201	2090.39	LOCATED AT TOP OF BRASS CAP IN CONCRETE BEING IN THE SE 1/4 SEC 20 T6N R4E. COORDINATES N1025191.926820 E484461.678362

- NOTES
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SUBMITTED BY: _____	DATE: _____	CHIEF ENGINEER AND GENERAL MANAGER	
			SHEET 5 OF 7

**FLOOD CONTROL DISTRICT  
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FLOOD DELINEATION STUDY OF  
CAVE CREEK  
ABOVE CAREFREE HIGHWAY  
F.C.D. CONTRACT NO. 95-28

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- 100-YR FLOODPLAIN BOUNDARY
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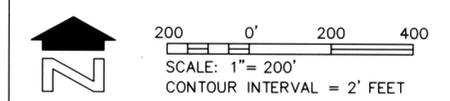
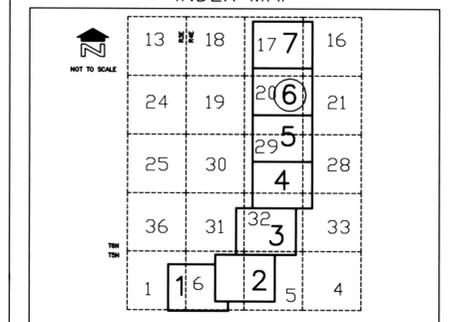
I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
ERM# CC202	2154.03	

LOCATED AT TOP OF BRASS CAP IN CONCRETE IN THE NW  
CORNER OF CAHAVA RANCH ROAD AND ROCKAWAY HILLS ROAD  
AND 15' WEST OF POWER POLE # MTP 107.64, BEING IN THE NE  
1/4 SEC 20 T6N R4E, APPROXIMATE COORDINATES N1039368.8  
E485527.7

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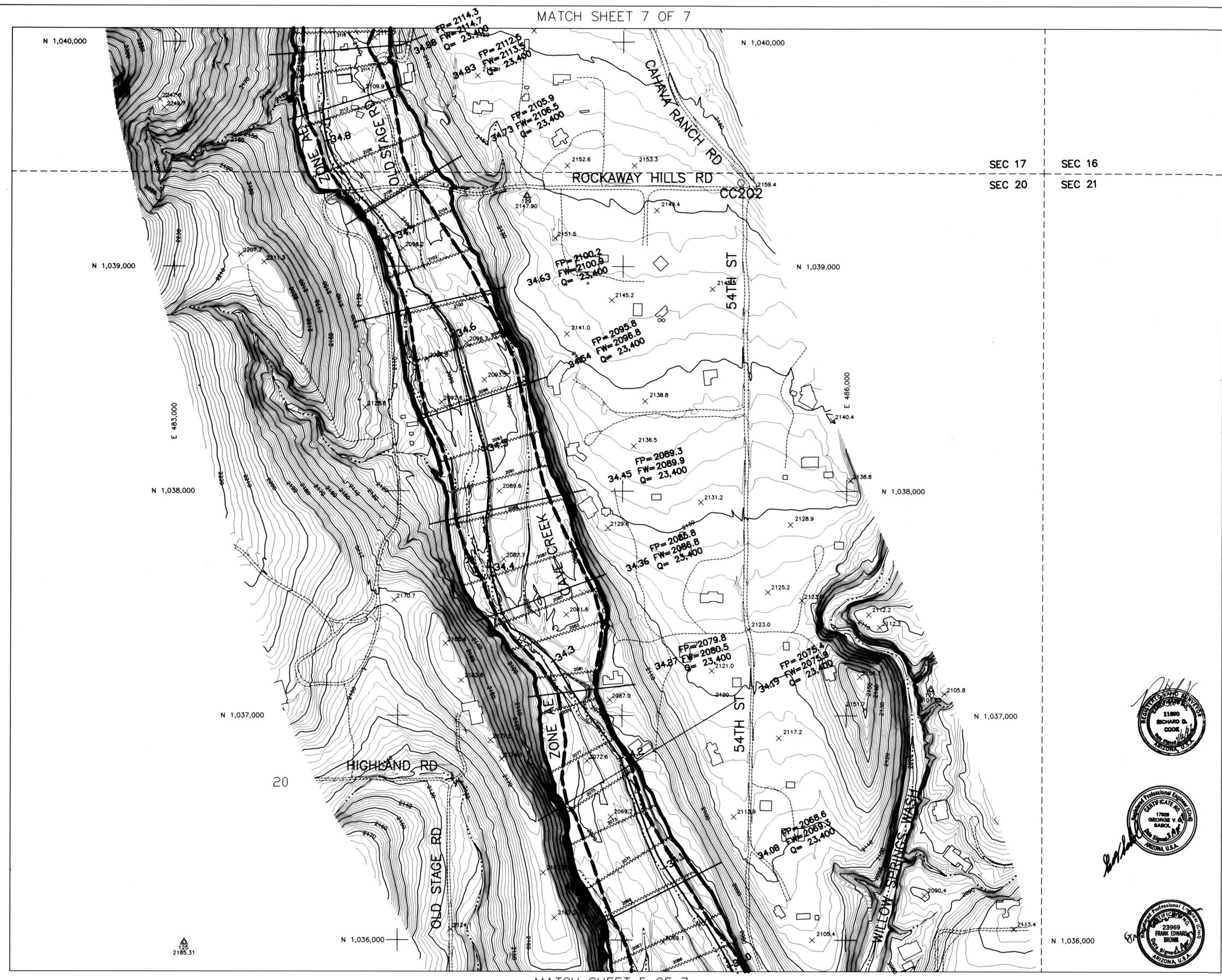
**INDEX MAP**



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SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 6 OF 7

Dwg. Name: F:\92404003\ACAD\CCSHEET16.dwg  
Date: REV. MARCH 31, 1997 03:45 PM



MATCH SHEET 7 OF 7

MATCH SHEET 5 OF 7

**FLOOD CONTROL DISTRICT  
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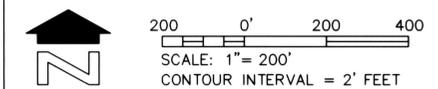
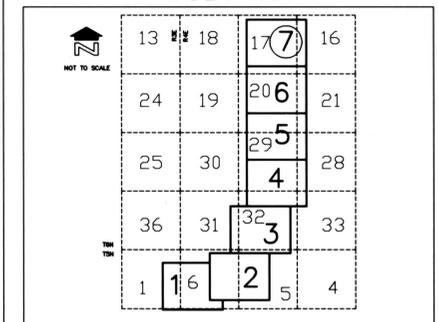
I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
CC171	2201.93	

LOCATED AT TOP OF BRASS CAP IN CONCRETE AT THE SOUTHEAST CORNER OF MORNING STAR ROAD AND OLD STAGE ROAD. ALSO 3' WEST OF POWER AND TELEPHONE POLE, BEING IN THE NE 1/4 SEC 17 T6N R4E. APPROXIMATE COORDINATES N1043306.6 E484315.0

NOTES

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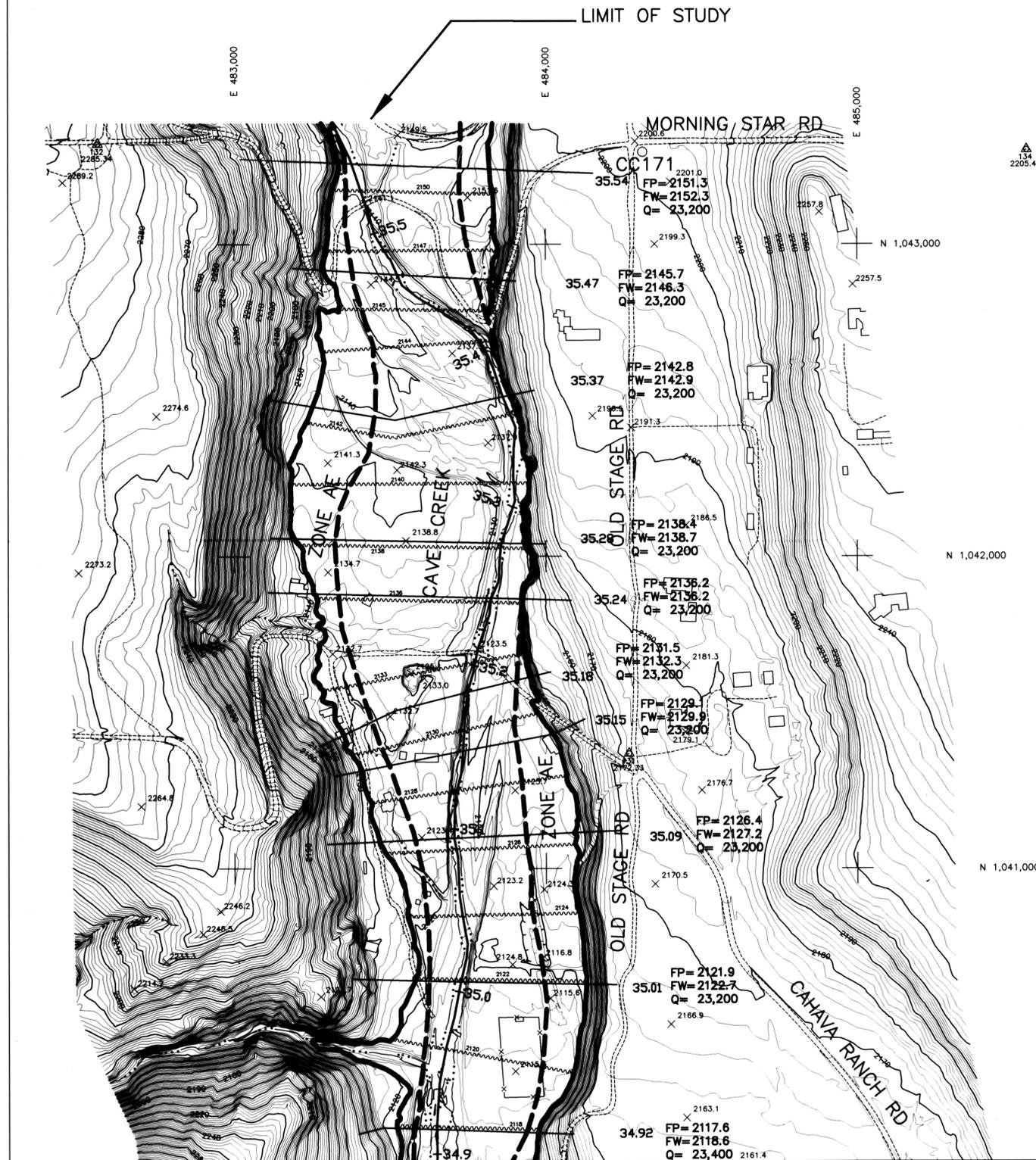


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			SHEET 7 of 7

Dwg. Name: P:\92404003\ACAD\CSHEET7.dwg Date: REV. MARCH 31, 1997 03:25 pm

SEC 17  
SEC 16



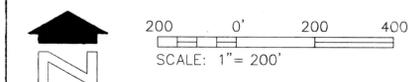
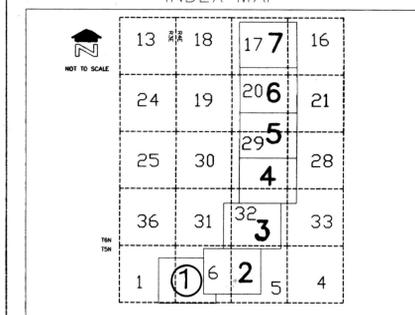
UNINCORPORATED MARICOPA COUNTY  
TOWN OF CAVE CREEK

MATCH SHEET 6 OF 7



FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
 CAVE CREEK  
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 LEGEND

INDEX MAP



GEORGE V. SABOL CONSULTING ENGINEERS, INC.  
 in association with  
 McLAUGHLIN KMETTY ENGINEERS, LTD.

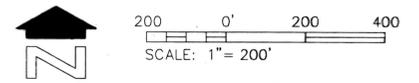
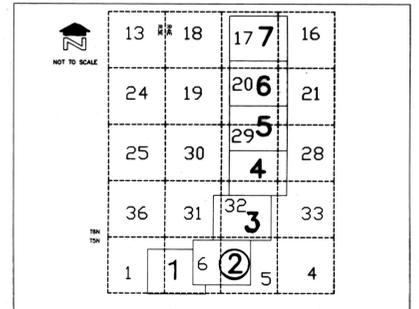
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	FEB	12/96	
DESIGN CHK.	FCDMC	12/96	RECOMMENDED BY:
PLANS	KLH,RGS	12/96	DATE:
PLANS CHK.	FEB	12/96	APPROVED BY:
			DATE:
SUBMITTED BY:			CHIEF ENGINEER AND GENERAL MANAGER
			SHEET
			1 OF 7

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FLOOD CONTROL DISTRICT  
 OF MARICOPA COUNTY  
 FLOOD DELINEATION STUDY OF  
 CAVE CREEK  
 ABOVE CAREFREE HIGHWAY  
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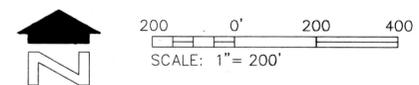
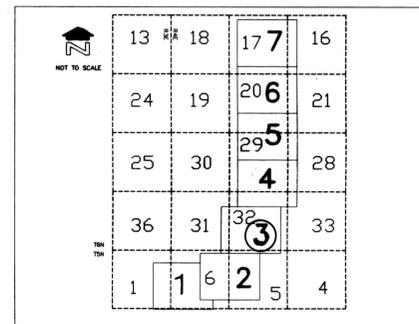
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AERIAL MAPPING COMPANY, INC.  
 SEMI-RECTIFIED PHOTOGRAPHY  
 SPOT PHOTO DATE: 12-05-96



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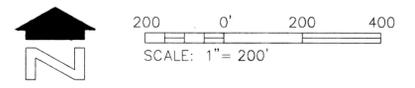
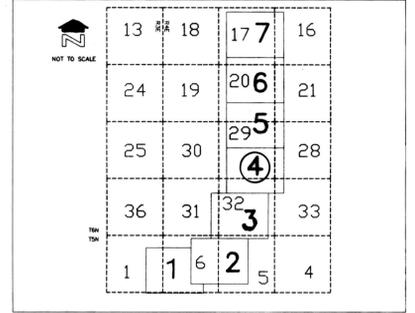
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DATE:			SHEET <b>3</b> OF <b>7</b>



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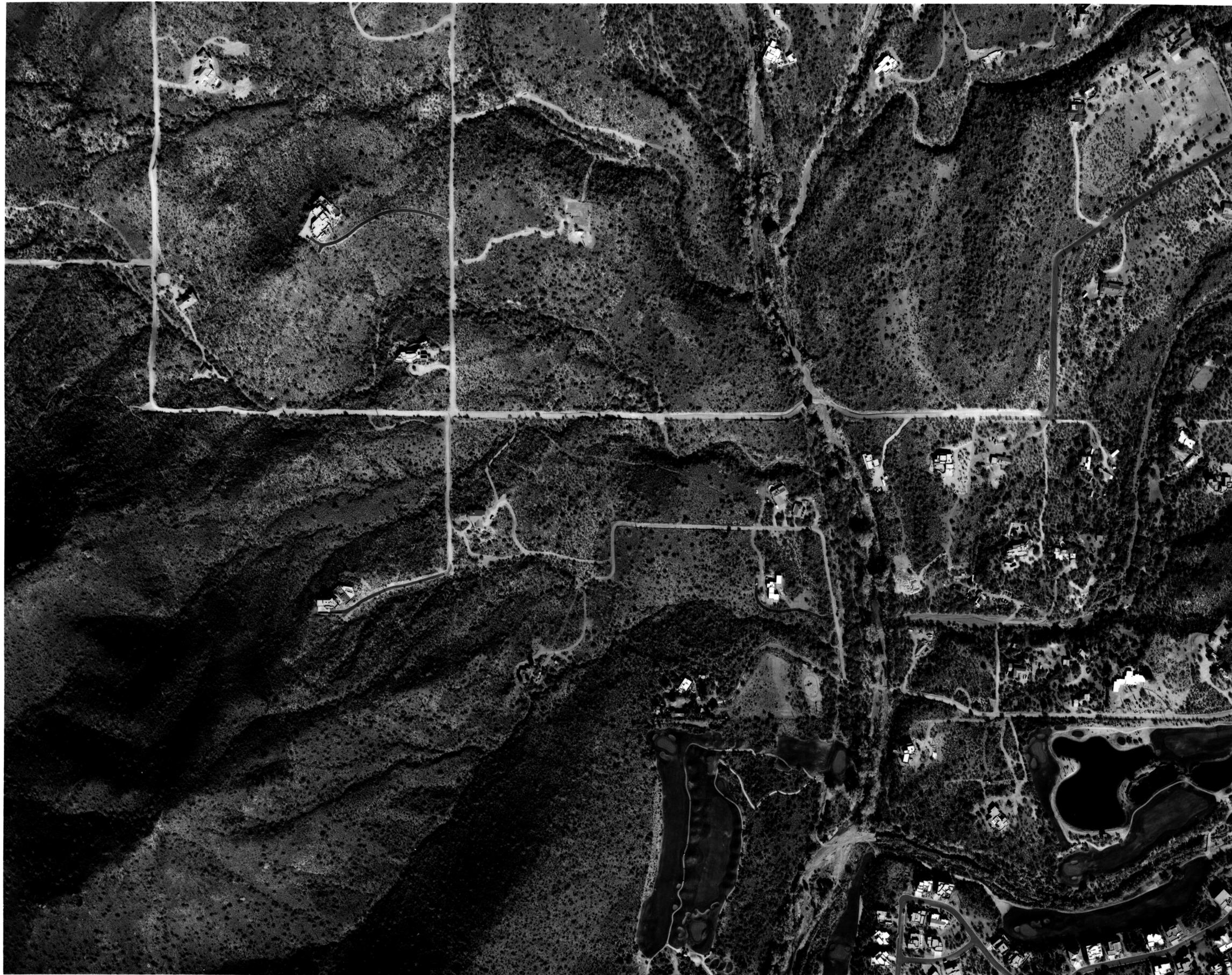
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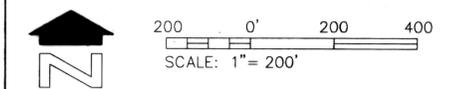
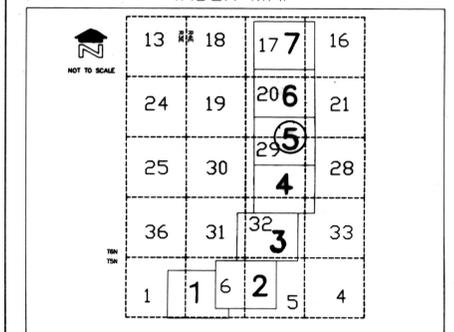
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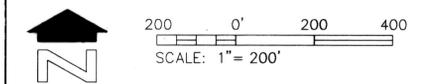
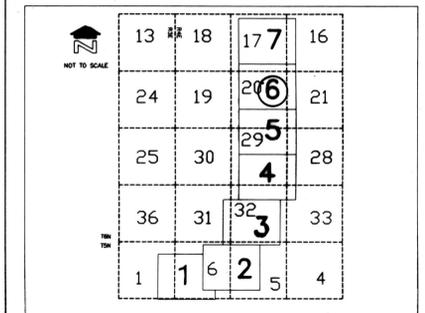
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SUBMITTED BY: _____	DATE: _____	SHEET	5 of 7



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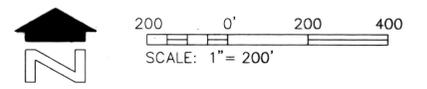
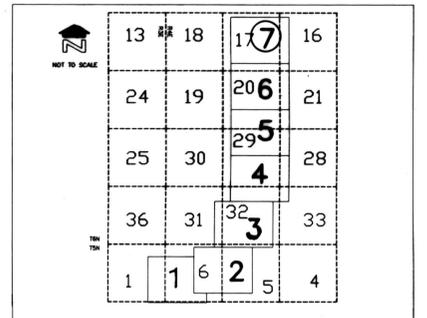
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