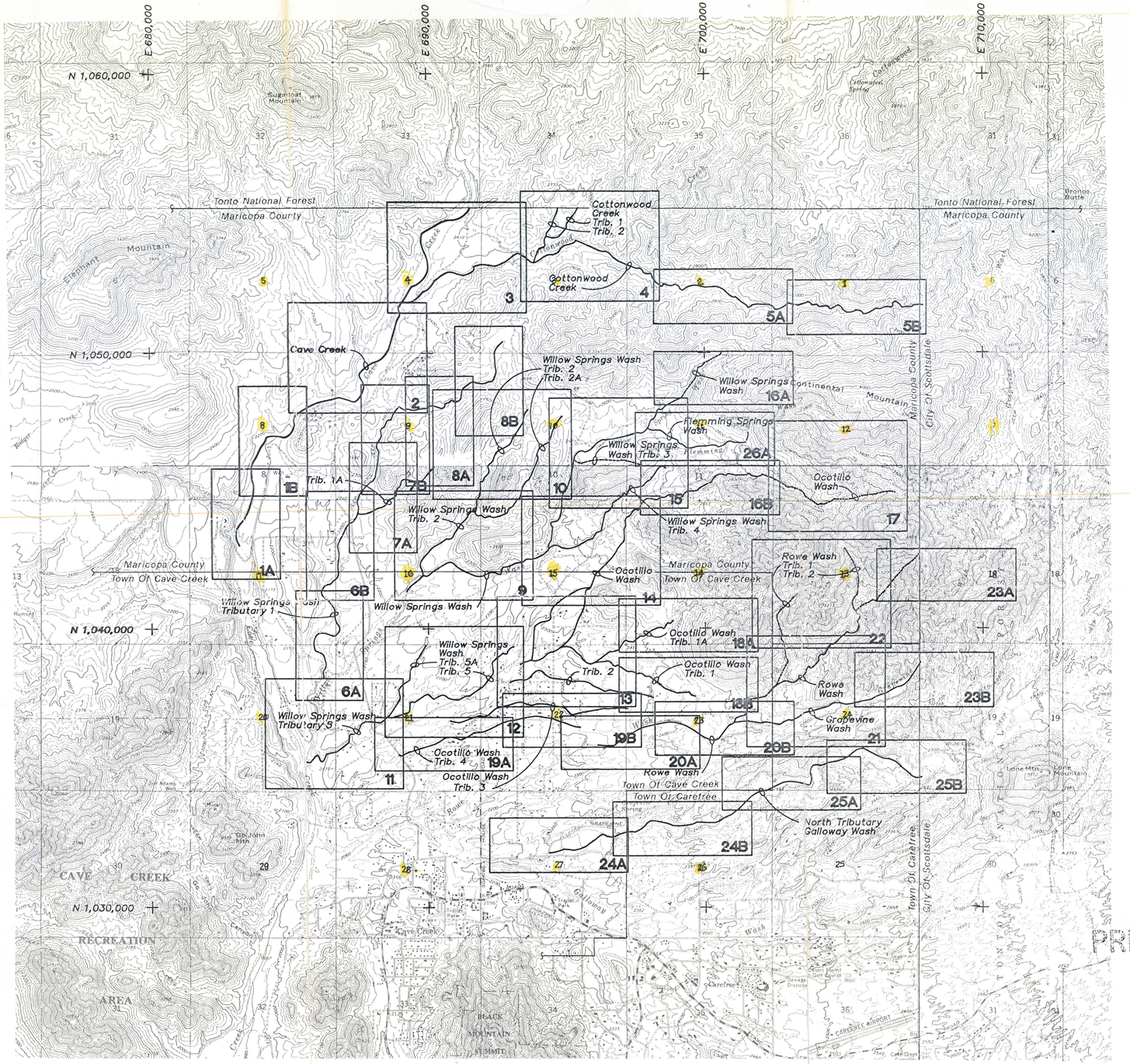
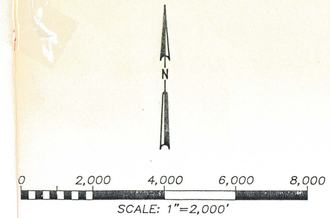
The Paper Maps were scanned due to the many notations throughout the set and have been placed before the original mylars.

03-27-90 KEY.DWG





LEGEND

- Detailed Study Stream Reach
- Approximate Study Stream Reach
- 2 — Sheet Limits and Sheet Number
- N 1,050,000 + — Arizona State Plane Coordinate System

Cave Creek / Carefree Flood Insurance Study

Cave Creek, Arizona

Prepared For:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Prepared By:

CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

PRELIMINARY

March 1990

Date of Photography: August 1989

Registered Professional Engineer (Civil) CERTIFICATE NO. 20961 STEVEN S. WALKER Date Signed: ARIZONA, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER
DR	T. HUNZIKER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD

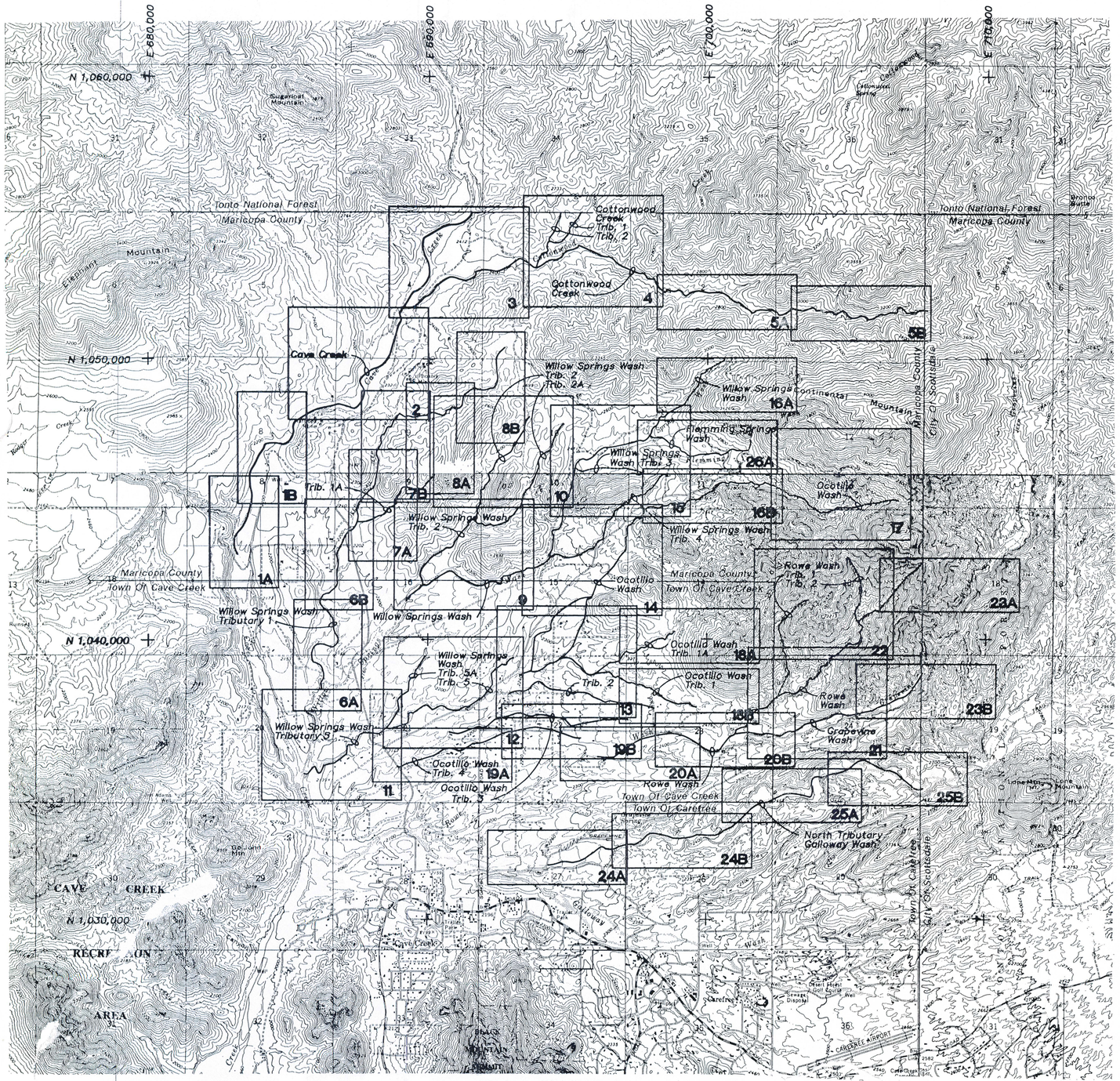
Prepared For: FLOOD CONTROL DISTRICT OF MARICOPA CO.
Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.

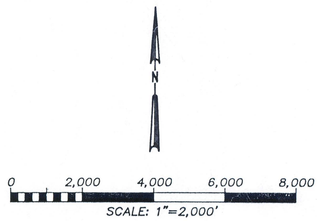
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

TITLE AND INDEX SHEET

SHEET	TITLE
DWG NO.	KEY.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

03-27-90 KEY.DWG





(Check upstream limit of Salt study reach
Problem with Q's
37,37 to 37,80

LEGEND

- Detailed Study Stream Reach
- Approximate Study Stream Reach
- 2 — Sheet Limits and Sheet Number
- N 1,050,000 + — Arizona State Plane Coordinate System

Ocotillo Wash-
See New Study by
HDR Engineering

Cave Creek / Carefree Flood Insurance Study

Cave Creek, Arizona

OLD CAVE CREEK STUDY
See NEW CAVE CREEK WASH.

Willow Springs
Galloway
See Also Study
By HDR

Prepared For:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY #2004C072

Prepared By:

CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

24/25

March 1990

Date of Photography: August 1989

Registered Professional Engineer — Certificate No. 20961 — STEVEN B. WALKER — Date Signed — Arizona, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER
DR	T. HUNZIKER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD

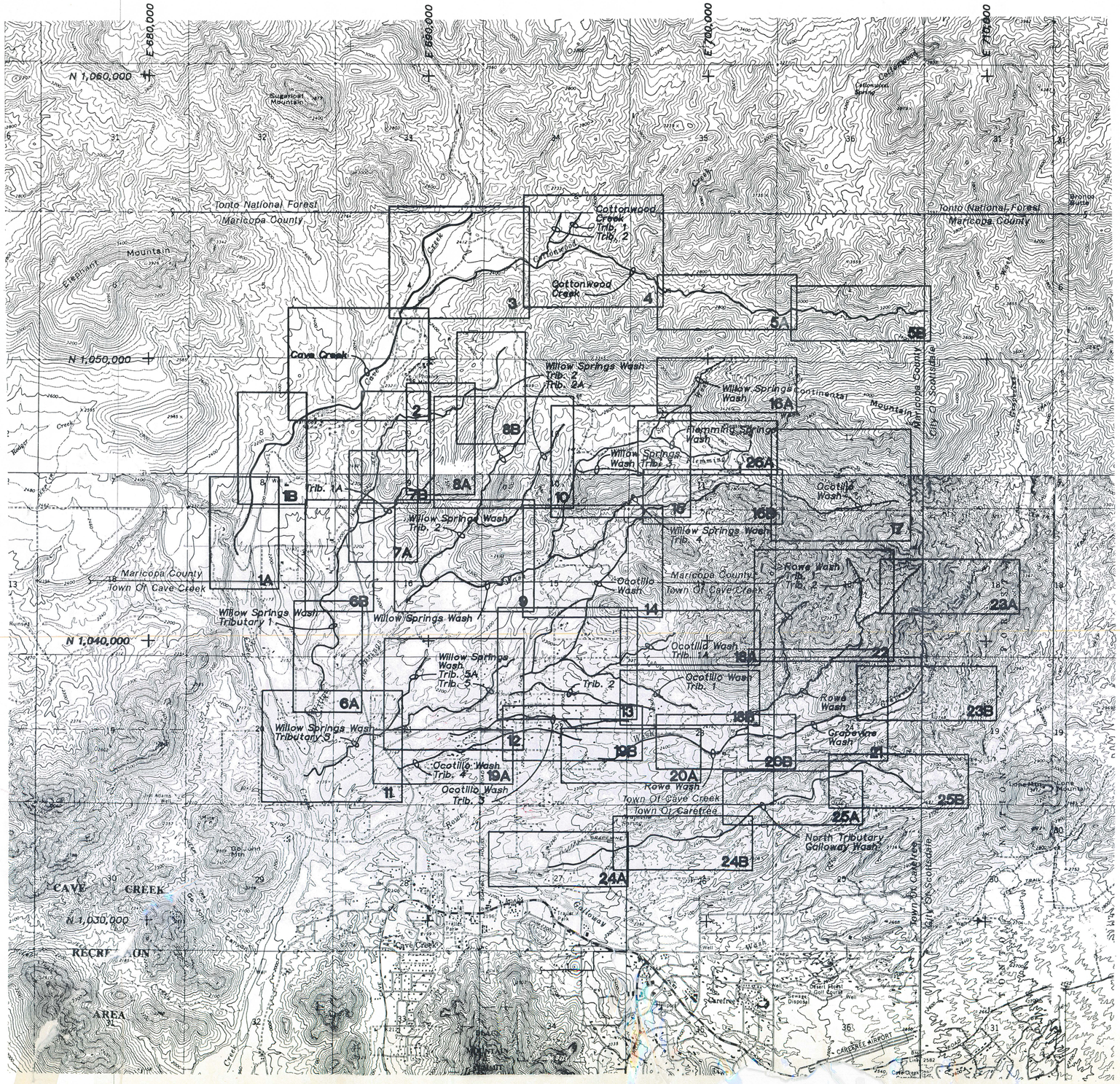
Prepared For: FLOOD CONTROL DISTRICT OF MARICOPA CO.
Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.

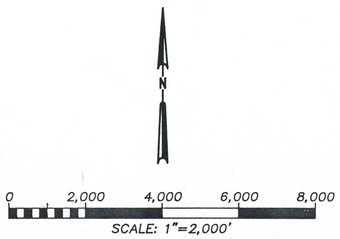
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

TITLE AND INDEX SHEET

SHEET	TITLE
DWG NO.	KEY.DWG
DATE	MARCH 19
PROJ NO.	RDD27815

03-27-90 KEY.DWG





(check upstream limit of Sabot study reach)
Problem with Q's 37,37 to 37,80

LEGEND

- Detailed Study Stream Reach
- Approximate Study Stream Reach
- 2 — Sheet Limits and Sheet Number
- N 1,050,000 + — Arizona State Plane Coordinate System

Cave Creek / Carefree Flood Insurance Study

Cave Creek, Arizona

OLD CAVE CREEK STUDY
See New CAVE CREEK WASH.

Prepared For:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Prepared By:

CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

24/25

March 1990
Date of Photography: August 1989

Registered Professional Engineer (Civil) CERTIFICATE NO. 20961 STEVEN B. WALKER Date Signed 3-27-90 ARIZONA, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER
DR	T. HUNZIKER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY

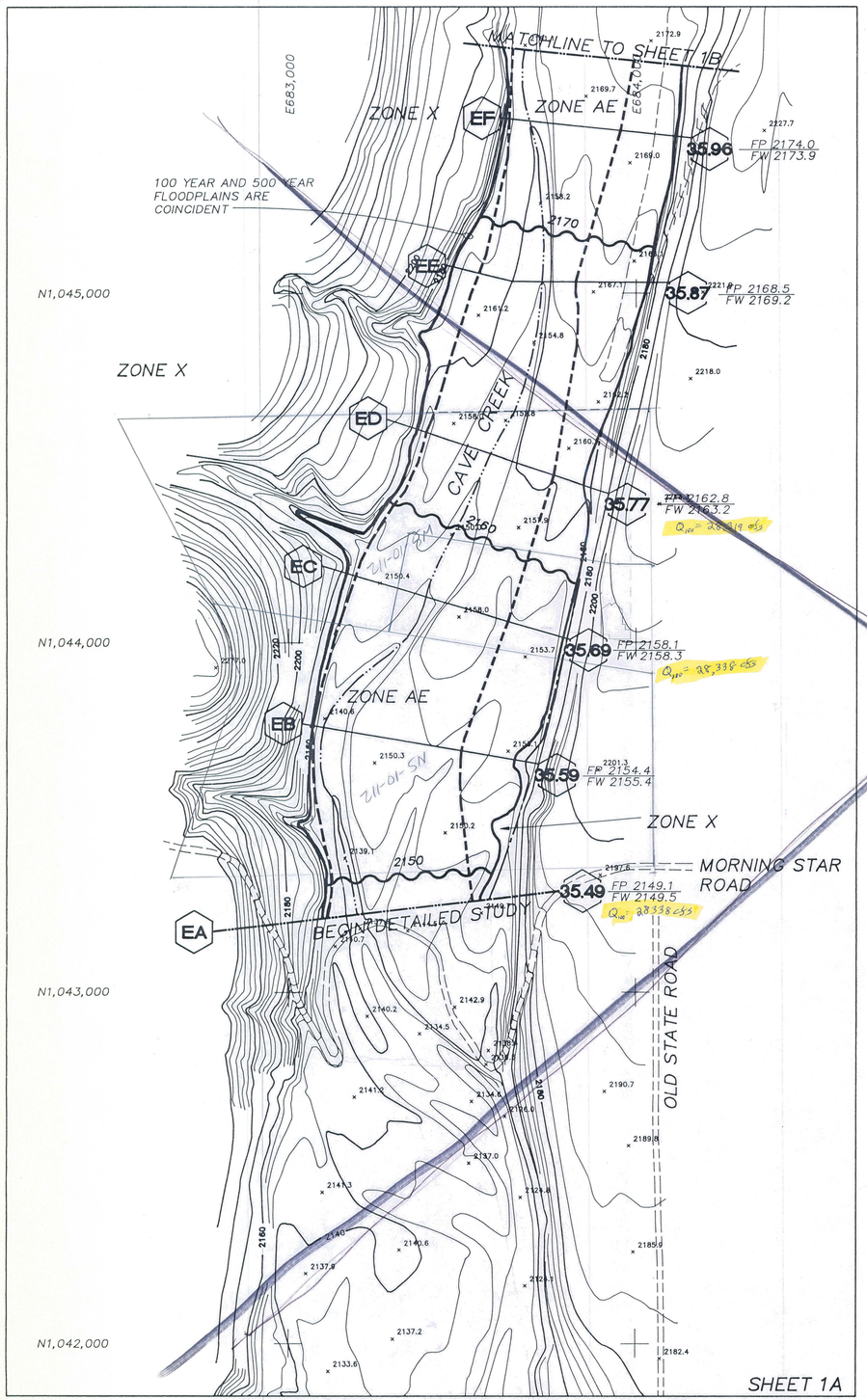
COPA CO.

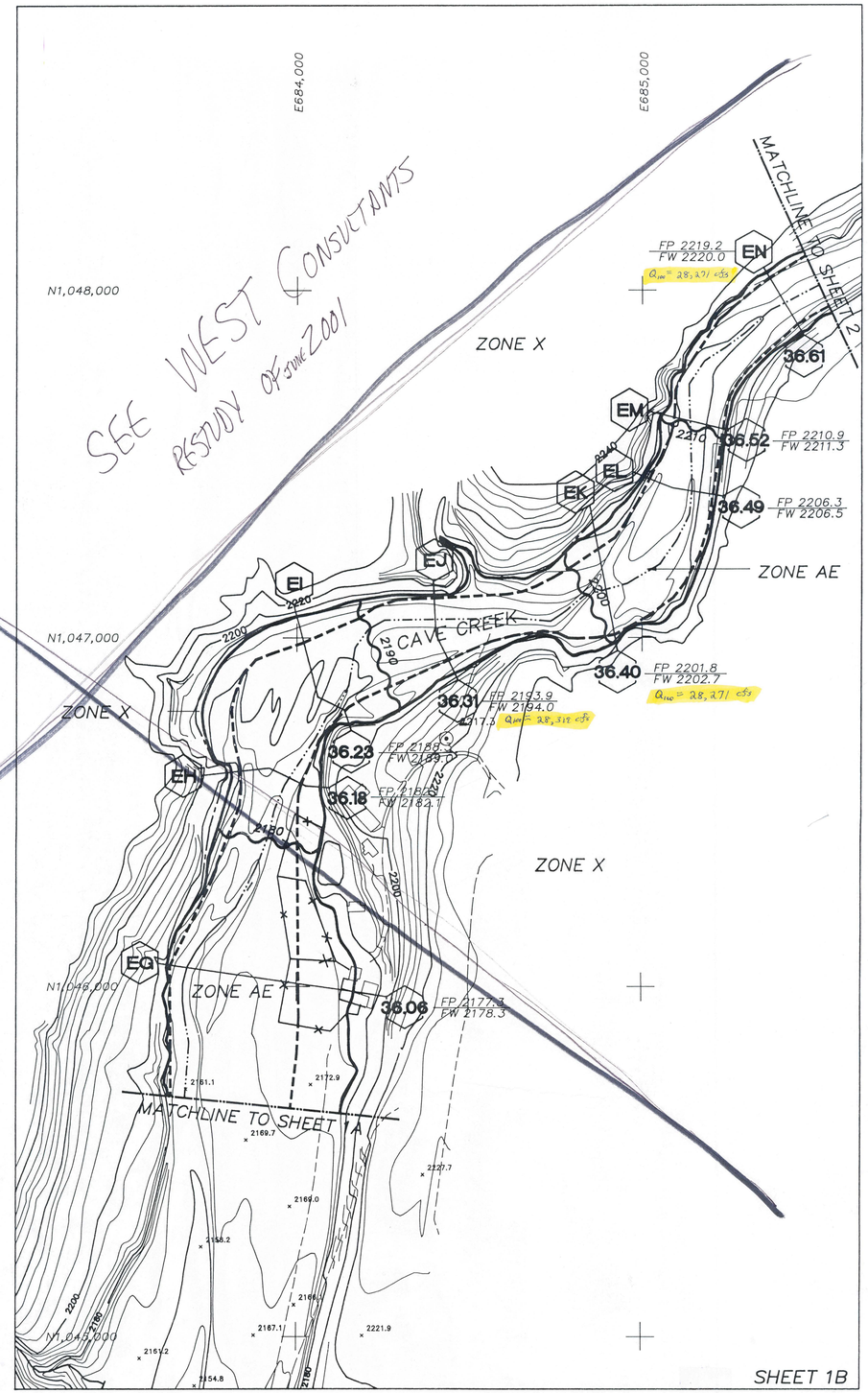
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

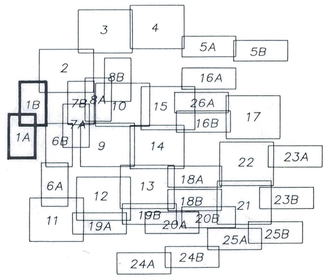
TITLE AND INDEX SHEET

SHEET	TITLE
DWG NO.	KEY.DWG
DATE	MARCH 1990
PROJ	RDD.27815.H3

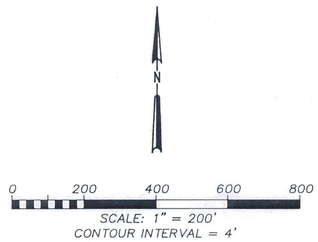
03-23-90 27815C1.DWG







SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

N 1/2 SEC 17, T6N R4E
S 1/2 SEC 8, T6N R4E

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE EXPIRES 3/31/92 — STEVEN R. WALKER — 3/31/92

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH	NO.	DATE	REVISION	DES	APVD
DR	27815C1 R.FREIER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	SRW	
CHK	S. WALKER					
APVD						

Prepared For: **Flood Control District of Maricopa County**
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

CAVE CREEK (STA 35.49 - 36.61)

SHEET 1
DWG NO. 27815C1.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-23-90 27815C2.DWG

E686,000 E687,000 E688,000

N1,051,000

N1,050,000

N1,049,000

N1,048,000

5 | 4
8 | 9

MATCHLINE TO SHEET 3

100-YEAR AND 500-YEAR FLOOD LIMITS ARE COINCIDENT

ZONE AE

ZONE X

CAVE CREEK

FD FC FB FA EZ EY EX EW EV EU ET ES ER EQ EP EO

37.80 FP 2287.9 FW 2287.9

37.75 FP 2284.2 FW 2284.6

37.66 FP 2276.5 FW 2277.1

37.57 FP 2270.8 FW 2271.3

37.47 FP 2267.8 FW 2268.2

37.37 FP 2267.2 FW 2268.0

37.31 FP 2264.1 FW 2264.8

37.27 FP 2262.7 FW 2263.4

37.20 FP 2258.7 FW 2259.4

37.12 FP 2250.9 FW 2251.7

37.08 FP 2249.7 FW 2250.4

36.96 FP 2246.2 FW 2247.1

36.88 FP 2238.1 FW 2238.2

36.78 FP 2227.9 FW 2228.7

36.69 FP 2222.1 FW 2222.5

37.01 FP 2247.5 FW 2248.2

SPUR CROSS ROAD

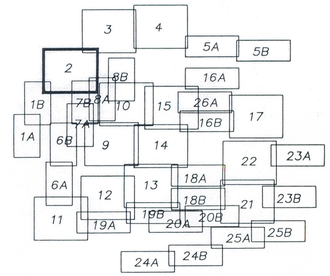
MATCHLINE TO SHEET 1

wrong Q's used (?)

$Q_{100} = 28,271$ cfs

$Q_{100} = 28381$ cfs

SEE WEST Consultants Report of June 2001



SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

NE 1/4 SEC 8 T6N R4E
NW 1/4 SEC 9 T6N R4E
SW 1/4 SEC 4 T6N R4E

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C2 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW

Prepared For: **Flood Control District of Maricopa County**
Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.

Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

CAVE CREEK (STA 36.69 -37.80)

SHEET 2
DWG NO. 27815C2.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-23-90 27815C3.DWG

SEE WEST (CONSULTANTS RESTUDY OF JUNE 2001)

E689,000 E690,000 E691,000 E692,000 E693,000

N1,055,000 N1,054,000 N1,053,000 N1,052,000

END OF DETAILED STUDY

TONTO NATIONAL FOREST BOUNDARY

33 34 3 4

RM 4

100-YR AND 500-YR FLOOD LIMITS ARE COINCIDENT

CAVE CREEK

ZONE AE

SPUR CROSS ROAD

ZONE X

SIERRA VISTA DRIVE

COTTONWOOD CREEK

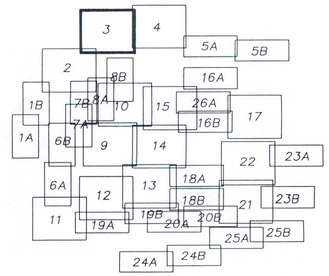
MATCHLINE TO SHEET 2

MATCHLINE TO SHEET 4

FL	38.79	FP 2349.0 FW 2349.0
FK	38.71	FP 2343.4 FW 2343.9
FJ	38.61	FP 2336.7 FW 2337.7
	38.50	FP 2330.4 FW 2331.1
FI	38.43	FP 2325.3 FW 2326.2
	38.32	FP 2318.7 FW 2319.1
FH	38.25	FP 2314.8 FW 2315.2
FG	38.14	FP 2311.3 FW 2312.3
FF	38.03	FP 2304.3 FW 2304.4
FE	37.93	FP 2296.8 FW 2296.8
FD	37.80	FP 2287.9 FW 2287.9
	0.94	FP 2392.7 FW 2393.9
	0.87	FP 2383.5 FW 2384.0
	0.79	FP 2375.7 FW 2376.4
	0.69	FP 2385.1 FW 2386.2
	0.66	FP 2360.6 FW 2360.6
	0.57	FP 2351.4 FW 2352.1
	0.51	FP 2344.4 FW 2344.7
	0.45	FP 2336.0 FW 2336.0
	0.32	2324.1 2324.2
	0.22	FP 2312.3 FW 2312.7
	0.13	FP 2305.0 FW 2305.5

100-YR AND 500-YR FLOOD LIMITS ARE COINCIDENT

100-YR AND 500-YR FLOOD LIMITS ARE COINCIDENT



SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
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- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
4	2345.75	BRASS CAP IN CONCRETE SLAB N20E, 225' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 4 T6N R4E

NE 1/4 SEC 4 T6N R4E
NW 1/4 SEC 3 T6N R4E

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 20661 — STEVEN R. WALKER — Expires 3/31/92 — ARIZONA, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH
DR	27815C3 R. FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	DES BY	SRW APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW		

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

CAVE CREEK (STA 37.80 - 38.79)
COTTONWOOD CREEK (STA 0.00 - 0.94)

SHEET 3
DWG NO. 27815C3.DWG
DATE MARCH 1990
PROJ NO. RDD27815.HJ

03-23-90 27815C4.DWG

END OF DETAILED STUDY

ZONE X

TONTO NATIONAL FOREST BOUNDARY

34 35
3 2

COTTONWOOD CREEK TRIB. 2

COTTONWOOD CREEK TRIBUTARY 1

COTTONWOOD CREEK

ZONE AE

ZONE X

100 YEAR AND 500 YEAR FLOOD LIMITS AND FLOODWAYS ARE COINCIDENT

100 YEAR AND 500 YEAR FLOOD LIMITS ARE COINCIDENT

N1,055,000

N1,054,000

N1,053,000

N1,052,000

E694,000

E695,000

E696,000

E697,000

E698,000

MATCHLINE TO SHEET 3

MATCHLINE TO SHEET 5A

FP 2544.5 / FW 2544.6 — 0.70 — Q_{100} = 1269 cfs

FP 2518.3 / FW 2518.4 — 0.56

FP 2507.0 / FW 2507.0 — 0.22 — Q_{100} = 141 cfs

FP 2492.4 / FW 2492.4 — 0.15

FP 2478.4 / FW 2478.4 — 0.10

FP 2496.1 / FW 2496.2 — 0.44

FP 2453.1 / FW 2453.0 — Q_{100} = 141 cfs — 0.02

FP 2441.9 / FW 2441.9 — Q_{100} = 1410 cfs

FP 2455.4 / FW 2455.9 — Q_{100} = 1269 cfs — 0.24 — 0.32

FP 2471.3 / FW 2471.3

FP 2431.6 / FW 2431.6 — 0.18

FP 2461.4 / FW 2462.2 — 1.40

FP 2455.5 / FW 2455.2 — 1.34

FP 2478.8 / FW 2478.8 — 1.54

FP 2489.3 / FW 2489.3 — 1.63

FP 2416.2 / FW 2416.2 — Q_{100} = 1710 cfs — 0.15

FP 2432.4 / FW 2432.5 — 1.23

FP 2417.8 / FW 2417.6 — Q_{100} = 10,926 cfs — 1.14

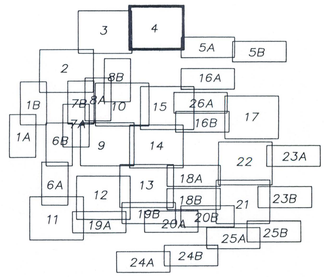
FP 2403.9 / FW 2403.9 — Q_{100} = 10,956 cfs — 1.03

FP 2500.5 / FW 2501.0 — Q_{100} = 10,735 cfs — 1.74

FP 2528.1 / FW 2528.0 — Q_{100} = 9424 cfs — 1.85

FP 2548.2 / FW 2548.4 — 1.97

FP 2577.3 / FW 2577.4 — Q_{100} = 9424 cfs — 2.07



SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
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ELEVATION REFERENCE MARKS

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Registered Professional Engineer — Certificate Expires — Stephen M. Walker — 3/31/91 — Arizona, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR	27815C4 R.FREIER					
CHK	S. WALKER					
APVD		NO.	DATE	REVISION	BY	APVD

Prepared For: **Flood Control District of Maricopa County**

Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study

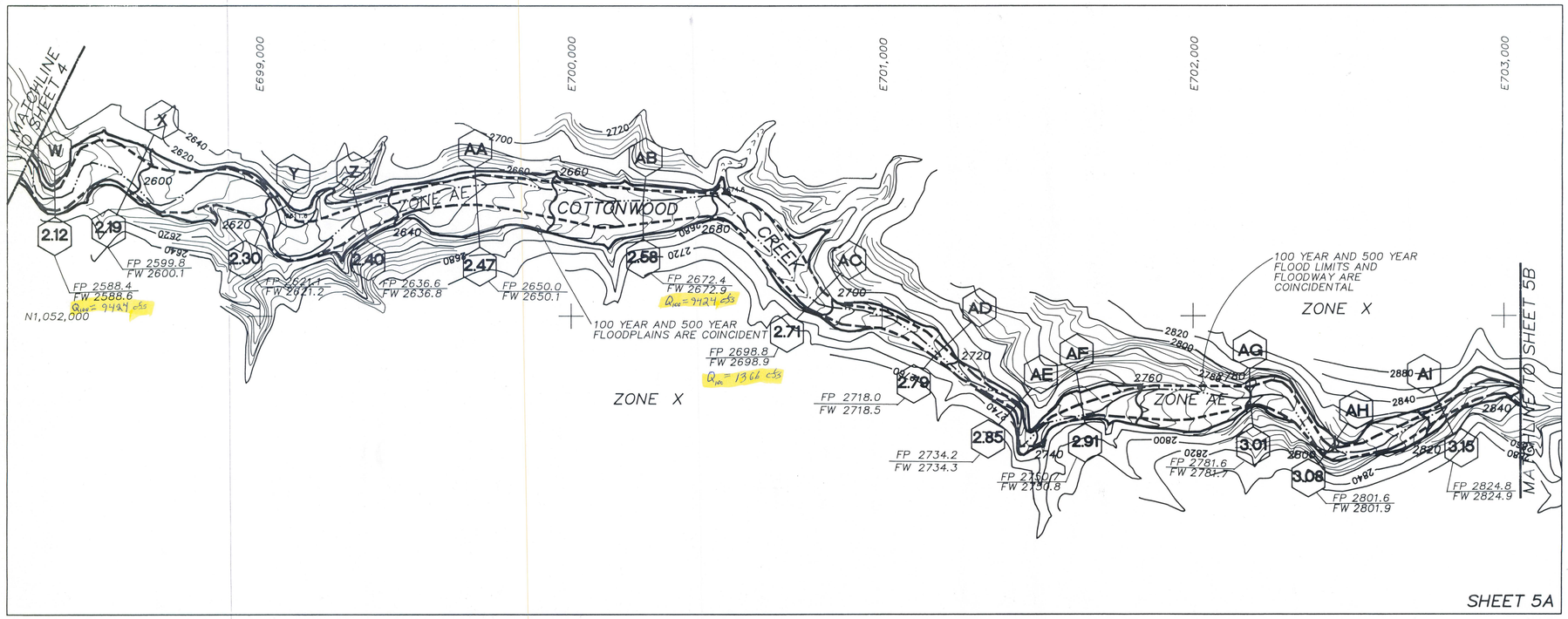
Cave Creek and Tributaries
Cave Creek, Arizona

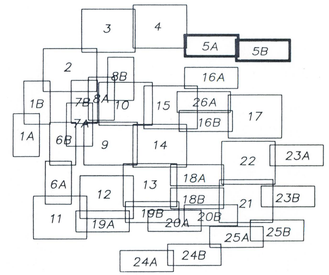
N 1/2 SEC 3, T6N R4E
W 1/2 SEC 2, T6N R4E

COTTONWOOD CREEK (STA 1.03 - 2.07)
COTTONWOOD CREEK TRIBUTARY 1 (STA 0.00 - 0.70)
COTTONWOOD CREEK TRIBUTARY 2 (STA 0.00 - 0.22)

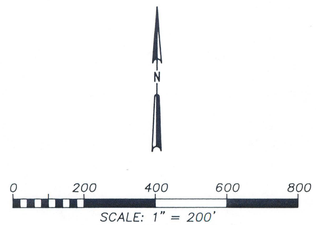
SHEET NO.	4
DWG NO.	27815C4.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.HJ

03-23-90 27815C5.DWG





SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
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- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

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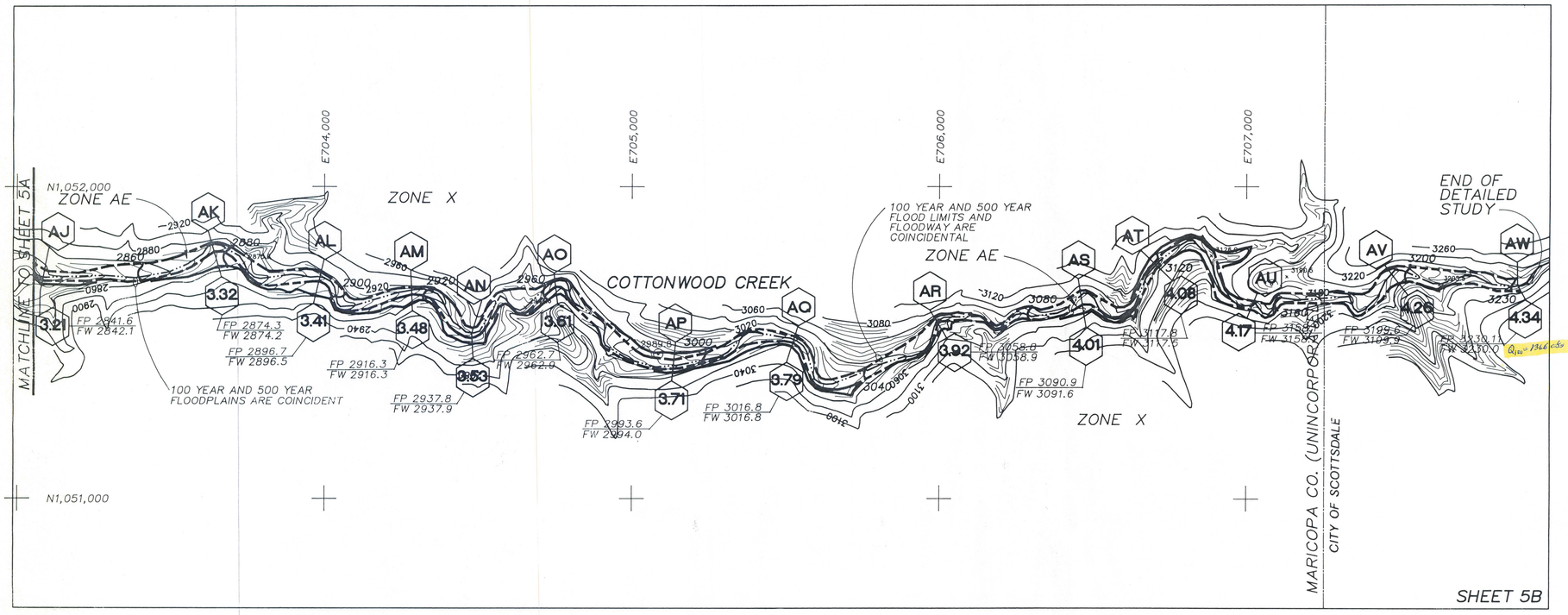


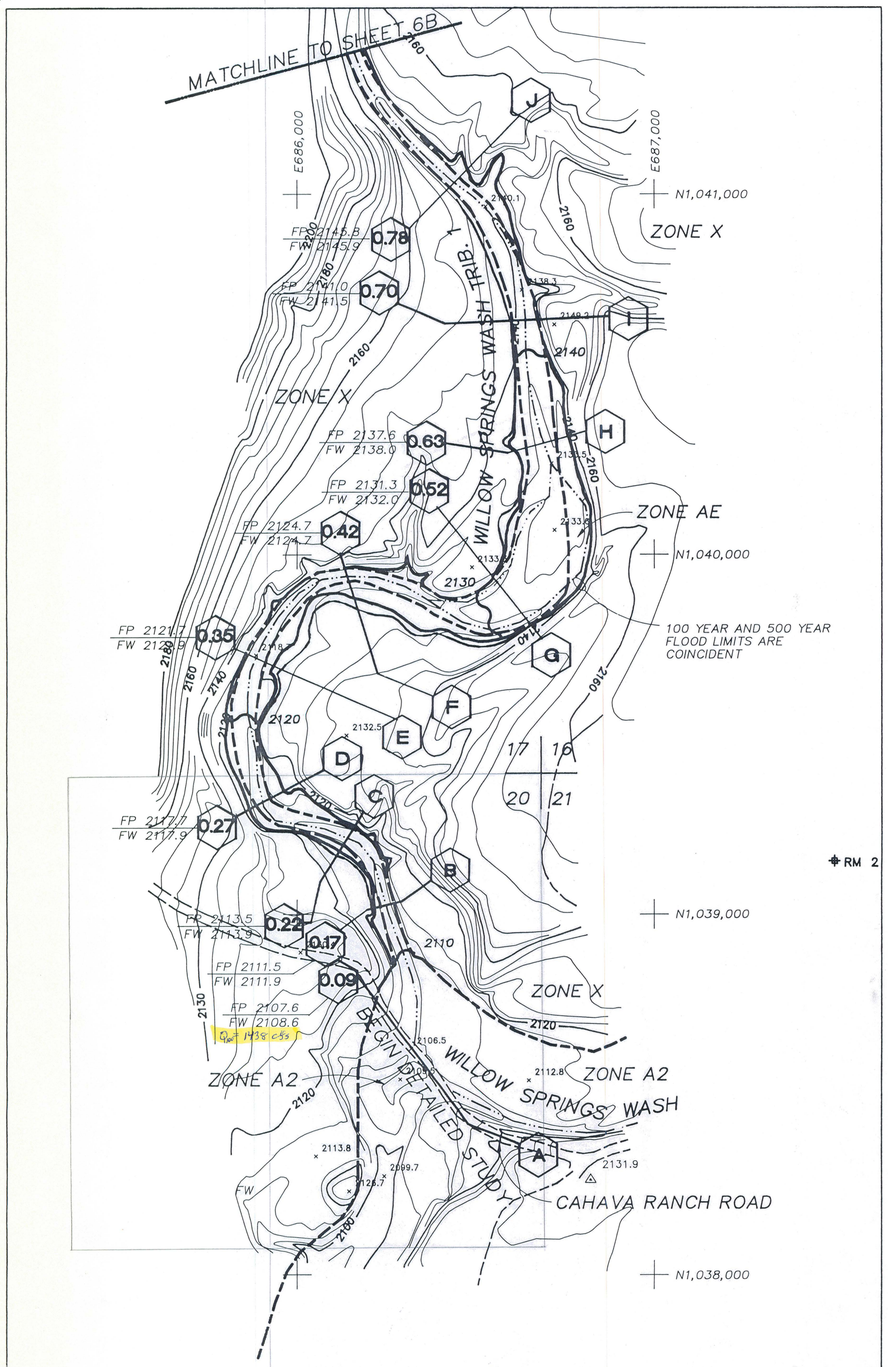
S 1/2 SEC 2, T6N R4E
S 1/2 SEC 1, T6N R4E

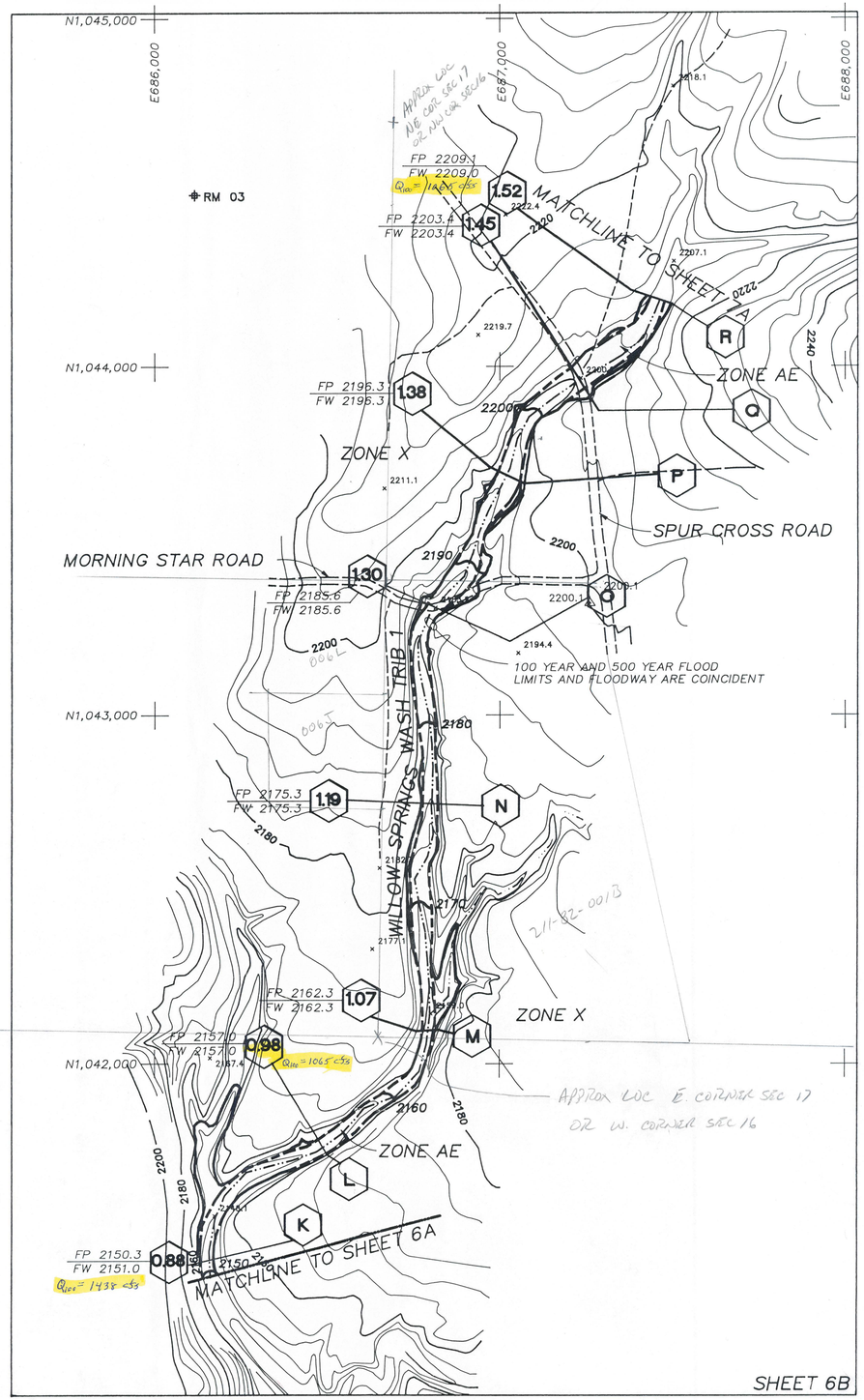
DSGN T. HUNZIKER, D. STOUGH						Prepared For: **Flood Control District of Maricopa County**	Topographic Mapping and Flood Insurance Study	COTTONWOOD CREEK (STA 2.12-4.34)	SHEET 5
DR 27815C5 R.FREIER						Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.	Cave Creek and Tributaries Cave Creek, Arizona		DWG NO. 27815C5.DWG
CHK S. WALKER									DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.H3

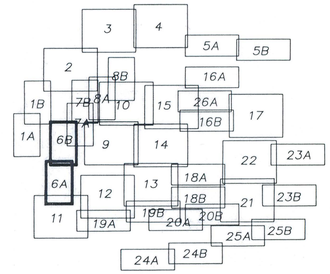
Registered Professional Engineer — Steven R. Walker — 3-27-90 — Arizona — U.S.A.

CH2M HILL

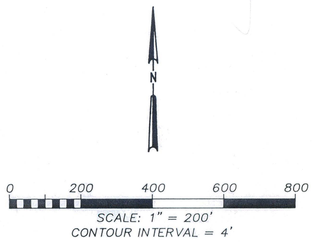
03-23-90 27815C6.DWG







SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
2	2149.19	BRASS CAP IN ROCK WALL N74°W, 852' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 20 T6N R4E
3	2214.93	BRASS CAP IN HEADWALL S13E, 507' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 17 T6N R4E

NE 1/4 SEC 9 T6N R4E
SE 1/4 SEC 17 T6N R4E
W 1/2 SEC 16 T6N R4E

REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 27656 STEPHEN R. WALKER ARIZONA, U.S.A. 3/1/90

CH2M HILL

DSGN T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	Prepared For: Flood Control District of Maricopa County	Topographic Mapping and Flood Insurance Study	WILLOW SPRINGS WASH TRIBUTARY 1 (SEC. 0.00 - 1.52)	SHEET 6
DR 27815C6 R.FREIER						Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.	Cave Creek and Tributaries Cave Creek, Arizona		DWG NO. 27815C6.DWG
CHK S. WALKER									DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.H3

03-23-90 27815C7.DWG

MATCHLINE TO SHEET 7B

ZONE X

2.04 FP 2271.61 FW 2271.96 Q_{100} = 629 cfs

Z

Y

1.98 FP 2259.41 FW 2260.06

100 YEAR AND 500 YEAR FLOOD LIMITS ARE COINCIDENT

ZONE AE

X

1.88 FP 2252.55 FW 2252.97

W

V

1.82 FP 2243.91 FW 2244.26

U

1.78 FP 2234.47 FW 2234.79

ZONE X

WILLOW SPRINGS WASH TRIB.

T

1.73 FP 2229.61 FW 2230.11

S

1.65 FP 2222.20 FW 2222.30

A

B

C

TRIB 1A

0.26 FP 2236.45 FW 2239.62

WILLOW SPRINGS WASH

1.58 Q_{100} = 629 cfs

0.20 FP 2231.74 FW 2231.88

1.52

0.15 FP 2224.60 FW 2224.97

ZONE AE

0.08 FP 2215.62 FW 2216.12 Q_{100} = 341 cfs

100-YEAR AND 500-YEAR FLOOD LIMITS ARE COINCIDENT

R FP 2209.13 FW 2209.01

MATCHLINE TO SHEET 6B

E689,000

N1,046,000

ZONE AE

FP 2273.24 FW 2273.81 Q_{100} = 341 cfs

Q

FP 2264.05 FW 2264.71

F

0.39 0.44

E

0.33 FP 2250.91 FW 2251.32

N1,045,000

D

MATCHLINE TO SHEET 8A

N1,044,000

N1,043,000

SHEET 7A

MATCHLINE TO SHEET 7A

ZONE X

AE FP 2317.69 FW 2317.98

AD

2.37 2.43 FP 2324.3 FW 2324.7

AF

AG

AH

MATCHLINE TO SHEET 8A

FP 2345.95 FW 2346.42 2.57

FP 2335.27 FW 2335.95 2.48

2.33

ZONE X

FP 2331.95 FW 2332.14

ZONE X

AC

WILLOW SPRINGS WASH TRIB 1

2.24 FP 2297.76 FW 2297.95

100 YEAR AND 500 YEAR FLOOD LIMITS ARE COINCIDENT, TYPICAL

ZONE AE

AB

2.16 FP 2287.43 FW 2288.00

AA

2.10 FP 2280.54 FW 2281.05 Q_{100} = 629 cfs

MATCHLINE TO SHEET 7A

E688,000

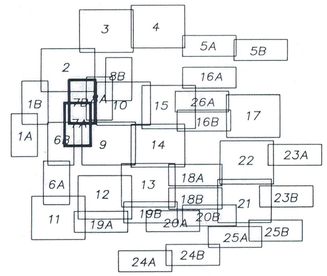
N1,048,000

N1,047,000

N1,046,000

N1,045,000

SHEET 7B



SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

NW 1/4 SEC 16 T6N R4E
SEC 9 T6N R4E

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C7 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

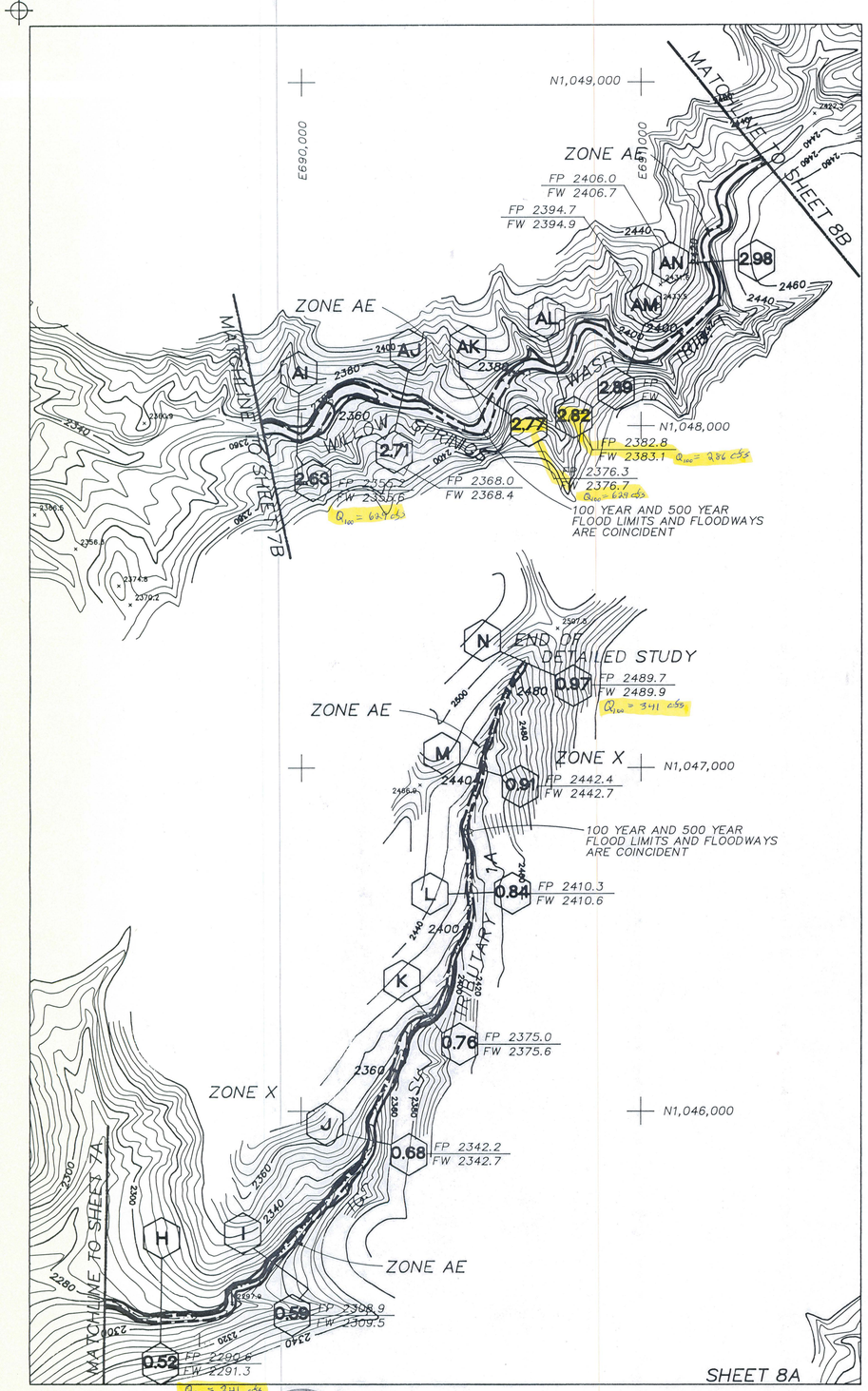
Topographic Mapping and Flood Insurance Study

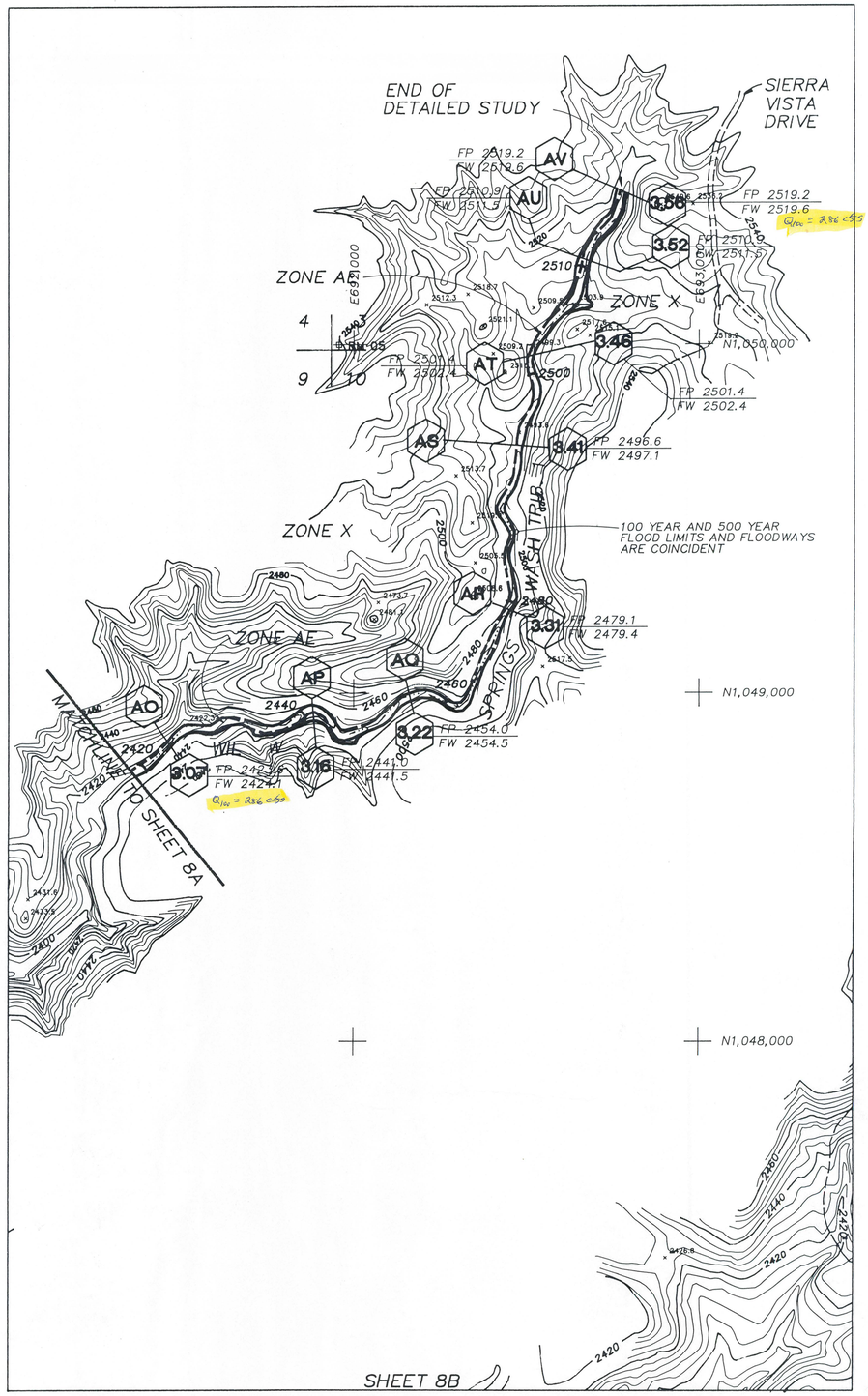
Cave Creek and Tributaries
Cave Creek, Arizona

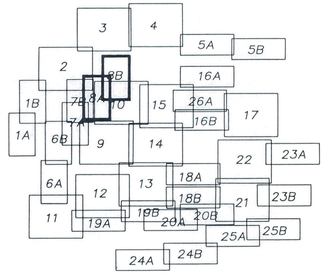
WILLOW SPRINGS WASH - TRIBUTARY 1 (SEC. 1.52 - 2.57)
WILLOW SPRINGS WASH - TRIBUTARY 1A (SEC. 0.00 - 0.44)

SHEET	7
DWG NO.	27815C7.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

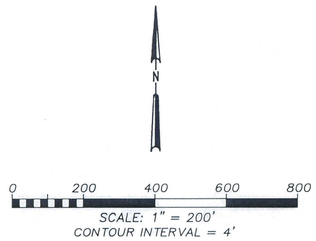
03-26-90 27815C8.DWG







SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

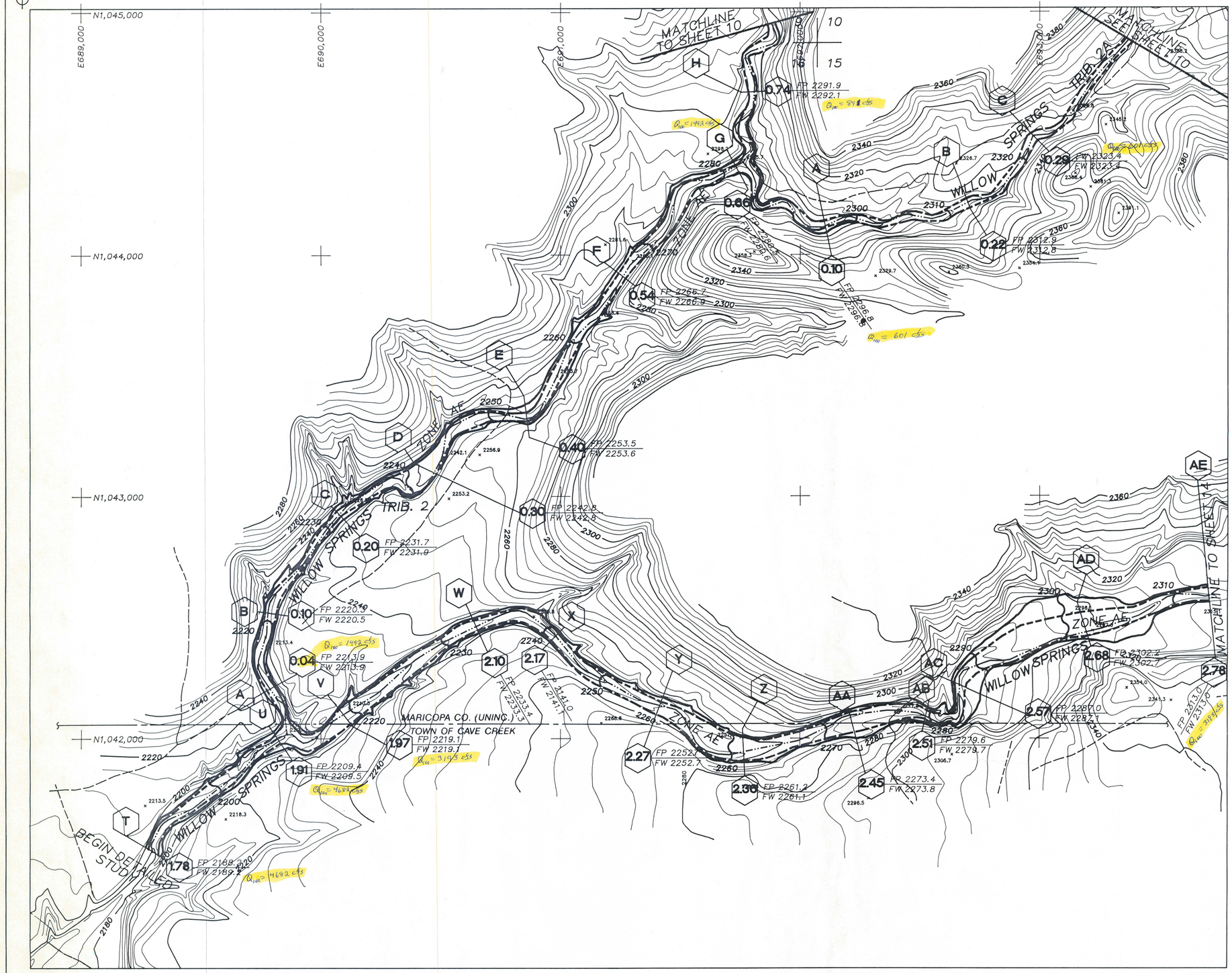
ERM NO.	ELEVATION	DESCRIPTION
5	2547.25	BRASS CAP IN STONE S55W, 27' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 9 T6N R4E

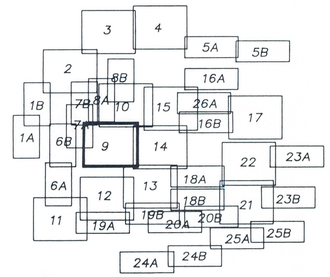
NE 1/4 SEC 9 T6N R4E
NW 1/4 SEC 10 T6N R4E
SW 1/4 SEC 3 T6N R4E

CH2M HILL

DSGN T. HUNZIKER / D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	Prepared For: Flood Control District of Maricopa County Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.		Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	WILLOW SPRINGS WASH TRIBUTARY 1 (SEC. 2.63 - 3.56) WILLOW SPRINGS WASH TRIBUTARY 1A (SEC. 0.52 - 0.97)	SHEET 8
DR 27815C8 R.FREIER										DWG NO. 27815C8.DWG
CHK S. WALKER										DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD					PROJ NO. RDD27815.H3

03-26-90 27815C9.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

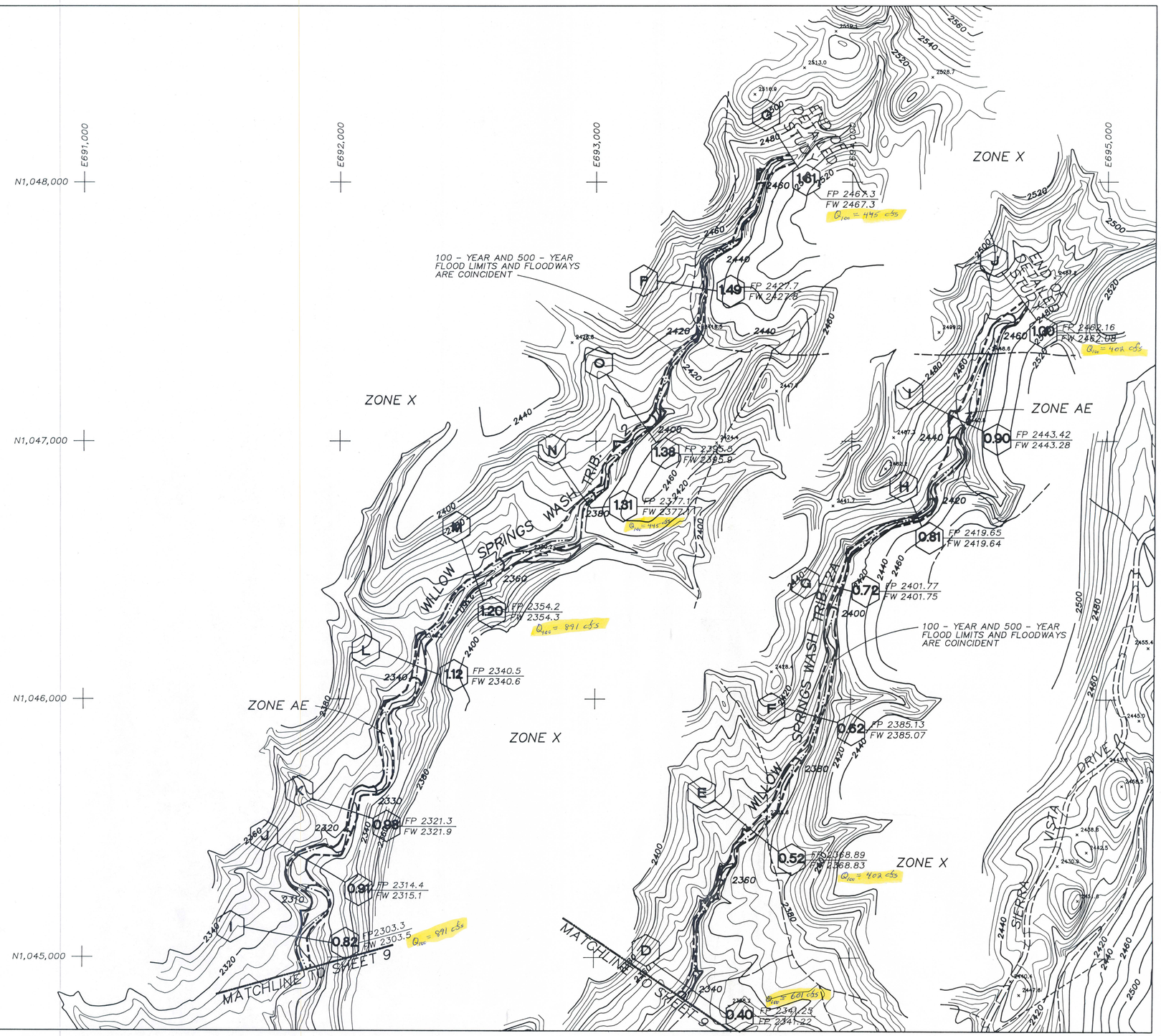
LEGEND

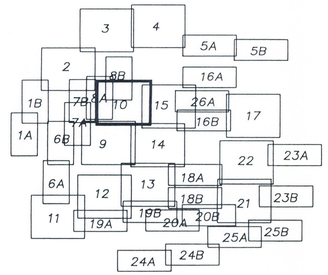
- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

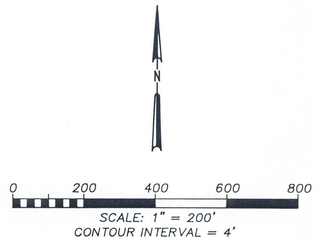
ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

DSGN T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	Prepared For: **Flood Control District of Maricopa County** Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.	Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	WILLOW SPRINGS WASH (STA 1.78 - 2.78) WILLOW SPRINGS WASH 2 (STA 0.00 - 0.75) WILLOW SPRINGS WASH 2A (STA 0.00 - 0.40)	SHEET 9
DR 27815C9 R.FREIER									DWG NO. 27815C9.DWG
CHK S. WALKER									DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.HJ





SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

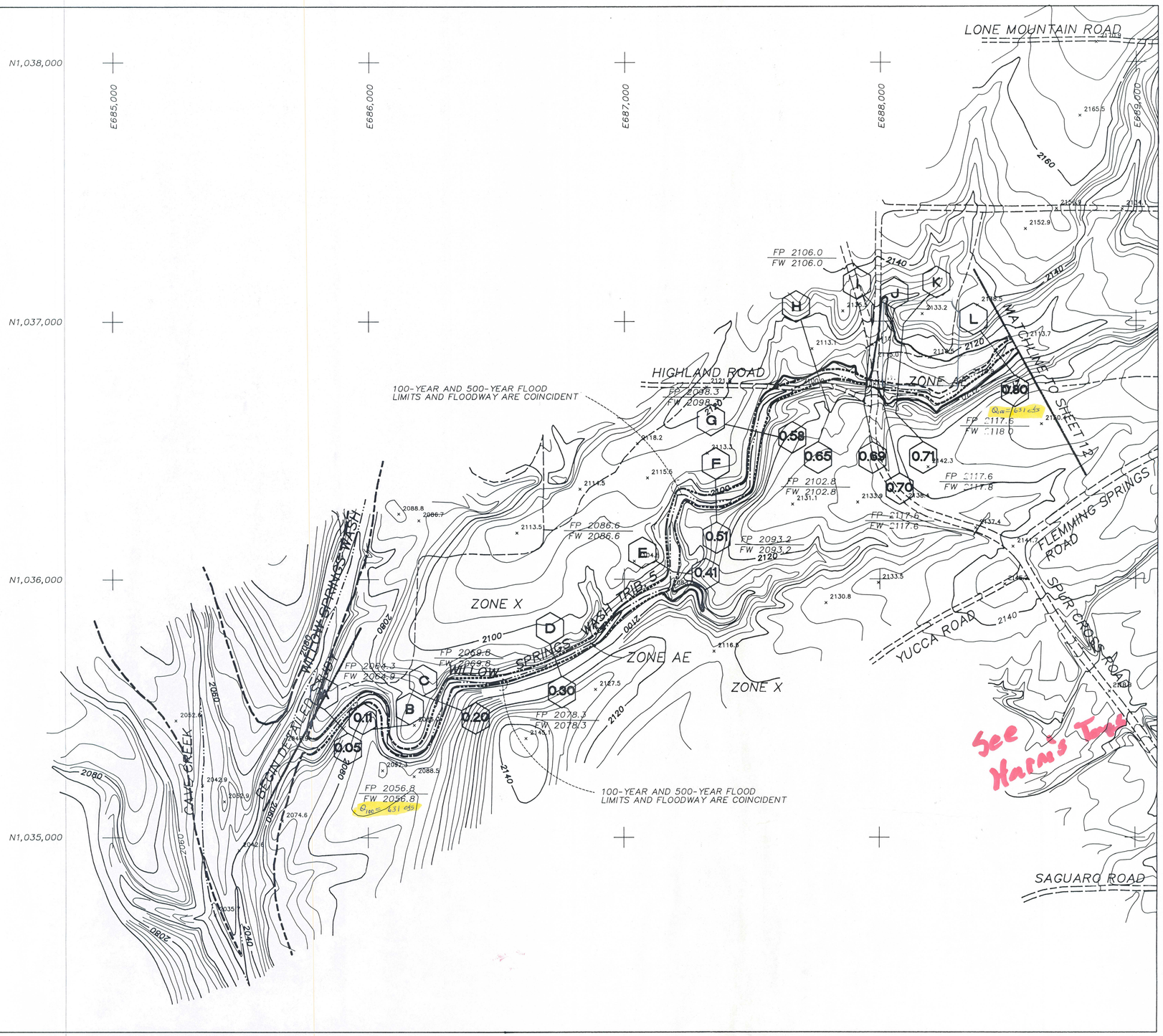
ELEVATION REFERENCE MARKS

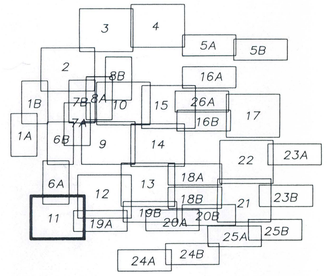
ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 9 T6N R4E
SEC 10 T6N R4E

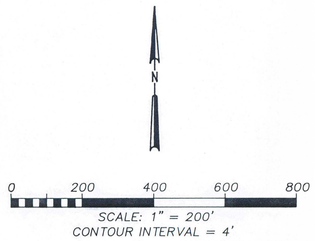
DSGN T. HUNZIKER D. STOUGH					Prepared For: **Flood Control District of Maricopa County** Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.		Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	WILLOW SPRINGS WASH TRIBUTARY 2 (STA 0.82 - 1.61) WILLOW SPRINGS WASH TRIBUTARY 2A (STA 0.40 - 1.00)	SHEET 10
DR 27815C10 R.FREIER									DWG NO. 27815C10.DWG
CHK S. WALKER									DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.H3

03-24-90 27815C11.DWG





SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMITS

- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 20 T6N R4E
W 1/2 SEC 21 T6N R4E

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
2	7/91	CHANGES AS PER F.E.M.A 5/8/91 REVIEW	DES	SRW

DSGN T. HUNZIKER, D. STOUGH
DR 27815C11, R.FREIER
CHK S. WALKER
APVD

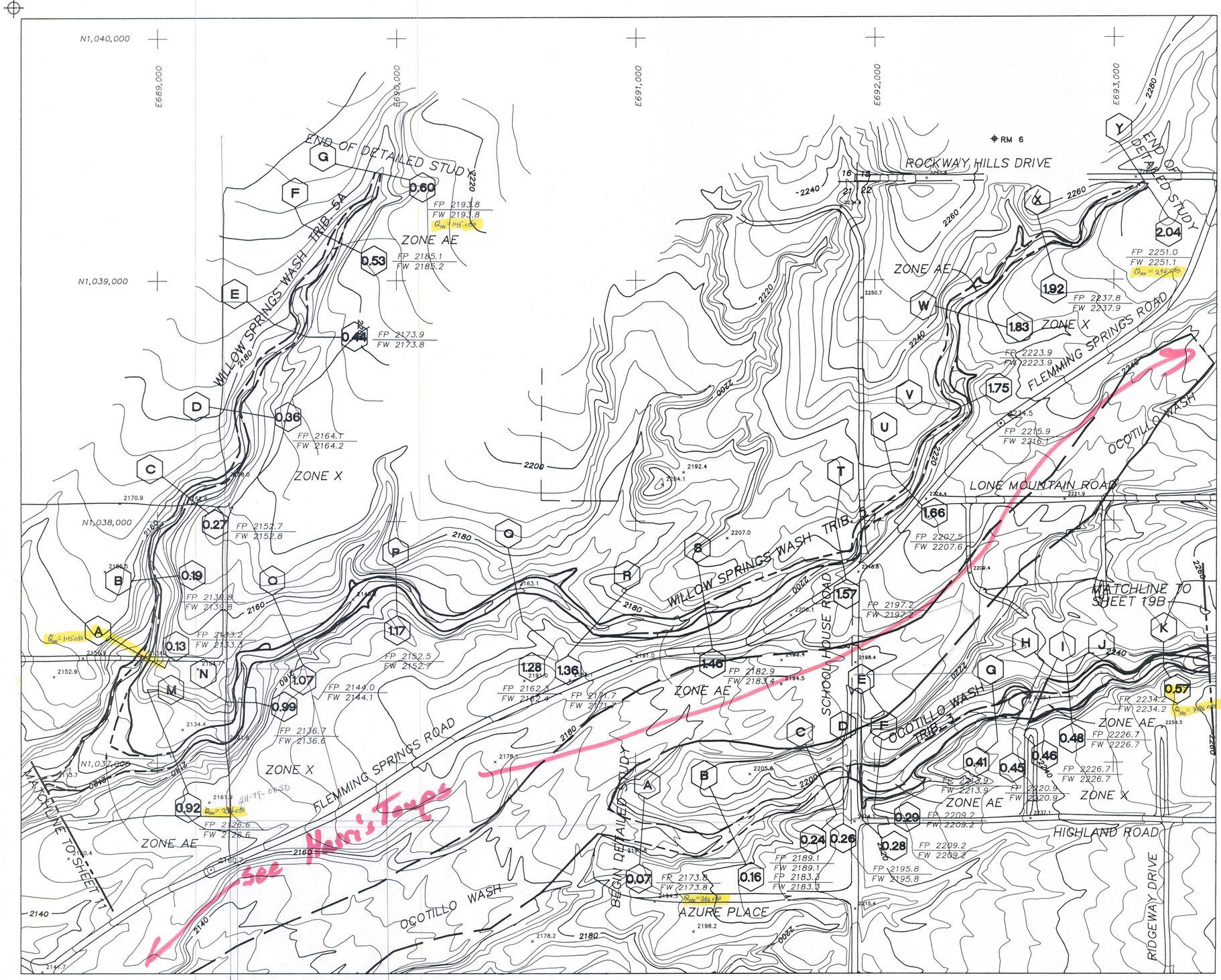
Prepared For: **Flood Control District of Maricopa County**
Prepared By: CH2M HILL, Inc., Aerial Mapping, inc., Greiner, Inc.

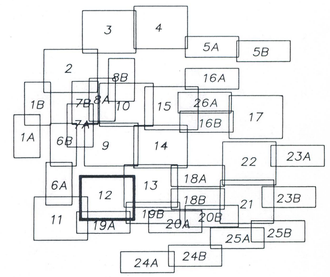
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH TRIB. 5 (STA 0.05 - 0.80)

SHEET 11
DWG NO. 27815C11.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-26-90 27815C12.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
6	2250.00	BRASS CAP IN HEADWALL, S7.3W, 616' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 21 T6N R4E

Harris Topos study in drawer #1

NE 1/4 SEC 21 T6N R4E
NW 1/4 SEC 22 T6N R4E

CERTIFICATE NO. 20961 STEVEN R. WALKER ARIZONA U.S.A. 3/1/90

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C12 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
2	7/91	CHANGES AS PER F.E.M.A. 5/8/91 REVIEW	DES	SRW

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

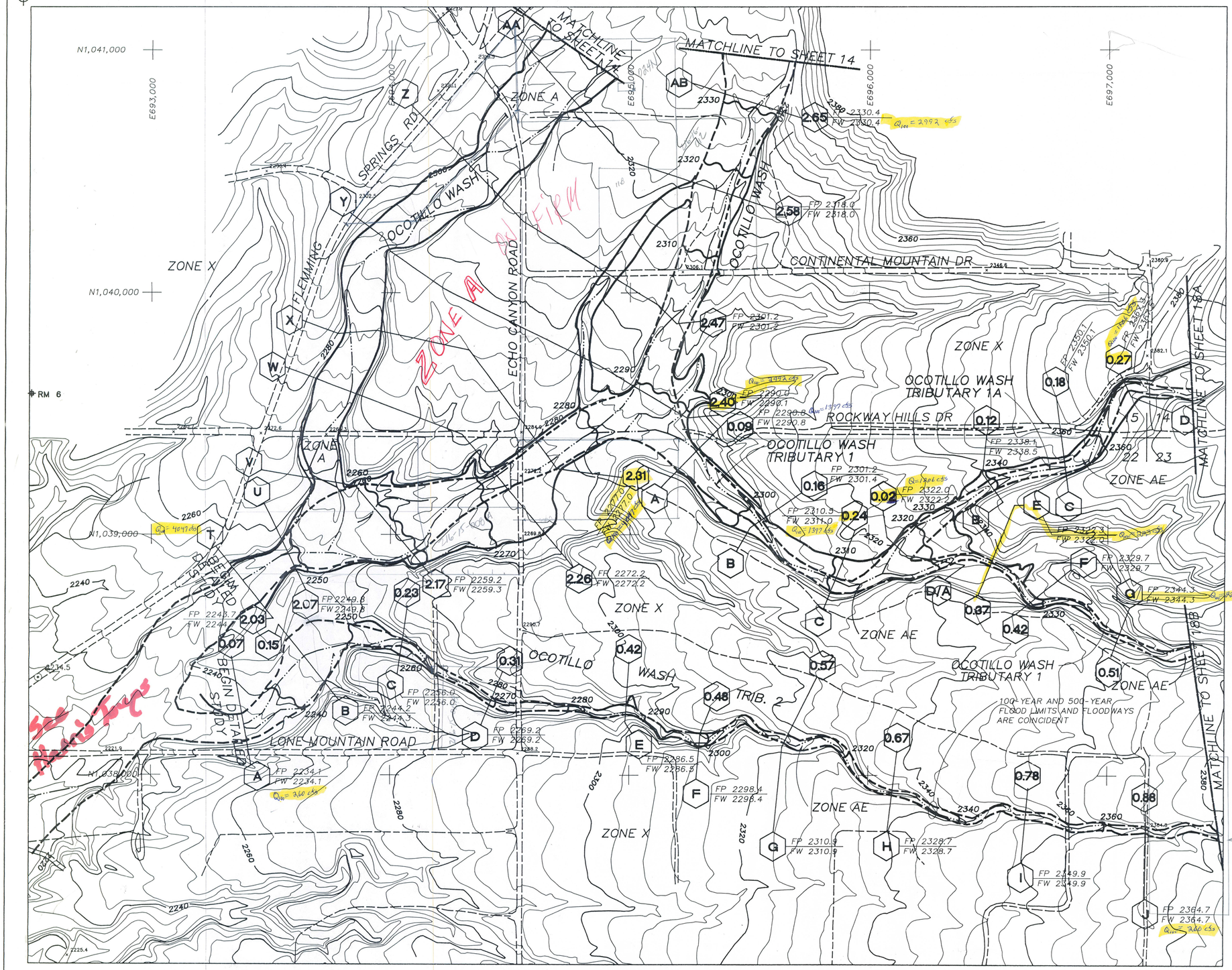
Topographic Mapping and Flood Insurance Study

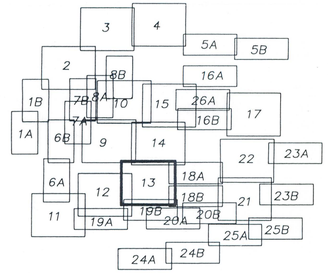
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH TRIB. 5 (STA 0.83-2.04)
WILLOW SPRINGS WASH TRIB. 5A (STA 0.00-0.60)
OCOTILLO WASH TRIB. 3 (STA 0.0-0.6)

SHEET 12
DWG NO. 27815C12.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-26-90 27815C13.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
6	2250.0	BRASS CAP IN HEADWALL, S73°W, 616' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 21 T6N R4E

100-YEAR AND 500-YEAR FLOOD LIMITS AND FLOODWAYS ARE COINCIDENT

216-20-007C

Registered Professional Engineer — Certificate No. 22006 — STEVEN R. WALKER — State of Arizona — 3/30

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C13 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

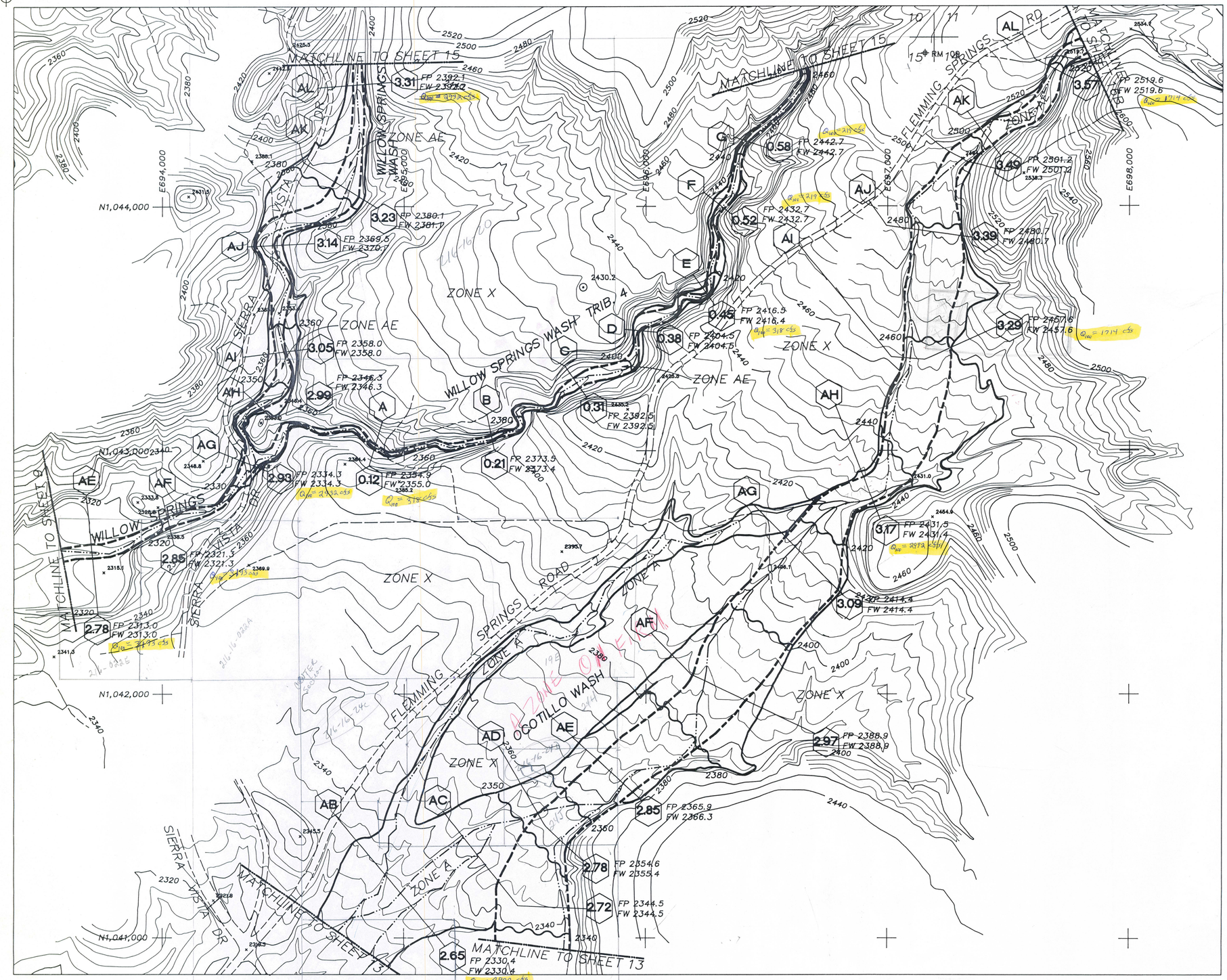
Topographic Mapping and Flood Insurance Study

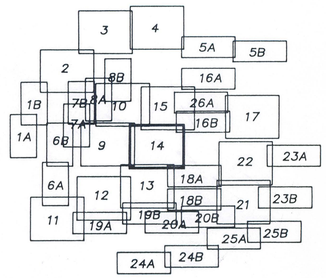
Cave Creek and Tributaries
Cave Creek, Arizona

OCOTILLO WASH (STA 2.03-2.58)
OCOTILLO WASH TRIB. 1 (STA 0.00-0.51)
OCOTILLO WASH TRIB. 1A (STA 0.00-0.27)
OCOTILLO WASH TRIB. 2 (STA 0.00-0.88)

SHEET NO.	13
DWG NO.	27815C13.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

03-26-90 27815C14.DWG





SHEET INDEX

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
9	2516.45	BRASS CAP IN STONE N20°E, 52' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 15 T6N R4E

N 1/2 SEC 15 T6N R4E
NW 1/4 SEC 14 T6N R4E

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
2	7/91	CHANGES AS PER F.E.M.A. 5/8/91 REVIEW	DES	SRW
3	8/91	CHANGES AS PER F.E.M.A. 5/8/91 REVIEW	DES	SRW

DSGN T. HUNZIKER, D. STOUGH
DR 27815C14 R.FREIER
CHK S. WALKER
APVD

CH2M HILL

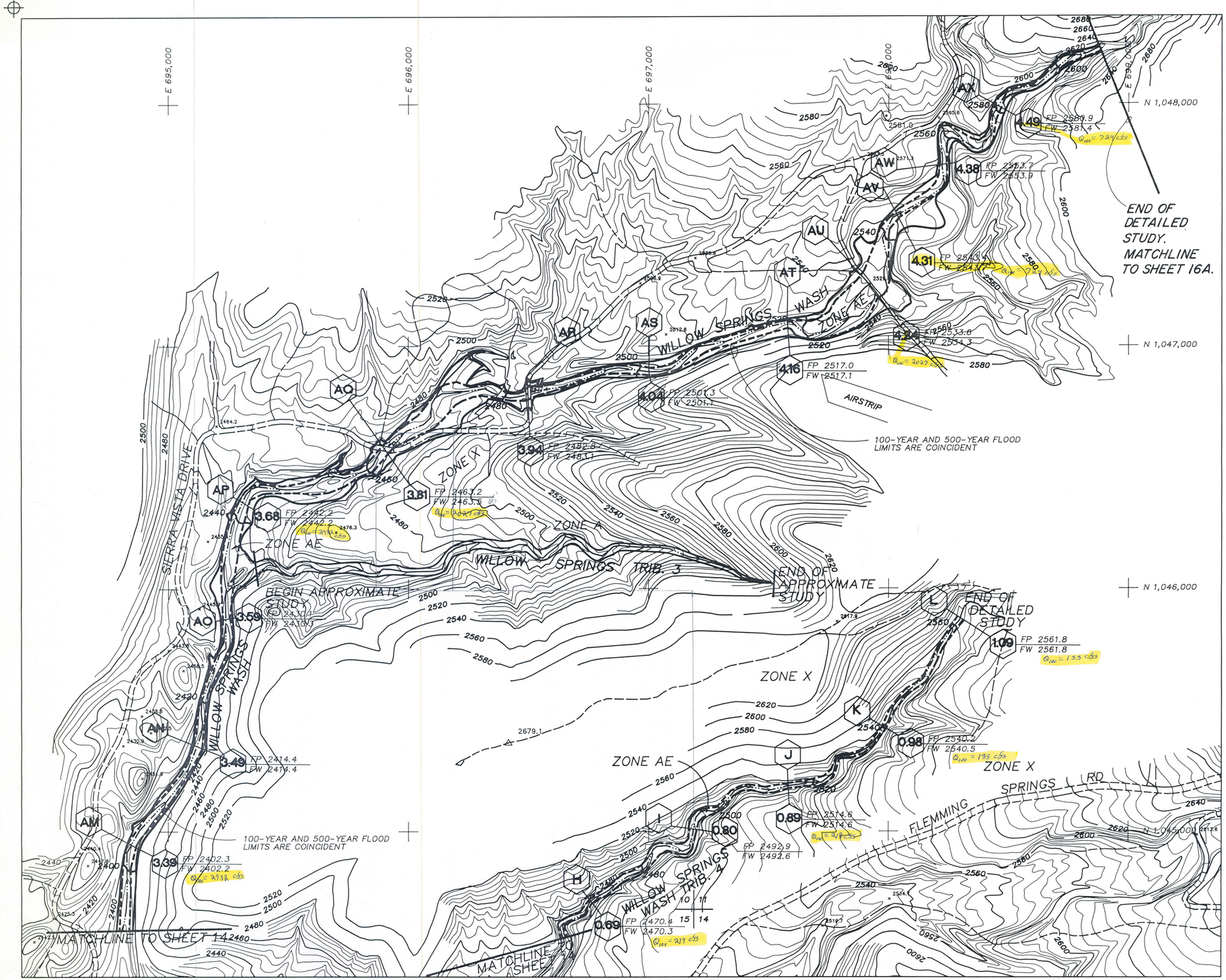
Prepared For: Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.

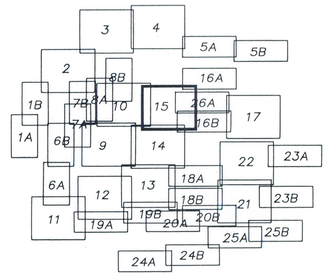
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS (STA 2.78 - 3.31)
WILLOW SPRINGS TRIBUTARY 4 (STA 0.00 - 0.62)
OCOTILLO WASH (STA 2.65 - 3.57)

SHEET 14
DWG NO. 27815C14.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-22-90 27815C15.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 10, T6N R4E
SW 1/4 SEC 11, T6N R4E

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C15 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

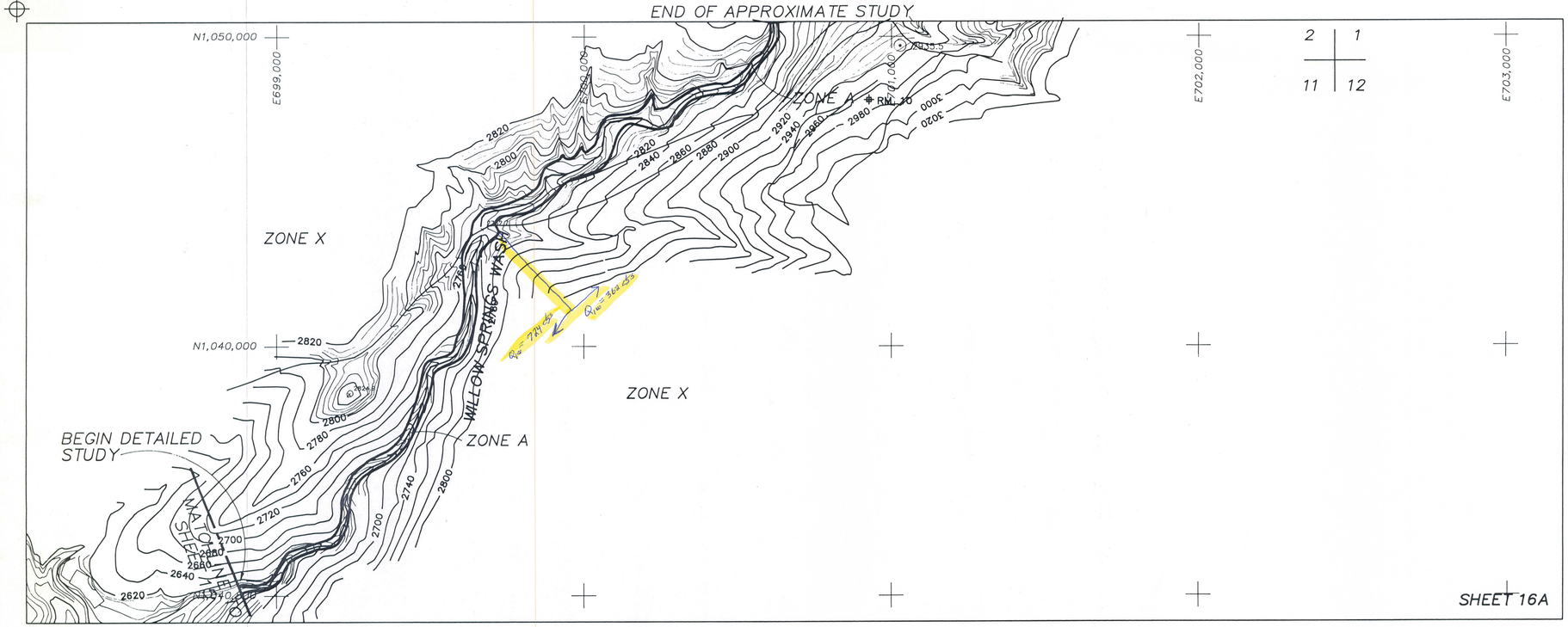
Topographic Mapping and Flood Insurance Study

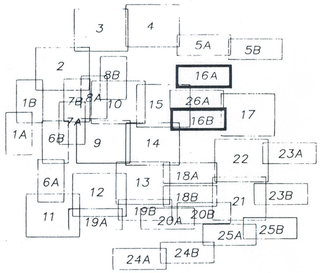
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH (STA 3.32-4.58) WILLOW SPRINGS WASH TRIBUTARY 4 (STA 0.68-1.09)

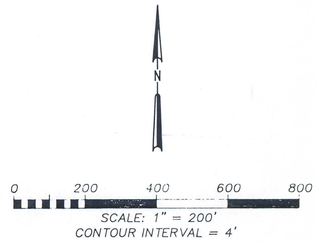
SHEET NO.	15
DWG NO.	27815C15.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

03-26-90 27815C16.DWG

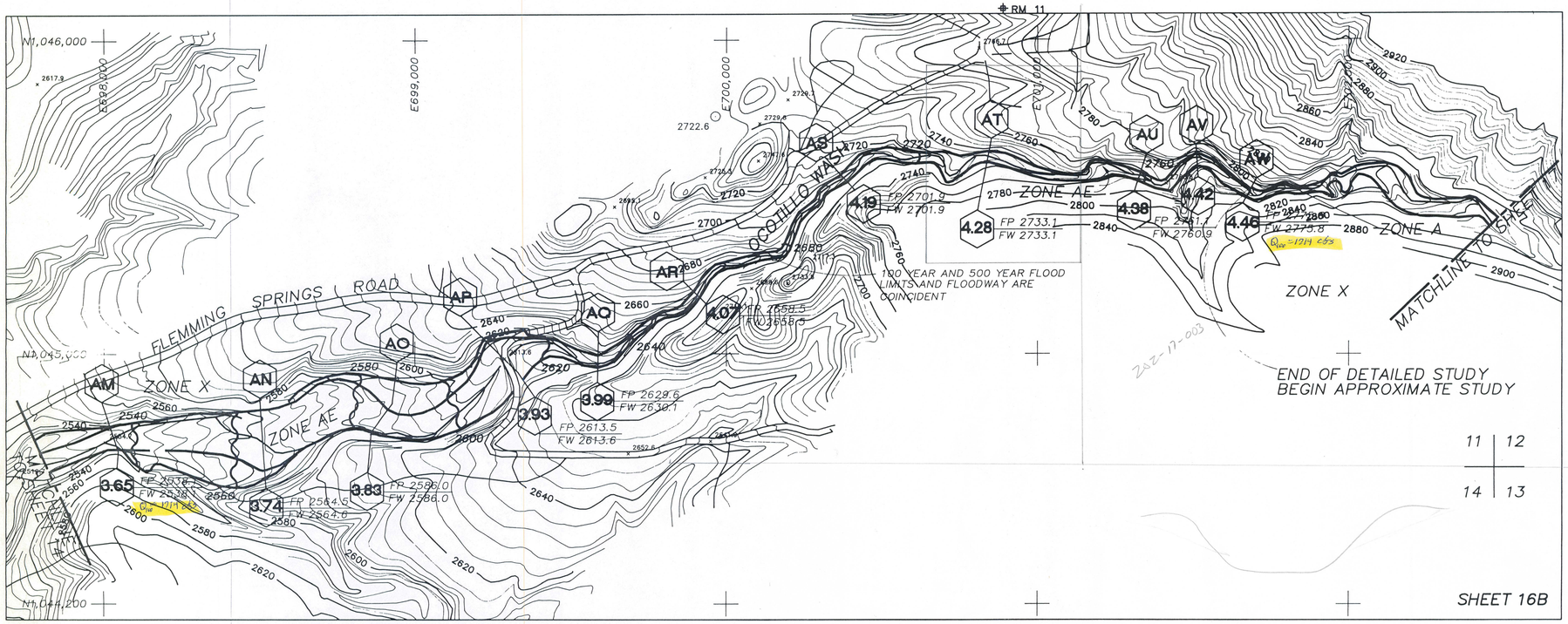




SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
10	2937.19	BRASS CAP IN CONCRETE N86°E, 1500' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 11 T6N R4E
11	2762.78	BRASS CAP IN STONE N22°E, 4100' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 11 T6N R4E

N 1/2 SEC 11 T6N R4E

Professional Engineer Certificate No. 20966 Reed Freier Arizona U.S.A. 3/91

CH2M HILL

DSGN T. HUNZIKER / D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR 27815C14 R.FREIER					
CHK S.WALKER					
APVD	NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

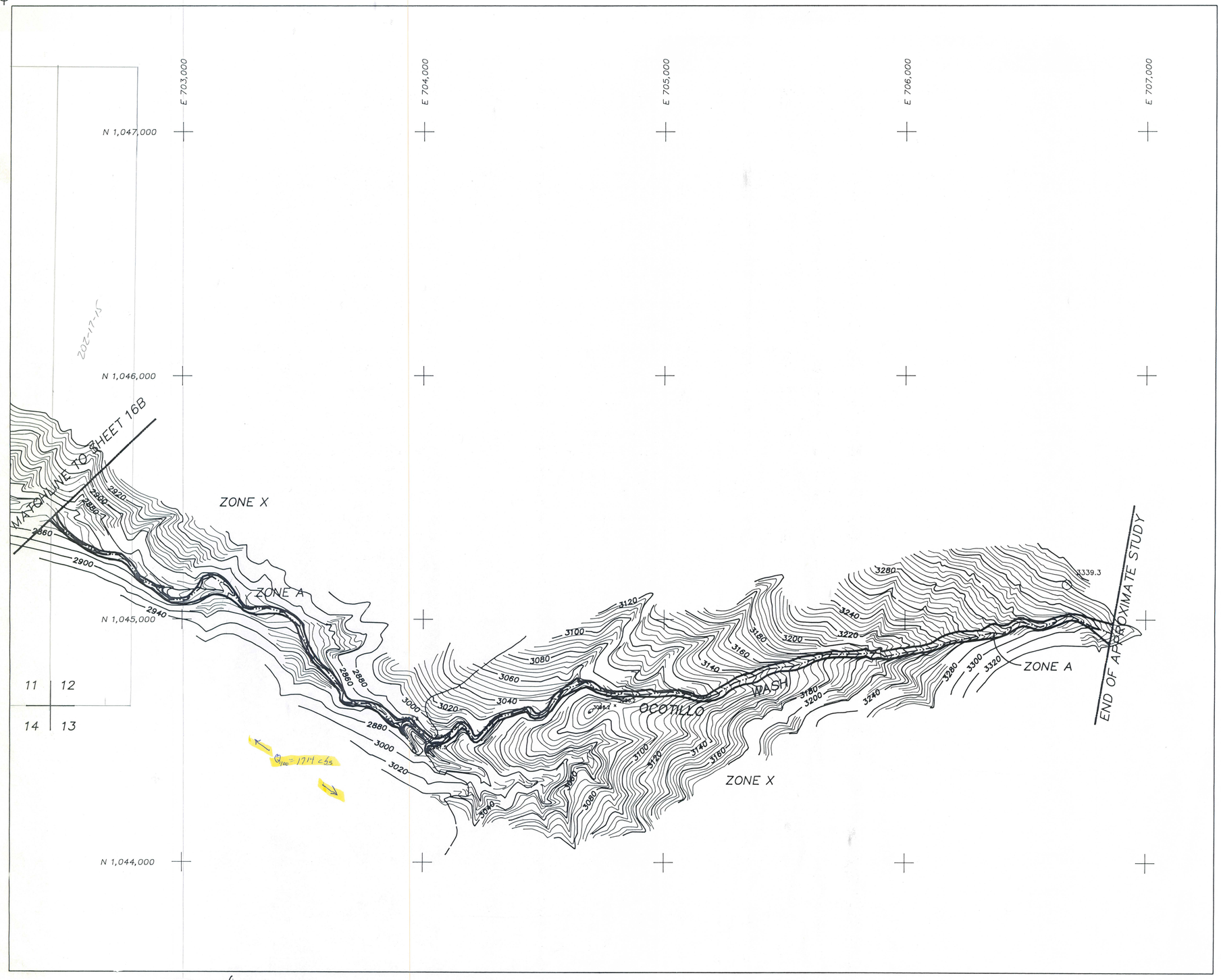
Topographic Mapping and Flood Insurance Study

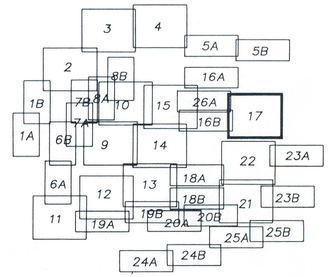
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS (STA 4.60 - 5.10)
OCOTILLO WASH (STA 3.62 - 4.61)

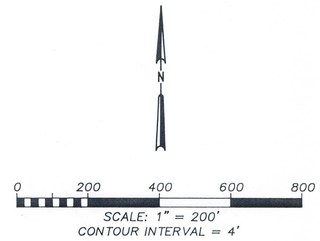
SHEET 16
DWG NO. 27815C16.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-28-90 27815C17.DWG





SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

S 1/2 SEC 12 T6N R4E

DSGN	T. HUNZIKER D. STOUGH		
DR	27815C17 R.FREIER		
CHK	S. WALKER		
APVD			

NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

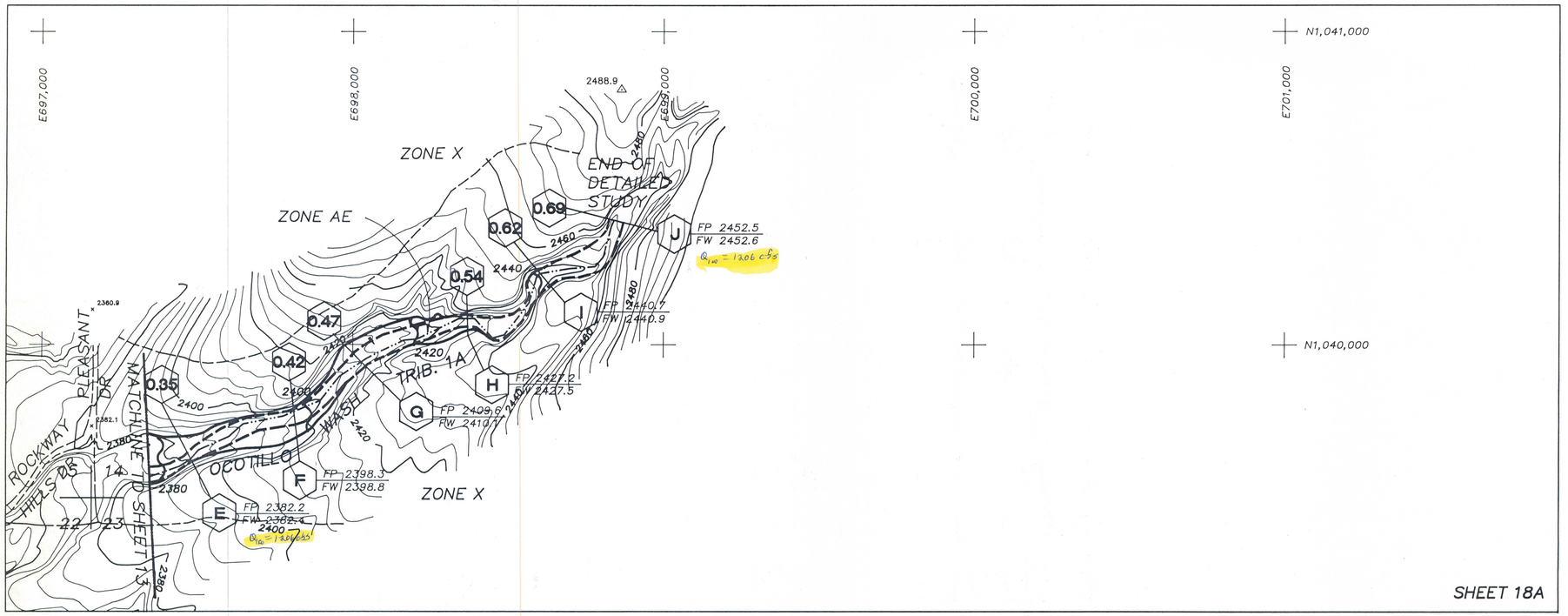
Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

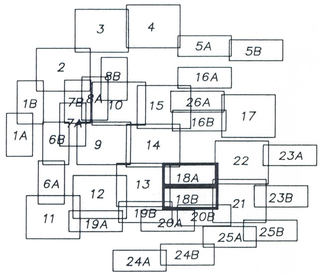
OCOTILLO WASH (STA 4.63 - 5.61)

SHEET	17
DWG NO.	27815C17.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

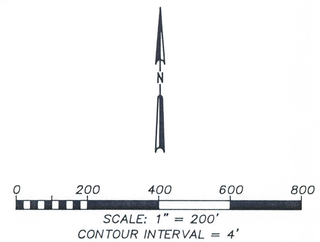
03-27-90 27815C18.DWG



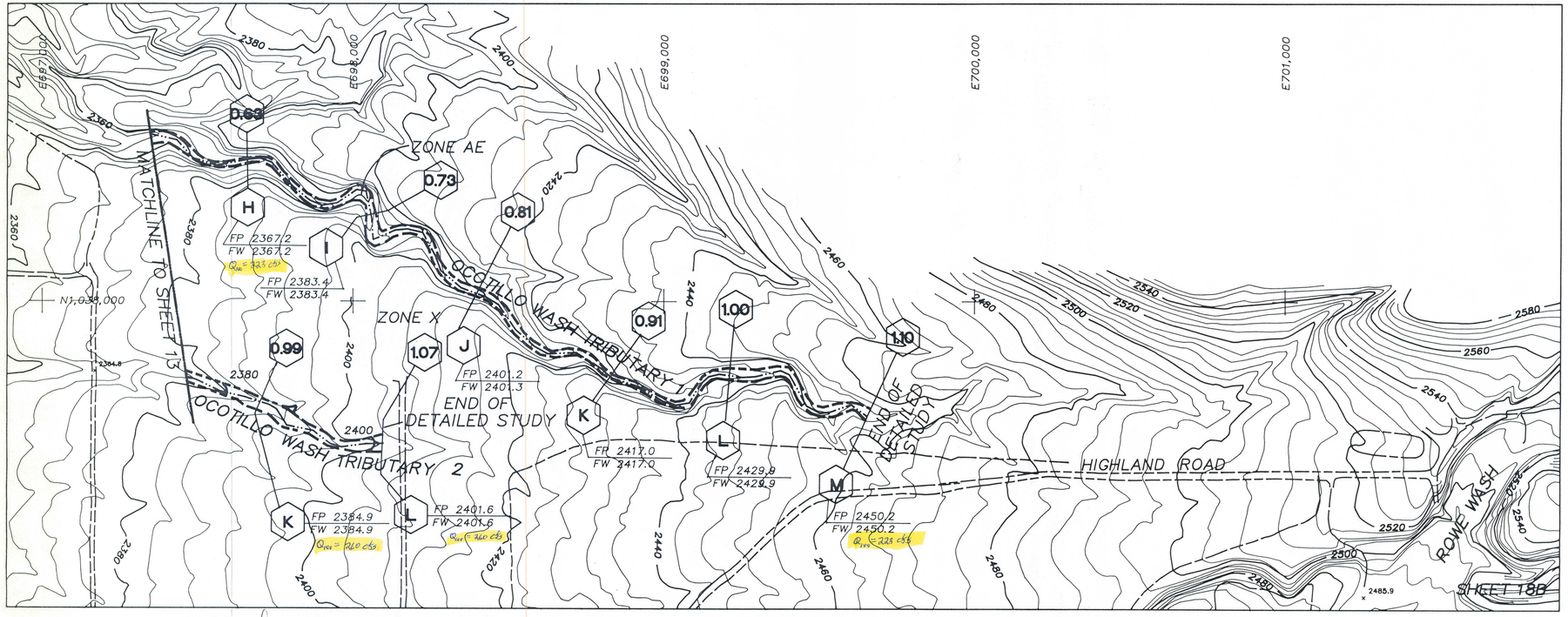
SHEET 18A



SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'



SHEET 18B

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

S 1/2 SEC 14 T6N R4E
N 1/2 SEC 23 T6N R4E

Registered Professional Engineer — CERTIFICATE NO. 20961 — STEVEN R. WALKER — Date Signed 6-29-90 — PHOENIX, ARIZONA U.S.A.

CH2M HILL

DSGN	T. HUNZIKER / D. STOUGH				
DR	27815C18 R.FREIER				
CHK	S. WALKER				
APVD					
NO.	DATE	REVISION	BY	APVD	
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

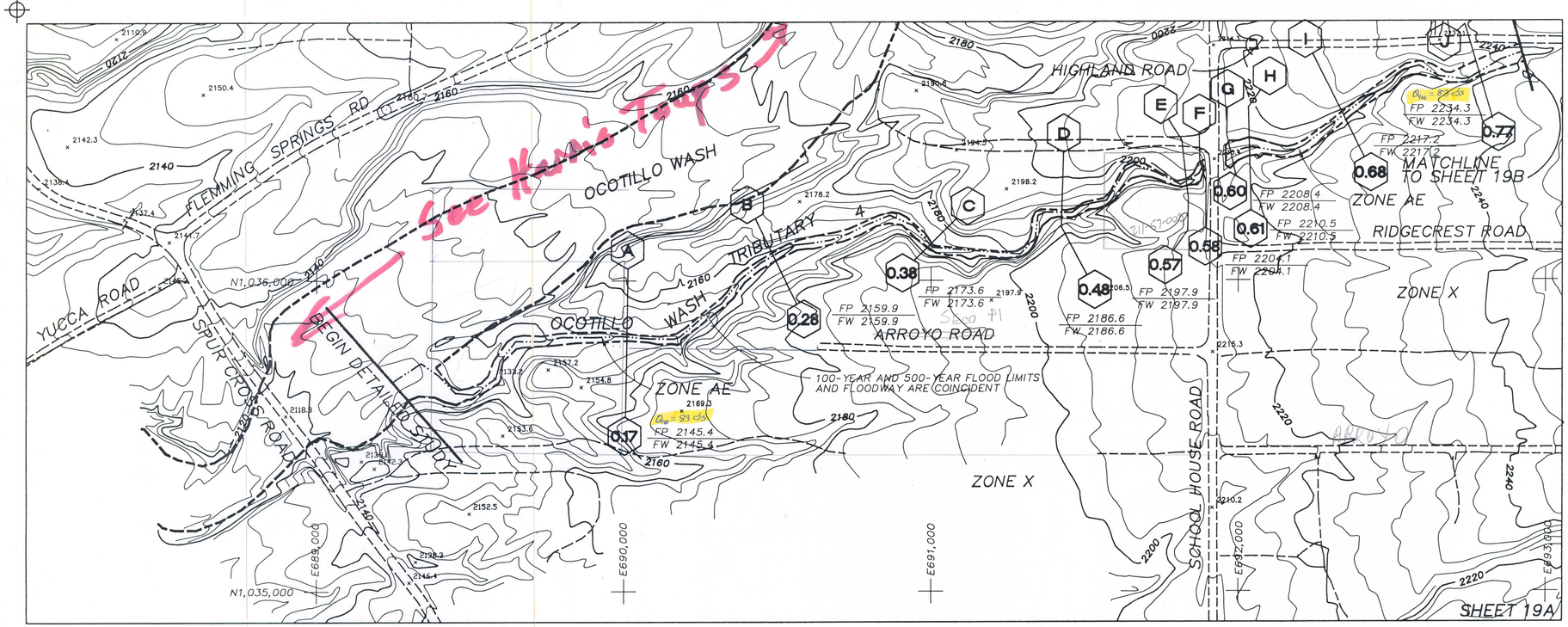
Topographic Mapping and Flood Insurance Study

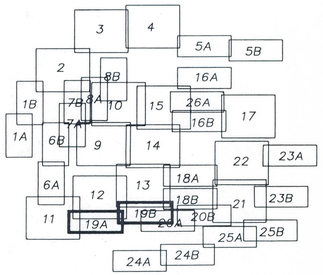
Cave Creek and Tributaries
Cave Creek, Arizona

OCOTILLO TRIBUTARY 1 (STA 0.60-1.10)
OCOTILLO TRIBUTARY 1A (STA 0.95-1.07)
OCOTILLO TRIBUTARY 2 (STA 0.35-0.71)

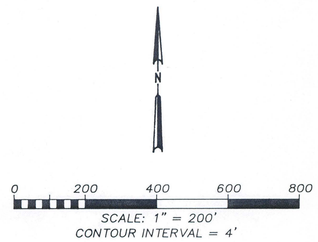
SHEET	18
DWG NO.	27815C18.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H.1

03-22-90 27815C19.DWG





SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 21, T6N R4E
SEC 22, T6N R4E

CH2M HILL

DSGN	T. HUNZIKER
	D. STOUGH
DR	27815C19 R.FREIER
CHK	S.WALKER
APVD	

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

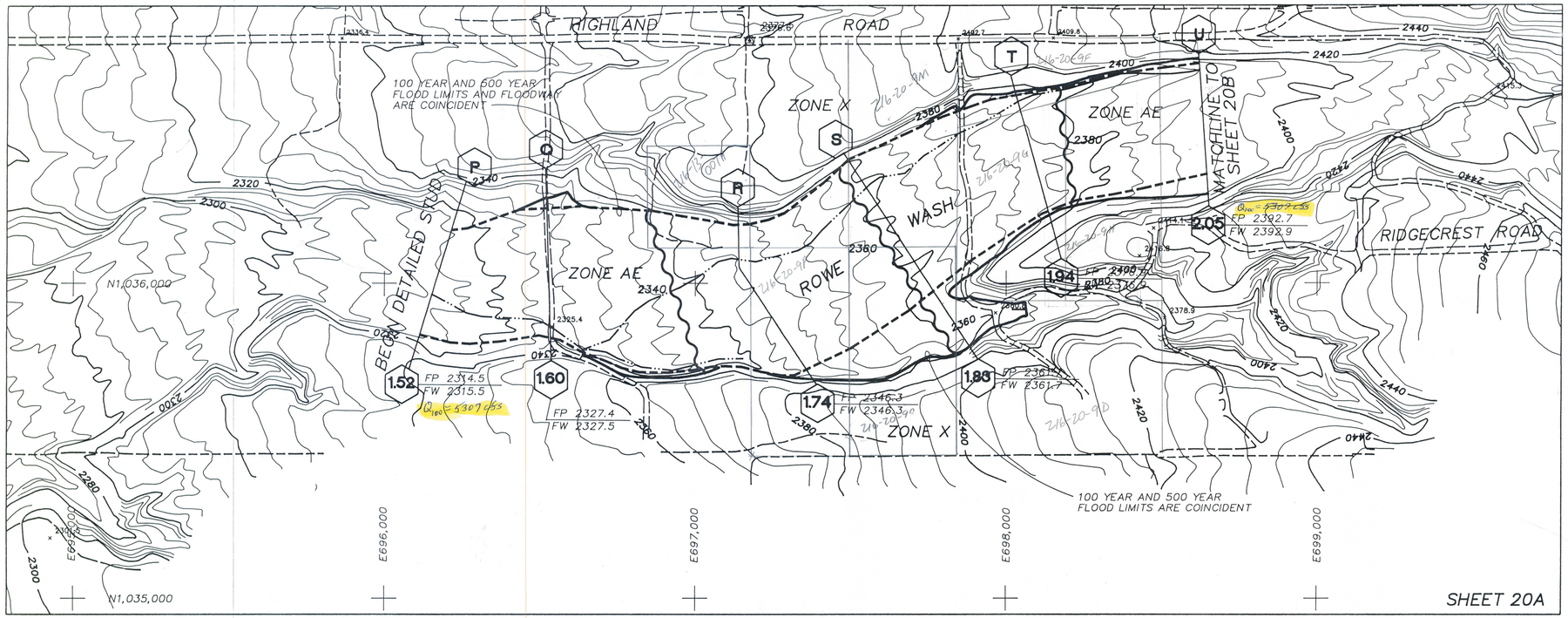
Topographic Mapping and Flood Insurance Study

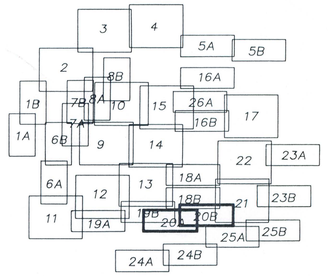
Cave Creek and Tributaries
Cave Creek, Arizona

OCOTILLO WASH TRIBUTARY 3
OCOTILLO WASH TRIBUTARY 4

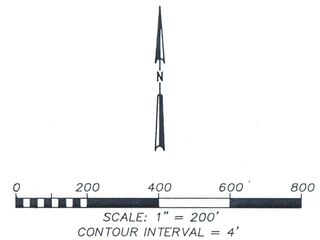
SHEET 19
DWG NO. 27815C19.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-27-90 27815C20.DWG

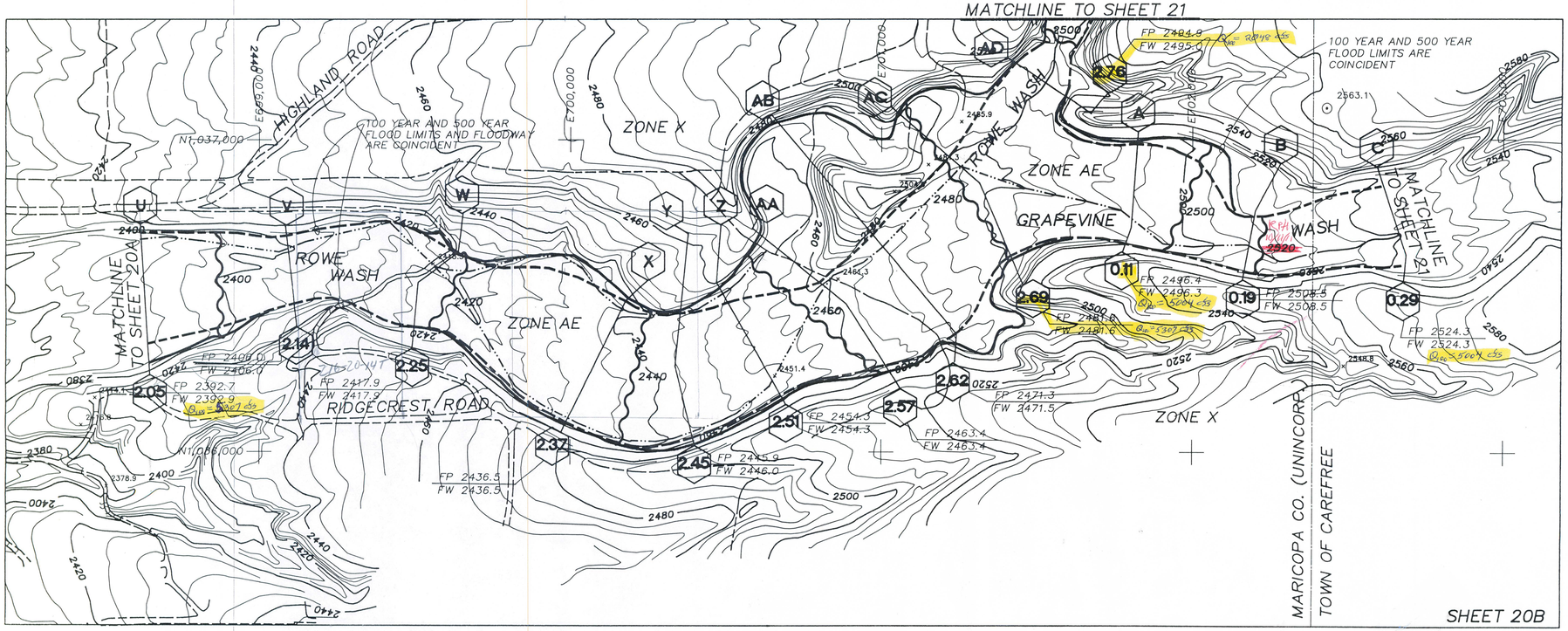




SHEET INDEX



MATCHLINE TO SHEET 21



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET

SE 1/4 SEC 22, T6N R4E
SEC 23, T6N R4E

DSGN T. HUNZIKER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	Prepared For: Flood Control District of Maricopa County Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.	Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	ROWE WASH (STA 1.52 - 2.76) GRAPEVINE WASH (STA 0.00 - 0.29)	SHEET 20
DR D. STOUGH / 27815C20 R.FREIER									DWG NO. 27815C20.DWG
CHK S. WALKER									DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.HJ

CH2M HILL

REGISTERED PROFESSIONAL ENGINEER — STEVEN WALKER — 20001 — CERTIFICATE — ARIZONA U.S. — 3/30

03-21-90 27815C21.DWG

MATCHLINE TO SHEET 22

MATCHLINE TO SHEET 22

MARICOPA CO. (UNINCORPORATED)
TOWN OF CAREFREE

14 13
23 24

E702,000

E704,000

E706,000

N1,039,000

N1,038,000

N1,037,000

N1,036,000

ZONE X

ZONE A

ZONE AE

ROWE WASH TRIBUTARY 1.00

ROWE WASH

GRAPEVINE WASH

END DETAILED STUDY
BEGIN APPROXIMATE STUDY

MATCHLINE TO SHEET 20B

MATCHLINE TO SHEET 20B

MARICOPA CO. (UNINCORPORATED)
TOWN OF CAREFREE

3.59 AO FP 2689.4 FW 2689.6 Q_{100} = 1334 cfs

3.52 AN FP 2665.6 FW 2666.1

3.47 AM FP 2649.0 FW 2648.8

3.41

3.32 AL FP 2628.9 FW 2629.2

3.25 AK FP 2605.0 FW 2605.3

3.16 AJ FP 2592.5 FW 2592.3

3.01 AI FP 2567.8 FW 2567.9

2.99 AH FP 2549.0 FW 2549.0 Q_{100} = 1334 cfs

2.90 AG FP 2535.8 FW 2536.0 Q_{100} = 1098 cfs

2.84 AF FP 2518.1 FW 2518.2

AE FP 2509.1 FW 2509.2 Q_{100} = 2015 cfs

Q_{100} = 714 cfs

2563.1

2548.8

2564.8

0.90 FP 2630.0 FW 2630.1 Q_{100} = 2994 cfs

0.81 FP 2614.3 FW 2614.3

0.78

0.67 FP 2603.8 FW 2603.8

0.57 FP 2590.7 FW 2590.7

0.49 FP 2572.4 FW 2572.5

0.37 FP 2560.2 FW 2560.3

0.29 FP 2540.6 FW 2540.7

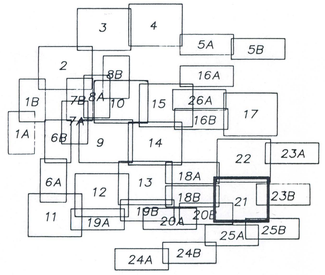
FP 2524.2 FW 2524.3 Q_{100} = 5094 cfs

2557.9

AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO

A B C D E F G H I J

SHEET INDEX



N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

N 1/2 SEC 24, T6N R4E
E 1/2 SEC 23, T6N R4E

CHM HILL

DSGN T. HUNZIKER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
D. STOUGH					
DR 27815C21 R.FREIER					
CHK S. WALKER					
APVD	NO.	DATE	REVISION	BY	APVD

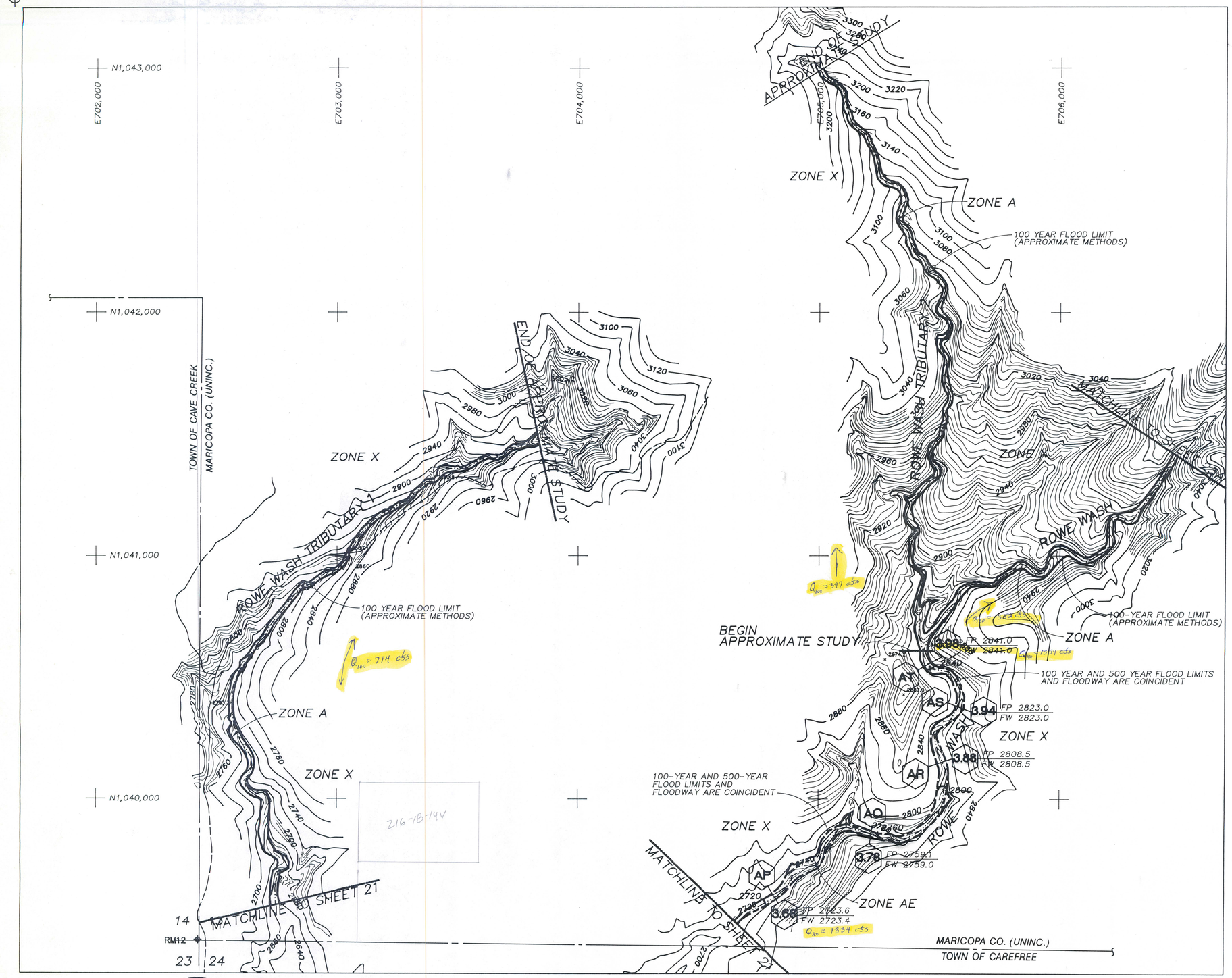
Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

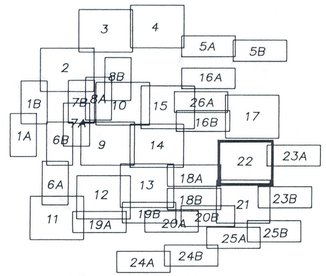
Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

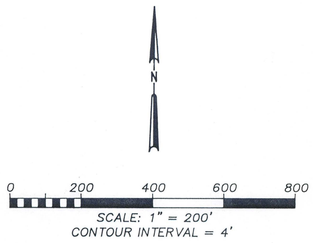
ROWE WASH (STA 2.84 - 3.59)
ROWE WASH TRIBUTARY 1
GRAPEVINE WASH (STA 0.29 - 0.90)

SHEET 21
DWG NO. 27815C21.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3





SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

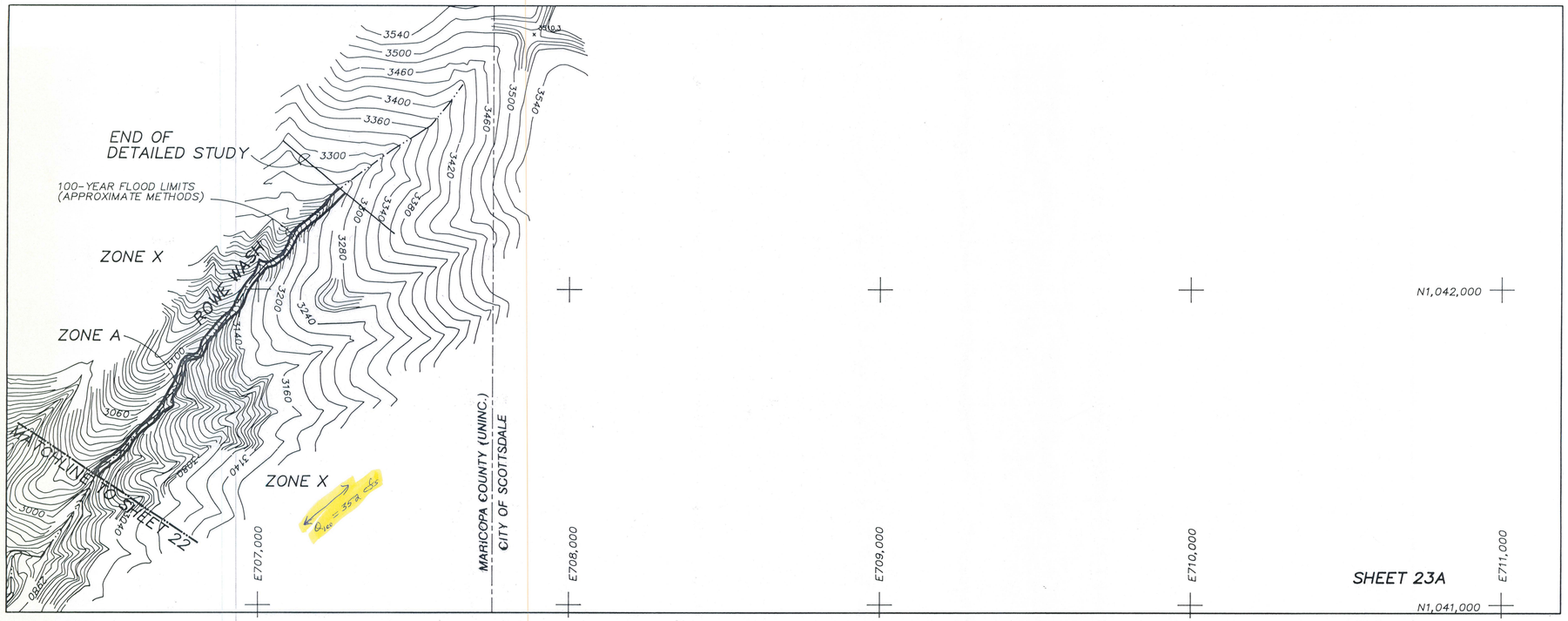
ERM NO.	ELEVATION	DESCRIPTION
12	2761.42	BRASS CAP IN STONE N68°E, 45' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 23 T6N R4E

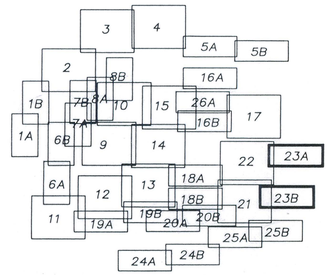
SW 1/4 SEC 13, T6N R4E

DSGN T. HUNZIKER D. STOUGH					Prepared For: **Flood Control District of Maricopa County** Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.		Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	ROWE WASH (STA 3.68 - 3.98) ROWE WASH TRIBUTARY 1 ROWE WASH TRIBUTARY 2	SHEET 22
DR 27815C22 R.FREIER									DWG NO. 27815C22.DWG
CHK S. WALKER									DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.H3

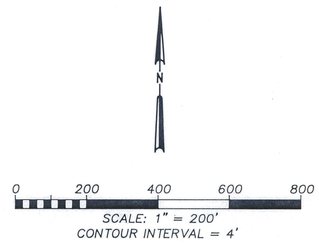
CH2MHILL

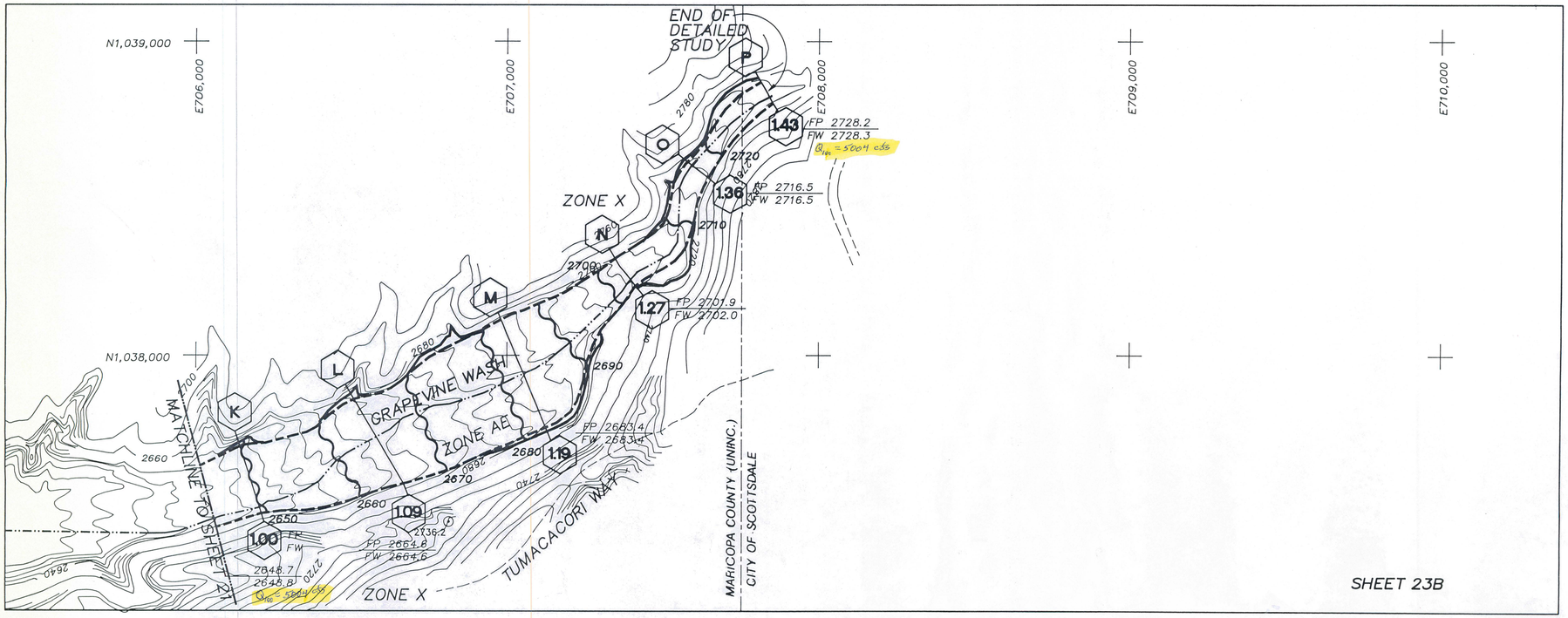
Registered Professional Engineer — Certificate No. 22961 — Richard L. Freier — Date Signed 3-27-90 — Arizona U.S.A.





SHEET INDEX





LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

E 1/2 SEC 13, T6N R4E
E 1/2 SEC 24, T6N R4E

Professional Engineer — CERTIFICATE NO. 20961 — STEVEN A. WALKER — ARIZONA U.S.A.

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C23 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

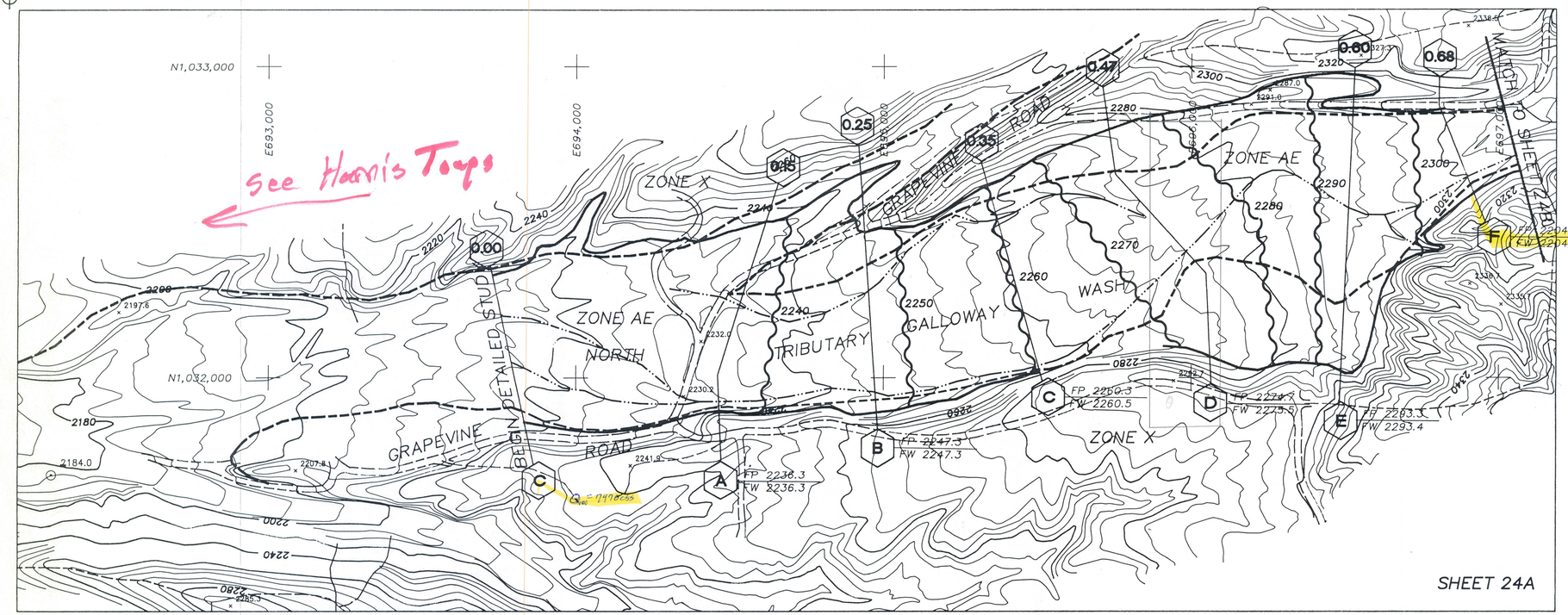
Topographic Mapping and Flood Insurance Study

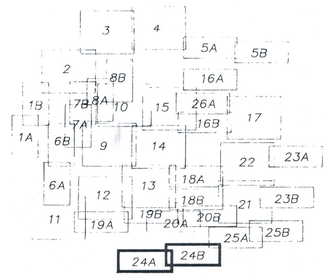
Cave Creek and Tributaries
Cave Creek, Arizona

ROWE WASH
GRAPEVINE WASH (STA 1.00 - 1.43)

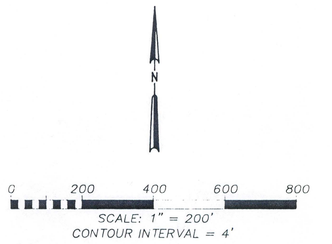
SHEET	23
DWG NO.	27815C23.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

03-27-90 27815C24.DWG

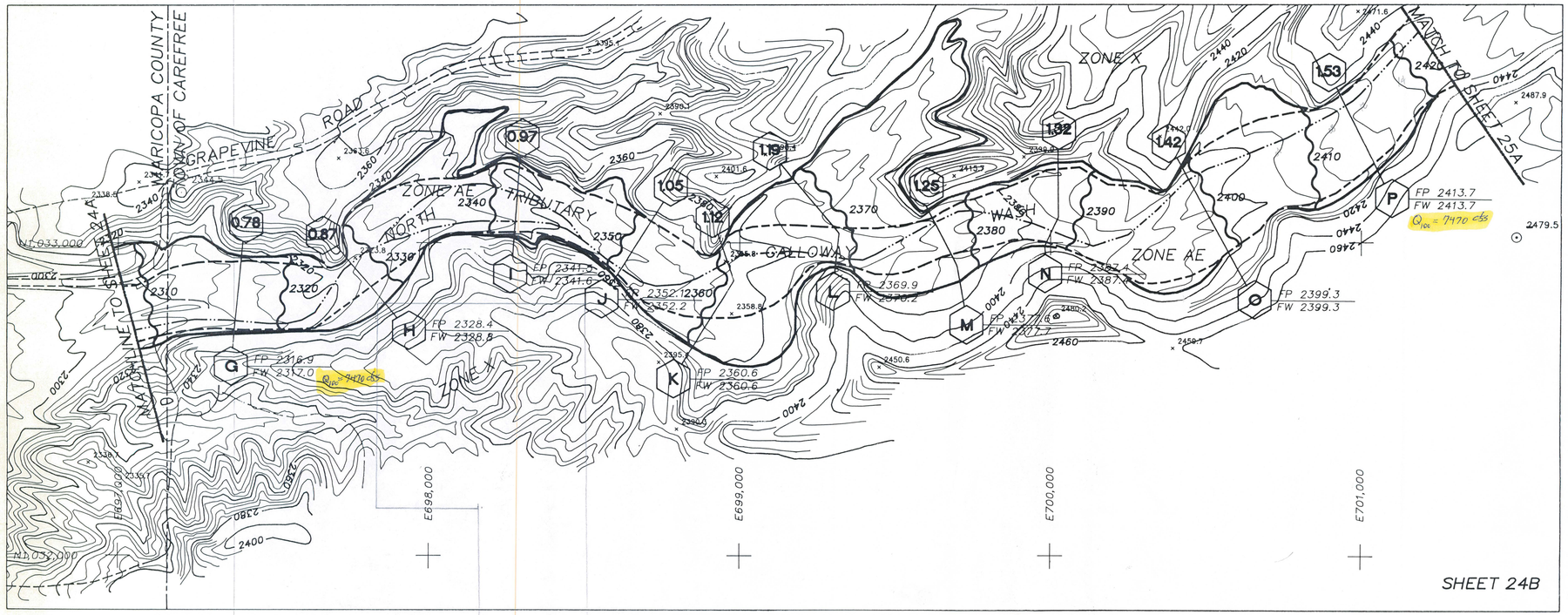




SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

7	2167.08	BRASS CAP IN HEADWALL S10E, 682' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 33 T6N R4E
8	2406.61	BRASS CAP IN HEADWALL N85W, 1708' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 27 T6N R4E

SEC 27 T6N R4E
SEC 26 T6N R4E

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE EXPIRES 3/31/92 — STATE OF ARIZONA

CH2M HILL

DSGN T. HUNZIKER
D. STOUGH
DR 27815C24 R.FREIER
CHK S. WALKER
APVD

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
2	7/91	CHANGES AS PER F.E.M.A 5/8/91 REVIEW	DES	SRW

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

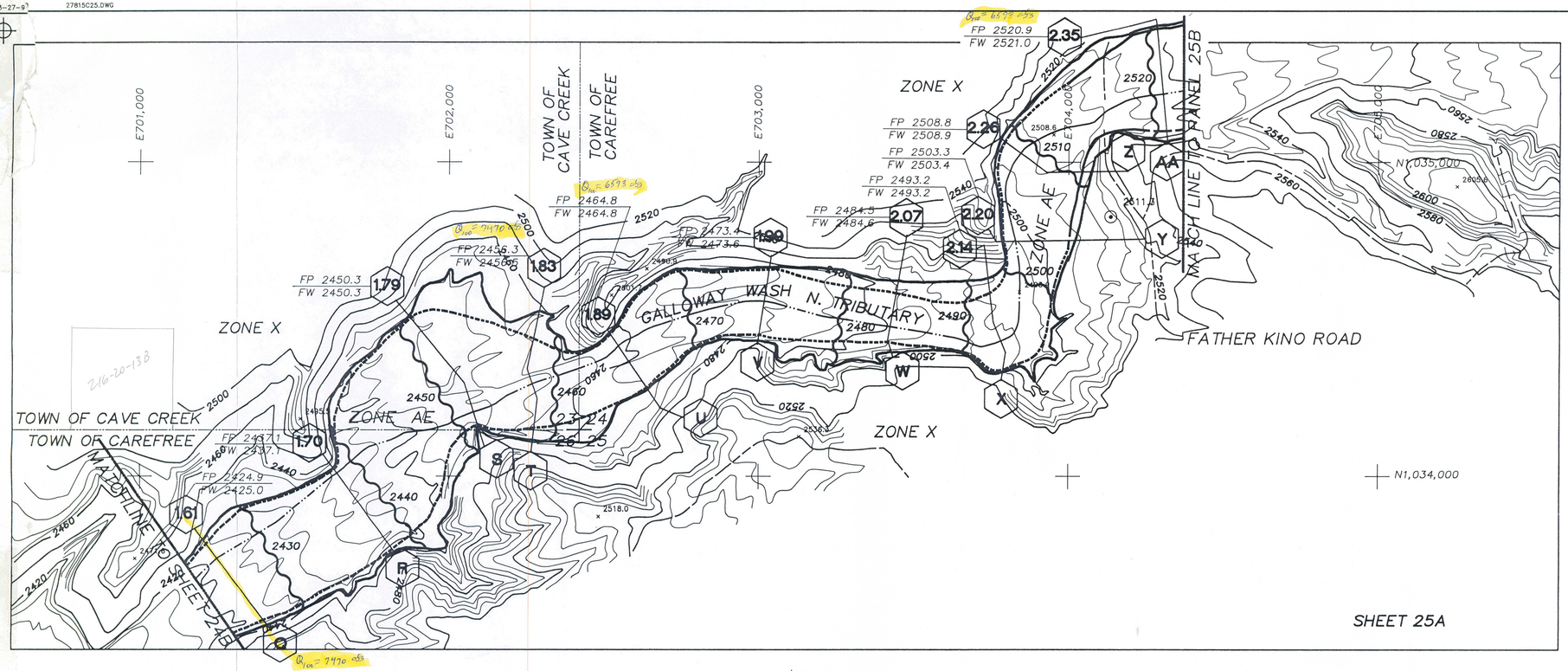
Topographic Mapping and Flood Insurance Study

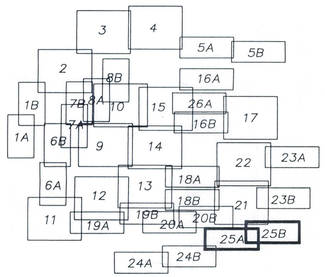
Cave Creek and Tributaries
Cave Creek, Arizona

NORTH TRIBUTARY - GALLOWAY WASH
(STA 0.00 - 0.68)
(STA 0.78 - 1.53)

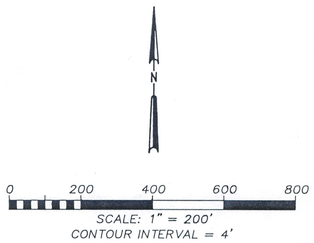
SHEET 24
DWG NO. 27815C24.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-27-91 27815C25.DWG

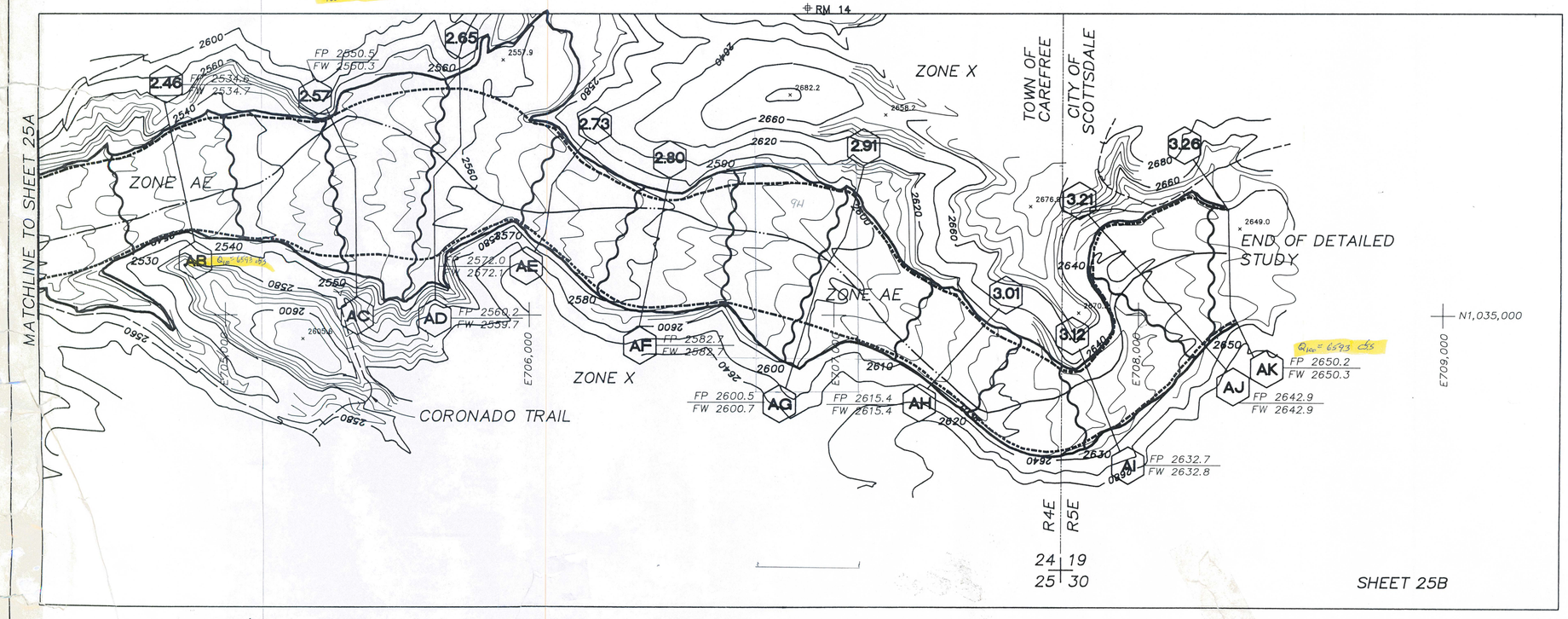




SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- ⌖ RM — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
13	2443.70	BRASS CAP IN HEADWALL N04W, 277' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 35 T6N R4E
14	2635.91	BRASS CAP IN CURB N35E, 625' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 25 T6N R4E

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

NE 1/4 SEC 26, T6N R4E
SE 1/4 SEC 23, T6N R4E
S 1/2 SEC 24, T6N R4E
SW 1/4 SEC 19, T6N R5E

Registered Professional Land Surveyor — Certificate No. 21617 — STEVEN R. WALKER — Arizona U.S.A.

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C25 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW

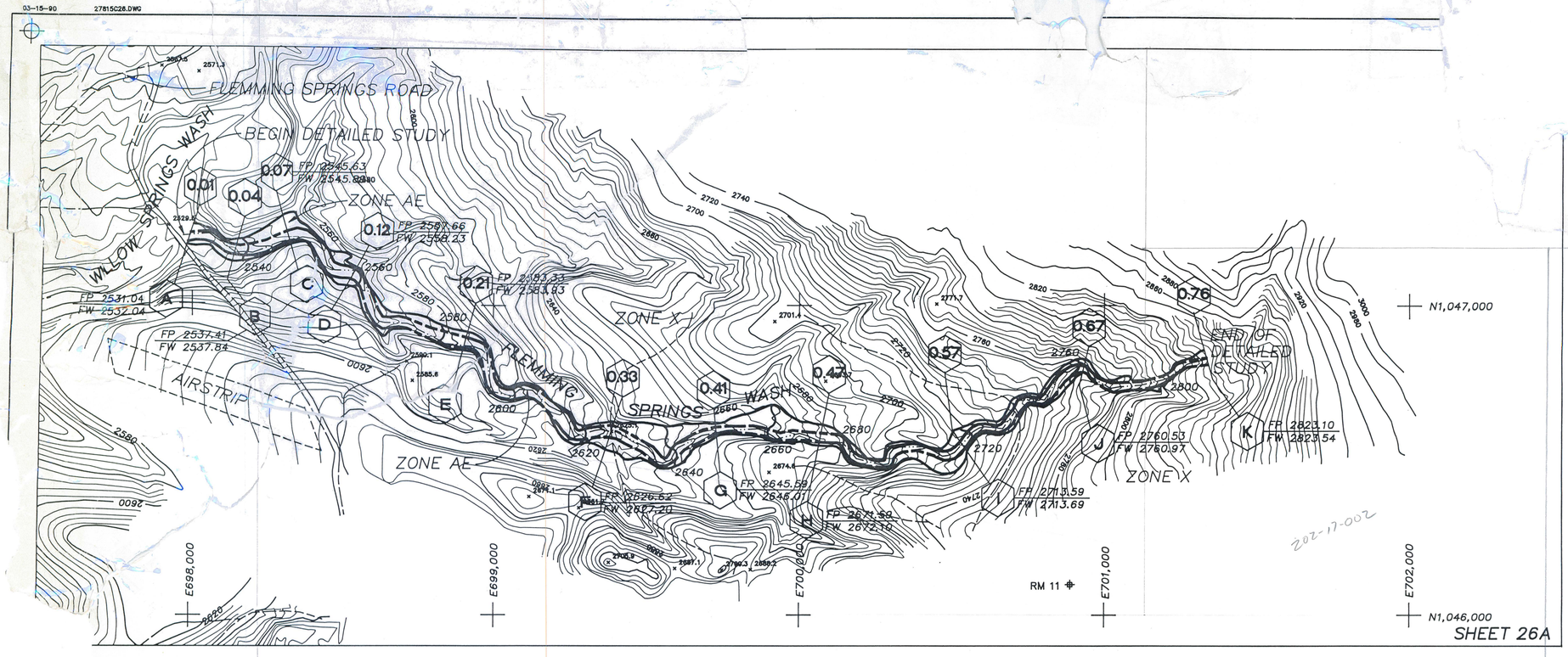
Prepared For: Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.

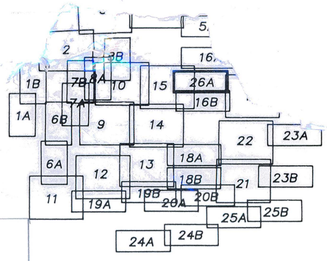
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

GALLOWAY WASH NORTH TRIBUTARY (STA 1.61 - 3.26)

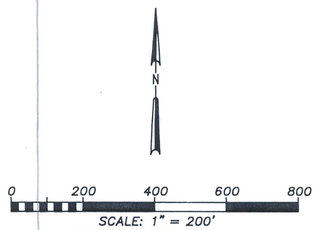
SHEET 25
DWG NO. 27815C25.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-15-90 27815C26.DWG





SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
11	2762.78	BRASS CAP IN STONE N22°E, 4100' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 11 T6N R4E

SEC 11, T6N R4E

Arizona Professional Engineer — Certificate No. 20901 — Steven Walker — Registered — Arizona, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH	
DR	27815C26 R.FREIER	
CHK	S. WALKER	
APVD		

NO.	DATE

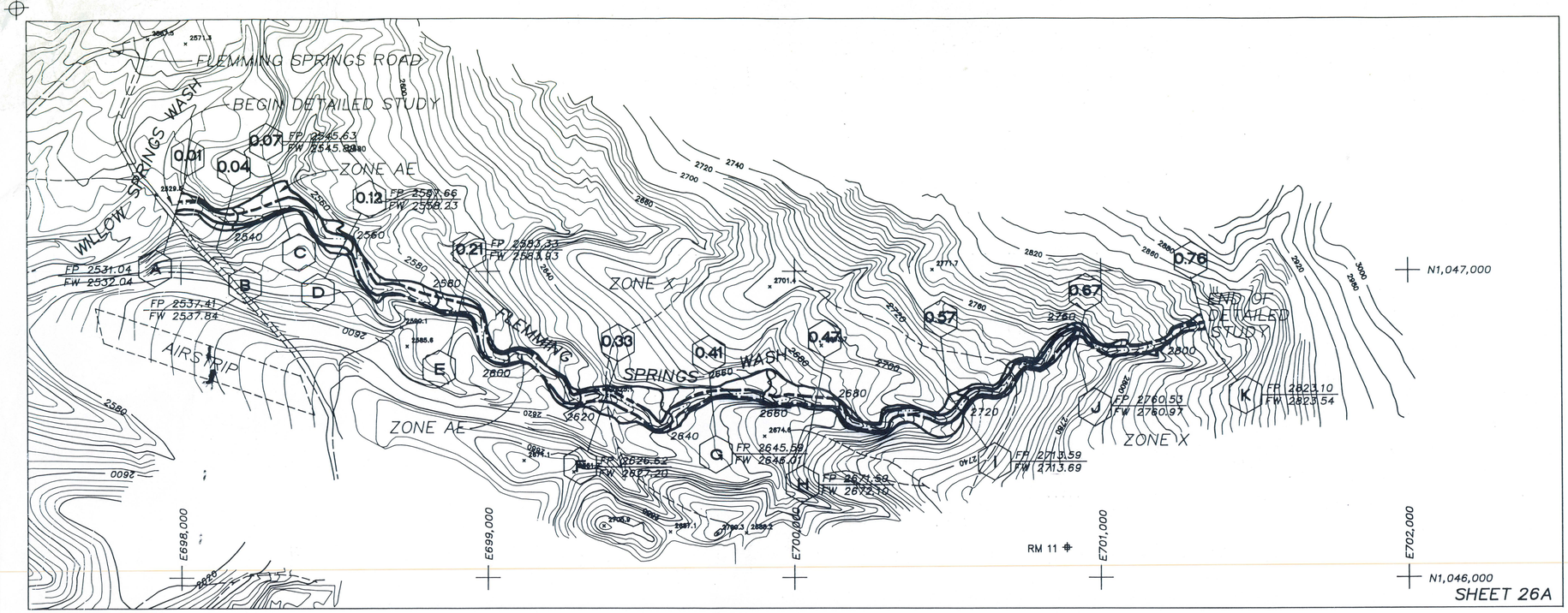
Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

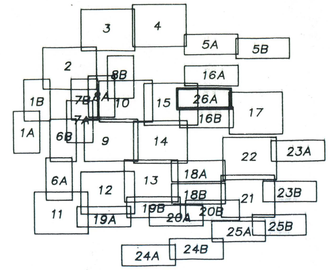
Topogr... and Flood ...dy
...uto... zone

FLEMMING SPRINGS WASH
(STA 0.00 - 0.76)

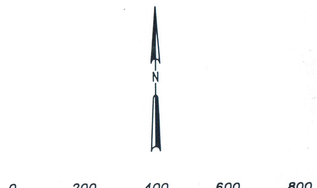
SHEET 26
DWG NO. 27815C26.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H

03-15-90 27815C26.DWG





SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
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- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
11	2762.78	BRASS CAP IN STONE N22°E, 4100' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 11 T6N R4E

SEC 11, T6N R4E

CH2M HILL

DSGN T. HUNZIKER, D. STOUGH
DR 27815C26 R.FREIER
CHK S. WALKER
APVD

NO.	DATE	REVISION	BY	APVD

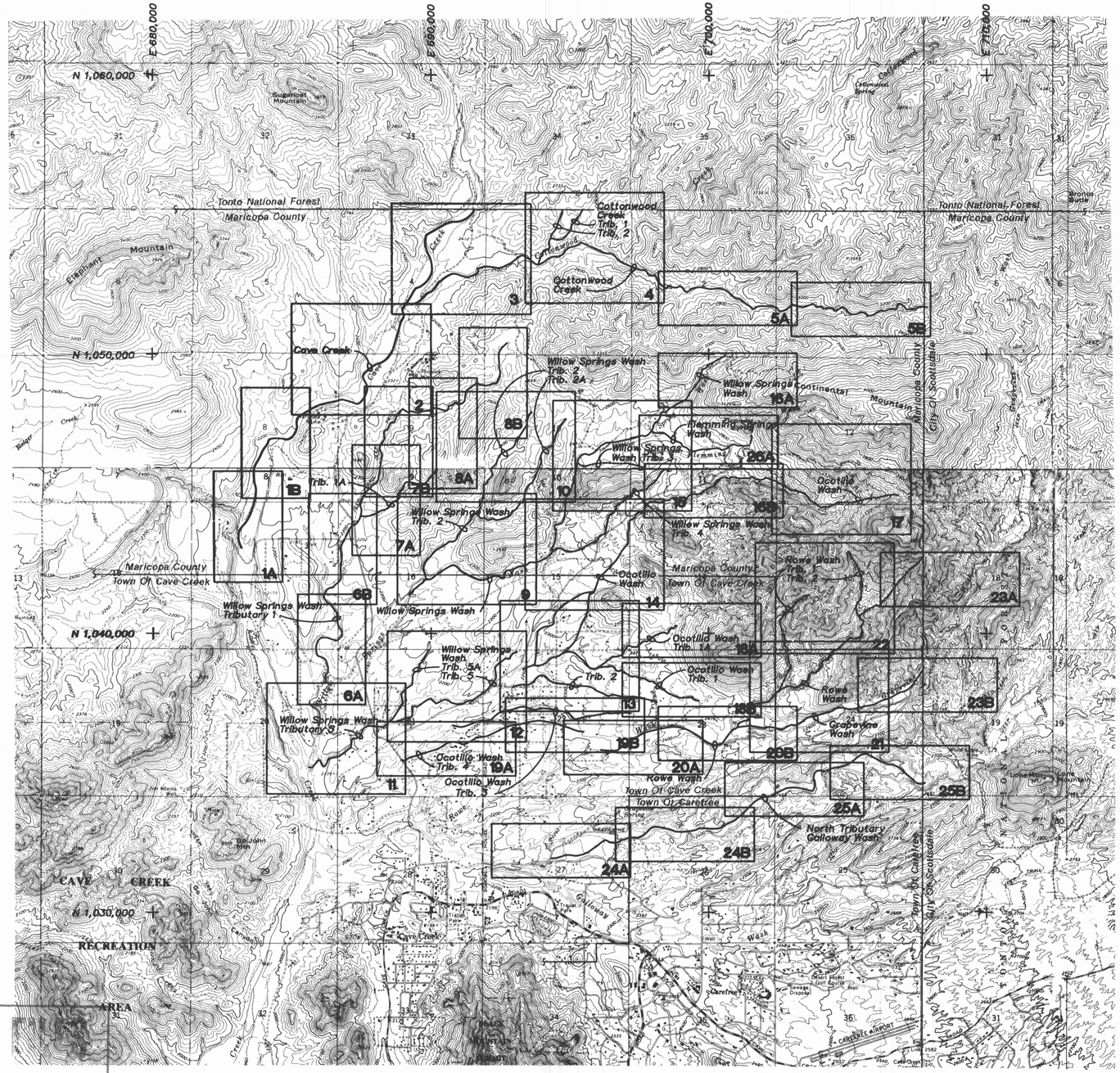
Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

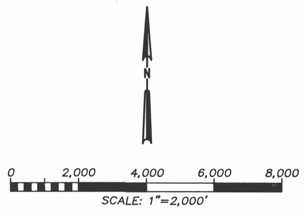
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

FLEMMING SPRINGS WASH (STA 0.00 - 0.76)

SHEET 26
DWG NO. 27815C26.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-27-90 KEY.DWG





LEGEND

- Detailed Study Stream Reach
- Approximate Study Stream Reach
- 2 — Sheet Limits and Sheet Number
- N 1,050,000 + — Arizona State Plane Coordinate System

Cave Creek / Carefree Flood Insurance Study

Cave Creek, Arizona

Prepared For:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Prepared By:

CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

March 1990
Date of Photography: August 1989

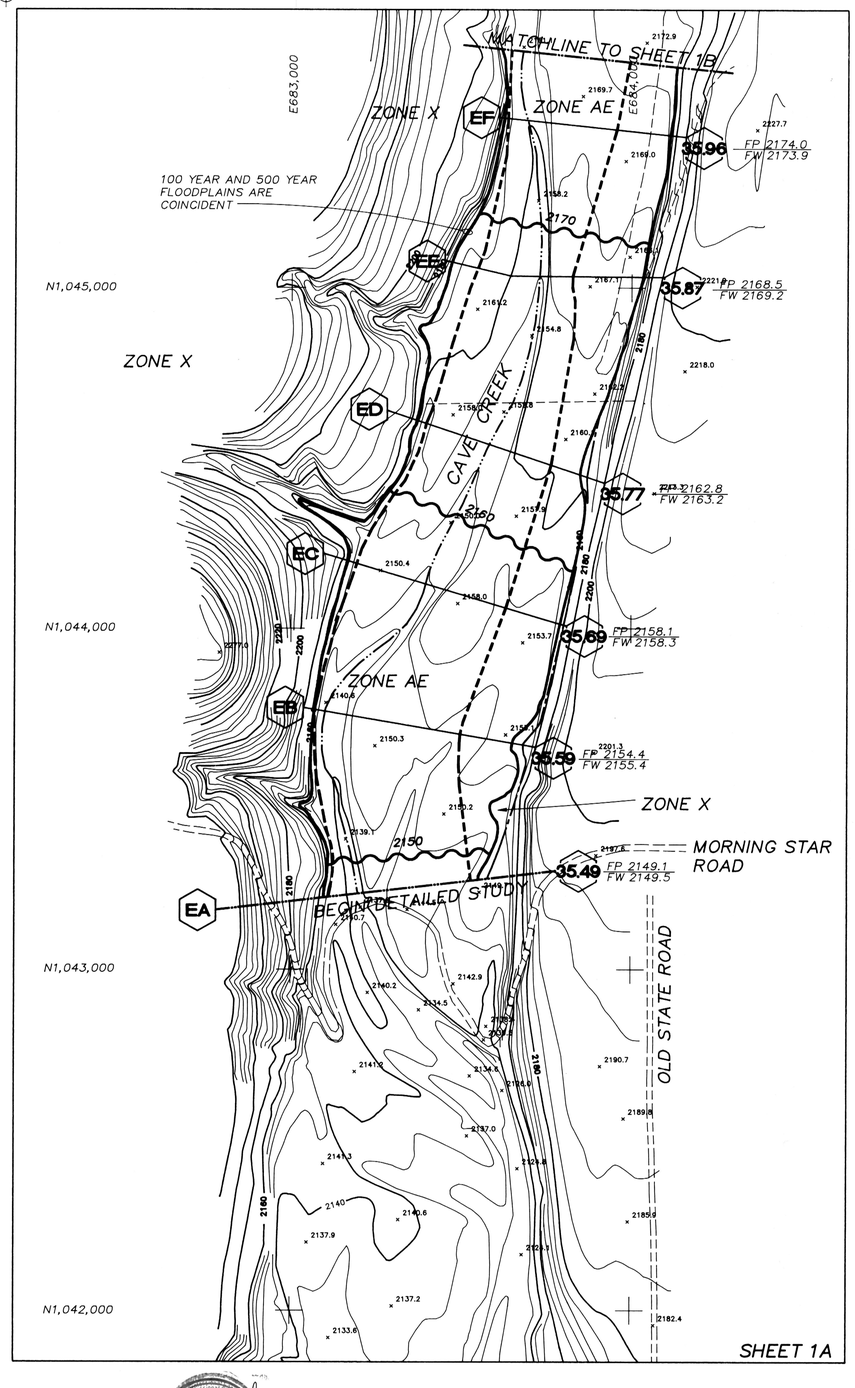
CENTRAL FILES
DRAWER 318

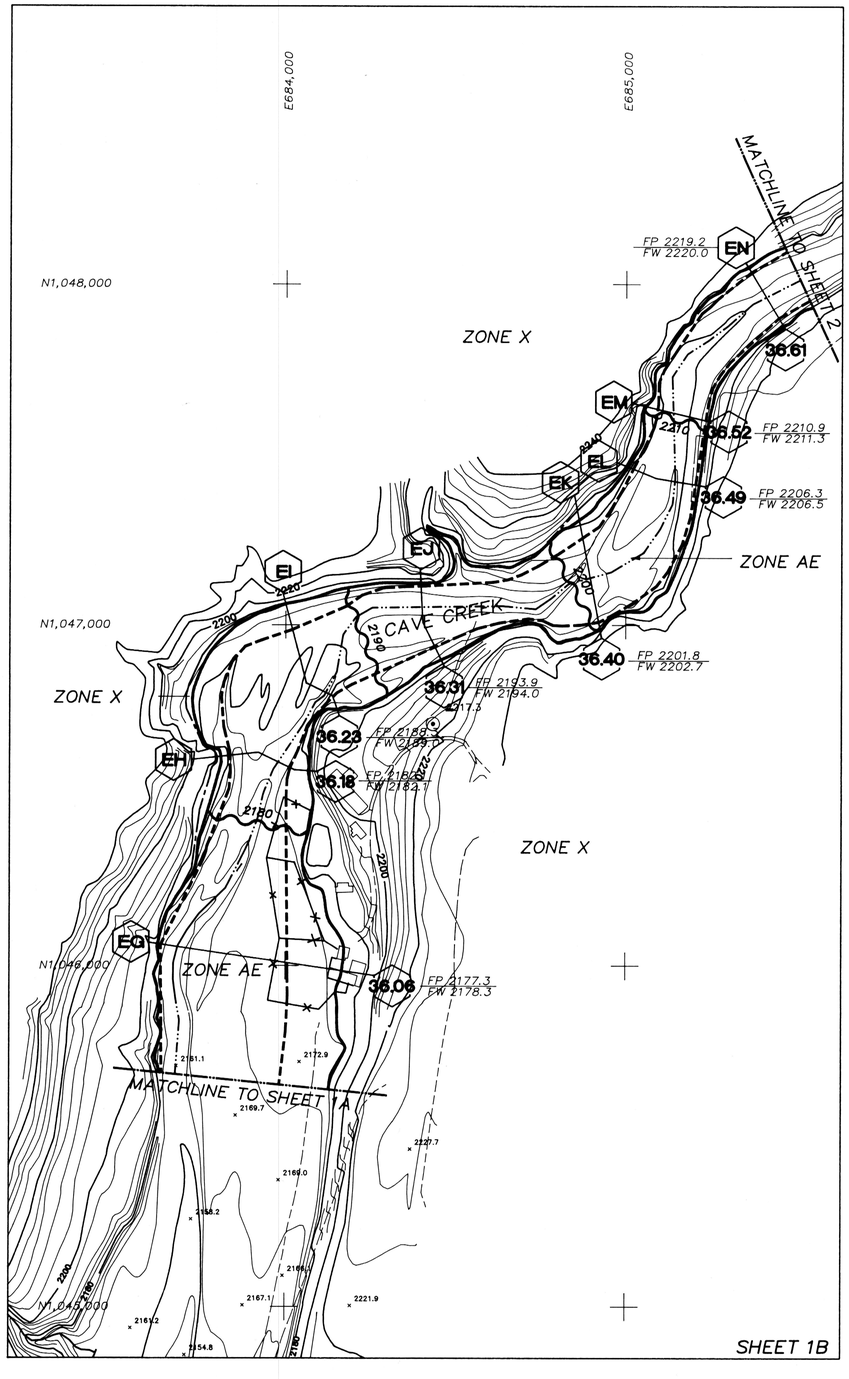
REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 20961 STEVEN B. WALKER ARIZONA U.S.A.

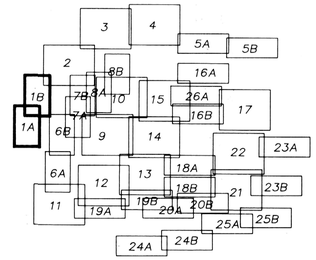
CH2M HILL

DSGN T. HUNZIKER						Prepared For: FLOOD CONTROL DISTRICT OF MARICOPA CO. Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.	Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	TITLE AND INDEX SHEET	SHEET TITLE
DR T. HUNZIKER									DWG NO. KEY.DWG
CHK S. WALKER									DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.H3

CAVE CREEK/CAREFREE AREA FIS
CH2M HILL INC.
STUDY 1990 FCD 88-53







SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

STEVEN R. WALKER — 3/13/90

CH2M HILL

DSGN T. HUNZIKER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	
DR D. STOUGH 27815C1 R.FREIER						
CHK S. WALKER						
APVD	NO.	DATE	REVISION	BY	APVD	

Prepared For: **Flood Control District of Maricopa County**
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study

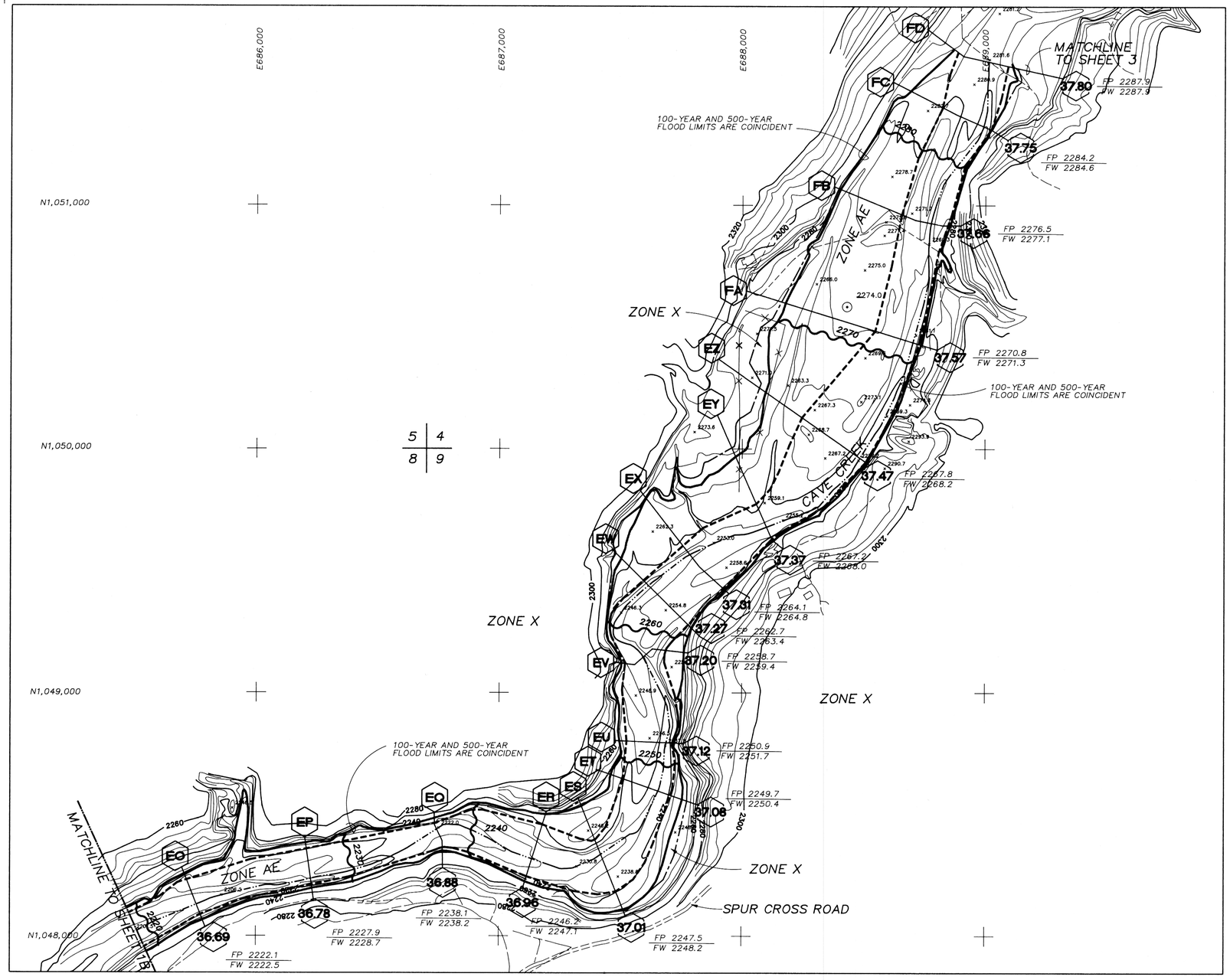
Cave Creek and Tributaries
Cave Creek, Arizona

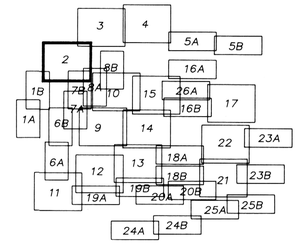
N 1/2 SEC 17, T6N R4E
S 1/2 SEC 8, T6N R4E

CAVE CREEK (STA 35.49 - 36.61)

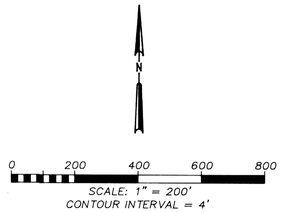
SHEET 1
DWG NO. 27815C1.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-23-90 27815C2.DWG





SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
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- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

NE 1/4 SEC 8 T6N R4E
NW 1/4 SEC 9 T6N R4E
SW 1/4 SEC 4 T6N R4E

CH2M HILL

DSGN T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	
DR 27815C2 R.FREIER						
CHK S. WALKER						
APVD	NO.	DATE	REVISION	BY	APVD	

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

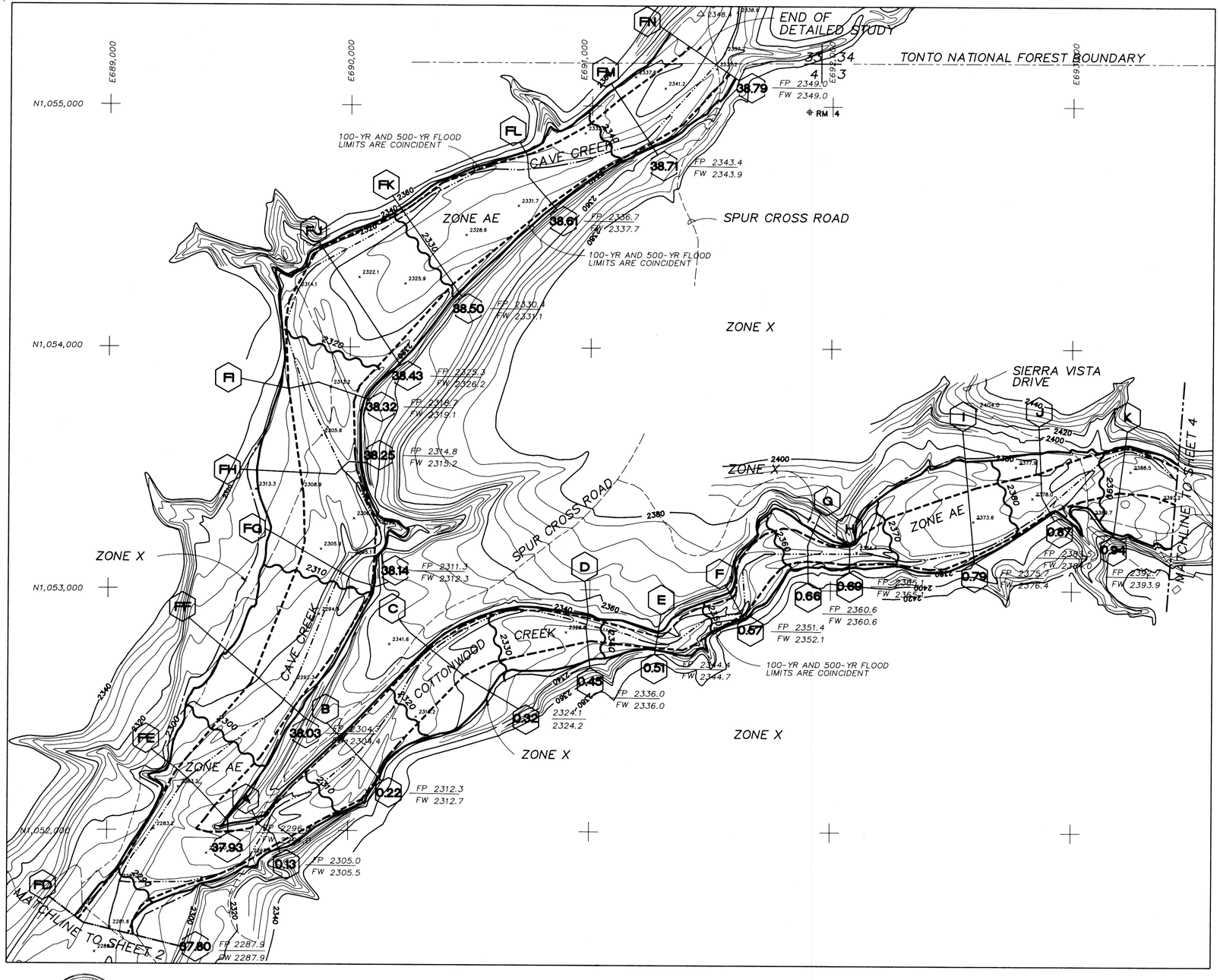
Topographic Mapping and Flood Insurance Study

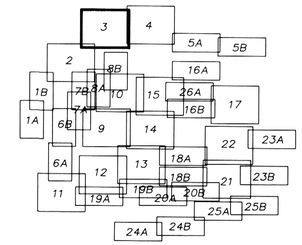
Cave Creek and Tributaries
Cave Creek, Arizona

CAVE CREEK (STA 36.69 -37.80)

SHEET 2
DWG NO. 27815C2.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-23-90 27815C3.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
4	2345.75	BRASS CAP IN CONCRETE SLAB N20E, 225' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 4 T6N R4E

NE 1/4 SEC 4 T6N R4E
NW 1/4 SEC 3 T6N R4E

REGISTERED PROFESSIONAL ENGINEER — SUSAN M. WALKER — 20561 — 7/31/91 — ARIZONA, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH
DR	27815C3 R. FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	DES BY	SRW APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW		

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

CAVE CREEK (STA 37.80 - 38.79)
COTTONWOOD CREEK (STA 0.00 - 0.94)

SHEET 3
DWG NO. 27815C3.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-23-90 27815C4.DWG

END OF DETAILED STUDY

ZONE X

TONTO NATIONAL FOREST BOUNDARY

34 35 / 3 2

COTTONWOOD CREEK TRIB. 2

COTTONWOOD CREEK TRIBUTARY 1

COTTONWOOD CREEK

ZONE AE

100 YEAR AND 500 YEAR FLOOD LIMITS AND FLOODWAYS ARE COINCIDENT

100 YEAR AND 500 YEAR FLOOD LIMITS ARE COINCIDENT

MATCHLINE TO SHEET 3

MATCHLINE TO SHEET 5A

E694,000 E695,000 E696,000 E697,000 E698,000

N1,055,000 N1,054,000 N1,053,000 N1,052,000

FP 2544.5 FW 2544.6 — 0.70

FP 2518.3 FW 2518.4 — 0.56

FP 2507.0 FW 2507.5 — 0.22

FP 2492.4 FW 2492.5 — 0.15

FP 2496.1 FW 2496.2 — 0.44

FP 2478.4 FW 2478.7 — 0.10

FP 2453.1 FW 2453.0 — 0.02

FP 2441.9 FW 2441.9 — 0.24

FP 2455.6 FW 2455.9 — 0.02

FP 2431.6 FW 2431.6 — 0.18

FP 2416.2 FW 2416.2 — 0.15

FP 2403.9 FW 2403.9 — 0.06

FP 2417.8 FW 2417.6 — 1.14

FP 2432.4 FW 2432.5 — 1.23

FP 2461.4 FW 2462.2 — 1.40

FP 2455.6 FW 2455.2 — 1.34

FP 2478.8 FW 2478.8 — 1.54

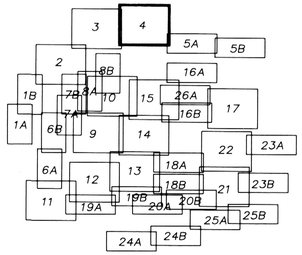
FP 2489.3 FW 2489.3 — 1.63

FP 2500.5 FW 2501.0 — 1.74

FP 2528.1 FW 2528.0 — 1.85

FP 2548.2 FW 2548.4 — 1.97

FP 2577.3 FW 2577.4 — 2.07



SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
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- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

Registered Professional Engineer — CERTIFICATE NO. 13904 — STEVEN R. WALKER — Date Signed 3/1/91 — ARIZONA, U.S.A.

CH2M HILL

DSGN T. HUNZIKER, D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR 27815C4, R.FREIER					
CHK S. WALKER					
APVD	NO.	DATE	REVISION	BY	APVD

Prepared For: **Flood Control District of Maricopa County**

Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study

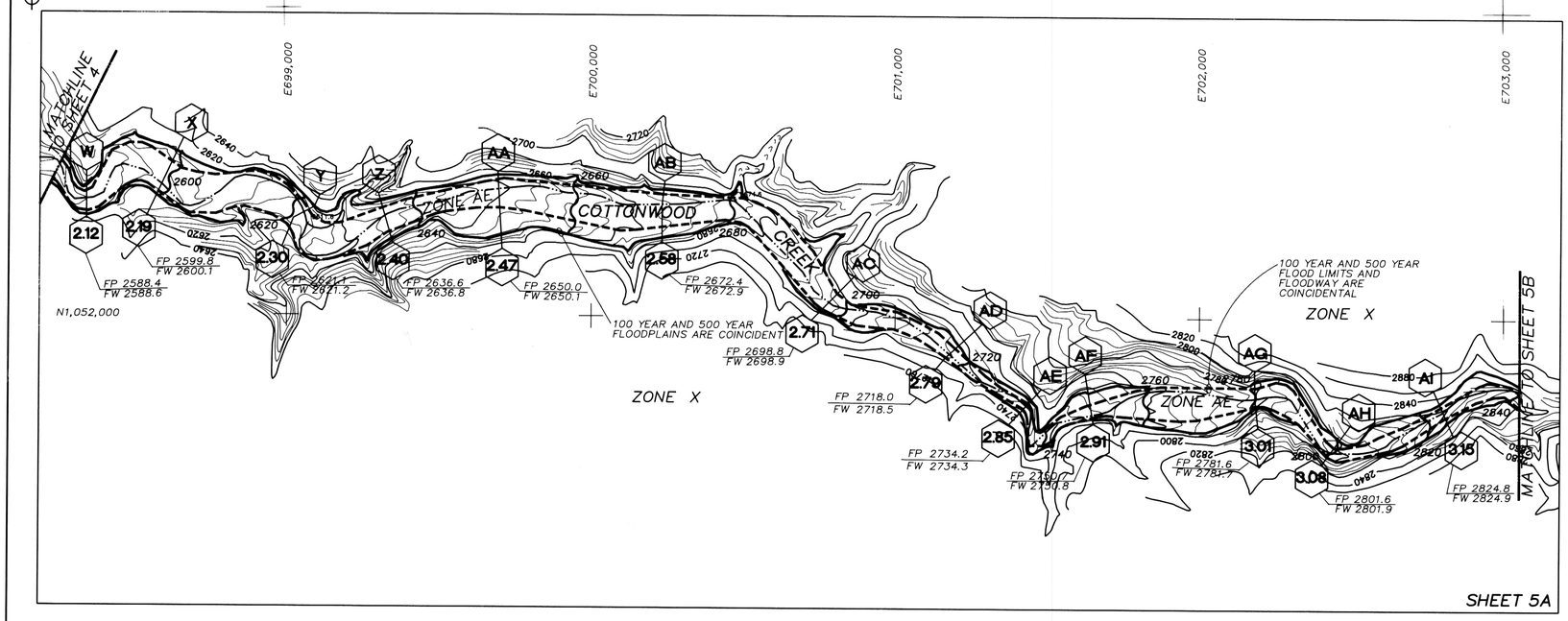
Cave Creek and Tributaries
Cave Creek, Arizona

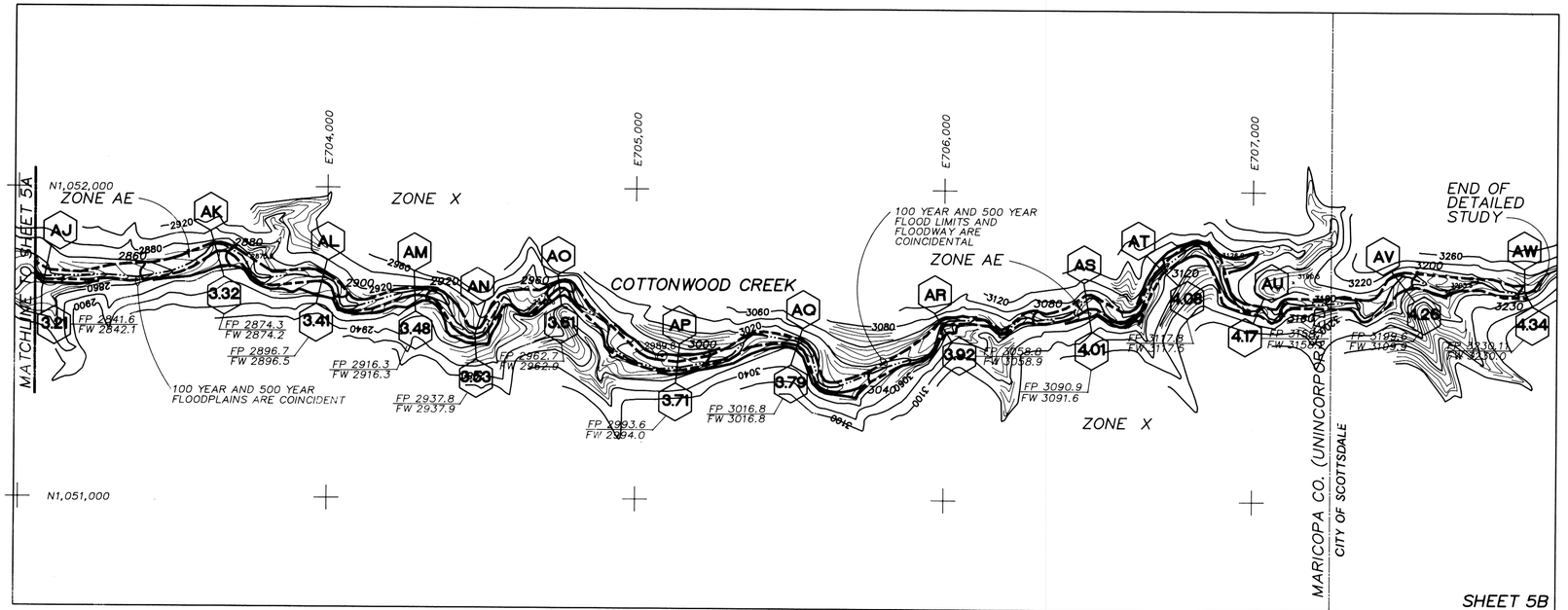
N 1/2 SEC 3, T6N R4E
W 1/2 SEC 2, T6N R4E

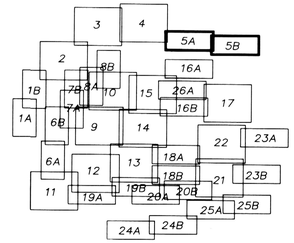
COTTONWOOD CREEK (STA 1.03 - 2.07)
COTTONWOOD CREEK TRIBUTARY 1 (STA 0.00 - 0.70)
COTTONWOOD CREEK TRIBUTARY 2 (STA 0.00 - 0.22)

SHEET 4
DWG NO. 27815C4.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

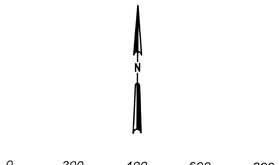
03-23-90 27815C5.DWG







SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

S 1/2 SEC 2, T6N R4E
S 1/2 SEC 1, T6N R4E

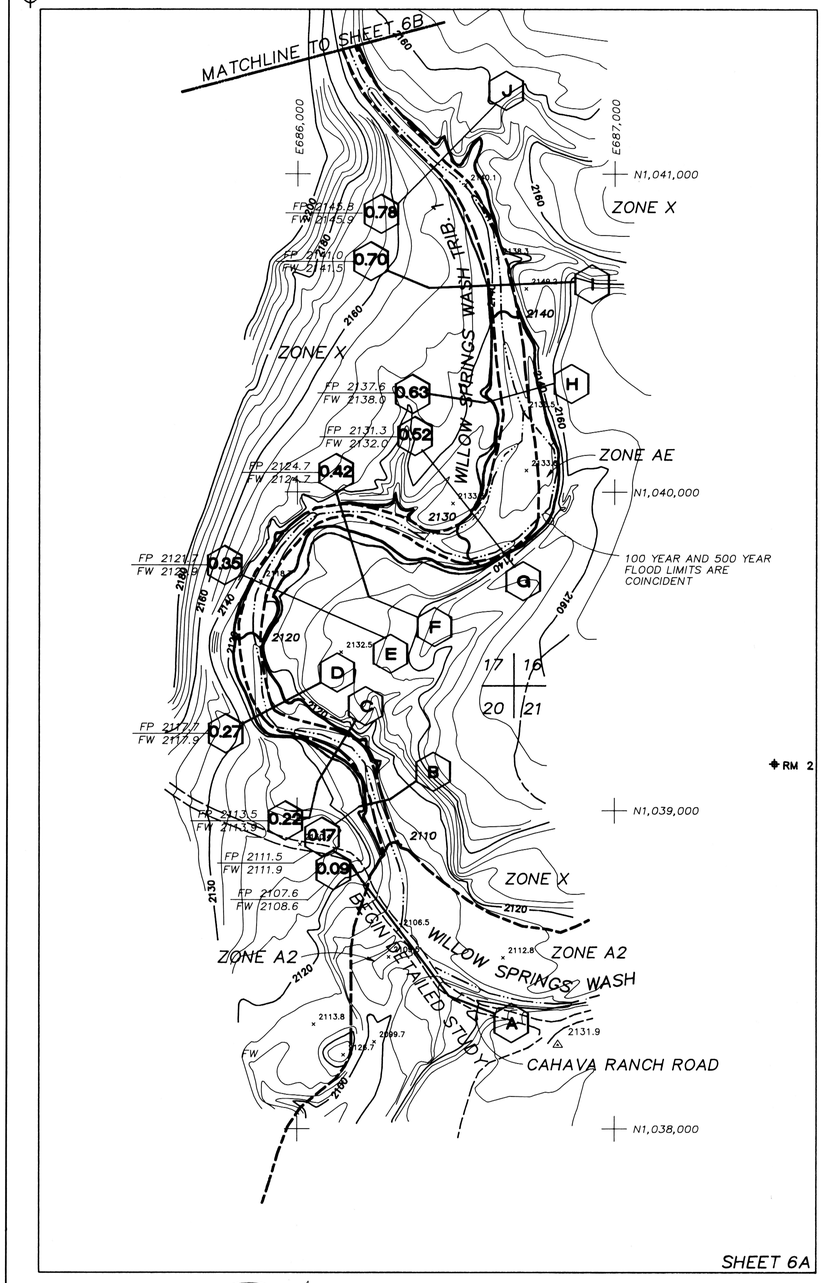
DSGN	T. HUNZIKER D. STOUGH	Prepared For: **Flood Control District of Maricopa County**	Topographic Mapping and Flood Insurance Study
DR	27815C5 R.FREIER	Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.	Cave Creek and Tributaries Cave Creek, Arizona
CHK	S. WALKER		
APVD			

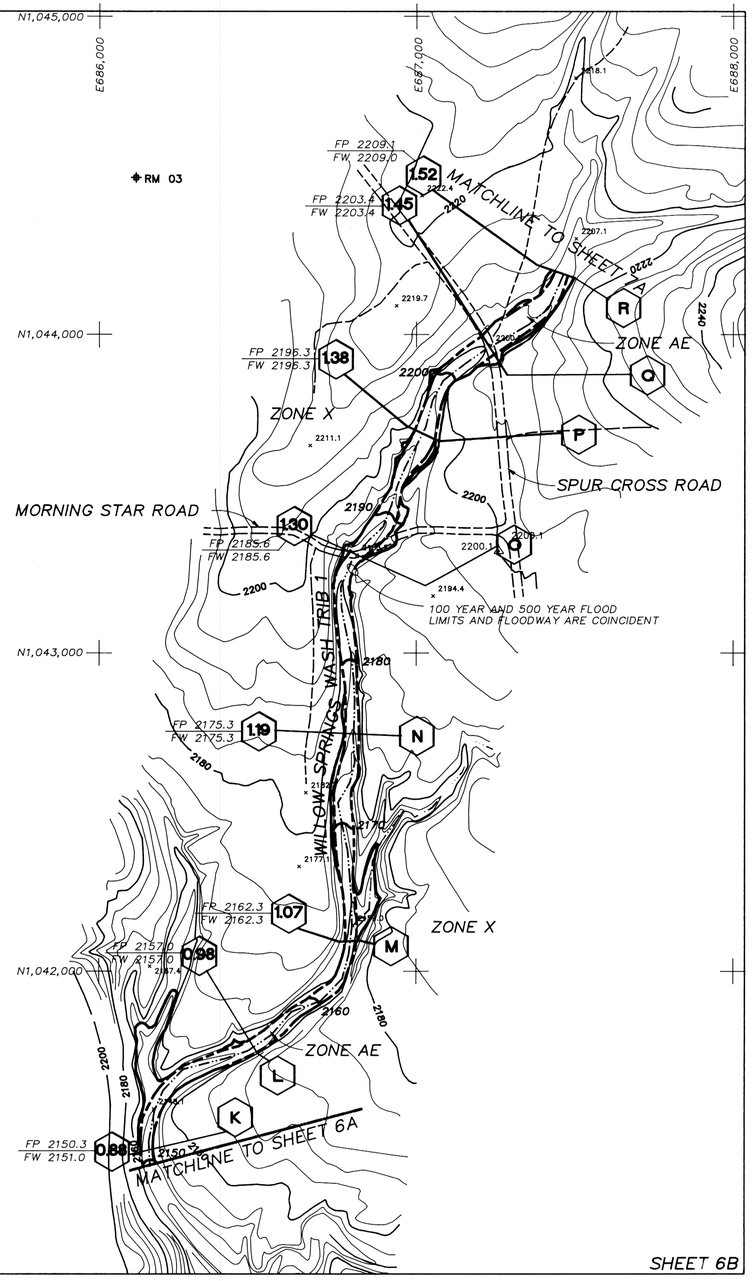
NO.	DATE	REVISION	BY	APVD

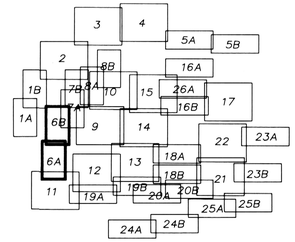
COTTONWOOD CREEK (STA 2.12-4.34)

SHEET	5
DWG NO.	27815C5.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.HJ

03-23-90 27815C6.DWG







SHEET INDEX

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
2	2149.19	BRASS CAP IN ROCK WALL N74°W, 852' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 20 T6N R4E
3	2214.93	BRASS CAP IN HEADWALL S13E, 507' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 17 T6N R4E

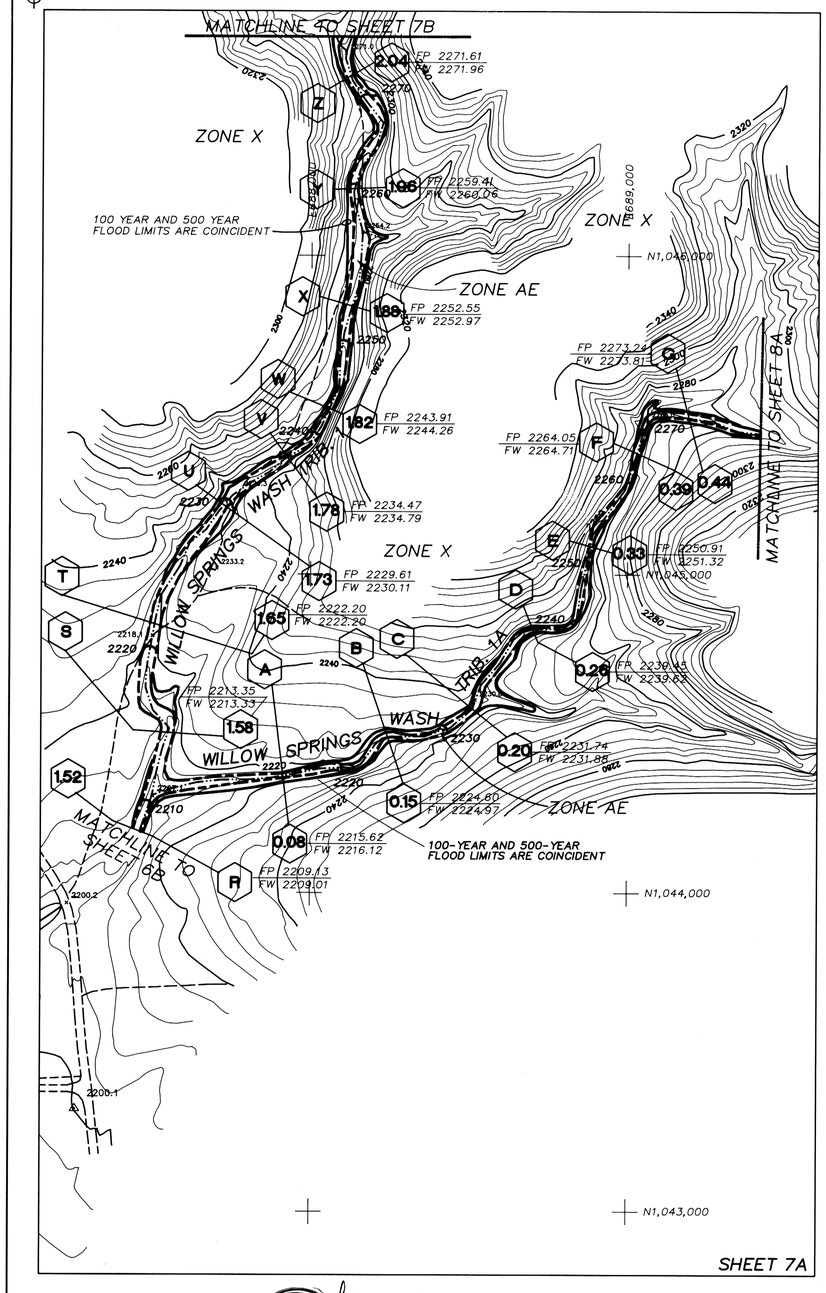
NE 1/4 SEC 9 T6N R4E
SE 1/4 SEC 17 T6N R4E
W 1/2 SEC 16 T6N R4E

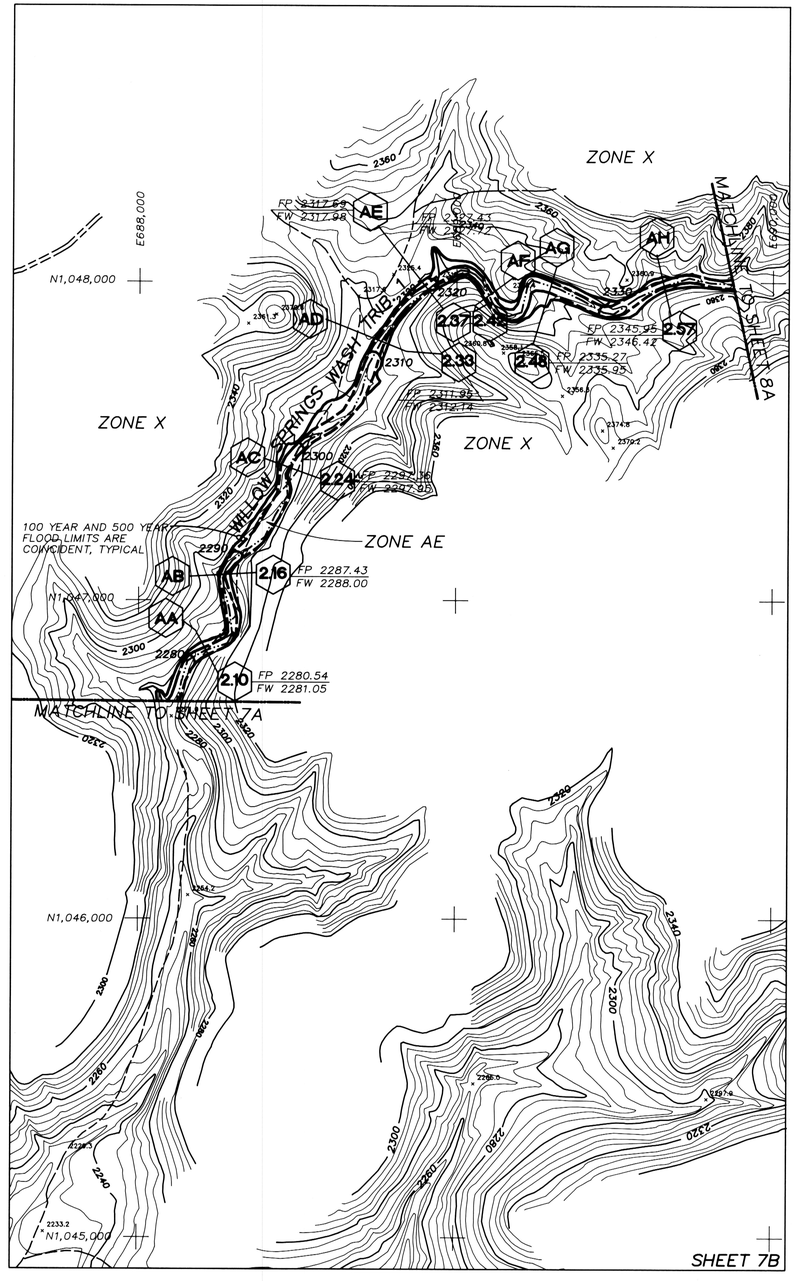
DSGN T. HUNZIKER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	Prepared For: Flood Control District of Maricopa County Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.		Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	WILLOW SPRINGS WASH TRIBUTARY 1 (SEC. 0.00 - 1.52)	SHEET 6
DR 27815C6 R.FREIER										DWG NO. 27815C6.DWG
CHK S. WALKER										DATE MARCH 1990
APVD	NO.	DATE	REVISION	BY	APVD					PROJ NO. RDD27815.H3

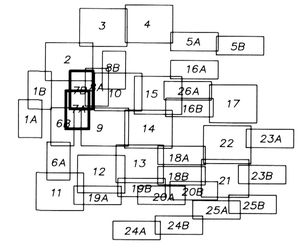
CH2M HILL

Registered Professional Engineer — Certificate No. 27261 — Stephen R. Walker — Arizona, U.S.A.

03-23-90 27815C7.DWG







SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

NW 1/4 SEC 16 T6N R4E
SEC 9 T6N R4E

NO.	DATE	REVISION	DES BY	SRW APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW		

DSGN T. HUNZIKER D. STOUGH
DR 27815C7 R.FREIER
CHK S. WALKER
APVD

CH2M HILL

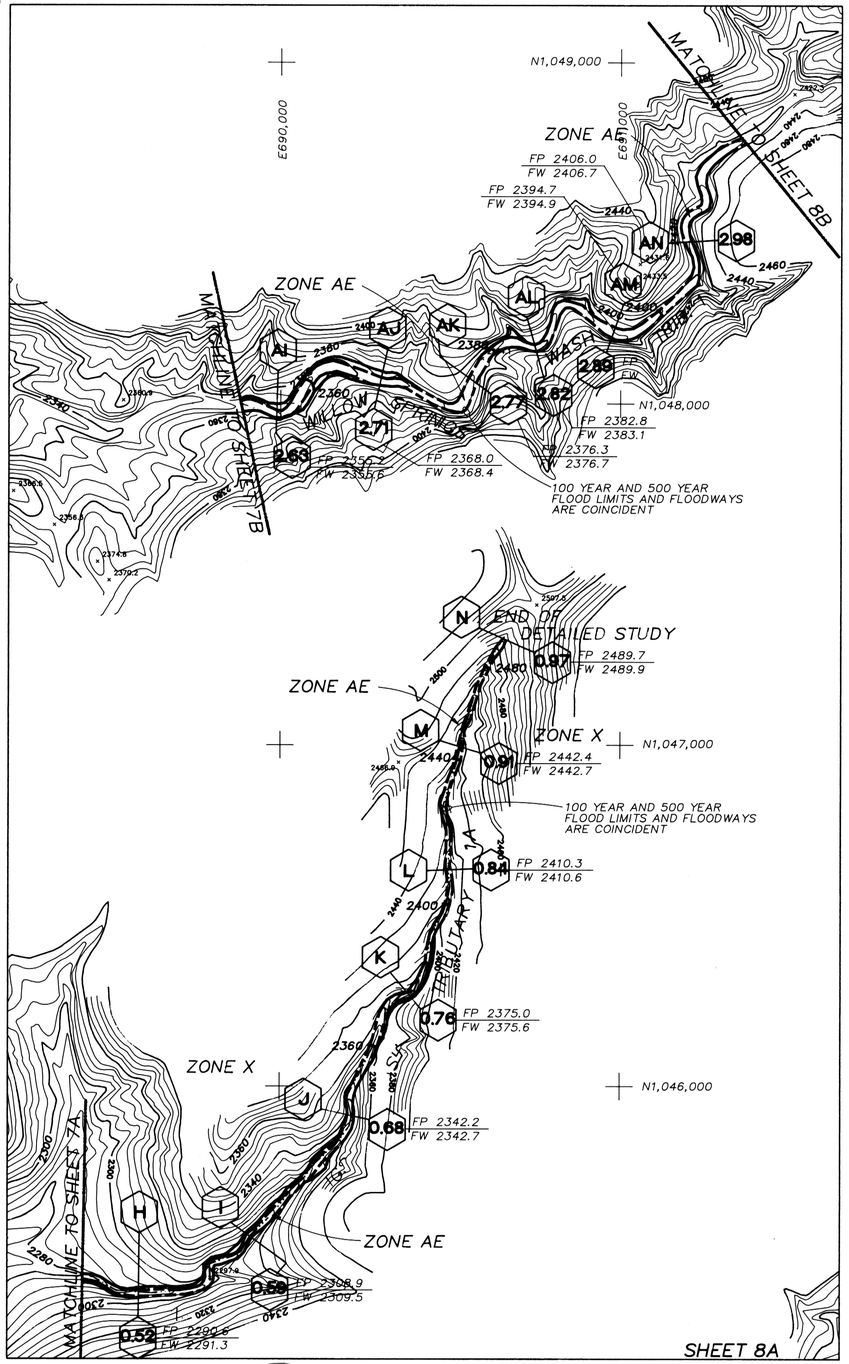
Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

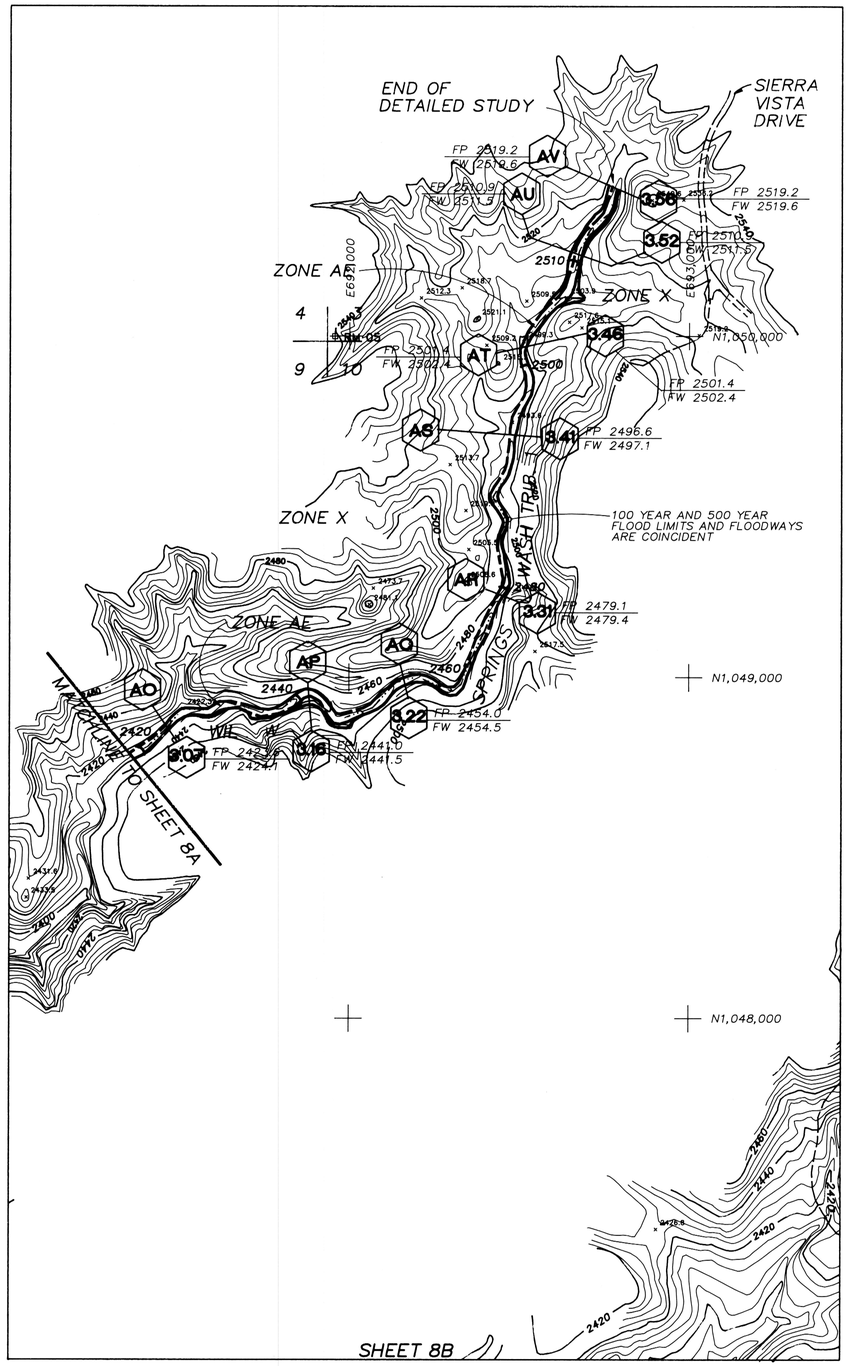
Topographic Mapping and Flood Insurance Study

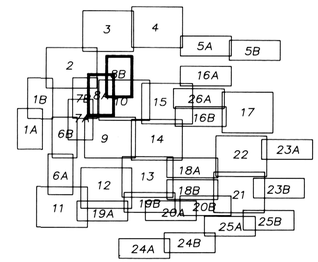
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH - TRIBUTARY 1 (SEC. 1.52 - 2.57)
WILLOW SPRINGS WASH - TRIBUTARY 1A (SEC. 0.00 - 0.44)

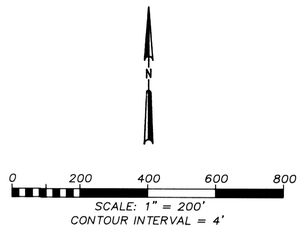
SHEET 7
DWG NO. 27815C7.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3







SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
5	2547.25	BRASS CAP IN STONE S55W, 27' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 9 T6N R4E

NE 1/4 SEC 9 T6N R4E
NW 1/4 SEC 10 T6N R4E
SW 1/4 SEC 3 T6N R4E

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 9719
JOHN R. WALKER
STATE OF ARIZONA U.S.A.
9/9/91
CH2M HILL

DSGN	T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR	27815C8 R.FREIER					
CHK	S. WALKER					
APVD		NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

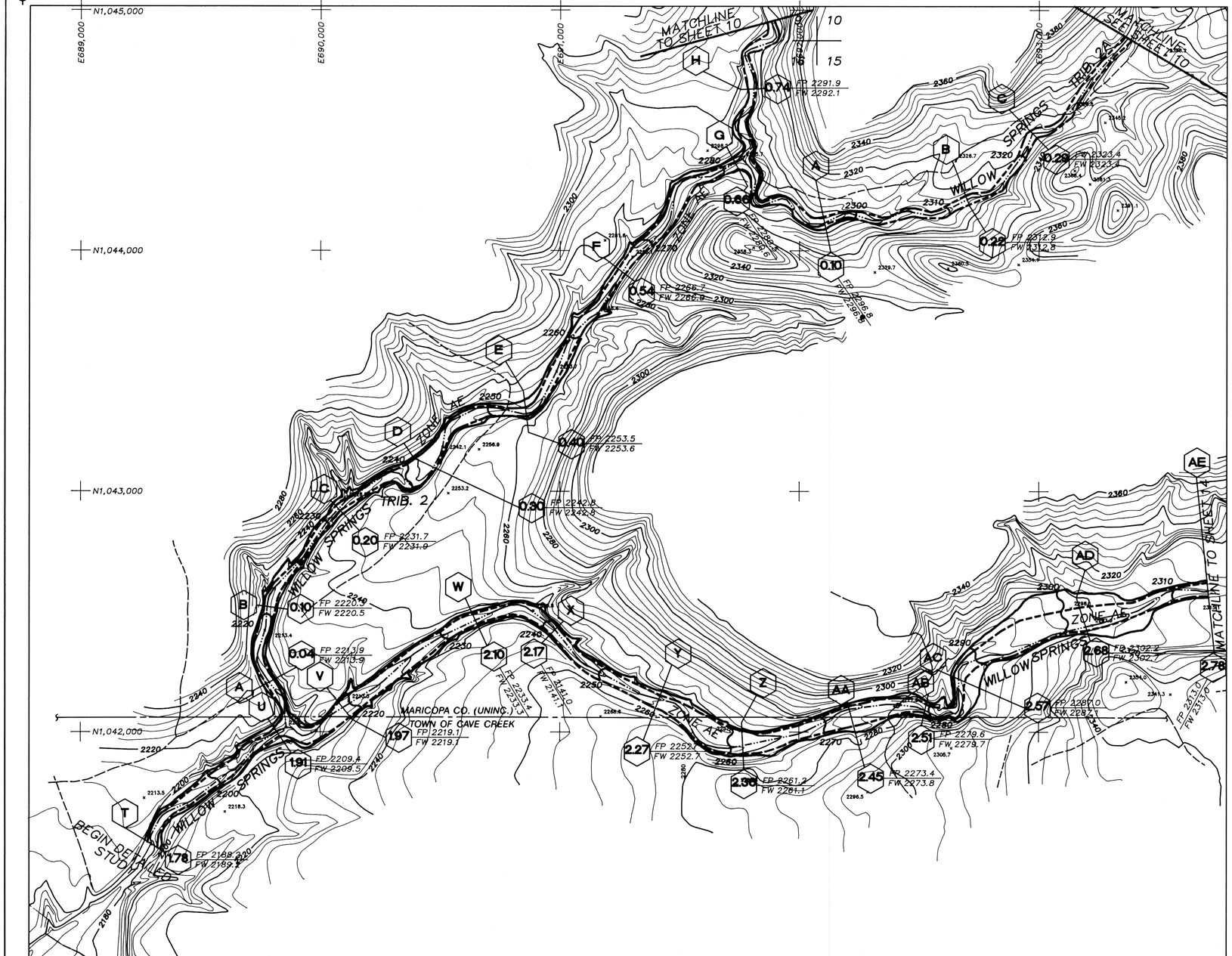
Topographic Mapping and Flood Insurance Study

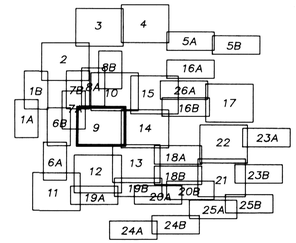
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH TRIBUTARY 1 (SEC. 2.63 - 3.56)
WILLOW SPRINGS WASH TRIBUTARY 1A (SEC. 0.52 - 0.97)

SHEET 8
DWG NO. 27815C8.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-26-90 27815C9.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
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- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

CERTIFICATE NO. 33128 STATE OF ARIZONA STEVEN R. WALKER 2-27-91

CH2M HILL

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C9, R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	DES BY	SRW APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW		

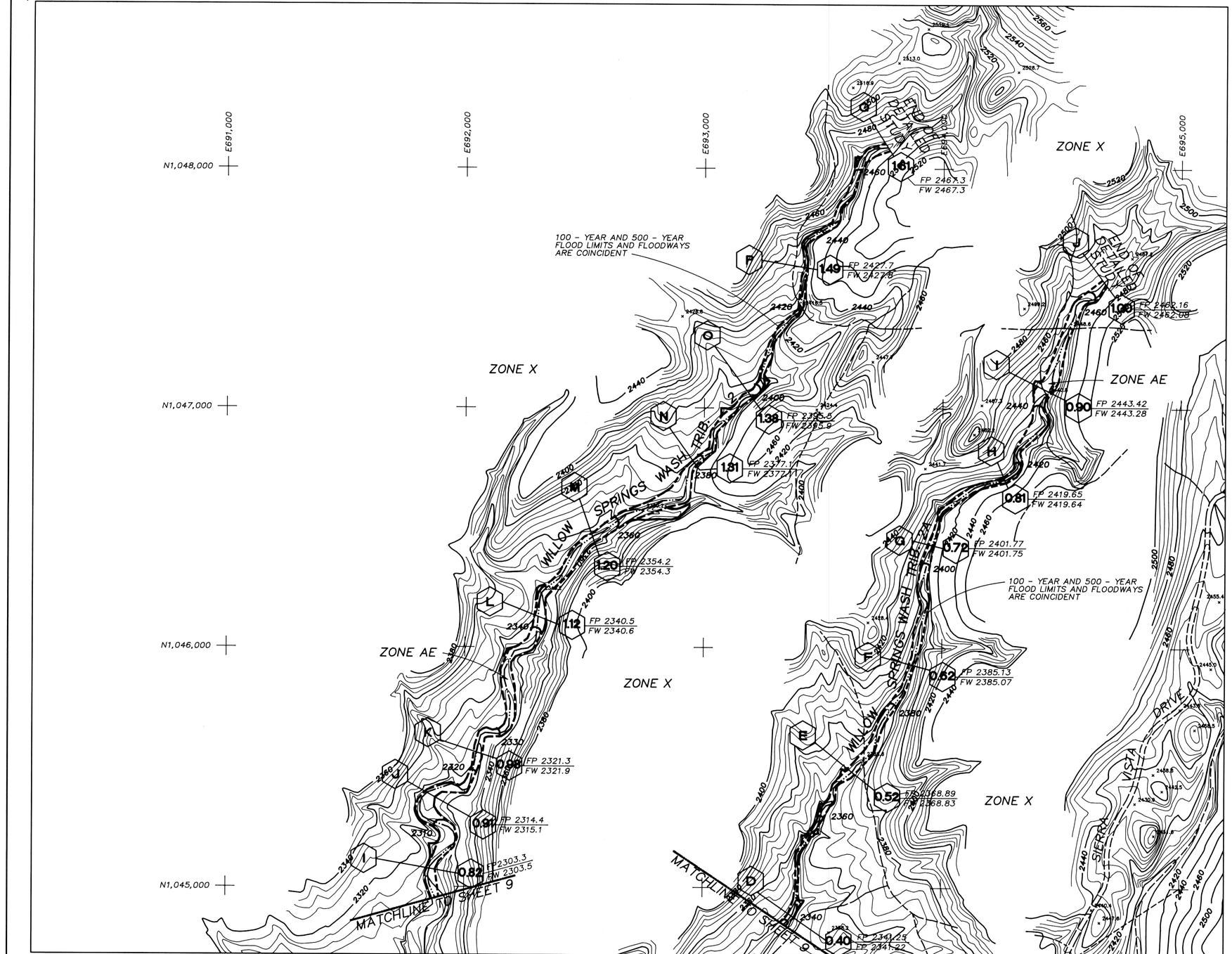
Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

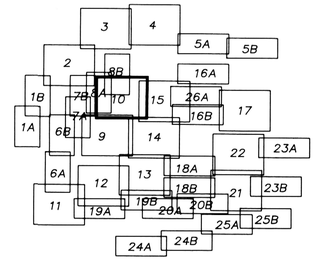
Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

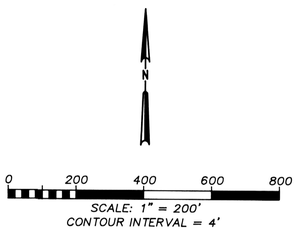
WILLOW SPRINGS WASH (STA 1.78 - 2.78)
WILLOW SPRINGS WASH 2 (STA 0.00 - 0.75)
WILLOW SPRINGS WASH 2A (STA 0.00 - 0.40)

SHEET NO.	9
DWG NO.	27815C9.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3





SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
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- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

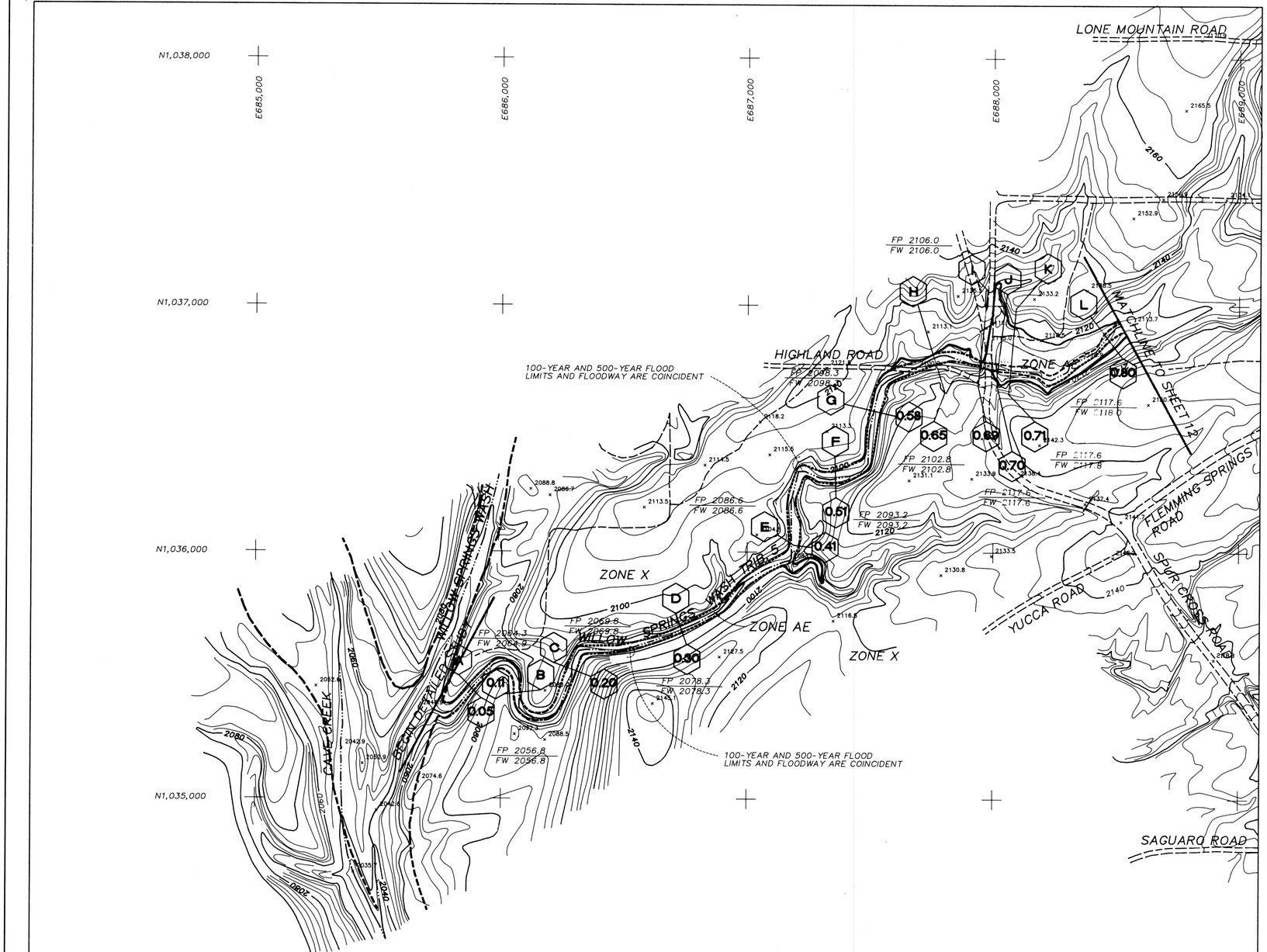
ELEVATION REFERENCE MARKS

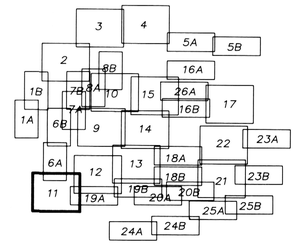
ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 9 T6N R4E
SEC 10 T6N R4E

CH2M HILL	DSGN T. HUNZIKER D. STOUGH DR 27815C10 R.FREIER CHK S. WALKER APVD	NO.	DATE	REVISION	BY	APVD	Prepared For: **Flood Control District of Maricopa County** Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.		Topographic Mapping and Flood Insurance Study Cave Creek and Tributaries Cave Creek, Arizona	**WILLOW SPRINGS WASH TRIBUTARY 2 (STA 0.82 - 1.61)** **WILLOW SPRINGS WASH TRIBUTARY 2A (STA 0.40 - 1.00)**	SHEET 10 DWG NO. 27815C10.DWG DATE MARCH 1990 PROJ NO. RDD27815.H3

03-24-90 27815C11.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMITS
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 20 T6N R4E
W 1/2 SEC 21 T6N R4E

REGISTERED PROFESSIONAL ENGINEER 20961 STEVEN WALKER Date Signed 3/30/91 ARIZONA, U.S.A.

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR	27815C11 R.FREIER	2	7/91	CHANGES AS PER F.E.M.A 5/8/91 REVIEW	DES	SRW
CHK	S. WALKER					
APVD		NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

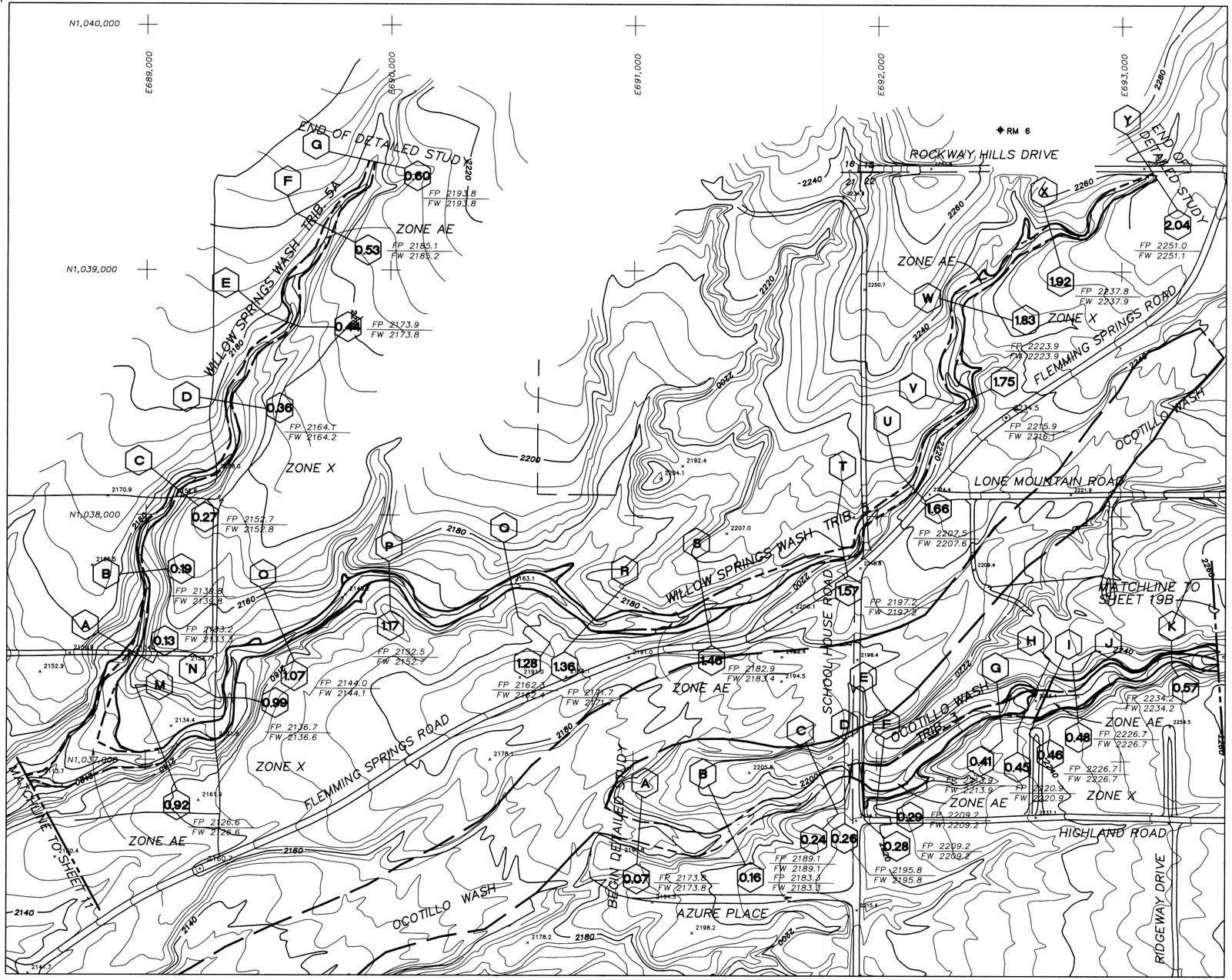
Topographic Mapping and Flood Insurance Study

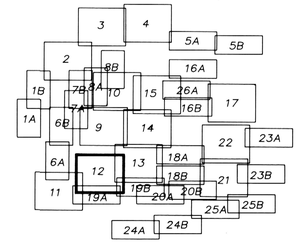
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH TRIB. 5 (STA 0.05 - 0.80)

SHEET 11
DWG NO. 27815C11.DWG
DATE MARCH 1990
PROJ NO. RDD27815.HJ

03-26-90 27815C12.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
6	2250.00	BRASS CAP IN HEADWALL, S73W, 616' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 21 T6N R4E

NE 1/4 SEC 21 T6N R4E
NW 1/4 SEC 22 T6N R4E

REGISTERED PROFESSIONAL ENGINEER — STEVEN R. WALKER — 20961 — ARIZONA U.S.A. — 3/1/91

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR	27815C12 R.FREIER	2	7/91	CHANGES AS PER F.E.M.A. 5/8/91 REVIEW	DES	SRW
CHK	S. WALKER					
APVD		NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

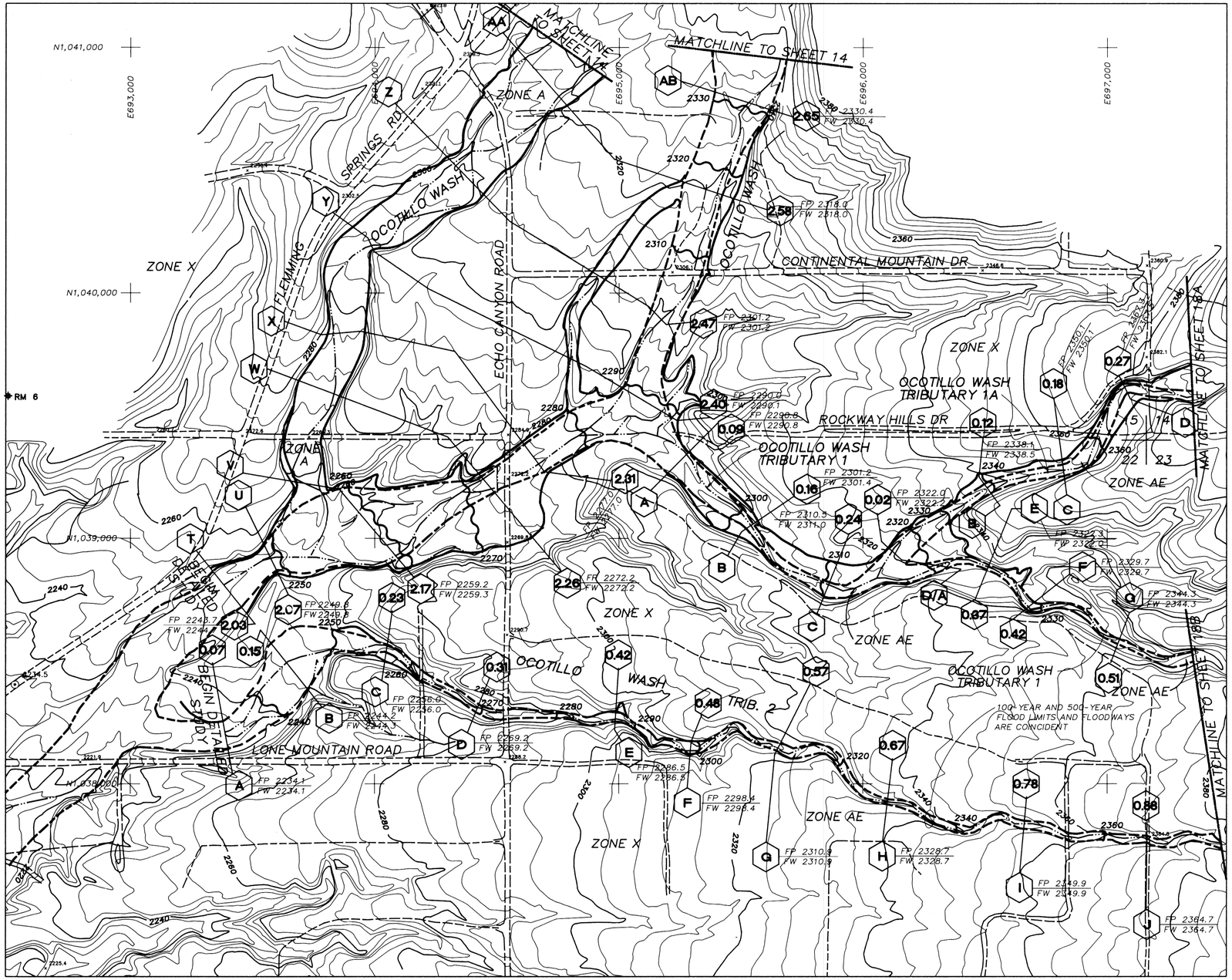
Topographic Mapping and Flood Insurance Study

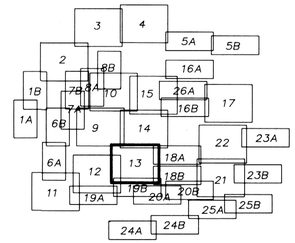
Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH TRIB. 5 (STA 0.83-2.04)
WILLOW SPRINGS WASH TRIB. 5A (STA 0.00-0.60)
OCOTILLO WASH TRIB. 3 (STA 0.0-0.6)

SHEET	12
DWG NO.	27815C12.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

03-26-90 27815C13.DWG





SHEET INDEX

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

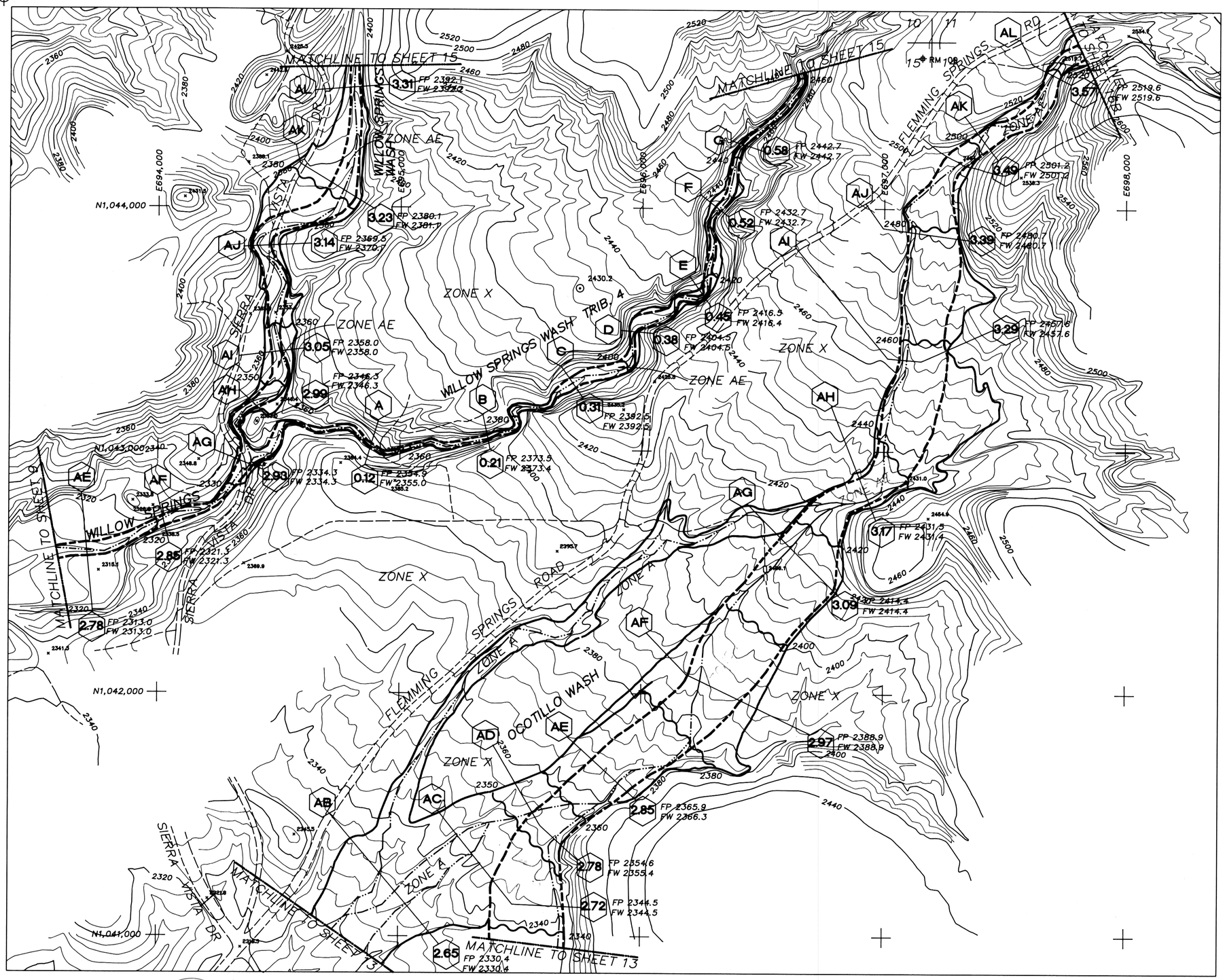
ERM NO.	ELEVATION	DESCRIPTION
6	2250.0	BRASS CAP IN HEADWALL, S73°W, 616' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 21 T6N R4E

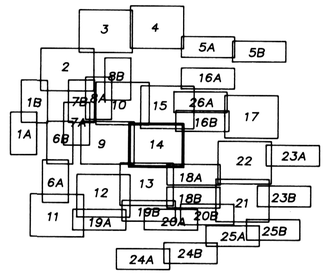
DSGN T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	Prepared For: **Flood Control District of Maricopa County**	Topographic Mapping and Flood Insurance Study
DR 27815C13 R.FREIER						Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.	Cave Creek and Tributaries Cave Creek, Arizona
CHK S. WALKER							
APVD	NO.	DATE	REVISION	BY	APVD		

OCOTILLO WASH (STA 2.03-2.58)
OCOTILLO WASH TRIB. 1 (STA 0.00-0.51)
OCOTILLO WASH TRIB. 1A (STA 0.00-0.27)
OCOTILLO WASH TRIB. 2 (STA 0.00-0.88)

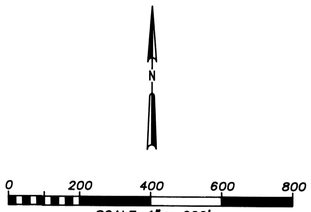
SHEET 13
DWG NO. 27815C13.DWG
DATE MARCH 1990
PROJ NO. RDD27815.HJ

03-26-90 27815C14.DWG





SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
9	2516.45	BRASS CAP IN STONE N20°E, 52' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 15 T6N R4E

N 1/2 SEC 15 T6N R4E
NW 1/4 SEC 14 T6N R4E

Registered Professional Engineer — Certificate No. 20961 — State of Arizona — U.S.A. — 3/1/91

CH2M HILL

DSGN	T. HUNZIKER / D. STOUGH
DR	27815C14 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
2	1/91	CHANGES AS PER F.E.M.A. 5/8/91 REVIEW	DES	SRW
3	8/91	CHANGES AS PER F.E.M.A. 5/8/91 REVIEW	DES	SRW

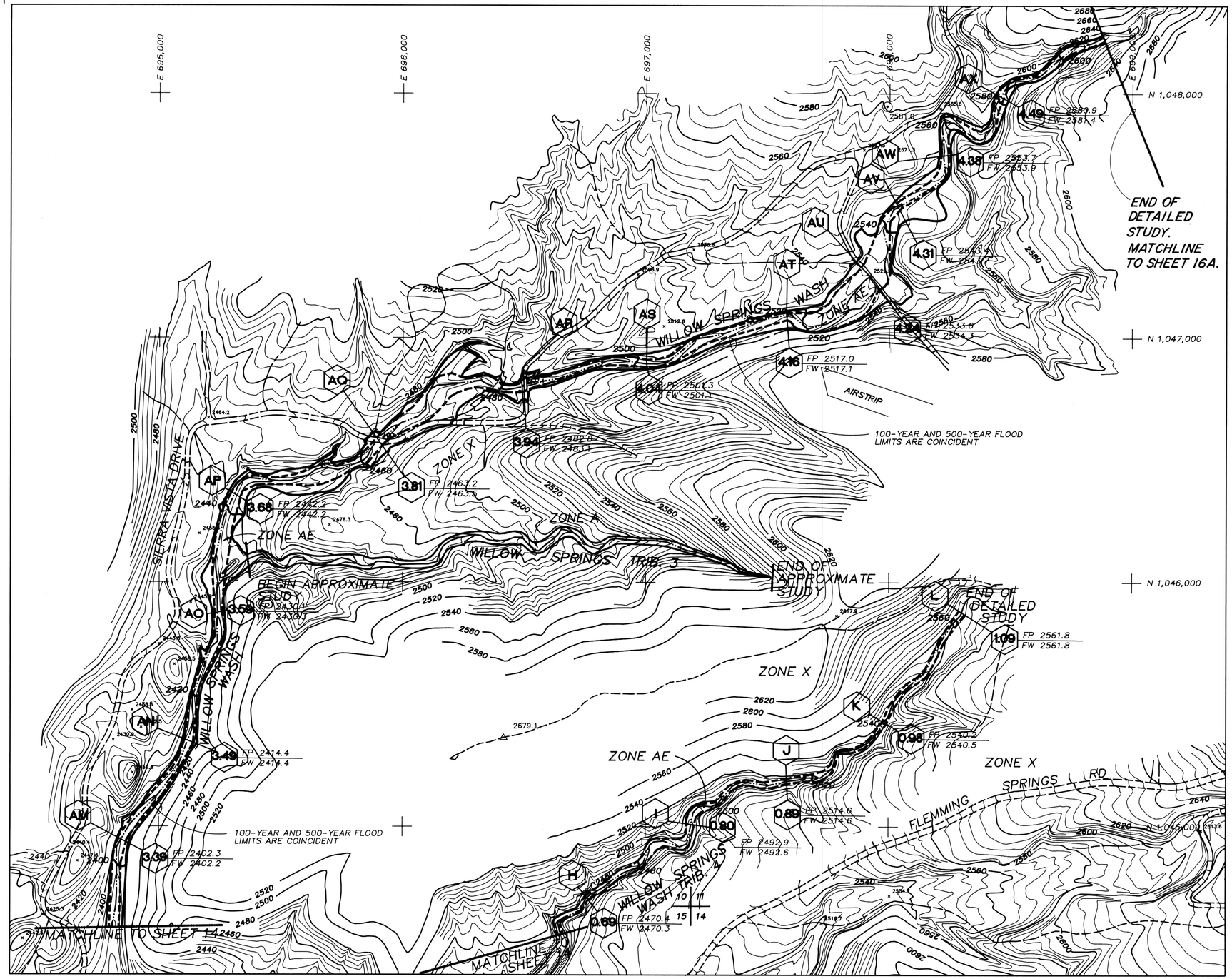
Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

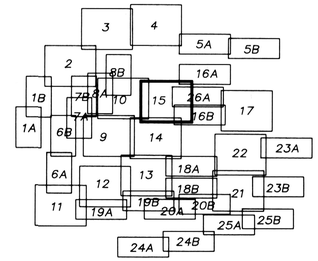
Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS (STA 2.78 - 3.31)
WILLOW SPRINGS TRIBUTARY 4 (STA 0.00 - 0.62)
OCOTILLO WASH (STA 2.65 - 3.57)

SHEET	14
DWG NO.	27815C14.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 10, T6N R4E
SW 1/4 SEC 11, T6N R4E

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH
DR	27815C15 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	BY	APVD

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS WASH (STA 3.32-4.58) WILLOW SPRINGS WASH TRIBUTARY 4 (STA 0.68-1.09)

SHEET	15
DWG NO.	27815C15.DWG
DATE	MARCH 1990
PROJ NO.	RDD27815.H3

03-26-90 27815C16.DWG

END OF APPROXIMATE STUDY

N1,050,000 E699,000 E700,000 E701,000 E702,000 E703,000

2 | 1
11 | 12

ZONE X

ZONE A

RM 10

WILLOW SPRINGS WASH

N1,040,000

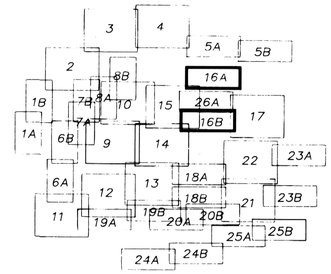
BEGIN DETAILED STUDY

ZONE X

ZONE A

MATCHLINE TO SHEET 16B

SHEET 16A



SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

RM 11

N1,046,000 E698,000 E699,000 E700,000 E701,000

OCOTILLO WASH

FLEMMING SPRINGS ROAD

ZONE X

ZONE AE

ZONE A

100 YEAR AND 500 YEAR FLOOD LIMITS AND FLOODWAY ARE COINCIDENT

4.19 FP 2701.9 FW 2701.9

4.28 FP 2733.1 FW 2733.1

4.38 FP 2761.1 FW 2760.9

4.42

4.46 FP 2775.8 FW 2775.8

4.07 FP 2658.5 FW 2658.5

3.99 FP 2629.6 FW 2630.1

3.93 FP 2613.5 FW 2613.6

3.83 FP 2586.0 FW 2586.0

3.74 FP 2564.5 FW 2564.6

3.65 FP 2538.2 FW 2538.2

MATCHLINE TO SHEET 16A

END OF DETAILED STUDY
BEGIN APPROXIMATE STUDY

11 | 12
14 | 13

SHEET 16B

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
10	2937.19	BRASS CAP IN CONCRETE N86°E, 1500' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 11 T6N R4E
11	2762.78	BRASS CAP IN STONE N22°E, 4100' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 11 T6N R4E

N 1/2 SEC 11 T6N R4E

Registered Professional Engineer — CERTIFICATE NO. 20961 — STATE OF ARIZONA — Date signed 3/31/91

CH2M HILL

DSGN	T. HUNZIKER D. STOUGH	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR	27815C14 R.FREIER					
CHK	S.WALKER					
APVD		NO.	DATE	REVISION	BY	APVD

Prepared For: **Flood Control District of Maricopa County**

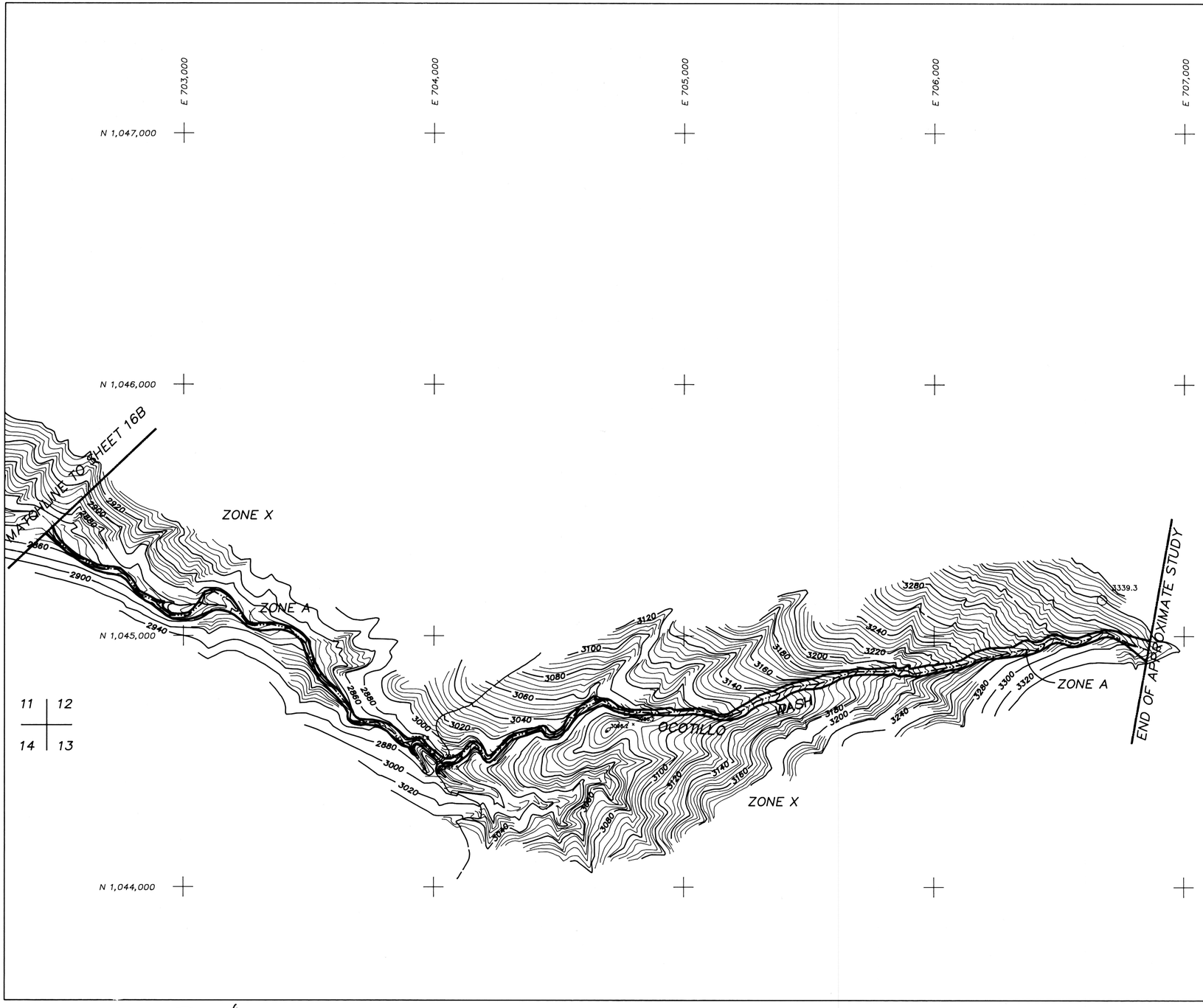
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

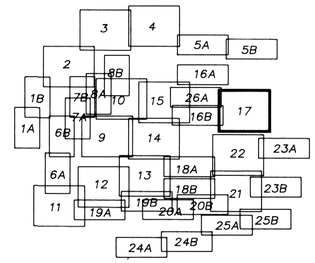
Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

WILLOW SPRINGS (STA 4.60 - 5.10)
OCOTILLO WASH (STA 3.62 - 4.61)

SHEET 16
DWG NO. 27815C16.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

S 1/2 SEC 12 T6N R4E

DSGN	T. HUNZIKER D. STOUGH	NO.	DATE	REVISION	BY APVD
DR	27815C17 R.FREIER				
CHK	S. WALKER				
APVD					

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

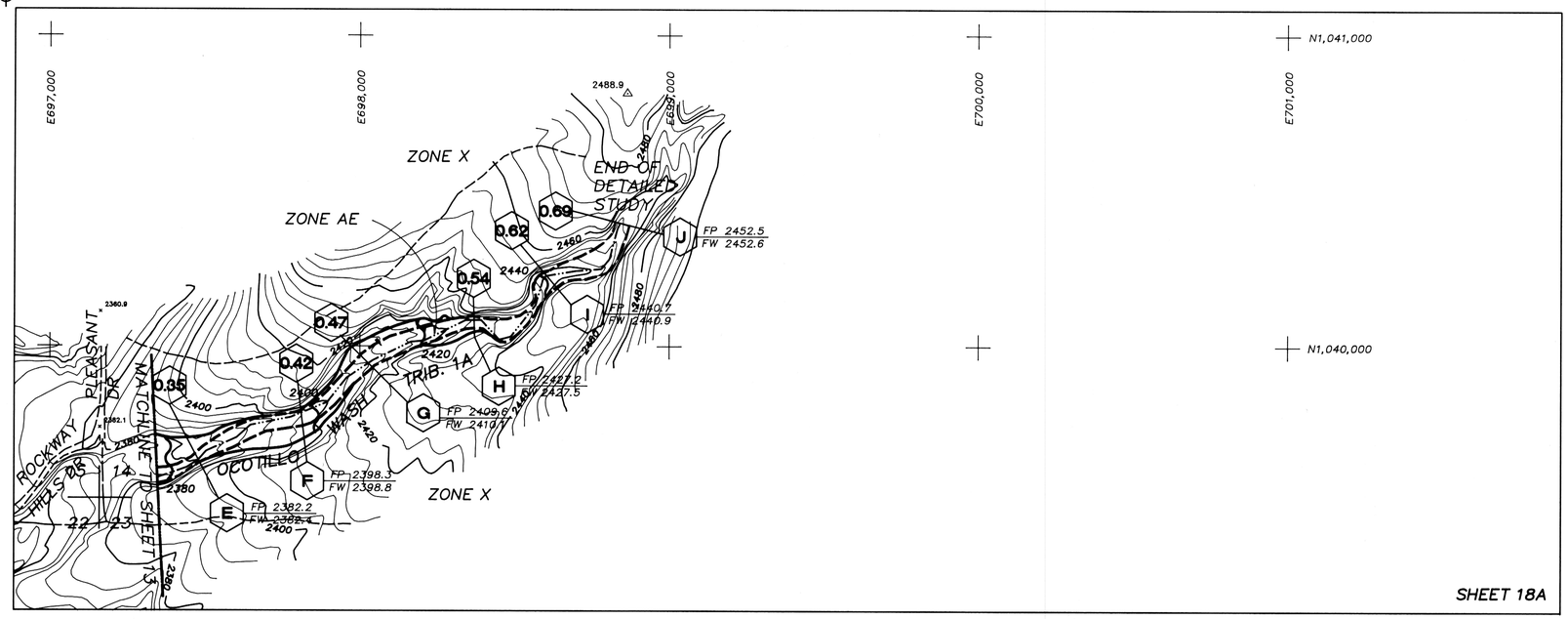
Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

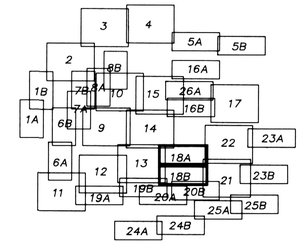
OCOTILLO WASH (STA 4.63 - 5.61)

SHEET 17
DWG NO. 27815C17.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

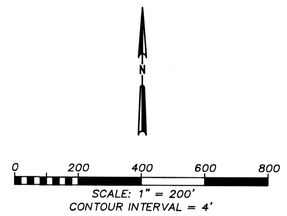
03-27-90 27815C18.DWG



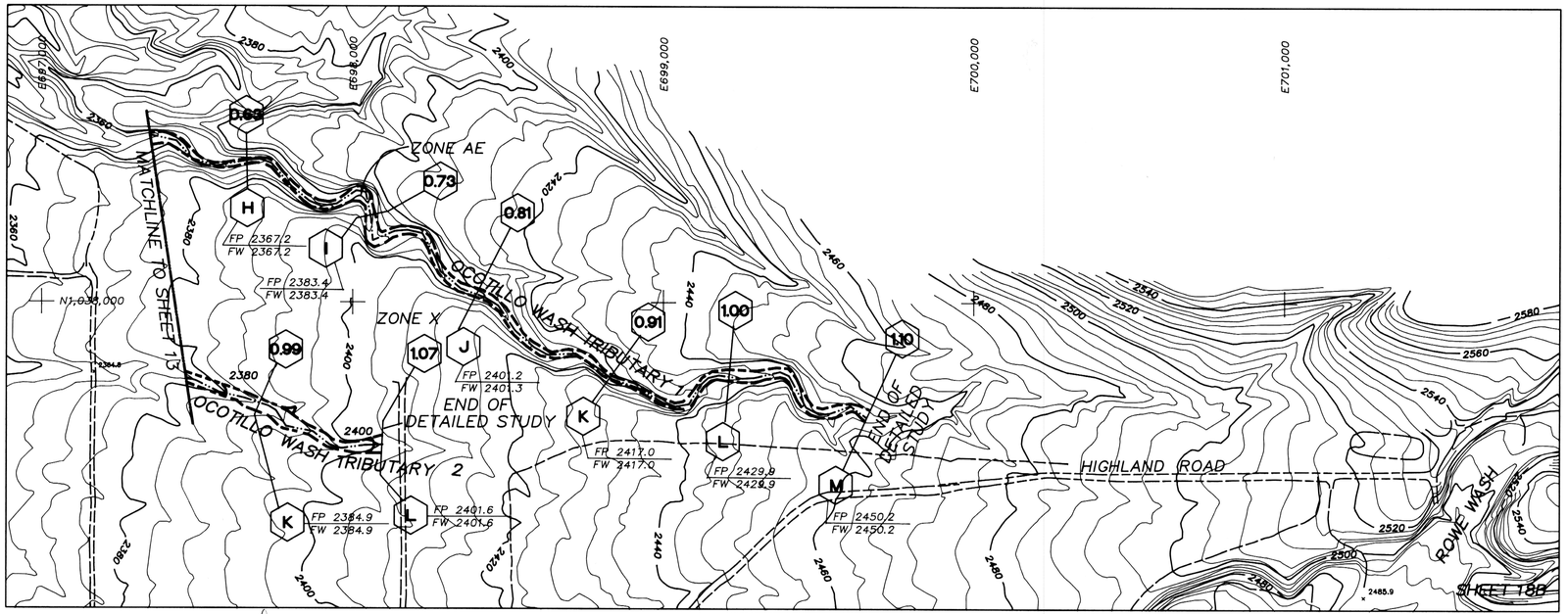
SHEET 18A



SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

S 1/2 SEC 14 T6N R4E
N 1/2 SEC 23 T6N R4E

Registered Professional Engineer — Certificate Expires 6-30-92 — 20961 STEVEN K. WALKER — State of Arizona, U.S.A.

CH2M HILL

DSGN T. HUNZIKER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
DR D. STOUGH 27815C18 R.FREIER					
CHK S. WALKER					
APVD	NO.	DATE	REVISION	BY	APVD

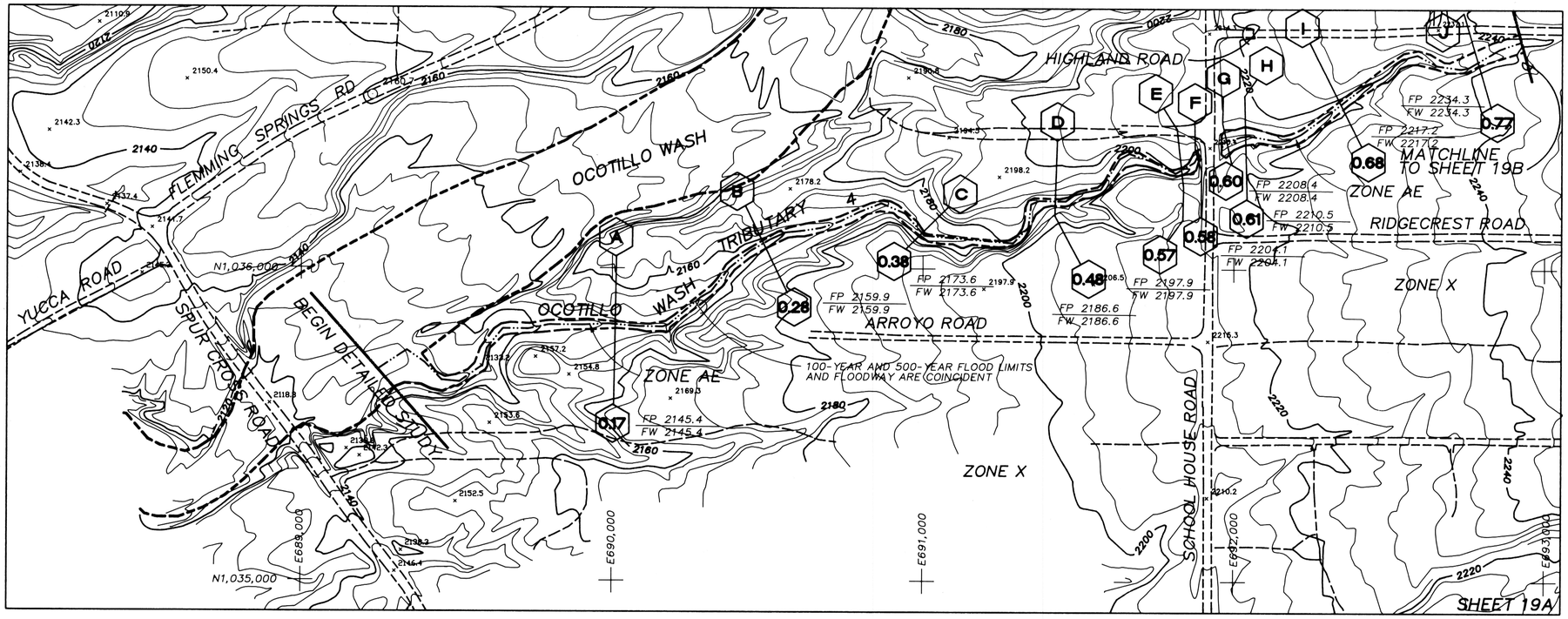
Prepared For: **Flood Control District of Maricopa County**
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

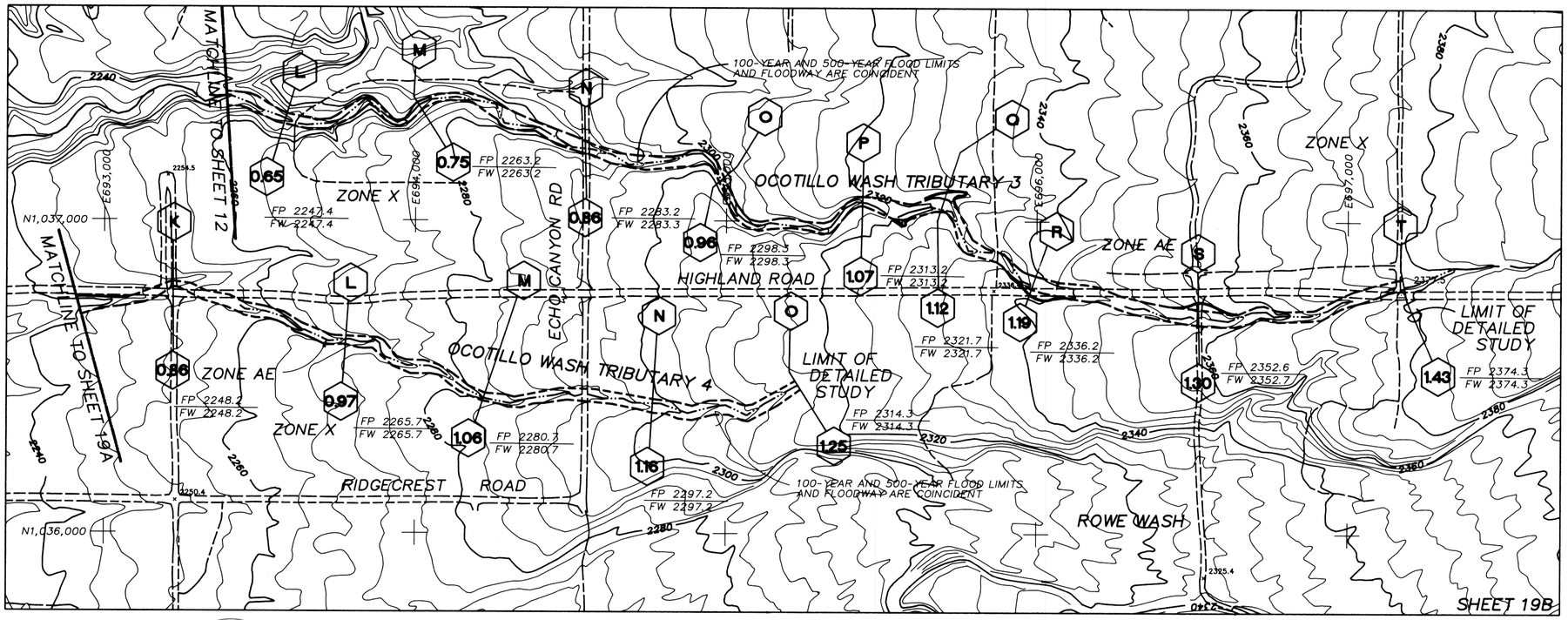
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

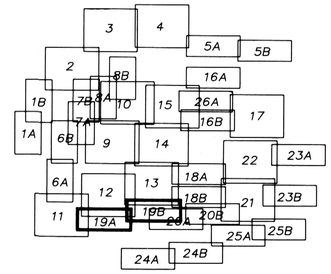
OCOTILLO TRIBUTARY 1 (STA 0.60-1.10)
OCOTILLO TRIBUTARY 1A (STA 0.95-1.07)
OCOTILLO TRIBUTARY 2 (STA 0.35-0.71)

SHEET 18
DWG NO. 27815C18.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

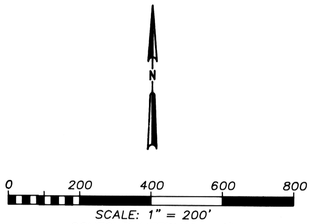
03-22-90 27815C19.DWG







SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
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- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
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- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

SE 1/4 SEC 21, T6N R4E
SEC 22, T6N R4E

DSGN T. HUNZIKER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	
DR 27815C19 D. STOUGH R.FREIER						
CHK S.WALKER						
APVD	NO.	DATE	REVISION	BY	APVD	

CH2M HILL

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

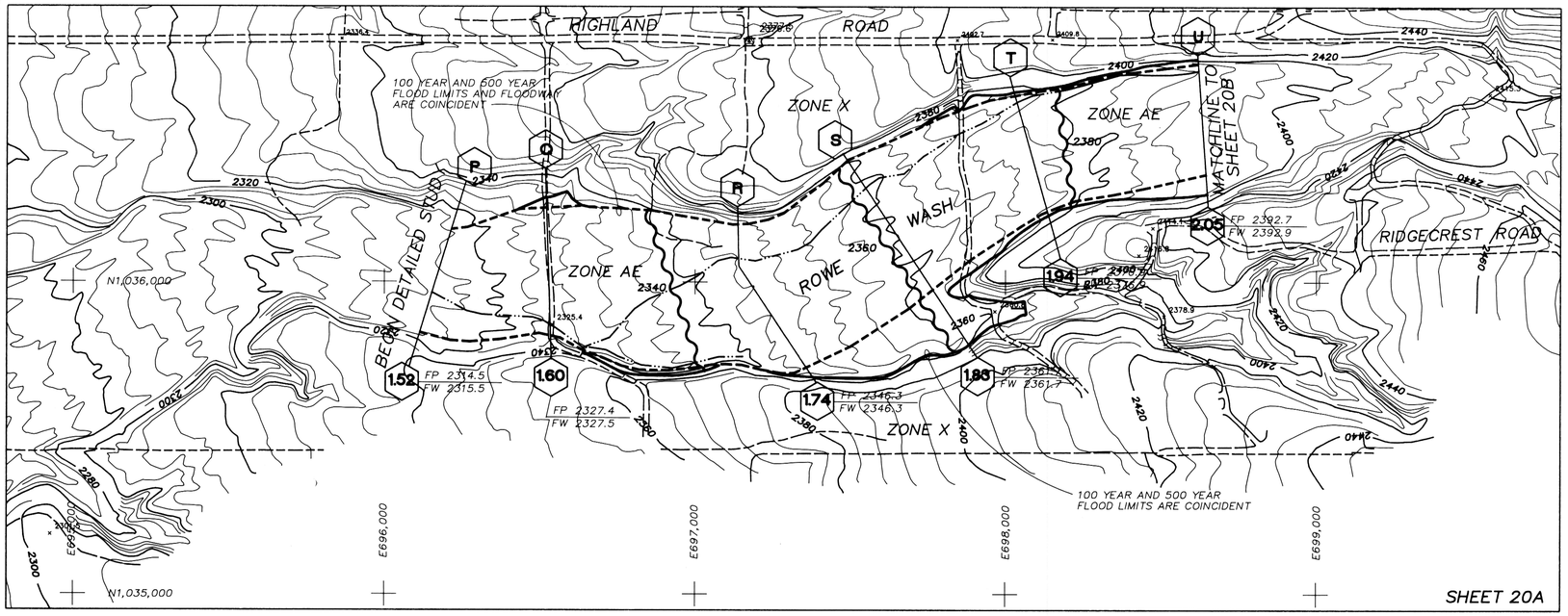
Topographic Mapping and Flood Insurance Study

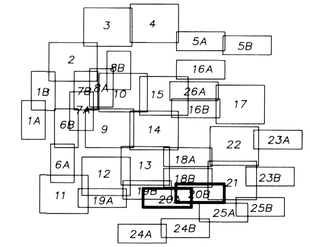
Cave Creek and Tributaries
Cave Creek, Arizona

OCOTILLO WASH TRIBUTARY 3
OCOTILLO WASH TRIBUTARY 4

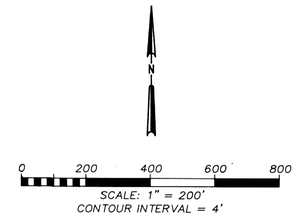
SHEET 19
DWG NO. 27815C19.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-27-90 27815C20.DWG

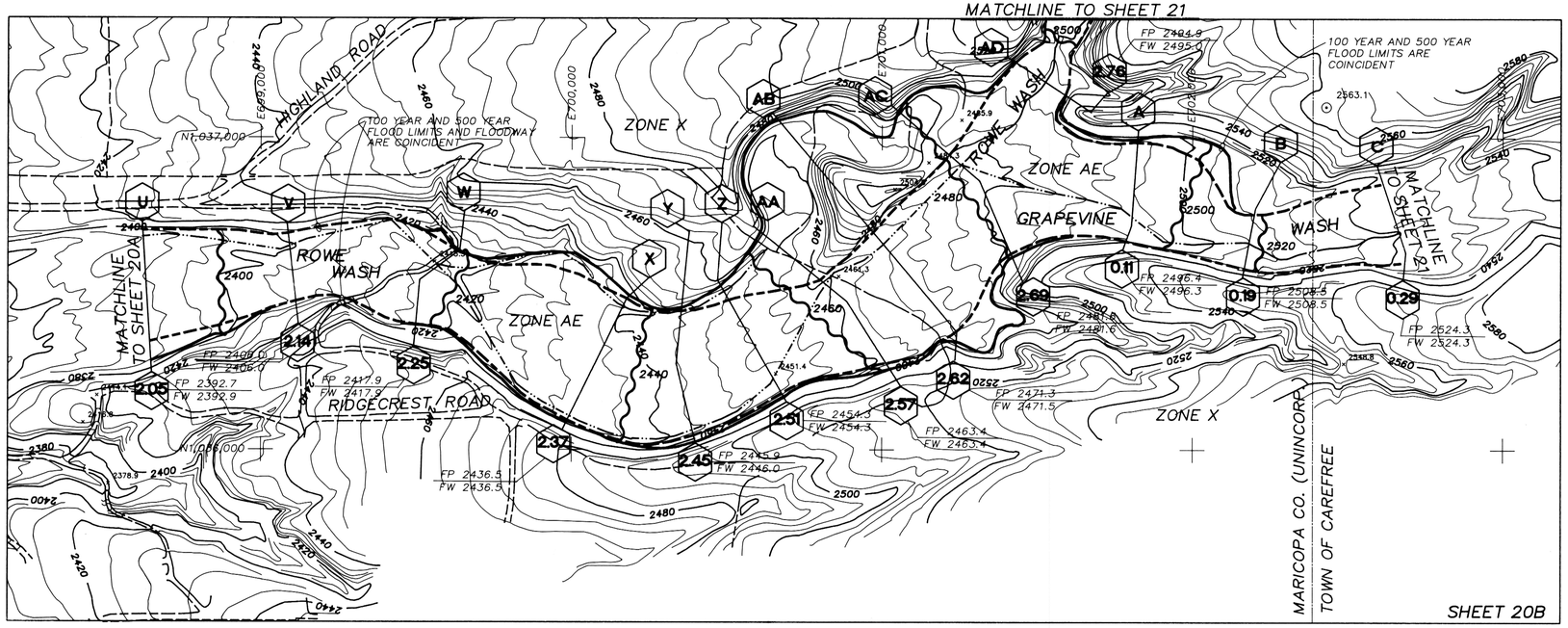




SHEET INDEX



MATCHLINE TO SHEET 21



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET

SE 1/4 SEC 22, T6N R4E
SEC 23, T6N R4E

DSGN	T. HUNZIKER, D. STOUGH
DR	27815C20 R.FREIER
CHK	S. WALKER
APVD	

NO.	DATE	REVISION	DES BY	SRW APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW		

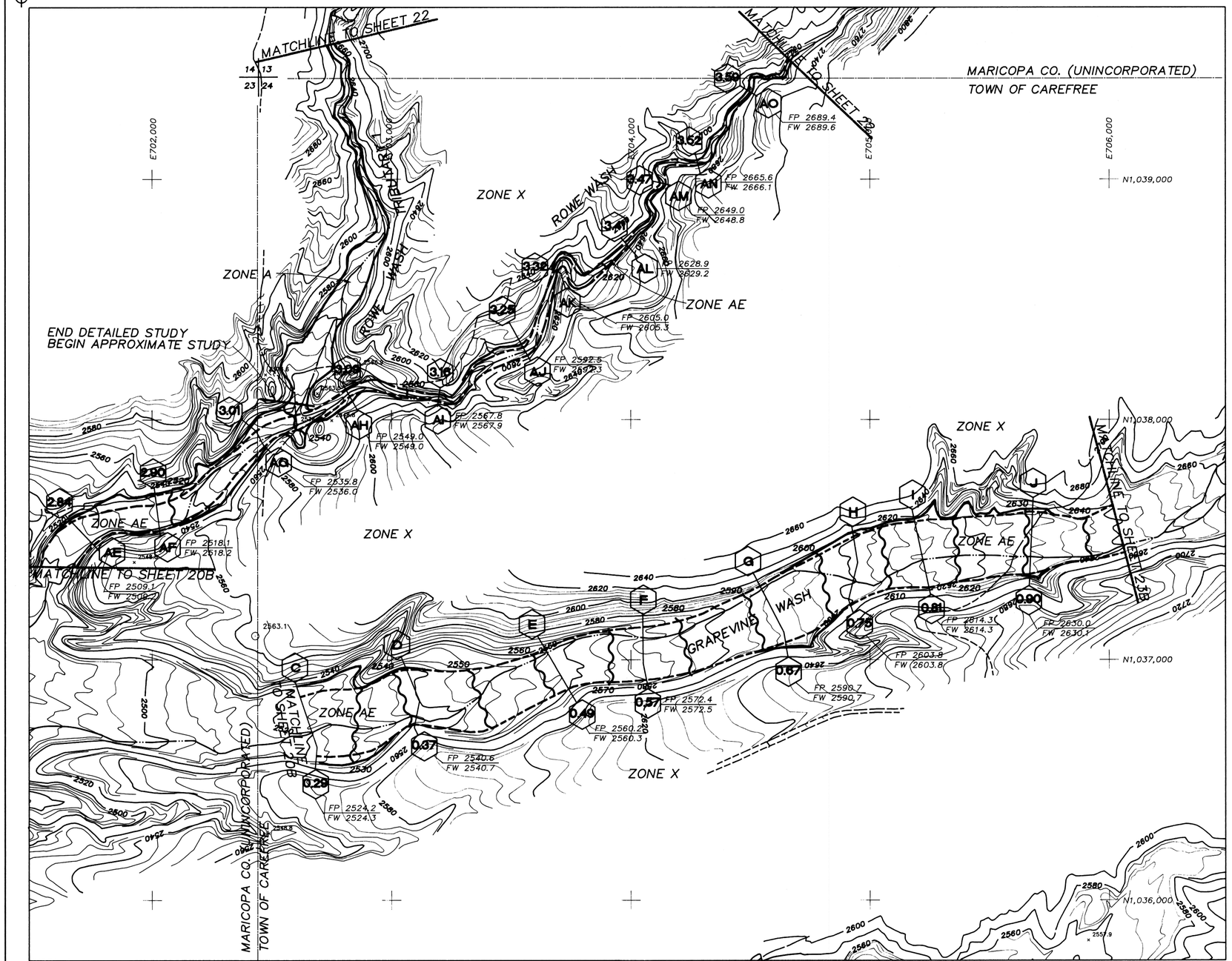
Prepared For: **Flood Control District of Maricopa County**
Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.

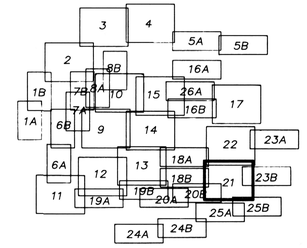
Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

ROWE WASH (STA 1.52 - 2.76)
GRAPEVINE WASH (STA 0.00 - 0.29)

SHEET 20
DWG NO. 27815C20.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-21-90 27815C21.DWG





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

N 1/2 SEC 24, T6N R4E
E 1/2 SEC 23, T6N R4E

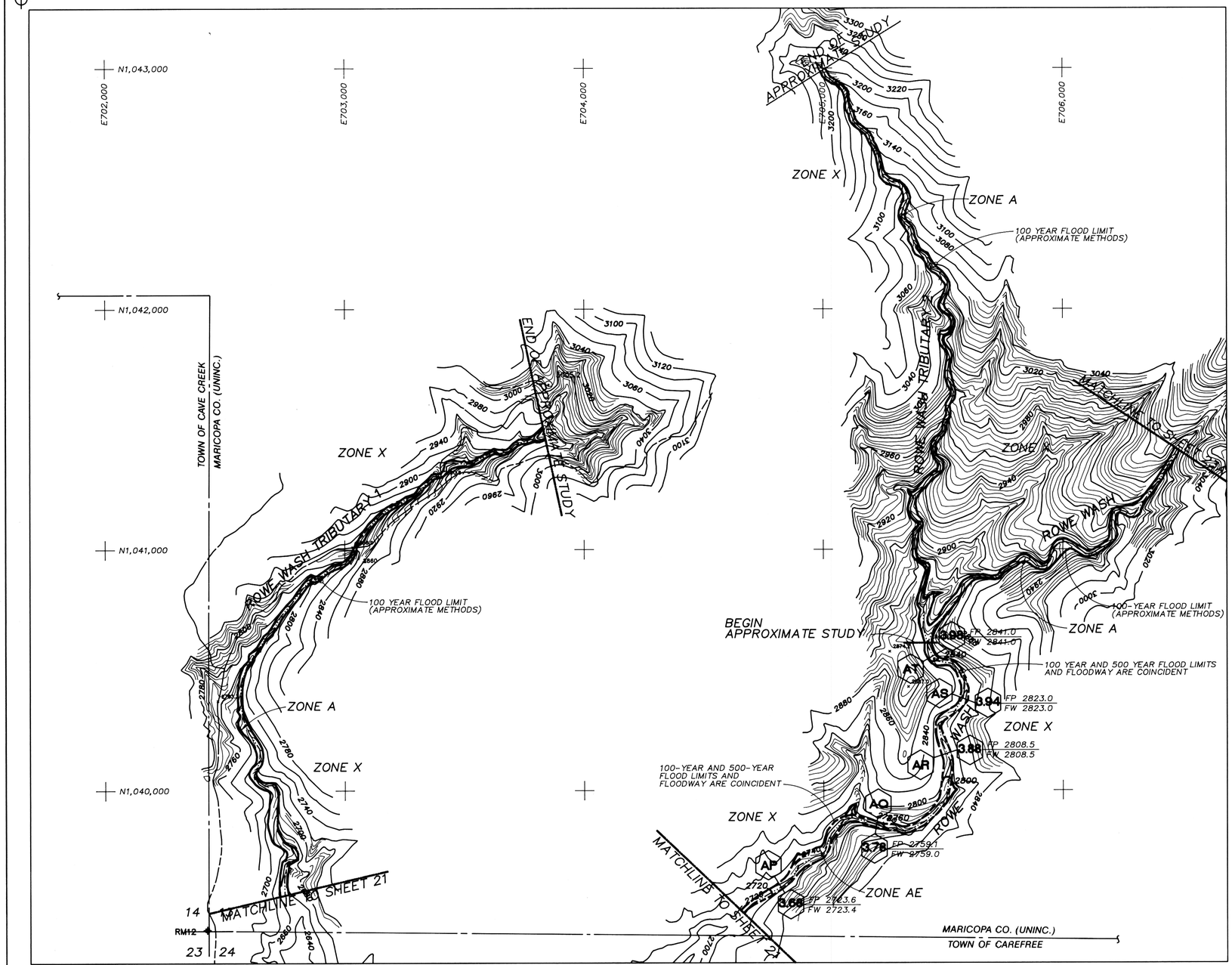
DSGN T. HUNZIKER	1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW	Prepared For: **Flood Control District of Maricopa County**
DR D. STOUGH 27815C21 R.FREIER						Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.
CHK S. WALKER						
APVD	NO.	DATE	REVISION	BY	APVD	

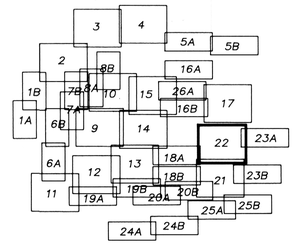
Topographic Mapping and Flood Insurance Study

Cave Creek and Tributaries
Cave Creek, Arizona

ROWE WASH (STA 2.84 - 3.59)
ROWE WASH TRIBUTARY 1
GRAPEVINE WASH (STA 0.29 - 0.90)

SHEET 21
DWG NO. 27815C21.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3





SHEET INDEX

N

0 200 400 600 800

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
12	2761.42	BRASS CAP IN STONE N68°E, 45' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 23 T6N R4E

SW 1/4 SEC 13, T6N R4E

DSGN T. HUNZIKER
D. STOUGH
DR 27815C22 R.FREIER
CHK S. WALKER
APVD

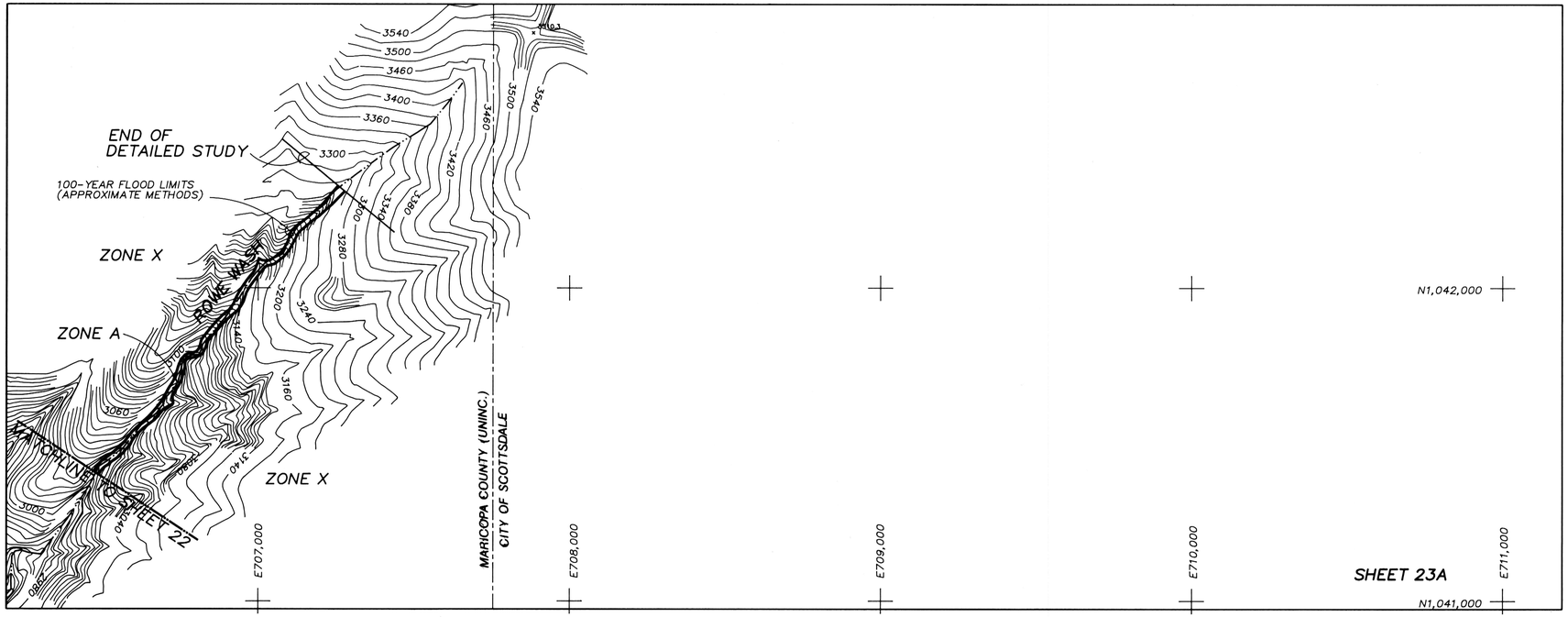
NO.	DATE	REVISION	BY	APVD

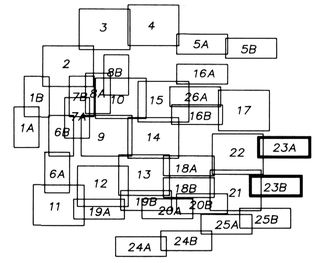
Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

Topographic Mapping and Flood Insurance Study
Cave Creek and Tributaries
Cave Creek, Arizona

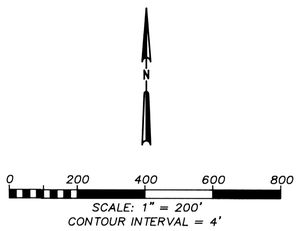
ROWE WASH (STA 3.68 - 3.98)
ROWE WASH TRIBUTARY 1
ROWE WASH TRIBUTARY 2

SHEET 22
DWG NO. 27815C22.DWG
DATE MARCH 1990
PROJ NO. RDD27815.HJ





SHEET INDEX

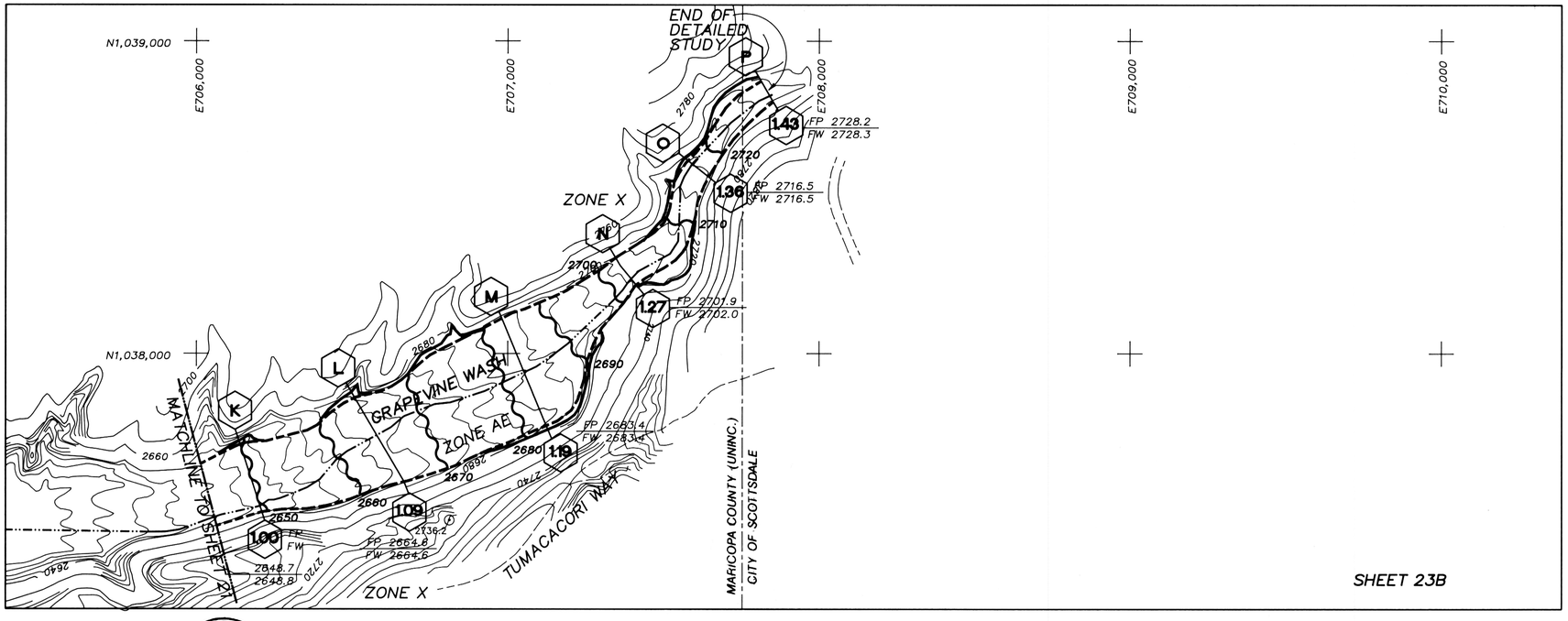


LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.



E 1/2 SEC 13, T6N R4E
E 1/2 SEC 24, T6N R4E

Registered Professional Engineer — Certificate No. 20961 — Steven M. Walker — 6-30-90 — Arizona U.S.A.

CH2M HILL

DSGN T. HUNZIKER D. STOUGH						
DR 27815C23 R.FREIER						
CHK S. WALKER						
APVD	NO.	DATE	REVISION	BY	APVD	

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

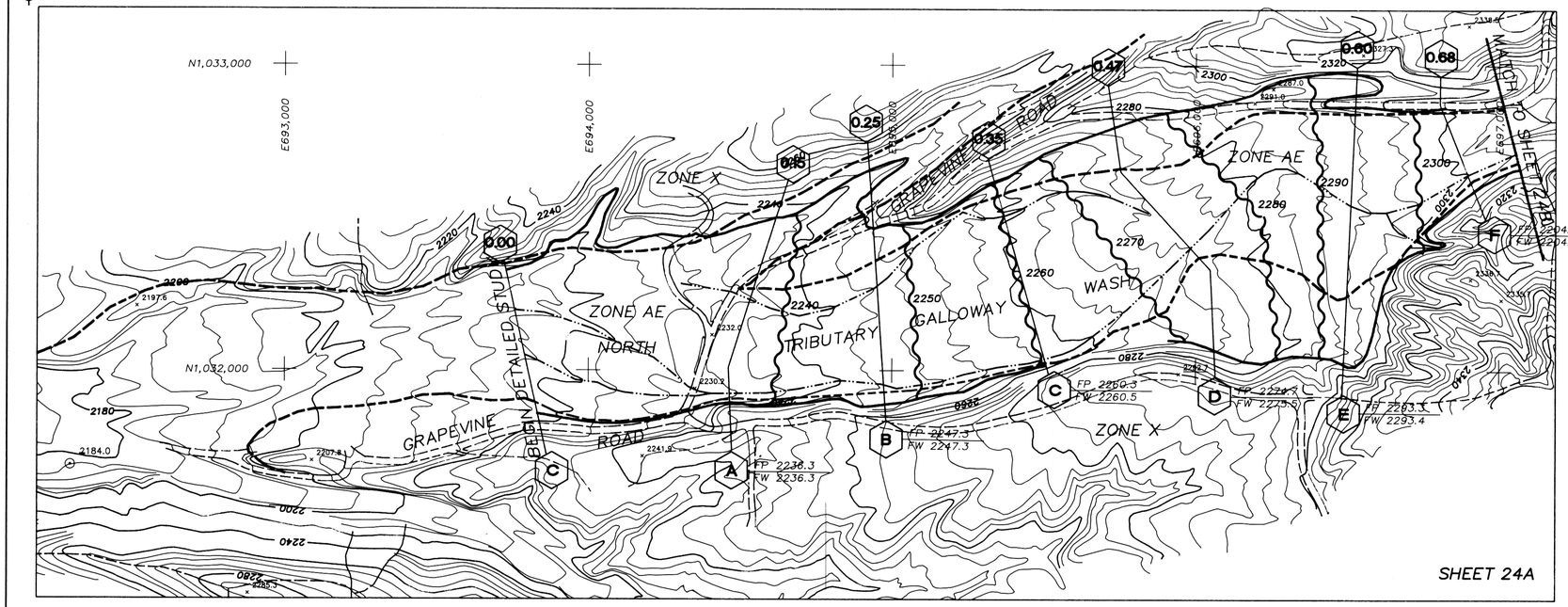
Topographic Mapping and Flood Insurance Study

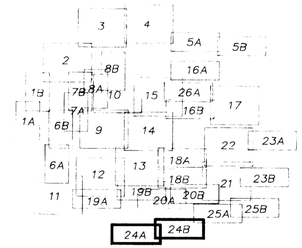
Cave Creek and Tributaries
Cave Creek, Arizona

ROWE WASH
GRAPEVINE WASH (STA 1.00 - 1.43)

SHEET 23
DWG NO. 27815C23.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

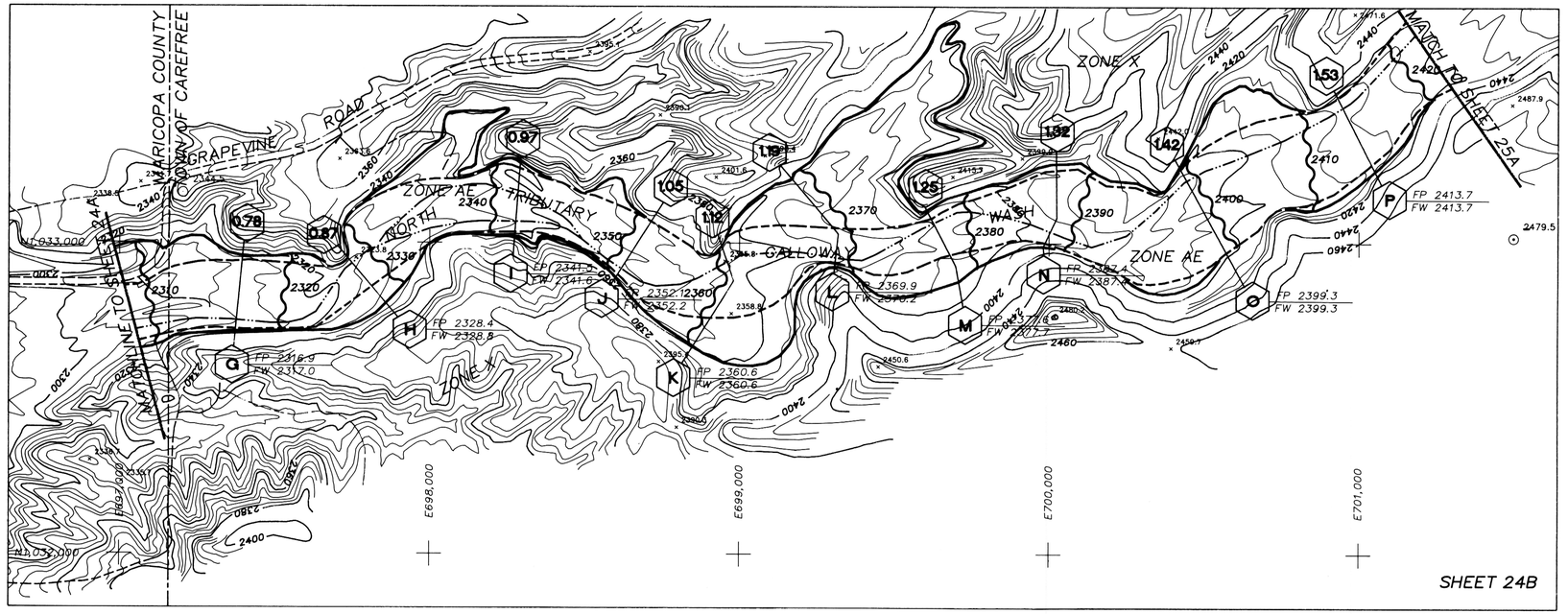
03-27-90 27815C24.DWG





SHEET INDEX

SCALE: 1" = 200'
CONTOUR INTERVAL = 4'



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- EXISTING FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

7	2167.08	BRASS CAP IN HEADWALL S10E, 68?' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 33 T6N R4E
8	2406.61	BRASS CAP IN HEADWALL N85W, 1708' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 27 T6N R4E

SEC 27 T6N R4E
SEC 26 T6N R4E

DSGN T. HUNZIKER
D. STOUGH
DR 27815C24
R.FREIER
CHK S. WALKER
APVD

NO.	DATE	REVISION	BY	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	DES	SRW
2	7/91	CHANGES AS PER F.E.M.A 5/8/91 REVIEW	DES	SRW

Prepared For:
Flood Control District of Maricopa County
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

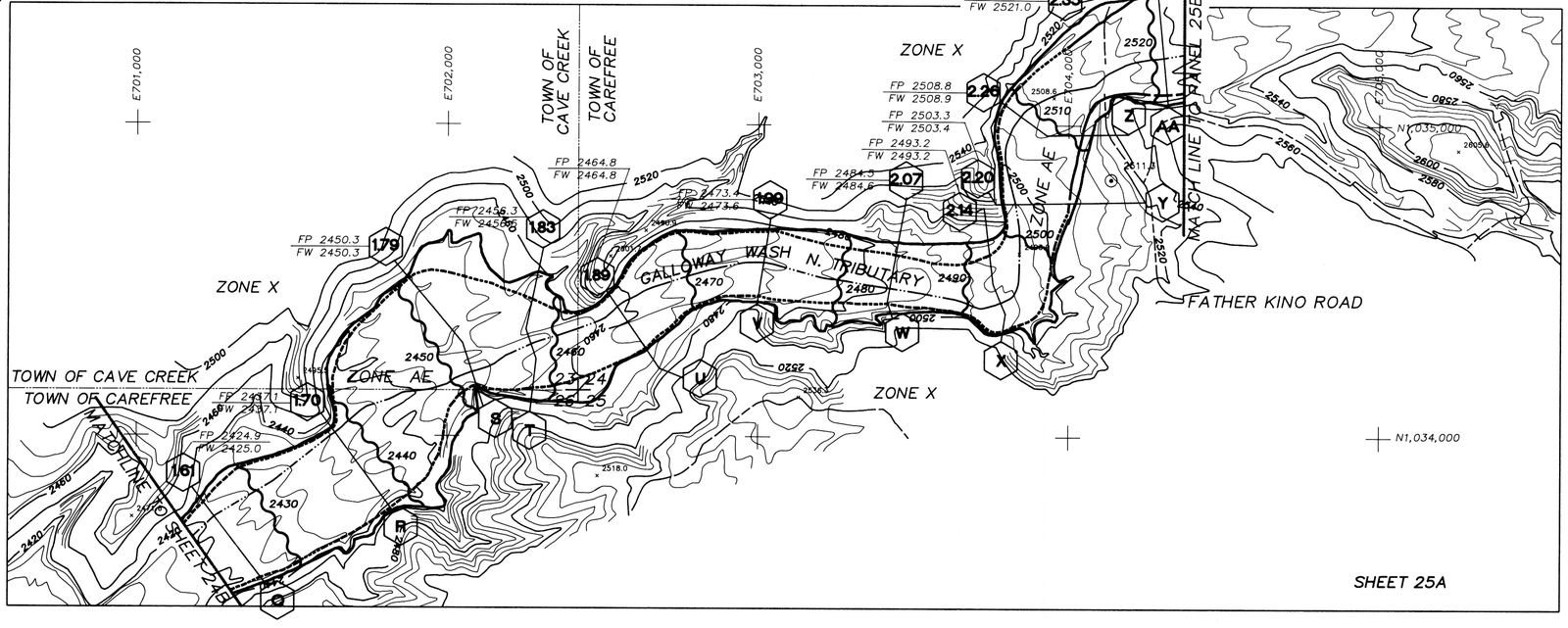
Topographic Mapping and Flood Insurance Study

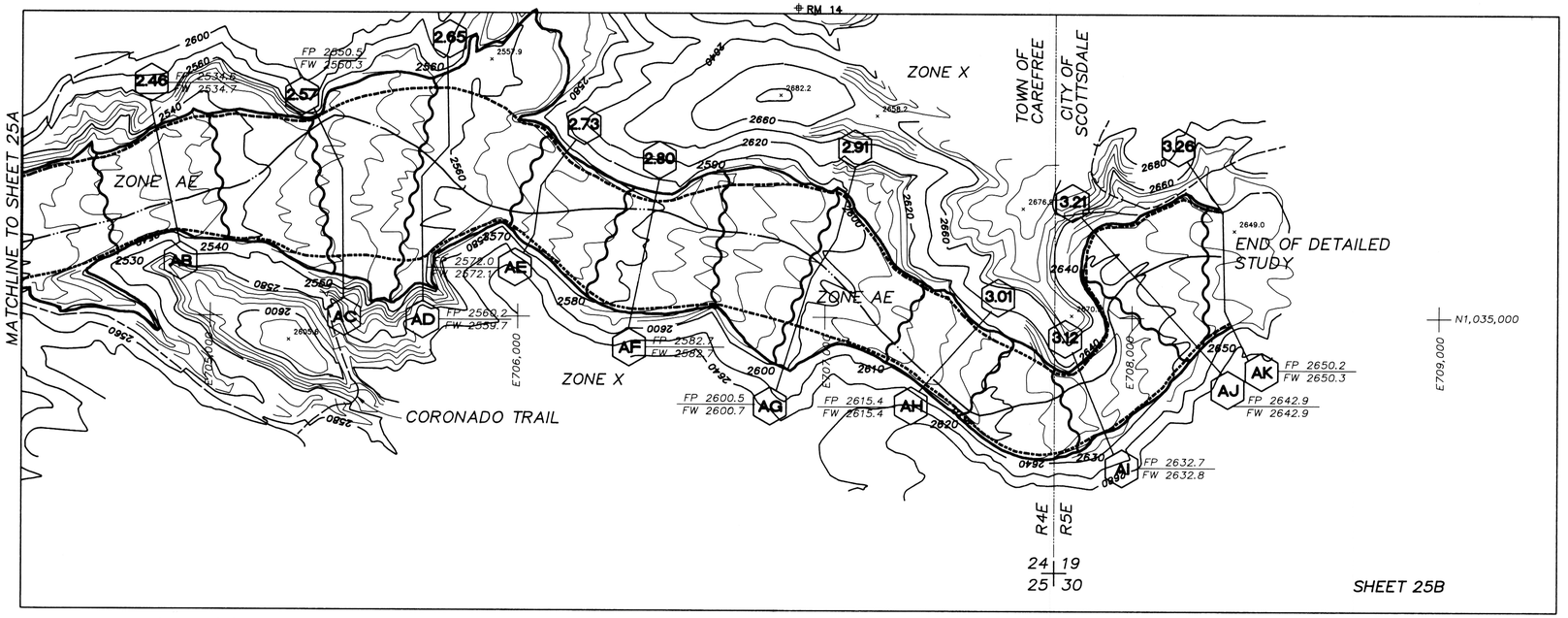
Cave Creek and Tributaries
Cave Creek, Arizona

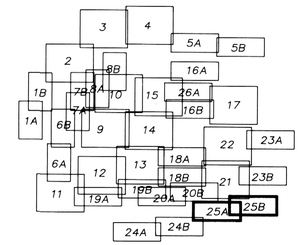
NORTH TRIBUTARY - GALLOWAY WASH
(STA 0.00 - 0.68)
(STA 0.78 - 1.53)

SHEET 24
DWG NO. 27815C24.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

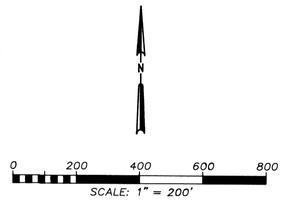
03-27-90 27815C25.DWG







SHEET INDEX



LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
13	2443.70	BRASS CAP IN HEADWALL N04W, 277' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 35 T6N R4E
14	2635.91	BRASS CAP IN CURB N35E, 625' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 25 T6N R4E

ELEVATION REFERENCE MARKS HAVE NOT BEEN ESTABLISHED WITHIN THE LIMITS OF THIS SHEET.

NE 1/4 SEC 26, T6N R4E
SE 1/4 SEC 23, T6N R4E
S 1/2 SEC 24, T6N R4E
SW 1/4 SEC 19, T6N R5E

NO.	DATE	REVISION	DES	APVD
1	9/90	CHANGES AS PER F.E.M.A. 6/29/90 REVIEW	SRW	

DSGN T. HUNZIKER
D. STOUGH
DR 27815C25
R.FREIER
CHK S. WALKER
APVD

Prepared For: **Flood Control District of Maricopa County**
Prepared By: CH2M HILL, Inc.
Aerial Mapping, Inc.
Greiner, Inc.

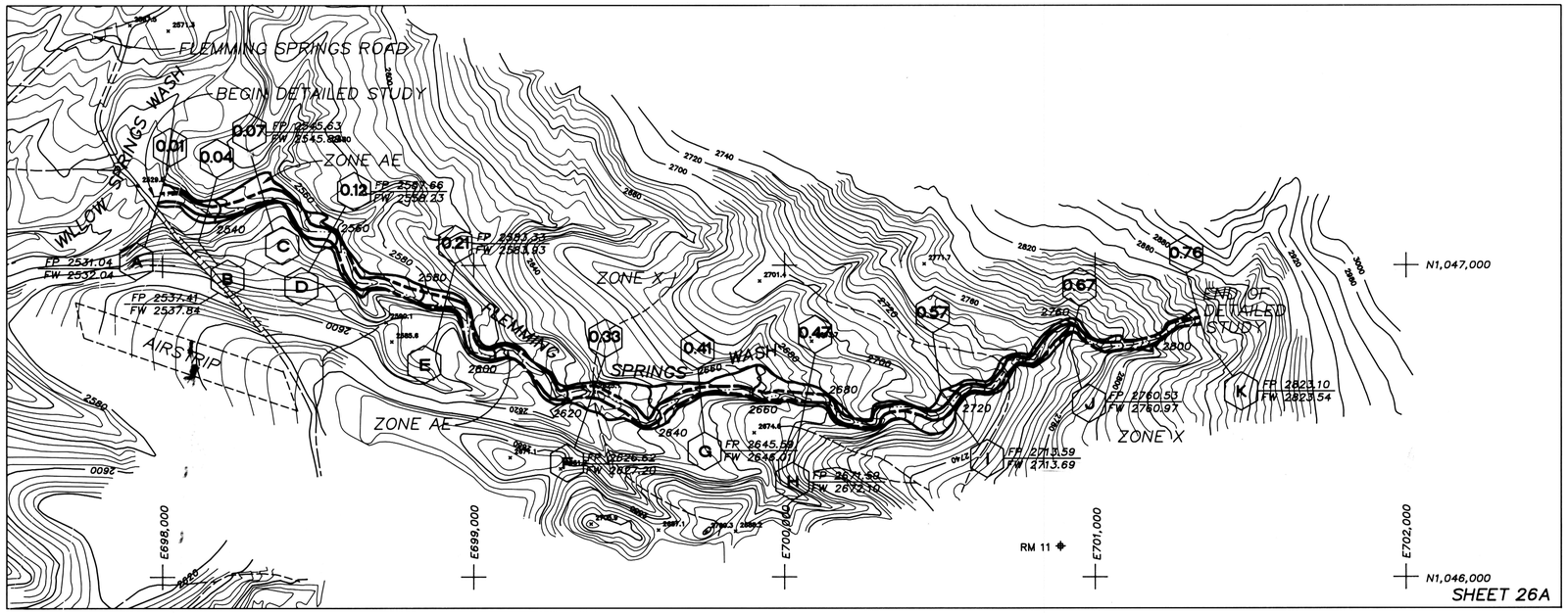
Topographic Mapping and Flood Insurance Study

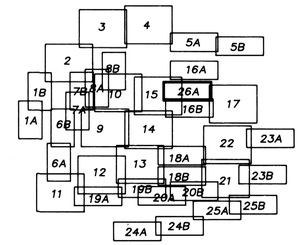
Cave Creek and Tributaries
Cave Creek, Arizona

GALLOWAY WASH NORTH TRIBUTARY (STA 1.61 - 3.26)

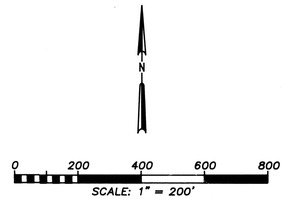
SHEET 25
DWG NO. 27815C25.DWG
DATE MARCH 1990
PROJ NO. RDD27815.H3

03-15-90 27815C26.DWG





SHEET INDEX



SCALE: 1" = 200'
CONTOUR INTERVAL = 4'

LEGEND

- STREAM CENTERLINE
- 100-YEAR FLOOD LIMIT
- 500-YEAR FLOOD LIMIT
- FLOODWAY LIMIT
- 0.00 — DISTANCE FROM CONFLUENCE (MILES)
- AA — CROSS SECTION IDENTIFICATION
- RM 2 — ELEVATION REFERENCE MARK
- 2265 — BASE FLOOD ELEVATION
- ZONE AE — ZONE DESIGNATION
- FP 2831.6 / FW 2832.5 — 100 - YEAR FLOODPLAIN / FLOODWAY WATER SURFACE ELEVATIONS

ELEVATION REFERENCE MARKS

ERM NO.	ELEVATION	DESCRIPTION
11	2762.78	BRASS CAP IN STONE N22°E, 4100' TO THE APPROXIMATE NORTHEAST CORNER OF SECTION 11 T6N R4E

SEC 11, T6N R4E

	DSGN T. HUNZIKER D. STOUGH					Prepared For: Flood Control District of Maricopa County		Topographic Mapping and Flood Insurance Study	FLEMMING SPRINGS WASH (STA 0.00 - 0.76)	SHEET 26
CH2M HILL	DR 27815C26 R.FREIER					Prepared By: CH2M HILL, Inc. Aerial Mapping, Inc. Greiner, Inc.		Cave Creek and Tributaries Cave Creek, Arizona		DWG NO. 27815C26.DWG
	CHK S. WALKER									DATE MARCH 1990
	APVD	NO.	DATE	REVISION	BY	APVD				PROJ NO. RDD27815.H3