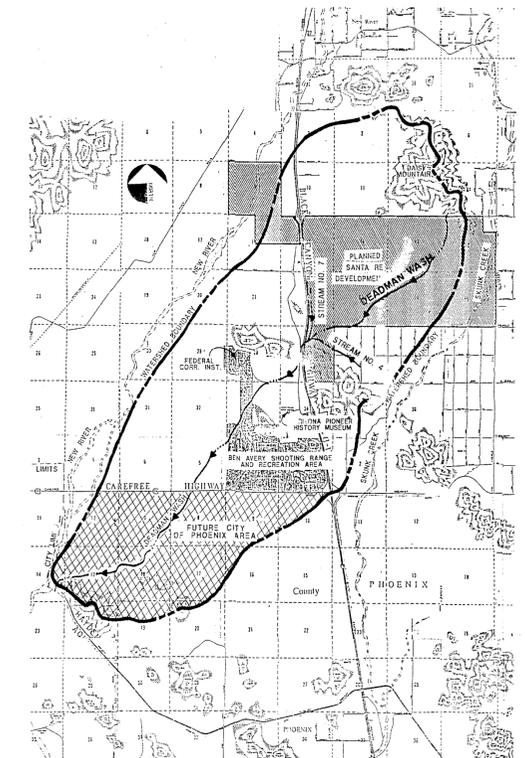
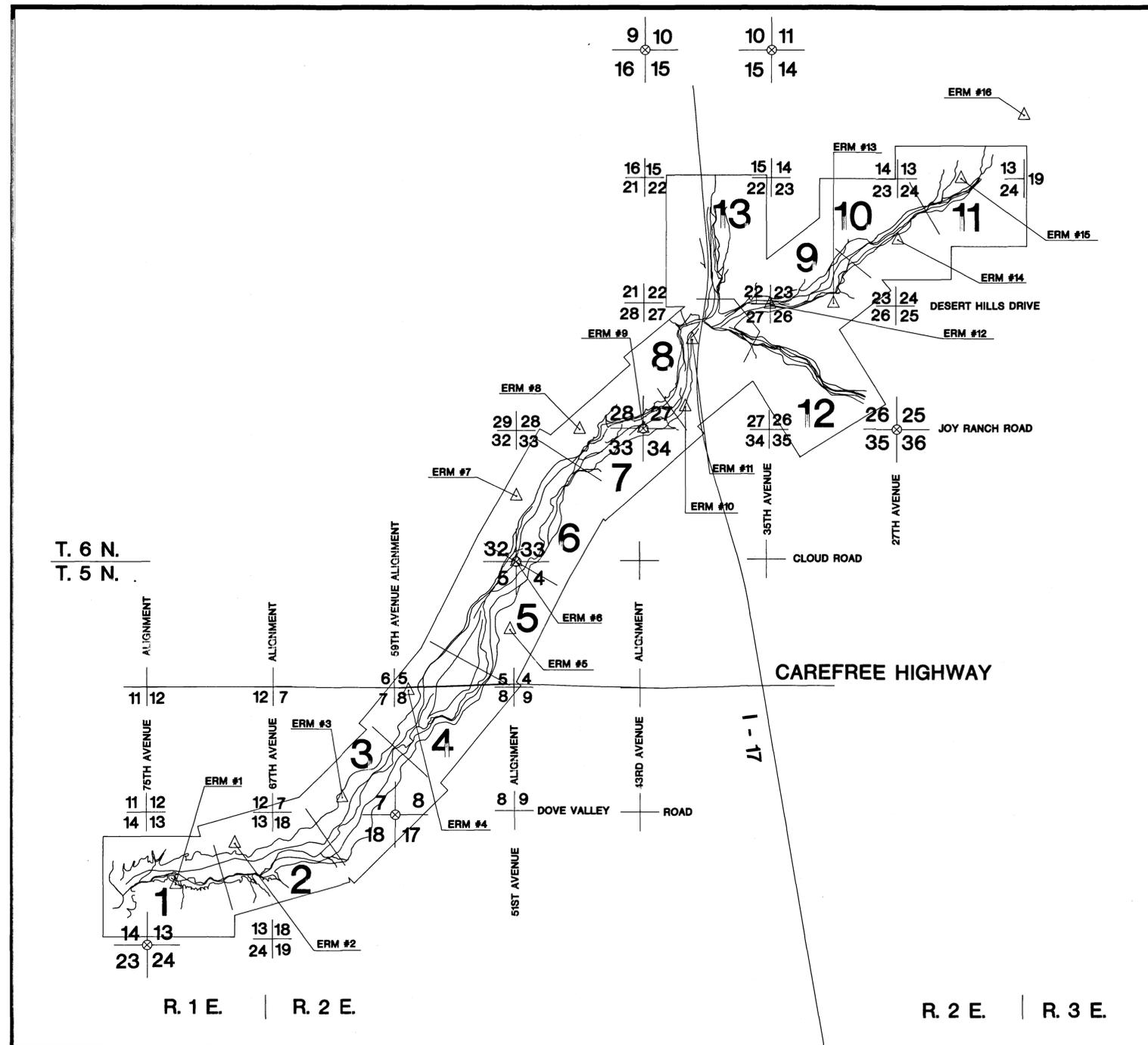


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY DEADMAN WASH FLOODPLAIN DELINEATION STUDY

FCD 90-65

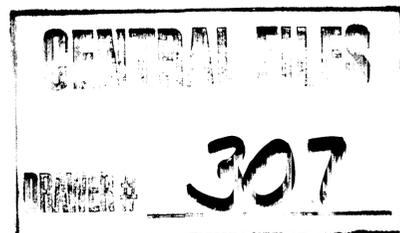
100-YEAR FLOODPLAIN DELINEATION DISCHARGES

Flooding Source	Reach	Discharge (cfs)
Deadman Wash :	At New River	9,600
Deadman Wash :	At Carefree Hwy	9,510
Deadman Wash :	At Joy Ranch Rd.	9,680
Deadman Wash :	At I-17	9,440
Deadman Wash :	At 31st Avenue	2,770
Stream No. 4 :	At I-17	1,760
Stream No. 4 :	At Irvine Road	1,660
Stream No. 4 :	At 29th Avenue	770
Stream No. 7 :	At I-17	4,300
Stream No. 7 :	At I-17 Rest Area	3,170



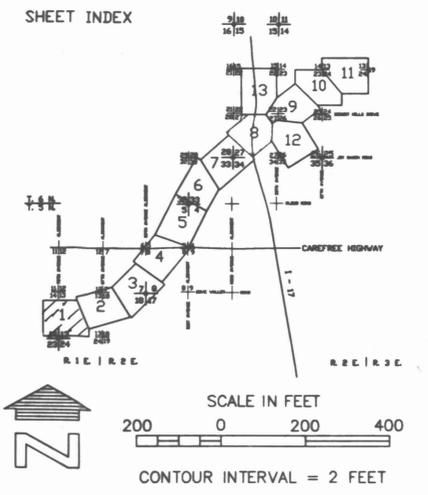
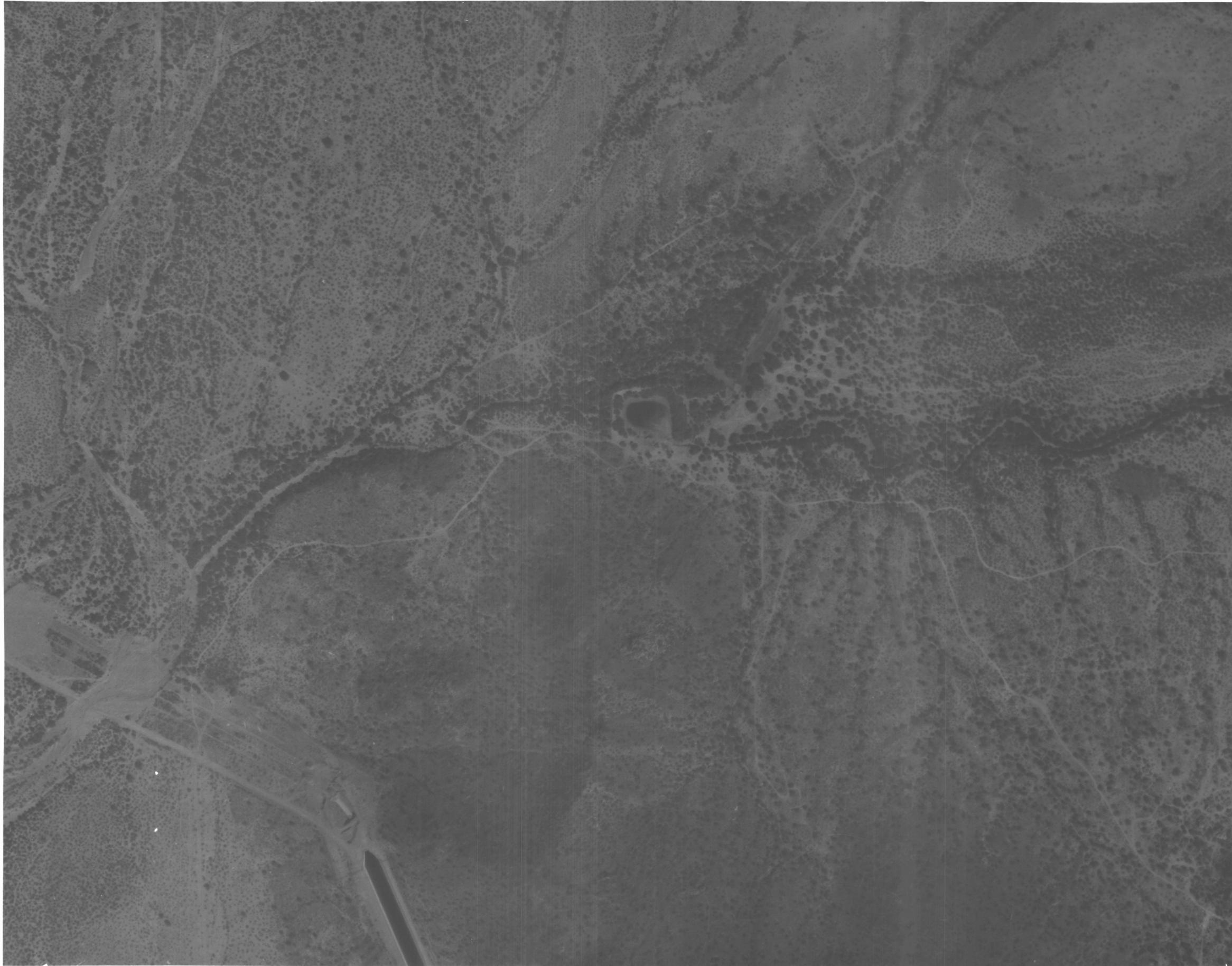
VICINITY MAP

Study Date : 1992
 Mapping Date : 1991
 Aerial Mapping : Aerial Mapping Company, Inc.
 GIS : GIS Consultants of Arizona, Ltd.



HNTB
 HOWARD NEEDLES TAMMEN & BERGENOFF
 ARCHITECTS ENGINEERS PLANNERS
 170 RENAISSANCE SQUARE
 40 NORTH CENTRAL AVENUE SUITE 1100
 PHOENIX, ARIZONA 85004
 (602) 528-4300 FAX (602) 528-4301

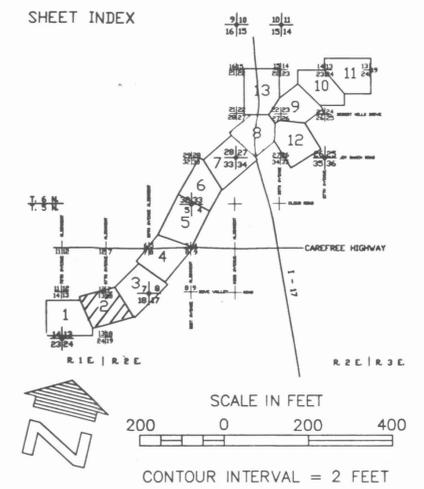
FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



PREPARED BY:
HNTB
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:		DATE:	SHEET 1 OF 13

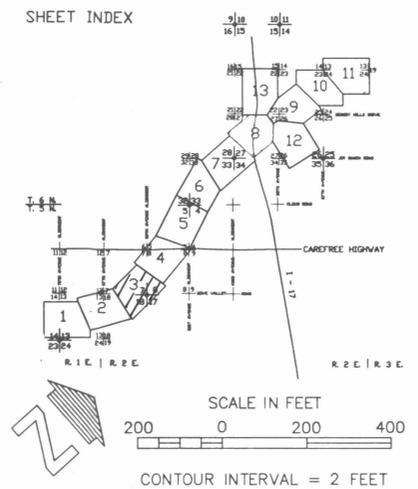
FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



PREPARED BY: **HNTB**
 HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		
PLANS	BGS		RECOMMENDED BY: DATE
PLANS CHK.	RMW		APPROVED BY: DATE
SUBMITTED BY:	DATE:		CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 2 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



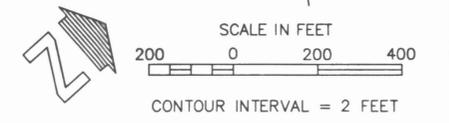
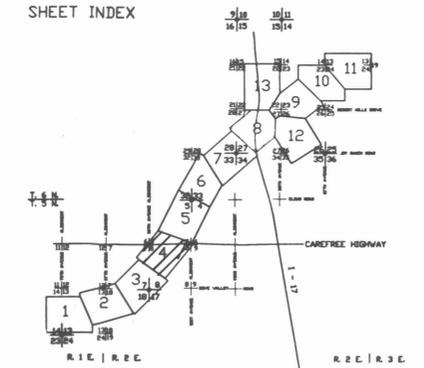
PREPARED BY: **HNTB**
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 3 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



SHEET INDEX

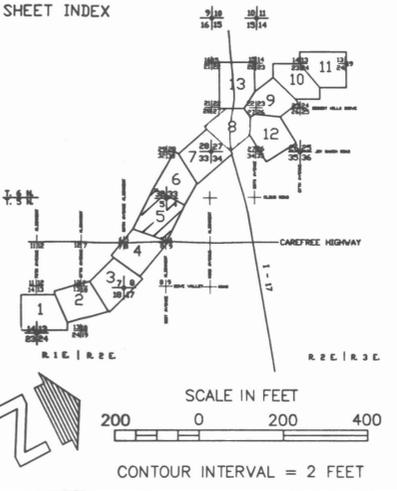


PREPARED BY:

HNTB
 HOWARD NEEDLES TAMMEN & BERGENOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		
PLANS	BY BGS	DATE	RECOMMENDED BY: _____ DATE _____
PLANS CHK.	RMW		APPROVED BY: _____ DATE _____
SUBMITTED BY:	DATE:		CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 4 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND

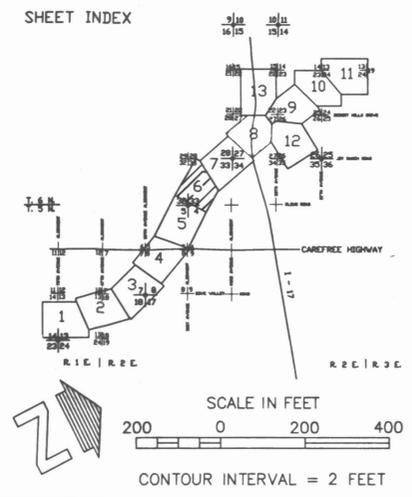


PREPARED BY: **HNTB**
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 5 OF 13

PHOTOGRAPHY BY: AERIAL MAPPING CO.
 SURVEY BY: HNTB
 FLIGHT DATE: 10-11-91

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



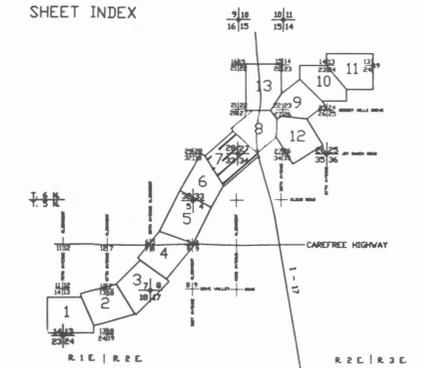
PREPARED BY: **HNTB**
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DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		
PLANS	BGS		RECOMMENDED BY: DATE
PLANS CHK.	RMW		APPROVED BY: DATE
SUBMITTED BY:	DATE:		CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 6 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



SHEET INDEX



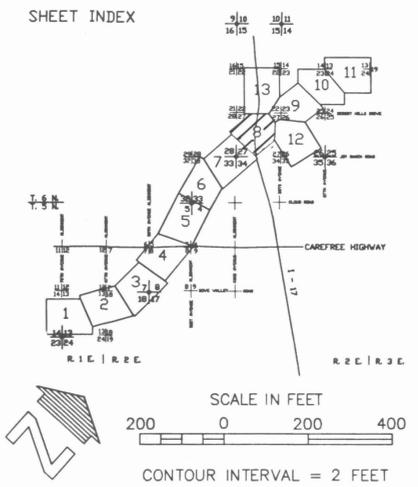
SCALE IN FEET
 200 0 200 400
 CONTOUR INTERVAL = 2 FEET

PREPARED BY:

HNTB
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:		DATE:	SHEET 7 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND

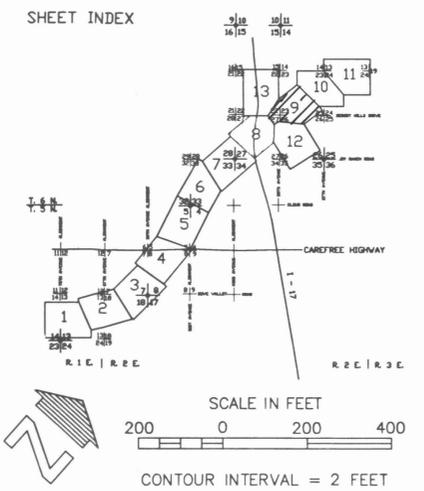


PREPARED BY:
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 ARCHITECTS ENGINEERS PLANNERS

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

PHOTOGRAPHY BY: AERIAL MAPPING CO.
 SURVEY BY: HNTB
 FLIGHT DATE: 10-11-91

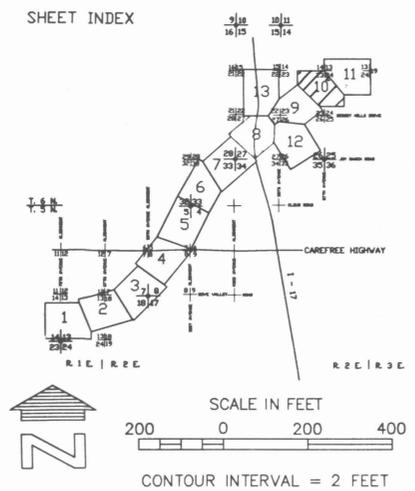
FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
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PREPARED BY: **HNTB**
 HOWARD NEEDLES TAMMEN & BERGENOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		
PLANS	BGS		RECOMMENDED BY: DATE
PLANS CHK.	RMW		APPROVED BY: DATE
SUBMITTED BY:	DATE:		CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 9 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



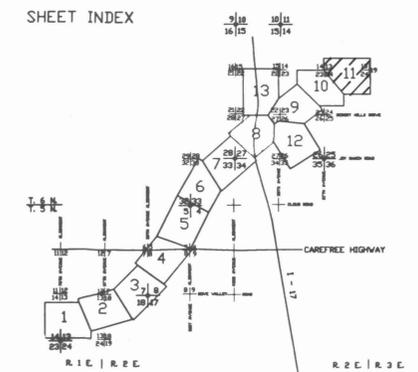
PREPARED BY: **HNTB**
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 10 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



SHEET INDEX



SCALE IN FEET
 200 0 200 400
 CONTOUR INTERVAL = 2 FEET

PREPARED BY:

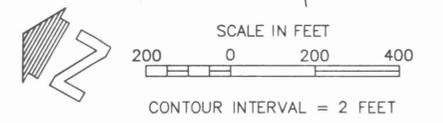
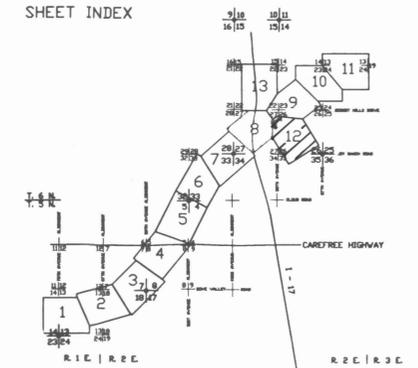
HNTB
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		
PLANS	BGS		RECOMMENDED BY: DATE
PLANS CHK.	RMW		APPROVED BY: DATE
SUBMITTED BY:	DATE:		CHEF ENGINEER AND GENERAL MANAGER
			SHEET 11 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



SHEET INDEX



PREPARED BY:

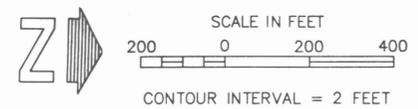
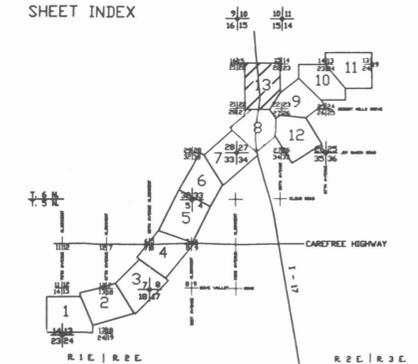
HNTB
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 12 OF 13

FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY
 FLOODPLAIN DELINEATION STUDY
 OF
 DEADMAN WASH
 F.C.D. CONTRACT NO. 90-65
 LEGEND



SHEET INDEX



PREPARED BY: **HNTB**
 HOWARD NEEDLES TAMMEN & BERGENDOFF
 ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 13 OF 13

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOODPLAIN DELINEATION STUDY OF DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	0100=XXXXcfs A FP=100 Yr WSE A 0.092 FW=Floodway WSE 0.092
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	~ 1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

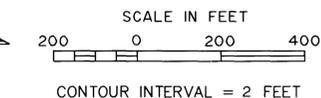
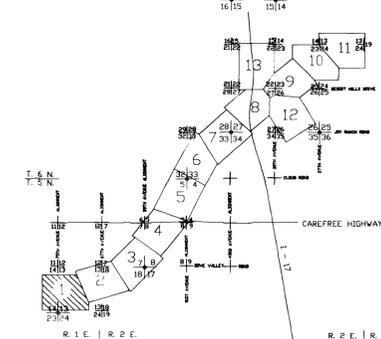
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #1	1498.53	Brass Cap in Granite Stamped "SND 1991", 300' Southeast of Snodgrass Tank, at Southwest Quarter Corner of Section 13, Township 5 North, Range 1 East.

NOTES:

- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.
- NEW RIVER FLOODPLAIN DELINEATION, NEW RIVER DAM RESERVOIR TO ROCK SPRINGS, PREPARED BY COE & VAN LDD CONSULTING ENGINEERS, INC. UNDER FCD CONTRACT NO. 85-19.
- THIS THALWEG WAS DETERMINED TO PROVIDE MORE REASONABLE RESULTS IN THE VICINITY OF SNODGRASS TANK AREA.

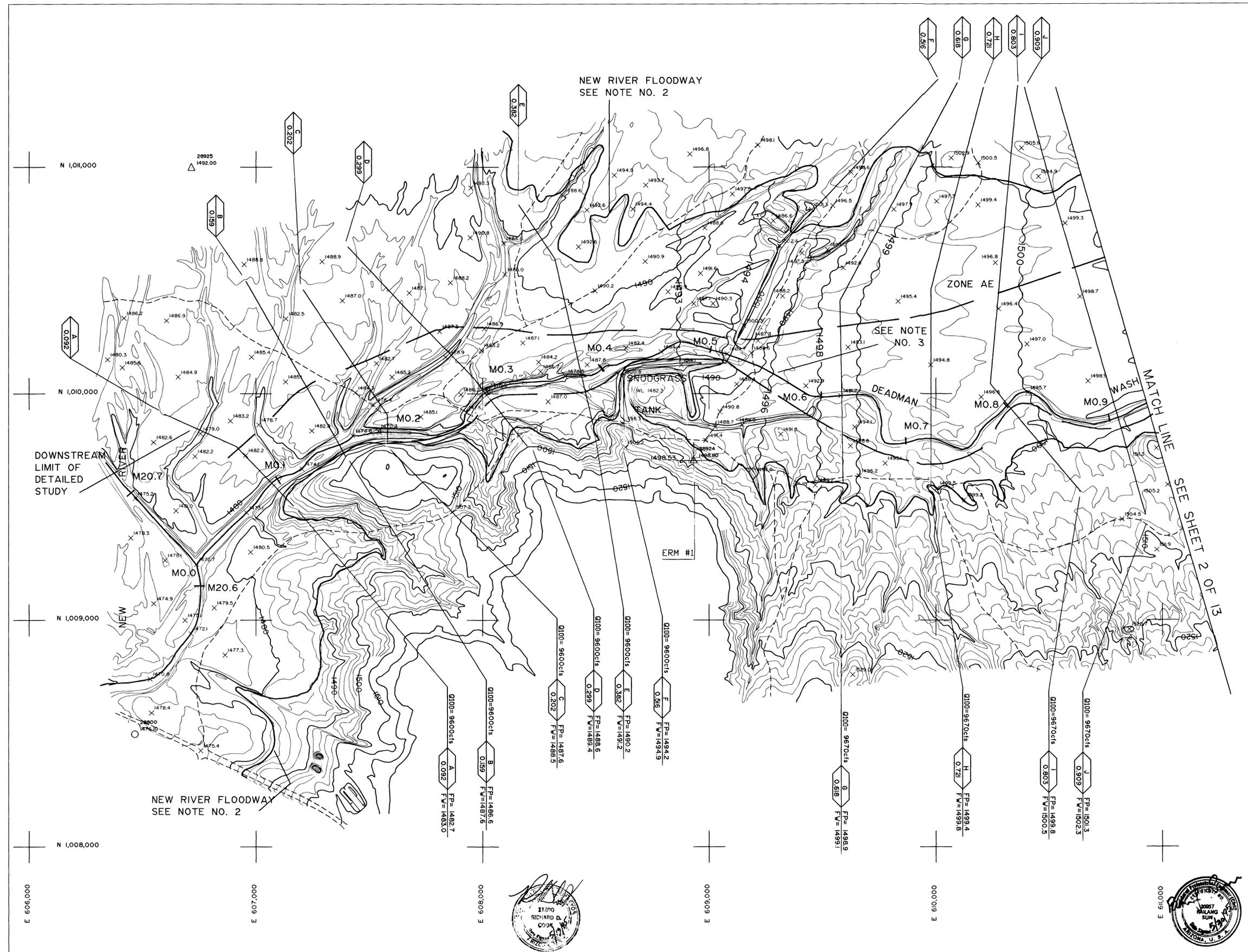
SHEET INDEX



PREPARED BY:

HNTB
H. J. JAMES, E. D. LAMMEN & BERGENDOFF
ARCHITECTS, ENGINEERS & PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 1 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91
THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 ----- MO.2
CROSS SECTION	Q100=XXXXcfs 0.092' FP=100 Yr WSE 0.092' FW=Floodway WSE
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	~ 490 ~
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

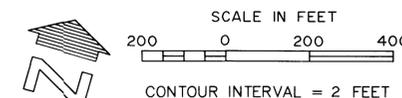
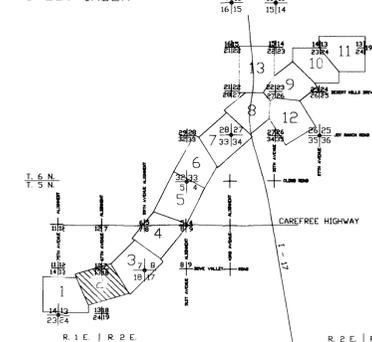
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #2	1512.50	Brass Cap in 6" Concrete Post Stamped "1512.50", 1000' Southwest of Maricopa Tank at the Northeast Quarter Corner of Section 13, Township 5 North, Range 1 East.

NOTES:

- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.

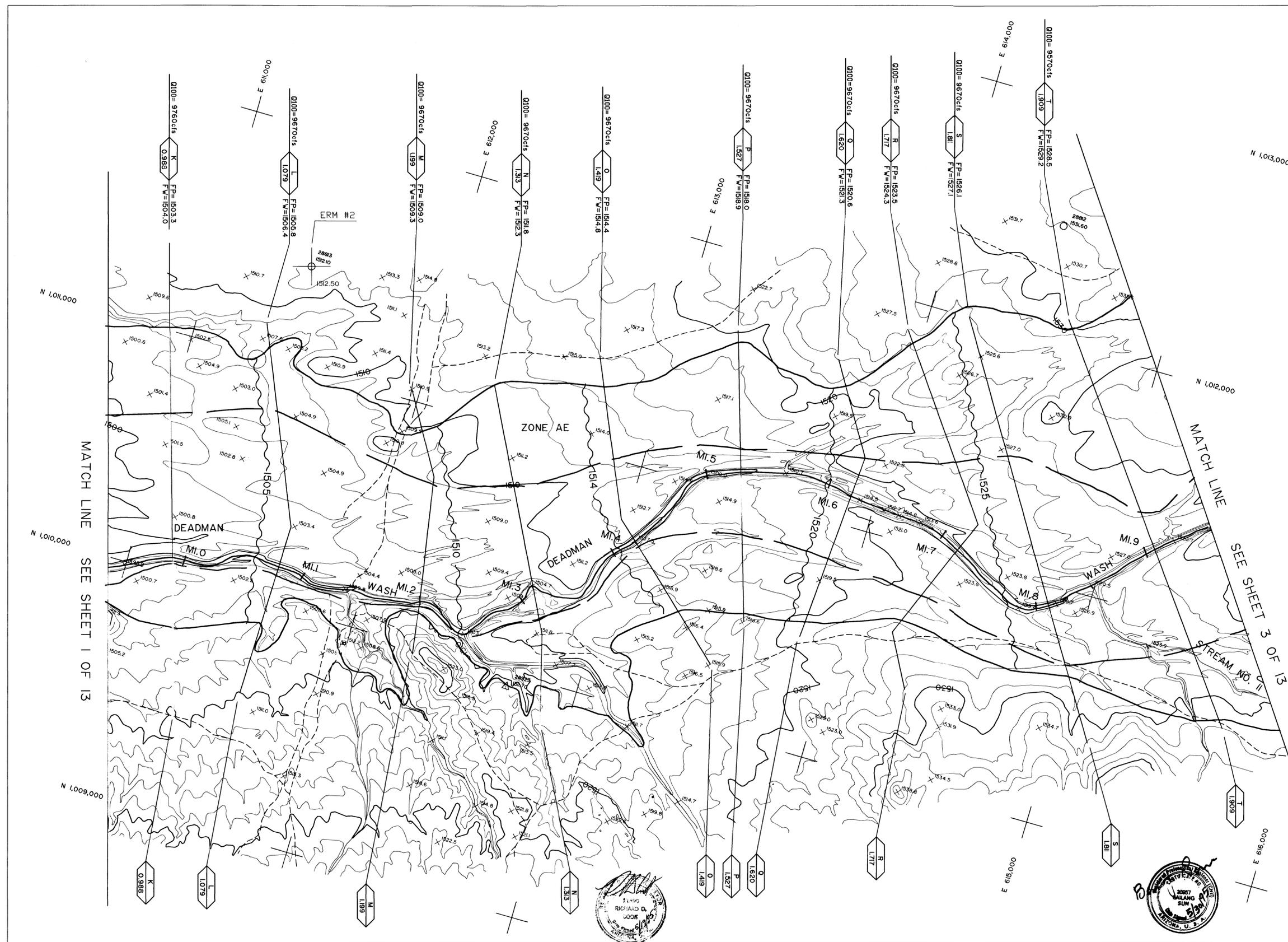
SHEET INDEX



PREPARED BY: **HNTB**
HICKMAN, TAYLOR, DILLON, TAMMEN & BERGENDOFF
ARCHITECTS-ENGINEERS-PLANNERS

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

SHEET 2 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB

**FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY**
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

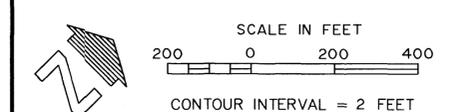
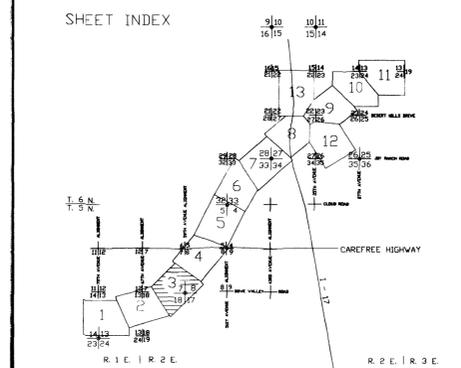
100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 ----- MO.2
CROSS SECTION	Q100=XXXXcfs FP=100 Yr WSE A 0.092' FW=Floodway WSE 0.092'
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

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

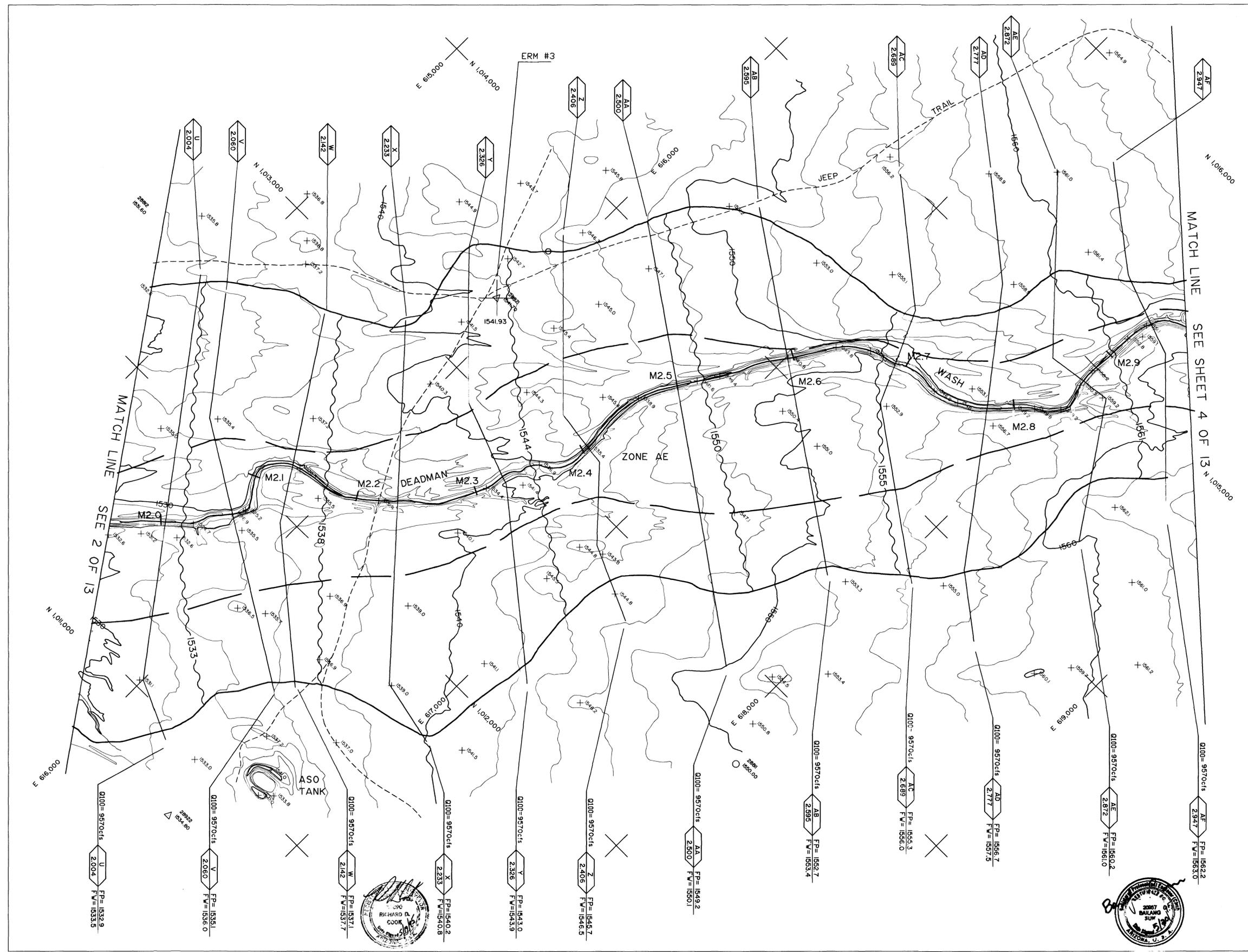
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #3	1541.93	Brass Cap in 6" Concrete Post Stamped '1541.93' 40' Northeast of Jeep Trail Intersection at 1,000' Northeast of South Quarter Corner of Section 7, Township 5 North, Range 2 East.

NOTES:
1. CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.



PREPARED BY: **HNTB**
HNTB ARCHITECTS, ENGINEERS, PLANNERS
1100 EAST WASHINGTON AVENUE, SUITE 1000, PHOENIX, ARIZONA 85001

DESIGN	BY: BGS	DATE:	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE:
PLANS	BGS		APPROVED BY: DATE:
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 3 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 2" CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB



FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

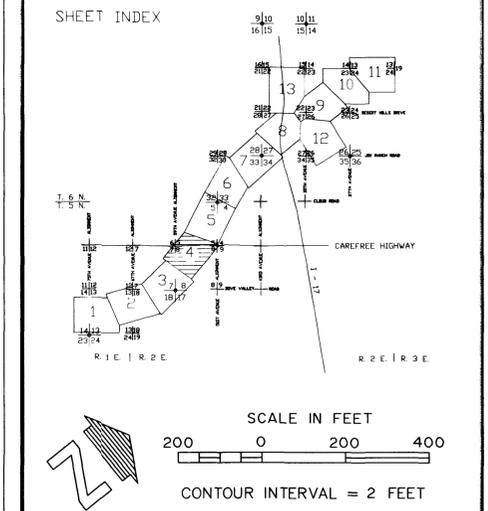
100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	Q100=XXXXcfs $\frac{A}{0.092}$ FP=100 Yr WSE $\frac{A}{0.092}$ FW=Floodway WSE $\frac{A}{0.092}$
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

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

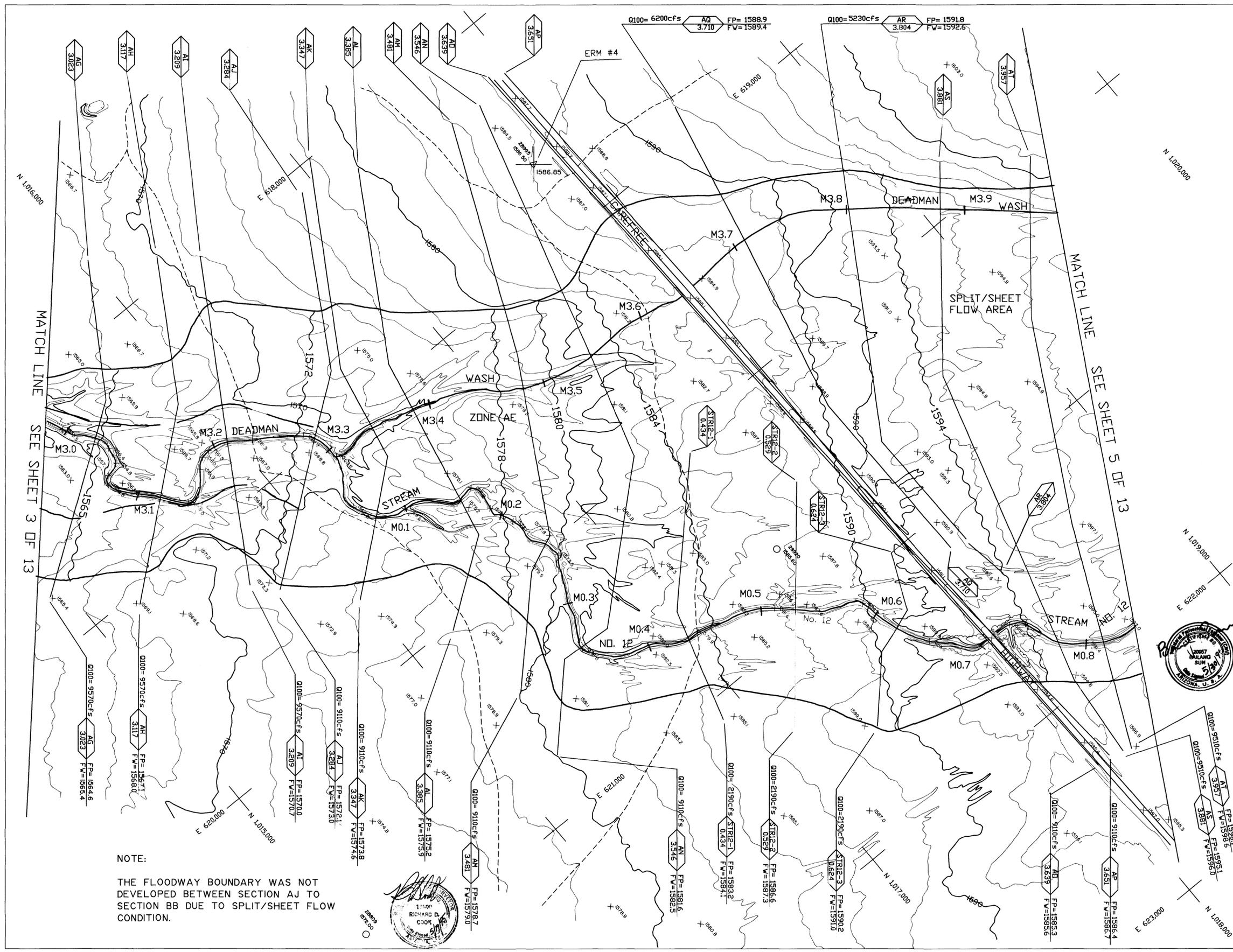
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #4	1586.85	Arizona Department of Transportation P&M Brass Cap on Concrete Post Stamped 'Gate' at Mile Post 28, 3.5' North of South Right-of-Way Fence of Carefree Highway, at 900' East of Northwest Quarter Corner of Section 8, Township 5 North, Range 2 East.

- NOTES:
- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE ALONG DEADMAN WASH.
 - CROSS SECTION I.D. NUMBER IS BASED ON DEADMAN WASH STATIONING SYSTEM EXCEPT SECD 0.434, 0.529 AND 0.624, WHICH WERE EXCEPT IN THE RIVER MILE ABOVE STREAM NUMBER 12 MOUTH.
 - THE Q100 SHOWN ARE TOTAL FLOW ACROSS THE ENTIRE FLOODPLAIN. ABOUT 68 PERCENT OF TOTAL FLOW REMAINS IN THE MAIN WASH BELOW CAREFREE HIGHWAY, WHILE 55 PERCENT OF TOTAL FLOW REMAINS IN THE MAIN WASH ABOVE THE HIGHWAY.



PREPARED BY: **HNTB**
HNTB ENGINEERS, ARCHITECTS & PLANNERS
1100 N. GILBERT ST. SUITE 1000
PHOENIX, ARIZONA 85004

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 4 OF 13



NOTE:
THE FLOODWAY BOUNDARY WAS NOT DEVELOPED BETWEEN SECTION AJ TO SECTION BB DUE TO SPLIT/SHEET FLOW CONDITION.



FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

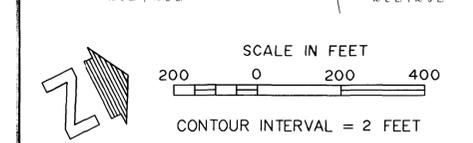
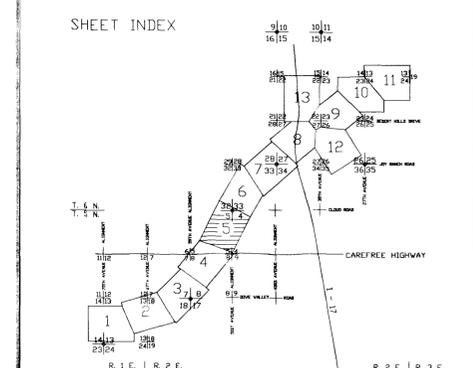
100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	Q100=XXXXcfs A FP=100 Yr WSE A 0.092' FW=Floodway WSE 0.092'
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490 X
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

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

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #5	1611.46	Brass Cap on 6" Diameter Concrete Post Stamped 1611.46' at 300' Southwest of East Quarter Corner of Section 5, Township 5 North, Range 2 East.

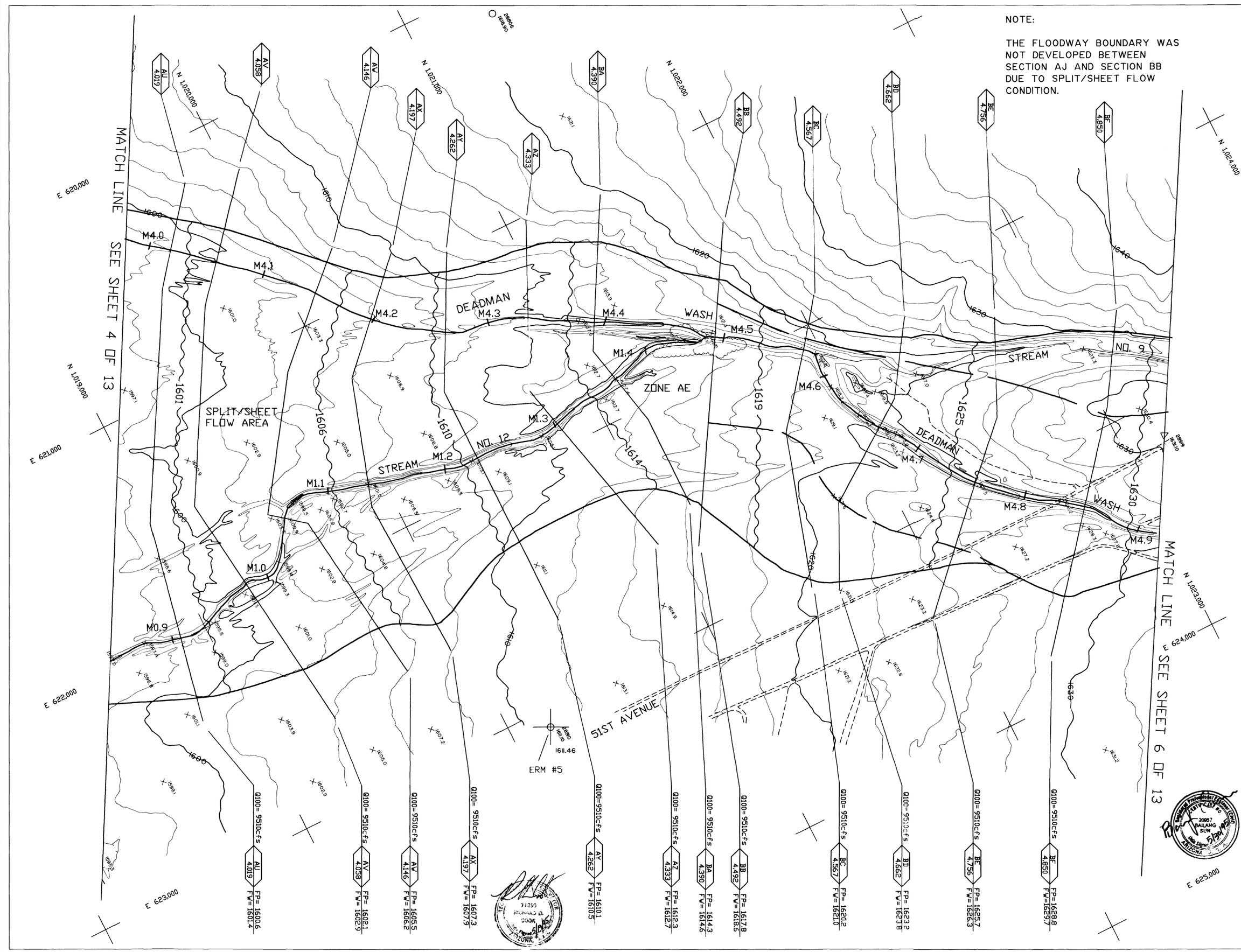
- NOTES:
- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE ALONG DEADMAN WASH.
 - CROSS SECTION I.D. NUMBER IS BASED ON DEADMAN WASH STATIONING SYSTEM.
 - THE Q100 SHOWN ARE TOTAL FLOW ACROSS THE ENTIRE FLOODPLAIN. ABOUT 55 PERCENT OF TOTAL FLOW REMAINS IN THE MAIN WASH ABOVE CAREFREE HIGHWAY.



PREPARED BY: **HNTB**
HEARD E. J. TAMMEN & BERGENOFF
ARCHITECTS, ENGINEERS, PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 5 OF 13

NOTE:
THE FLOODWAY BOUNDARY WAS NOT DEVELOPED BETWEEN SECTION AJ AND SECTION BB DUE TO SPLIT/SHEET FLOW CONDITION.



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

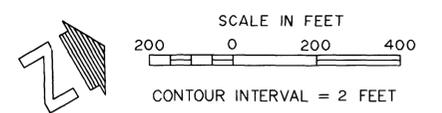
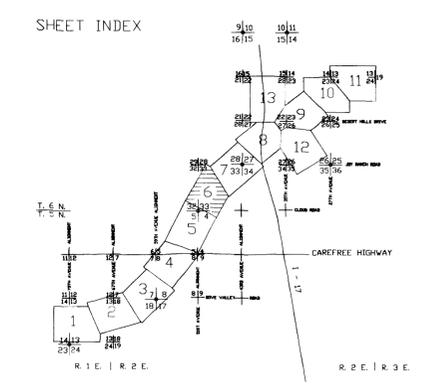
- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- HYDRAULIC BASE LINE WITH RIVER MILE
- CROSS SECTION $Q_{100} = XXXX CFS$ $FP = 100 Yr WSE$ $FW = Floodway WSE$
- ELEVATION REFERENCE MARK
- BASE FLOOD ELEVATIONS
- ZONE DESIGNATIONS
- CORPORATE LIMITS
- COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 29

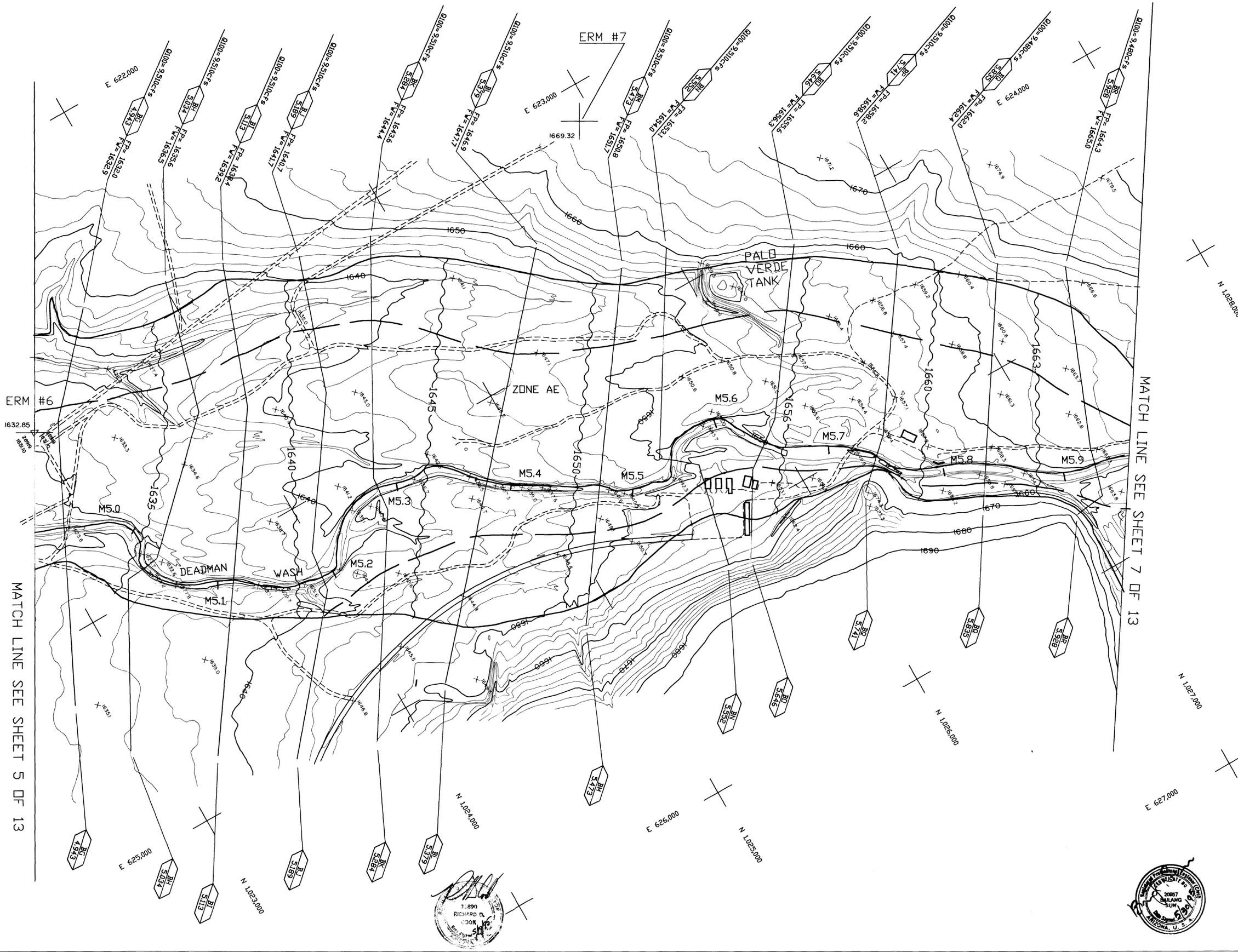
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #6	1632.85	Brass Cap Stamped U.S. Government Land Office at Southeast Corner of Section 32, Township 6 North, Range 2 East.
ERM #7	1669.32	Brass Cap Stamped U.S. Government Land Office at East Quarter Corner of Section 32, Township 6 North, Range 2 East.

- NOTES:
- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.



PREPARED BY: **HNTB**
H.C. (ARCH) & E.L. TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:		DATE:	SHEET 6 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB



FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	Q100=XXXXcfs $\frac{A}{0.092}$ FP=100 Yr WSE $\frac{A}{0.092}$ FW=Floodway WSE $\frac{A}{0.092}$
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

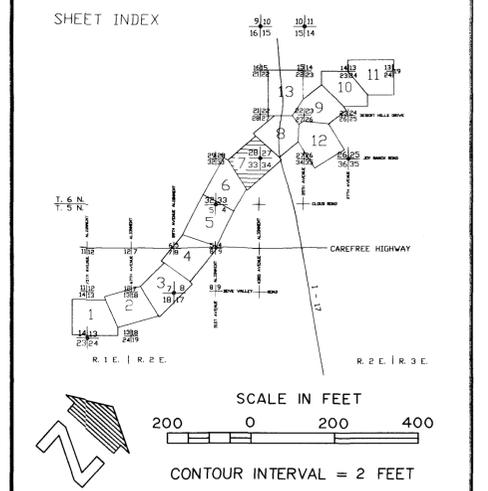
ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 89

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #8	1688.71	Brass Cap Stamped U.S. Government Land Office at South Corner of Section 28, Township 6 North, Range 2 East, Along North-South Fence.
ERM #9	1689.70	Maricopa County Department of Transportation Brass Cap Flush in Concrete in Paved Road, at Northwest Corner of Section 34, Township 6 North, Range 2 East.

NOTES:

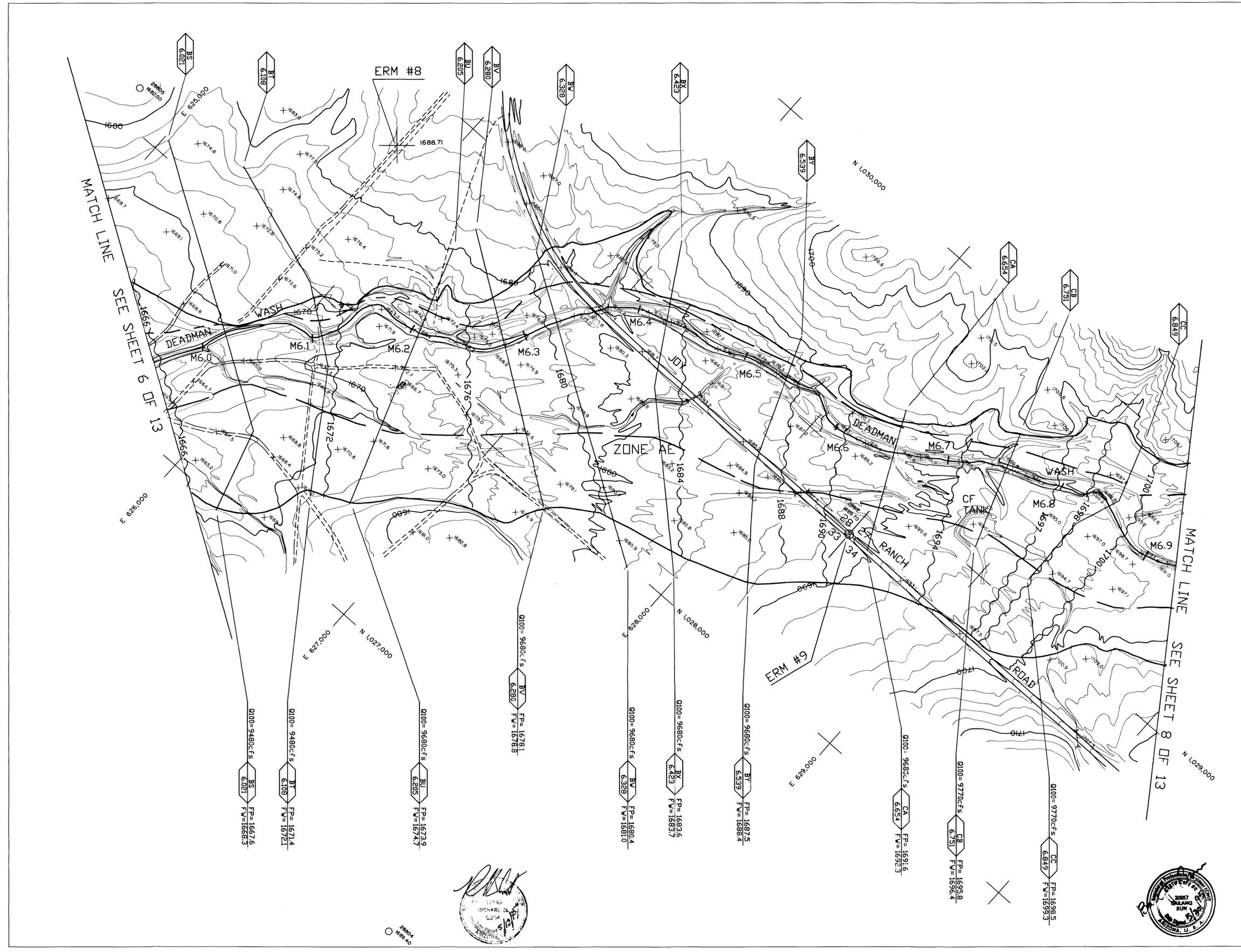
- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.



PREPARED BY: **HNTB**
ARCHITECTS, ENGINEERS, PLANNERS

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

SHEET 7 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOODPLAIN DELINEATION STUDY OF DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	Q100=XXXXcfs A FP=100 Yr WSE 0.092 FW=Floodway WSE 0.092
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

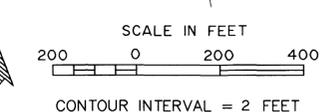
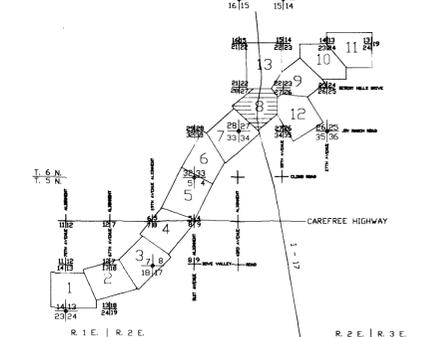
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 89

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #10	1704.83	U.S. Geological Survey Brass Cap on 3.5" Diameter Pipe Stamped "1705", 150' West of Dirt Road at 950' North and 1750' East of Southwest Corner of Section 27, Township 6 North, Range 2 East.
ERM #11	1722.72	U.S. Coast and Geodetic Survey Brass Cap in Rock Stamped "U-56 1984" Recorded 1722.720, at 2,000' East and 1,500' South of Northwest Corner of Section 27, Township 6 North, Range 2 East.

NOTES:

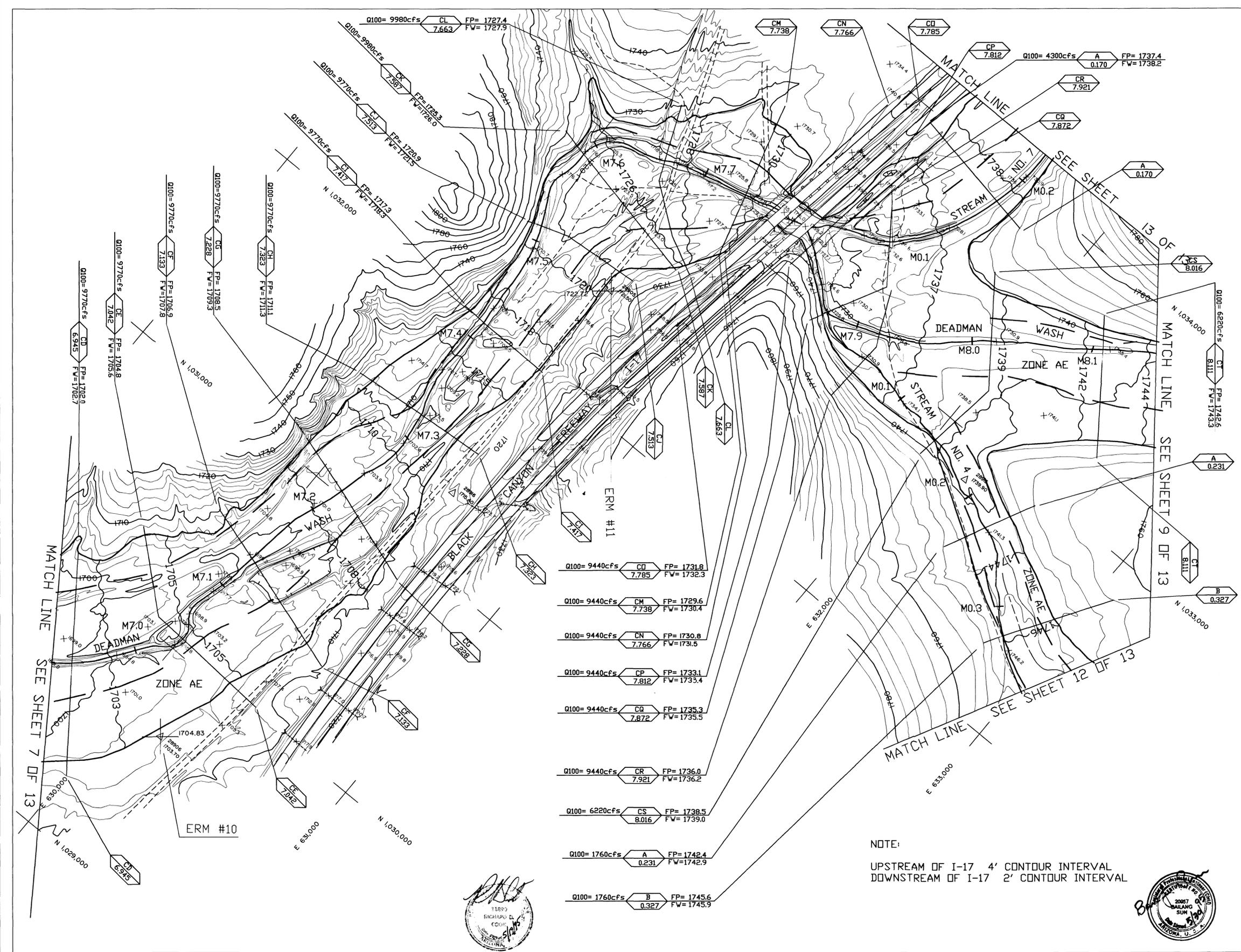
- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.
- CROSS SECTION I.D. NUMBER IS BASED ON DEADMAN WASH STATIONING SYSTEM EXCEPT FOR TRIBUTARIES, WHICH IS BASED ON THE RIVER MILE ABOVE TRIBUTARY MOUTH.
- THE Q100 SHOWN IS TOTAL FLOW NEAR THE CONFLUENCE OF WASHES.

SHEET INDEX



PREPARED BY: **HNTB**
HARRIS, TAMMEN & BERGENDOFF
ARCHITECTS-ENGINEERS-PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 8 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB



FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	Q100=XXXXcfs 0.092 / FP=100 Yr WSE FW=Floodway WSE 0.092
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

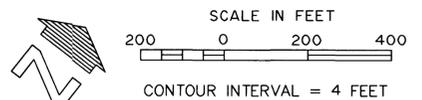
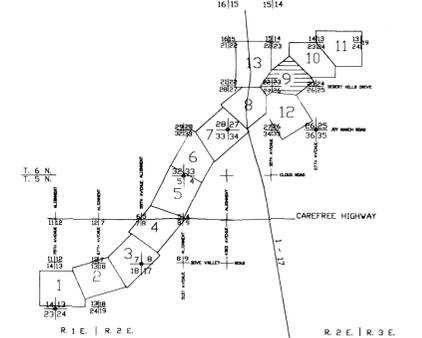
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 89

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #12	1751.90	Brass Cap Stamped U.S. Government Land Office at West Corner of Section 27, Township 6 North, Range 2 East.
ERM #13	1791.56	Brass Cap in 6" Diameter Concrete Post Stamped "1791.56", 1' Northeast of Fence Corner Southwest Right-of-Way of 31st Avenue and Desert Hills Road at North Quarter Corner of Section 26, Township 6 North, Range 2 East.

NOTES:

- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.

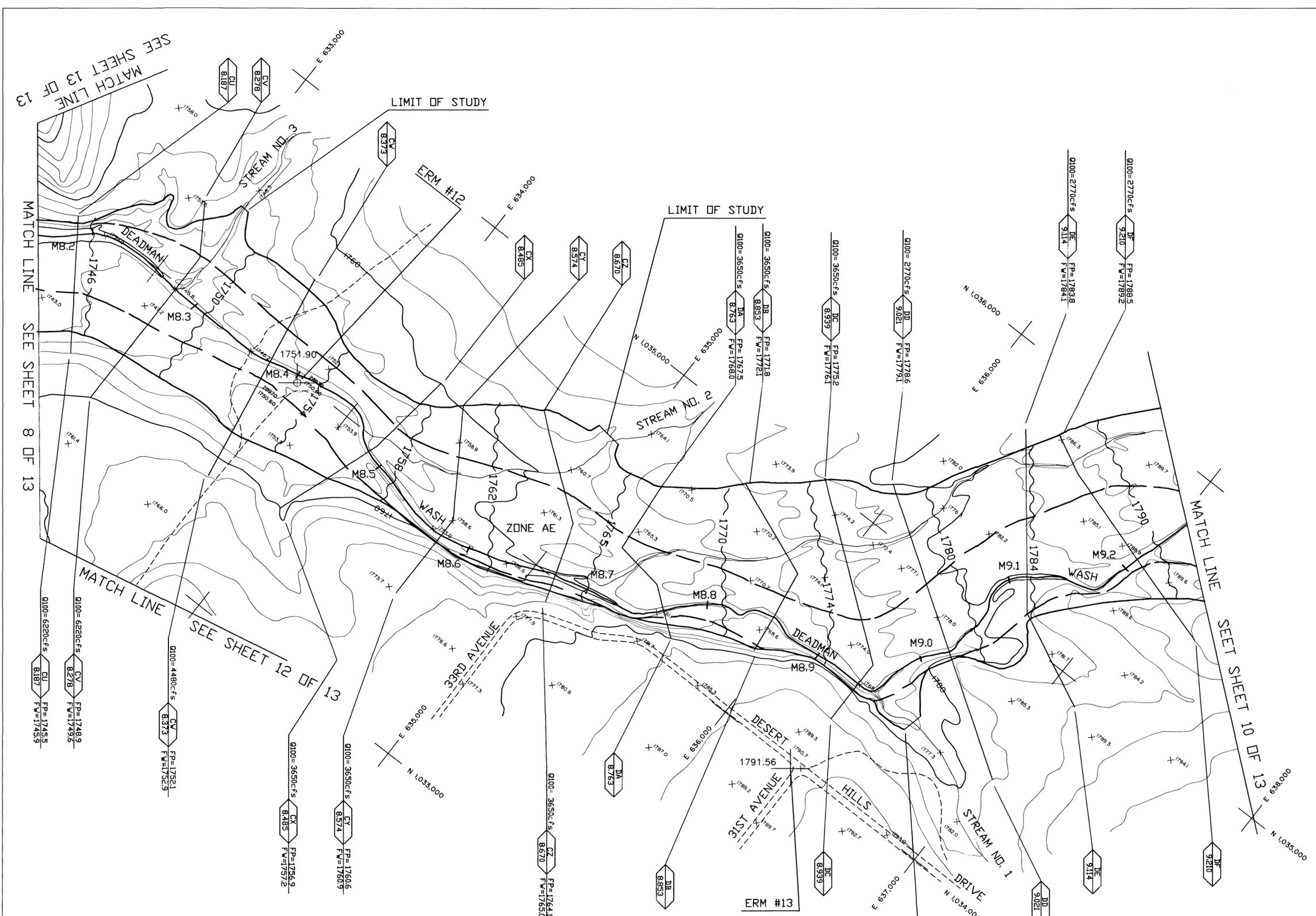
SHEET INDEX



PREPARED BY:

HNTB
HYATT D. LEE, TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 9 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 4' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH

F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	—————
FLOODWAY BOUNDARY	—————
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 ——— MO.2
CROSS SECTION	Q100=XXXXcfs $\frac{A}{0.092}$ FP=100 Yr WSE $\frac{A}{0.092}$ FW=Floodway WSE $\frac{A}{0.092}$
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490 X
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

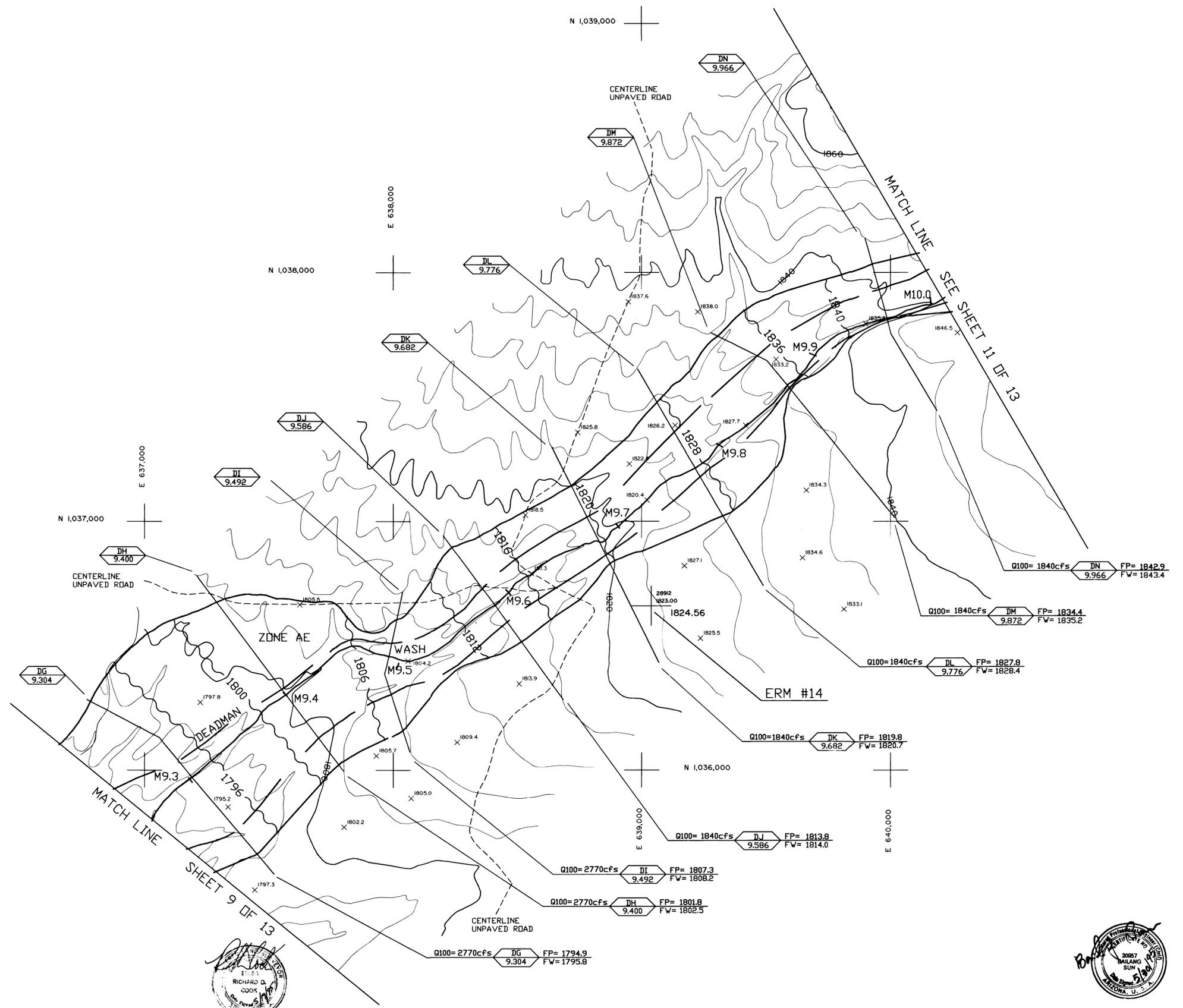
ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 89

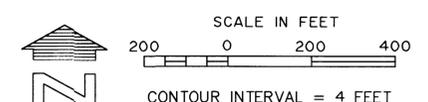
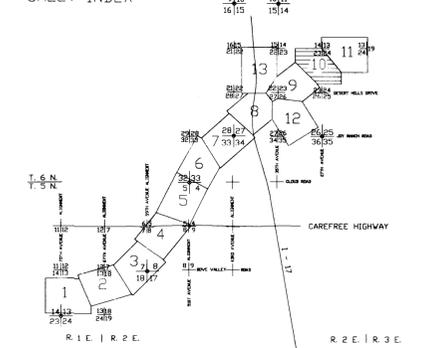
I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #14	1824.56	Brass Cap Stamped U.S. Government Land Office at East Quarter Corner of Section 23, Township 6 North, Range 2 East.

NOTES:

- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE AS NOTED EXCEPT.



SHEET INDEX



PREPARED BY: **HNTB**
INCORPORATED ENGINEERS ARCHITECTS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 10 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 4' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	Q100=XXXXcfs $\frac{A}{0.092}$ FP=100 Yr WSE $\frac{A}{0.092}$ FW=Floodway WSE $\frac{A}{0.092}$
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

ELEVATION REFERENCE MARKS

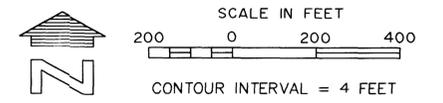
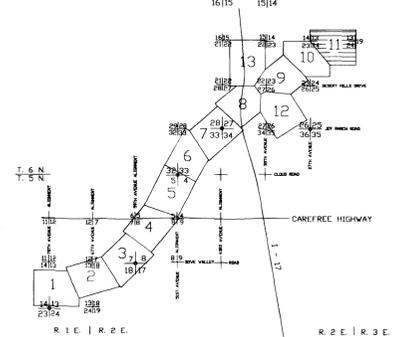
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 89

I.D. NUMBER	ELEVATION (FT)	DESCRIPTION/LOCATION
ERM #15	1899.66	Brass Cap Stamped U.S. Government Land Office at North Quarter Corner of Section 24, Township 6 North, Range 2 East.

NOTES:

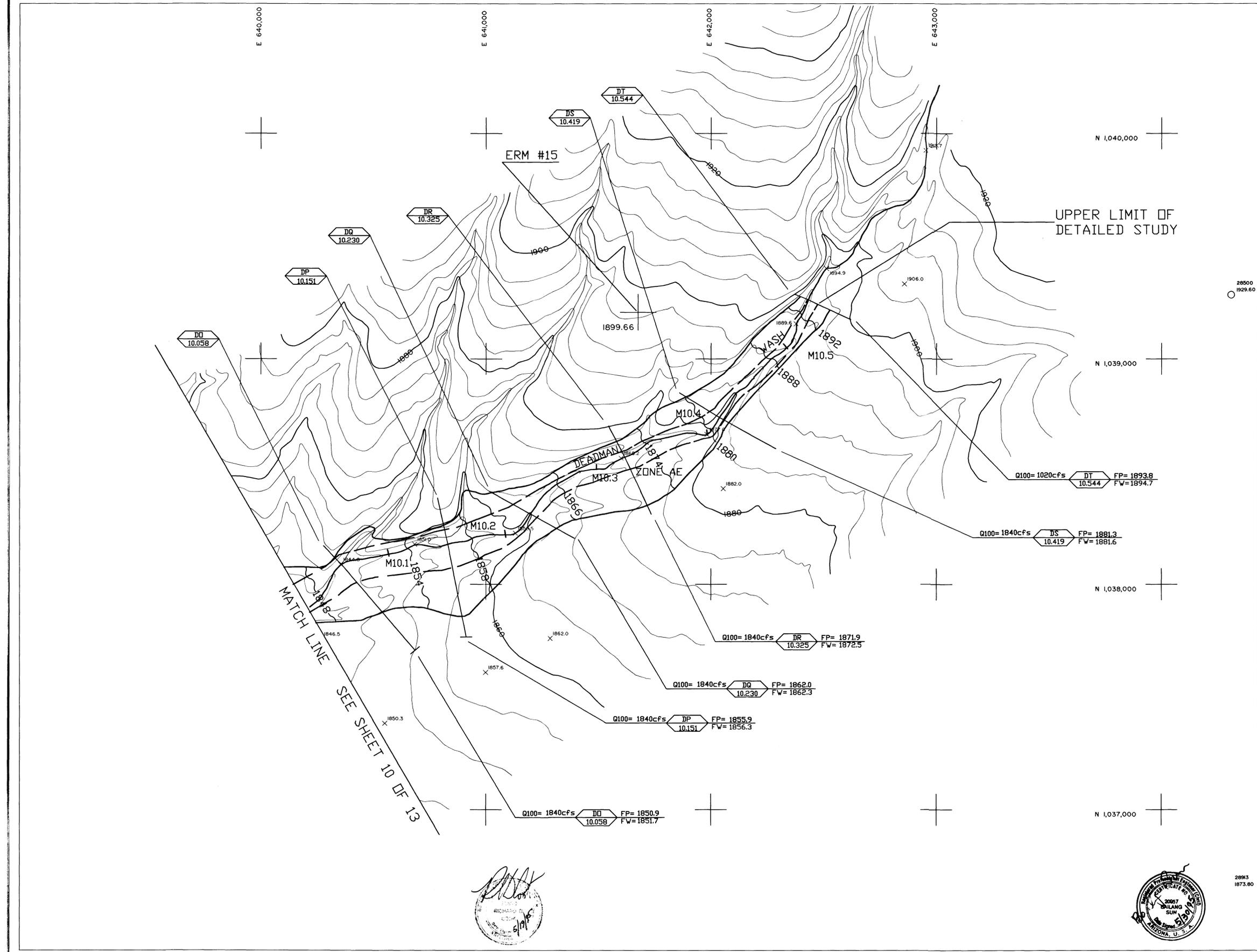
- CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.

SHEET INDEX



PREPARED BY: **HNTB**
HILLIARD, ELLIS, TAMMEN & BERGENDOFF
ARCHITECTS, ENGINEERS, PLANNERS

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



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOCGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 4" CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB

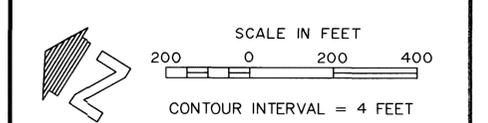
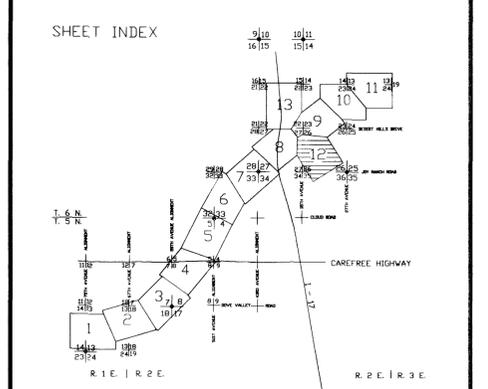
FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

LEGEND

100-YR FLOODPLAIN BOUNDARY	---
FLOODWAY BOUNDARY	---
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 --- MO.2
CROSS SECTION	Q100=XXXXcfs A FP=100 Yr WSE A FW=Floodway WSE A 0.092
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
COUNTY, PARISH, STATE OR INTERNATIONAL BOUNDARY	County Boundary

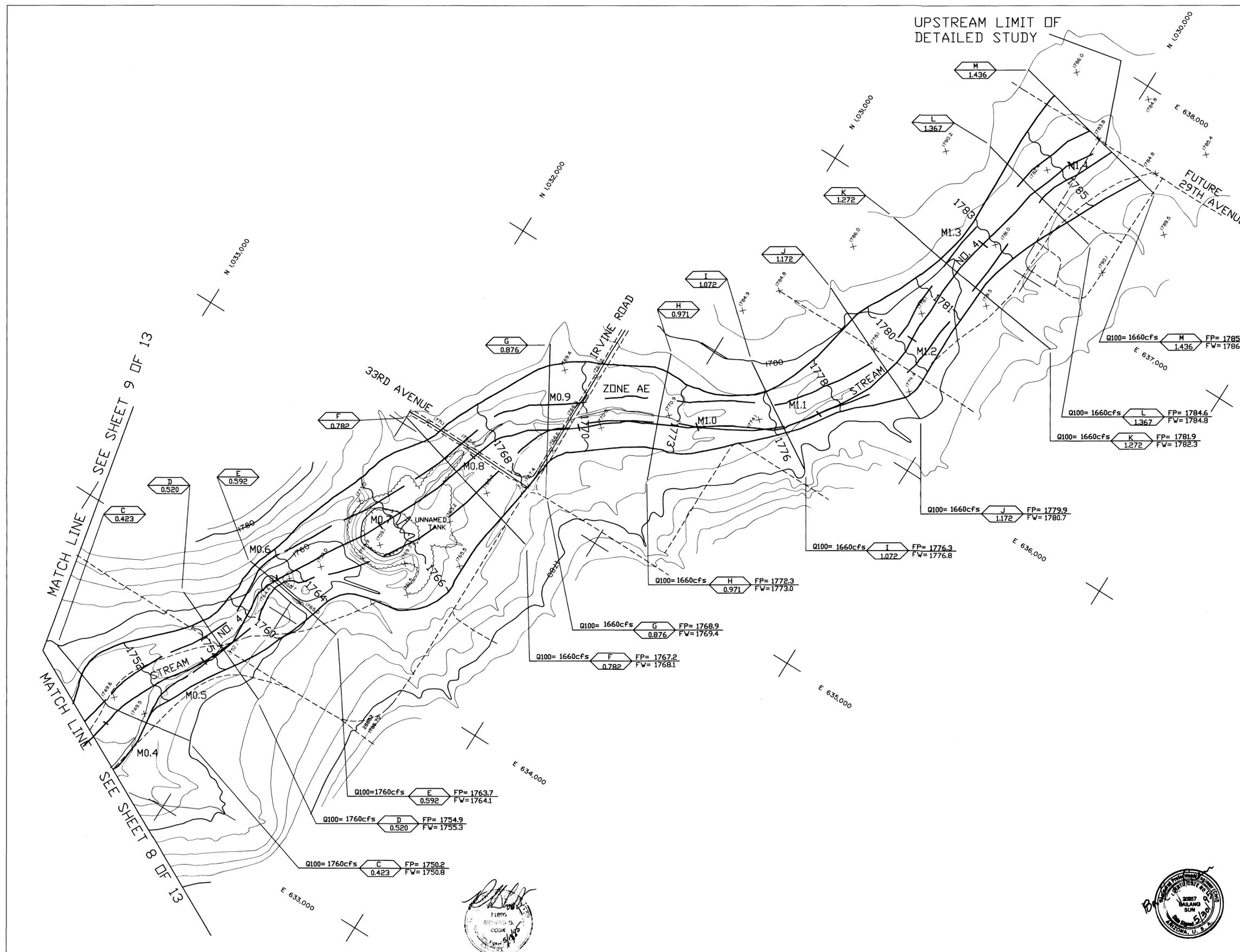
ELEVATION REFERENCE MARKS
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 29
I.D. NUMBER ELEVATION (FT) DESCRIPTION/LOCATION

NOTES:
1. CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.



PREPARED BY: **HNTB**
HICHAO & DAVID TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:	DATE:		SHEET 12 OF 13



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 4' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
FLOODPLAIN DELINEATION STUDY
OF
DEADMAN WASH
F.C.D. CONTRACT NO. 90-65

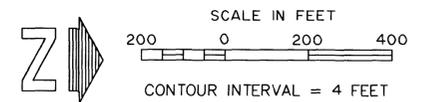
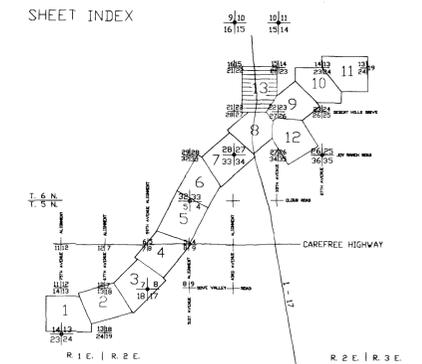
LEGEND

100-YR FLOODPLAIN BOUNDARY	—————
FLOODWAY BOUNDARY	—————
HYDRAULIC BASE LINE WITH RIVER MILE	MO.1 ——— MO.2
CROSS SECTION	Q100=XXXXcfs $\frac{A}{0.092}$ FP=100 Yr WSE $\frac{A}{0.092}$ FW=Floodway WSE $\frac{A}{0.092}$
ELEVATION REFERENCE MARK	ERM3 X
BASE FLOOD ELEVATIONS	1490
ZONE DESIGNATIONS	ZONE AE
CORPORATE LIMITS	Corporate Limits
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ELEVATION REFERENCE MARKS

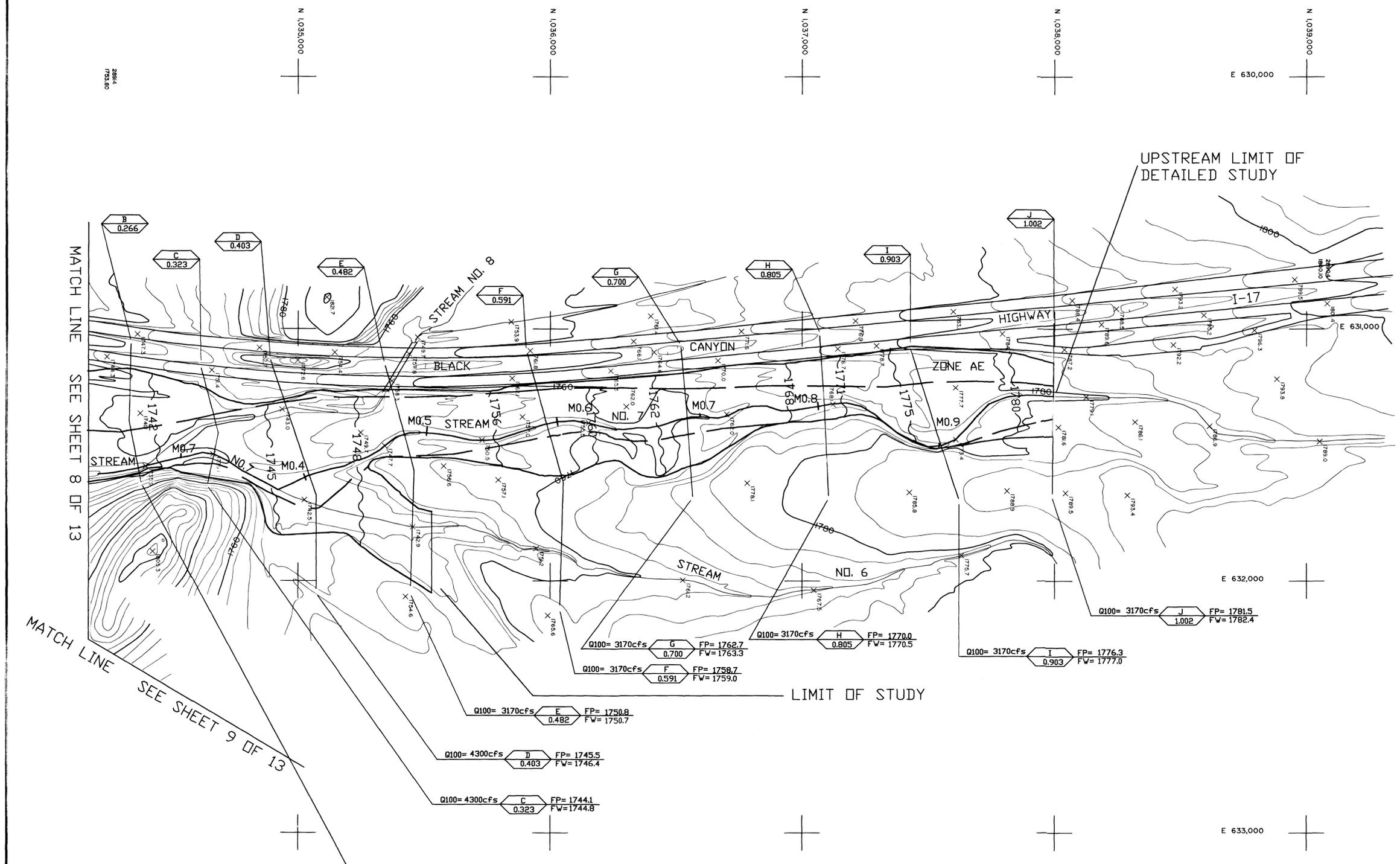
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 89
I.D. NUMBER ELEVATION (FT) DESCRIPTION/LOCATION

NOTES:
1. CROSS SECTION STATION 10,000 IS HYDRAULIC BASE LINE EXCEPT AS NOTED.



PREPARED BY: **HNTB**
H. CARP, E. DLE, TAMMEN & BERGENDOFF
ARCHIT. CT.: ENGINEERS PLANNERS

DESIGN	BY BGS	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	RMW		RECOMMENDED BY: DATE
PLANS	BGS		APPROVED BY: DATE
PLANS CHK.	RMW		CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:		DATE:	SHEET 13 OF 13



Richard G. Cook
RICHARD G. COOK
REGISTERED PROFESSIONAL ENGINEER
NO. 12345
STATE OF ARIZONA



PHOTOGRAPHY BY: AERIAL MAPPING CO.
SURVEY BY: HNTB
FLIGHT DATE: 10-11-91

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS
1"=200' HORIZONTAL SCALE AND 4' CONTOUR INTERVALS AND BASED ON GROUND CONTROL SURVEY
DATA PROVIDED BY HNTB