ICT

Y

Federal Emergency Management Agency

Washington, D.C. 20472

December 22, 2008

RECEIVED
JAN 5 - 2009
WOOD/PATEL

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 08-09-1883P

The Honorable Fulton Brock
Chairman, Maricopa County
Board of Supervisors
301 West Jefferson Street, 10th Floor
Phoenix, AZ 85003

Community: Maricopa County, AZ
Community No.: 040037

B.A.D. Letter

Dear Mr. Brock:

This is in regard to a request dated September 16, 2008, from Mr. Mark Mayer, P.E., CFM, Flood Control District of Maricopa County, that the Department of Homeland Security's Federal Emergency Management Agency (FEMA) evaluate the effects that updated flood hazard data as a result of up-to-date hydrologic, hydraulic, and topographic information for numerous tributaries to Daggs Wash, Star Wash, and the Hassayampa River in northwest Maricopa County (referred to as the Upper Daggs/Star Wash Zone AE Floodplain Delineation Study) would have on the flood hazard information shown on the effective Flood Insurance Rate Map (FIRM) for Maricopa County, Arizona and Incorporated Areas. This LOMR request has been assigned Case No. 08-09-1883P. This letter identifies the submitted data as the best available flood hazard information, which is intended to improve on that shown on the effective FIRM.

We reviewed the submitted data (with appendixes) entitled "Upper Daggs/Star Wash Zone AE Floodplain Delineation Study (FCD 2006C008)," prepared by Wood, Patel & Associates, Inc., dated September 2, 2008. We have determined that the submitted data meet the minimum floodplain management criteria of the National Flood Insurance Program (NFIP), but that FEMA cannot issue a LOMR or Physical Map Revision at this time.

In accordance with Paragraph 60.3(b)(4) of the NFIP regulations (copy enclosed), we encourage your community to make reasonable use of the draft work maps entitled "Flood Control District of Maricopa County, Upper Daggs and Star Wash Zone AE Floodplain Delineation, FCD 2006C008, Sheets 1 to 42," prepared by Wood, Patel & Associates, Inc., dated September 2, 2008, as the best available data for floodplain management purposes until such time as FEMA can physically revise the FIRM or issue a LOMR.

This letter is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development and for ensuring that all necessary permits required by Federal or State law have been received. State, county, and community officials, based on their knowledge of local conditions and in the interest of safety, may set higher standards for construction in the Special Flood Hazard Area, the area subject to inundation by the base (1-percent-annual-chance) flood. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these take precedence over the minimum NFIP criteria.

AJ3877

WORKING MAPS

THE INFORMATION SHOWN ON THIS MAPPING IS THE BEST TECHNICAL INFORMATION AVAILABLE AT THIS TIME TO DETERMINE THE 100-YEAR FLOODPLAIN AND IS SUBJECT TO CHANGE.

NOTES

1. HORIZONTAL PROJECTION IS ARIZONA STATE PLANE CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.

2. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

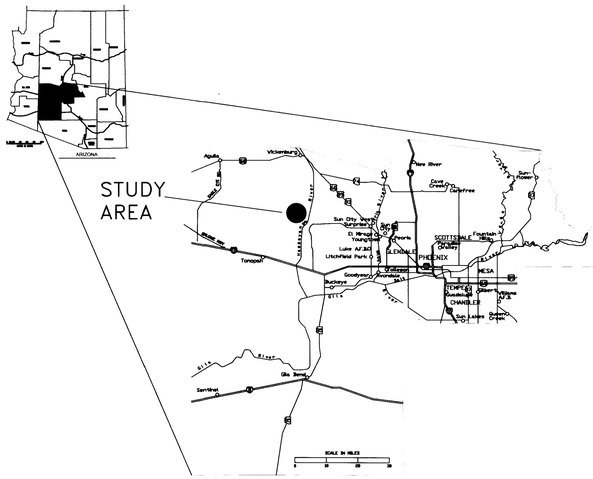
STATEMENT OF PROFESSIONAL REGISTRATION

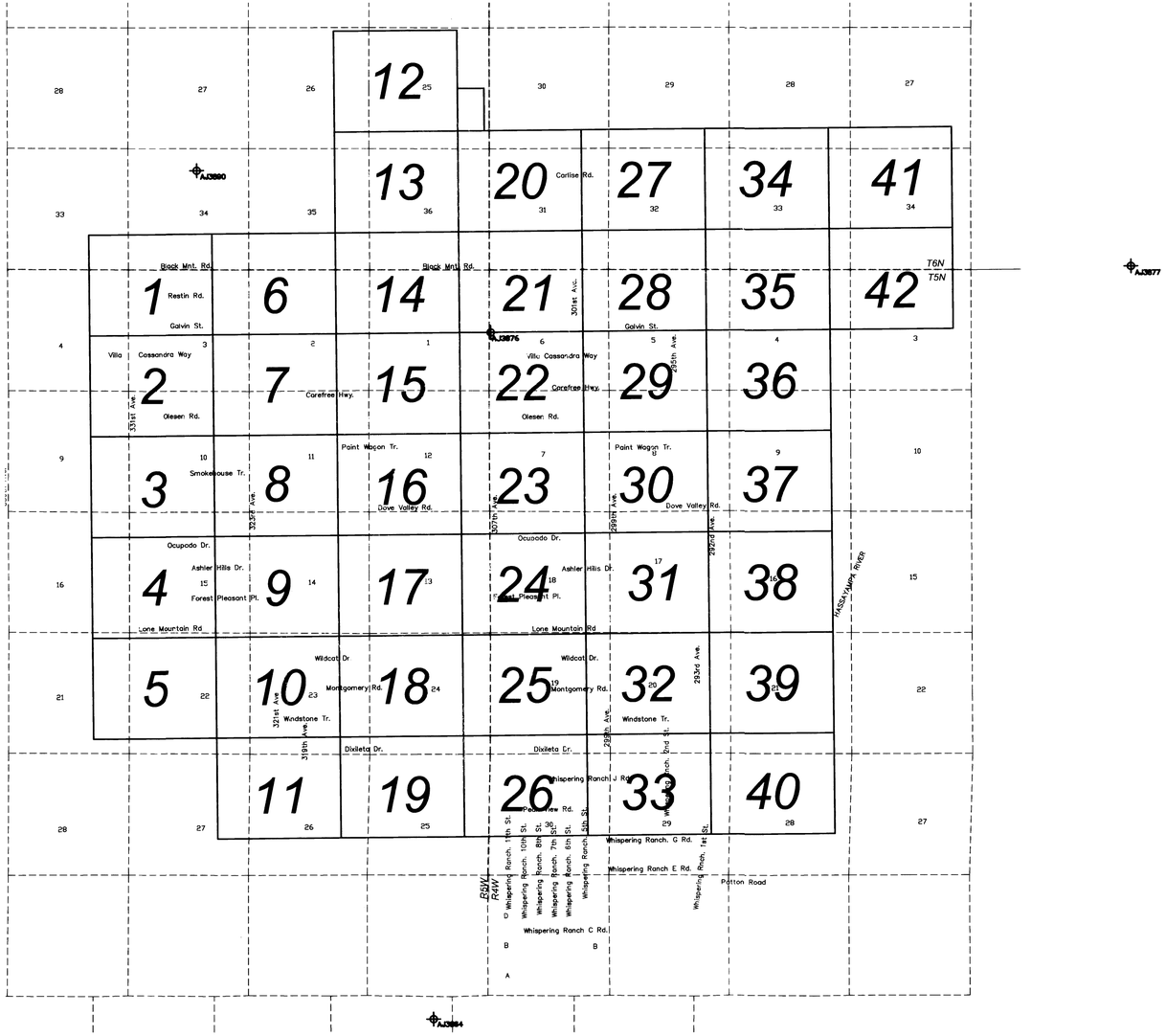
THE ZONE AE FLOODPLAIN AND FLOODWAY DELINEATION WERE PREPARED UNDER MY DIRECT SUPERVISION USING HYDROLOGY FROM FCD 90-05, 2000C019 AND NEW HYDROLOGY UNDER THIS CONTRACT.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS/STAR WASH ZONE AE FLOODPLAIN DELINEATION STUDY

FCD CONTRACT NO. 2006C008





ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4II2	990992.575	451804.915	1621.916
AJ3877	4KG2	1023571.919	482648.159	1844.528
AJ3876	4KI2	1020923.842	454596.886	1884.856
AJ3890	4KJ2	1028100.873	441793.271	2006.007

Drawer 303

LEGEND

TOWNSHIP BOUNDARY

SECTION NUMBER/BOUNDARY

ROAD

SHEET OUTLINE AND NUMBER

28

Carefree Hwy.

5

NOTES

1. HORIZONTAL PROJECTION IS ARIZONA STATE PLANE CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
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SCALE

3000' 0' 3000' 6000'

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) 24999 JEFFREY R MINCH Date Signed 9-29-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

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TEMPE, ARIZONA - 480-752-2124

WP# 062793

Upper Daggs/Star Wash Zone AE FDS
Wood/Patel; JE Fuller & J2 for FCD
FCD 2006C008 Drawer 303

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET-INDEX_5.15.08.dwg

LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1965

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 1,004,000 N 430,000 E

ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

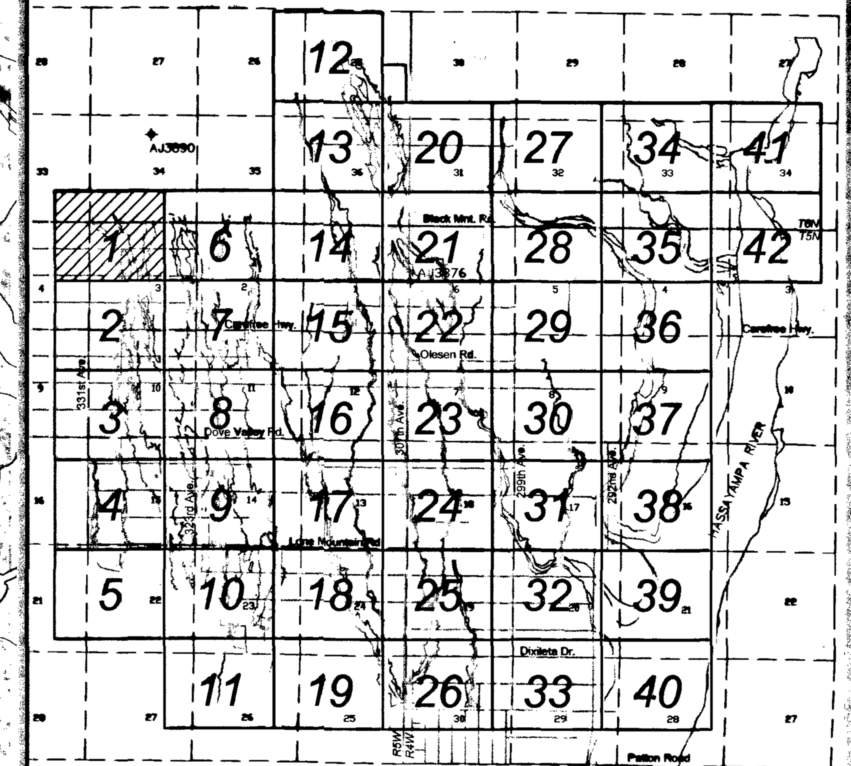
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY
(GDACS)
CONTROL STATIONS

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

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

N

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil)
CERTIFICATE NO. 29325
BRIAN R. ISERMAN
Date Signed 9-2-08
ARIZONA, U.S.A.
Expires 9-30-2010

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WP# 062793

SHEET 1 OF 42

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET01.dwg - Apr 21,2009 11:35am

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 1

MATCH SHEET 3

MATCH SHEET 2

1,020,000 N
1,019,000 N
1,018,000 N
1,017,000 N
438,000 E
439,000 E
440,000 E
441,000 E
442,000 E

W VILLA CASSANDRA WAY
CAREFREE HWY
OKLESEN RD
N 33RD ST AVE

ZONE X
ZONE AE
ZONE A
S23A Zone A/2
S10A Zone A

T5-R5-S34C REACH S34C-1
T5-R5-S34C REACH S34C-2
T5-R5-S34C REACH S34C-3
T5-R5-S34C REACH S34C-4
T5-R5-S33B REACH S33A-1
T5-R5-S10A REACH S10A-1
T5-R5-S23A REACH S23A-1

3.408 Q=1180 cfs Fp=1907.7 Fw=1907.7
3.348 Q=1180 cfs Fp=1904.9 Fw=1905.4
0.060 Q=1820 cfs Fp=1905.9 Fw=1906.2
3.282 Q=3000 cfs Fp=1901.6 Fw=1902.0
3.235 Q=3000 cfs Fp=1898.9 Fw=1899.3
3.191 Q=3000 cfs Fp=1896.4 Fw=1896.9
3.142 Q=3000 cfs Fp=1893.8 Fw=1894.2
3.087 Q=3000 cfs Fp=1890.1 Fw=1890.7
3.023 Q=3000 cfs Fp=1886.5 Fw=1886.9
2.971 Q=3000 cfs Fp=1883.6 Fw=1884.2
2.892 Q=3000 cfs Fp=1878.8 Fw=1879.1
2.836 Q=3000 cfs Fp=1875.9 Fw=1875.9
4.688 Q=783 cfs Fp=1874.6 Fw=1874.6
4.618 Q=783 cfs Fp=1871.2 Fw=1871.2
2.779 Q=2217 cfs Fp=1872.1 Fw=1872.1
4.550 Q=783 cfs Fp=1867.3 Fw=1867.3
4.499 Q=783 Fp=1864.4 Fw=1864.4
4.469 Q=783 cfs Fp=1862.8 Fw=1862.8
4.395 Q=247 cfs Fp=1858.5 Fw=1858.5
4.427 Q=247 cfs Fp=1860.4 Fw=1860.4
2.816 Q=2217 cfs Fp=1874.6 Fw=1875.6
2.706 Q=2217 cfs Fp=1867.9 Fw=1867.9
2.648 Q=2217 cfs Fp=1863.9 Fw=1863.9
2.583 Q=2217 cfs Fp=1860.8 Fw=1860.8
1.106 Q=1677 cfs Fp=1908.1 Fw=1908.1
1.021 Q=1962 cfs Fp=1903.6 Fw=1903.6
0.975 Q=1112 cfs Fp=1901.4 Fw=1901.4
0.906 Q=1022 cfs Fp=1896.8 Fw=1896.8
0.849 Q=794 cfs Fp=1892.5 Fw=1892.5
0.780 Q=686 cfs Fp=1887.0 Fw=1887.0
0.723 Q=686 cfs Fp=1882.5 Fw=1882.5
0.666 Q=1536 cfs Fp=1880.4 Fw=1880.4
0.581 Q=1536 cfs Fp=1875.2 Fw=1875.2
0.504 Q=1536 cfs Fp=1870.3 Fw=1870.3
0.426 Q=1536 cfs Fp=1866.4 Fw=1866.4
0.334 Q=1536 cfs Fp=1860.9 Fw=1860.9
0.253 Q=1536 cfs Fp=1856.1 Fw=1856.1

Q=850 cfs
Q=568 cfs

BREAKOUT RETURN FLOW FROM LATERAL STRUCTURES 1475-1525 186 CFS
DETAILED STUDY LIMIT
BREAKOUT 850 cfs
BREAKOUT 0.955 90 cfs
BREAKOUT 0.875 229 cfs
BREAKOUT 0.805 108 cfs
BREAKOUT 4.580 14 cfs
BREAKOUT 536 cfs
LIMIT OF FLOODWAY

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION (e.g. 6.029 Q=2600 cfs Fp=1963.3 Fw=1964.3)
- ZONE DESIGNATIONS (e.g. ZONE AE)
- TOWNSHIP & RANGE (e.g. T6N / T5N, R5W / R4W)
- SECTION BOUNDARY (e.g. 12 | 7 / 13 | 18)
- ELEVATION REFERENCE MARK (e.g. AJ3890)
- HYDRAULIC BASE LINE WITH RIVER MILE (e.g. 1.0)
- BASE FLOOD ELEVATION (e.g. BFE=1985)
- LATERAL WEIR ID AND/OR BREAKOUT FLOW (e.g. 1.023 19 cfs)
- STATE PLANE COORDINATE (e.g. 1,004,000 N / 439,000 E)
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

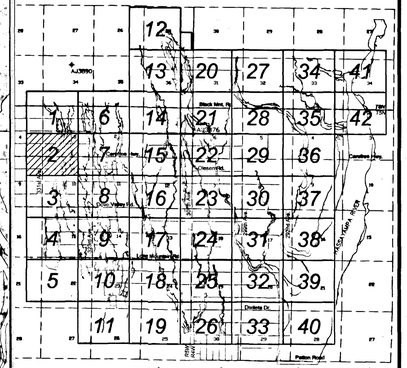
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	41M2	992315.696	395092.070	1820.600

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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Registered Professional Engineer (Civil) 29325 BRIAN R ISERMAN Arizona U.S.A. Expires 9-30-2010

WP# 062793

M:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET02.dwg - Apr 21,2009 11:31am

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FW = 1903.3 FW = 1904.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

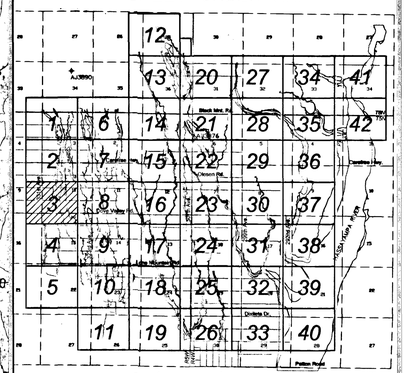
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

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

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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WP# 062793

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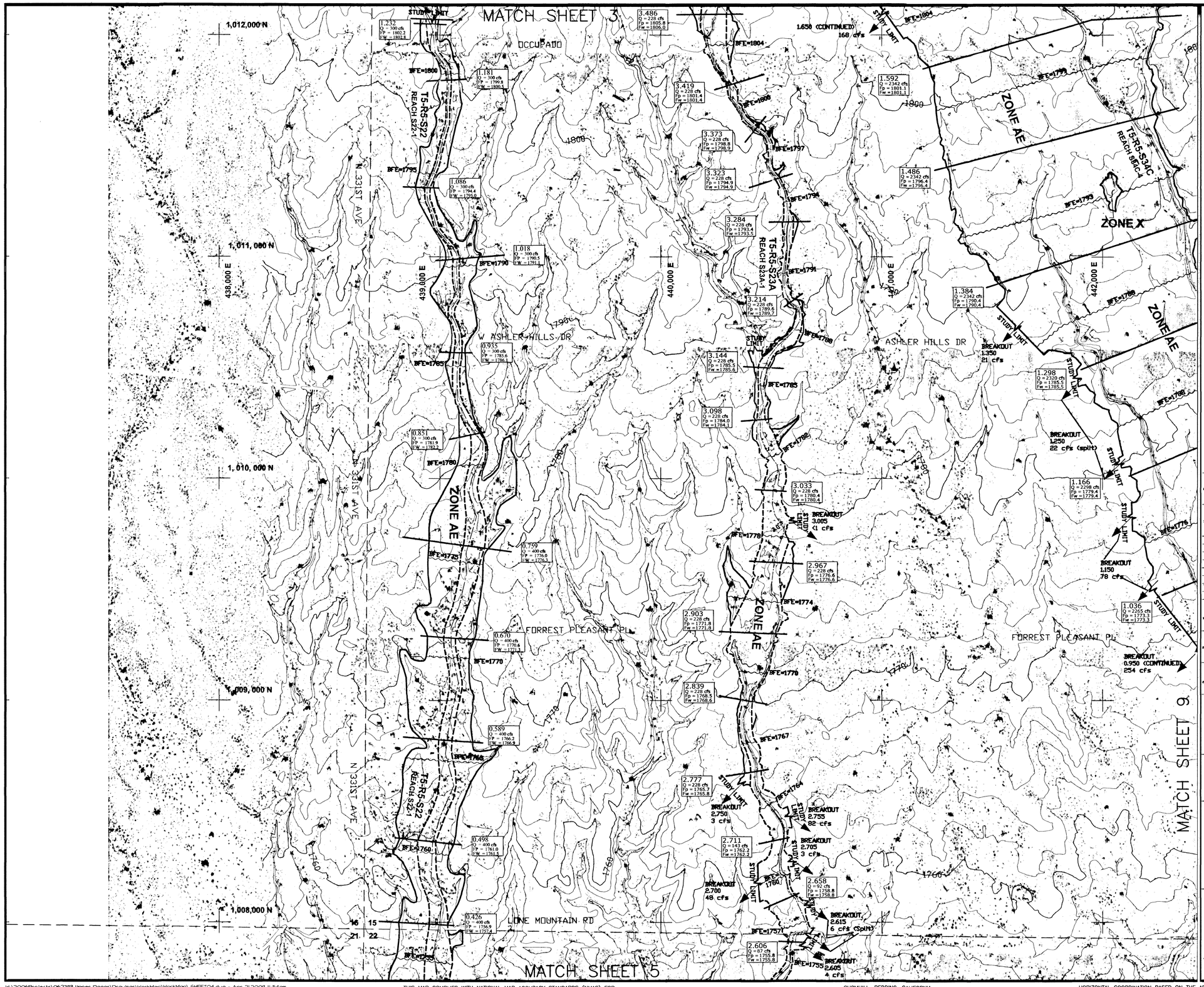
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

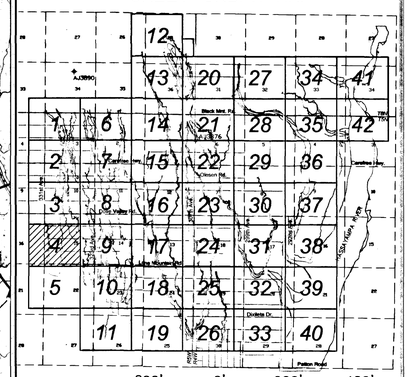
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

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

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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EE FULLER

WP# 062793

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THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR FLOODWAY BOUNDARY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	
100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)	
CROSS SECTION	6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
ZONE DESIGNATIONS	ZONE AE
TOWNSHIP & RANGE	T6N R5W R4W T5N
SECTION BOUNDARY	12 7 13 18
ELEVATION REFERENCE MARK	AJ3890
HYDRAULIC BASE LINE WITH RIVER MILE	1.0
BASE FLOOD ELEVATION	BFE=1985
LATERAL WEIR ID AND/OR BREAKOUT FLOW	1.023 19 cfs
STATE PLANE COORDINATE	430,000 E 1,004,000 N
ZONE BREAK/FLOODWAY LIMIT	(SHOWN AS WHITE)

NOTES

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

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

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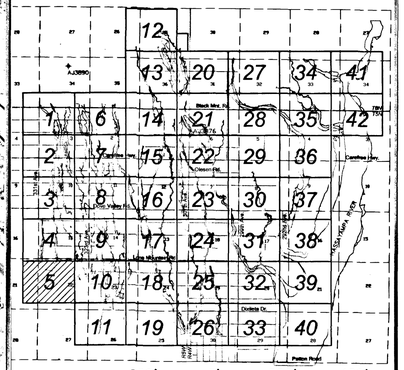
SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) 29325 BRIAN R. ISERMAN ARIZONA, U.S.A.

Expires 3-30-2010

WOOD/PATEL

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WP# 062793

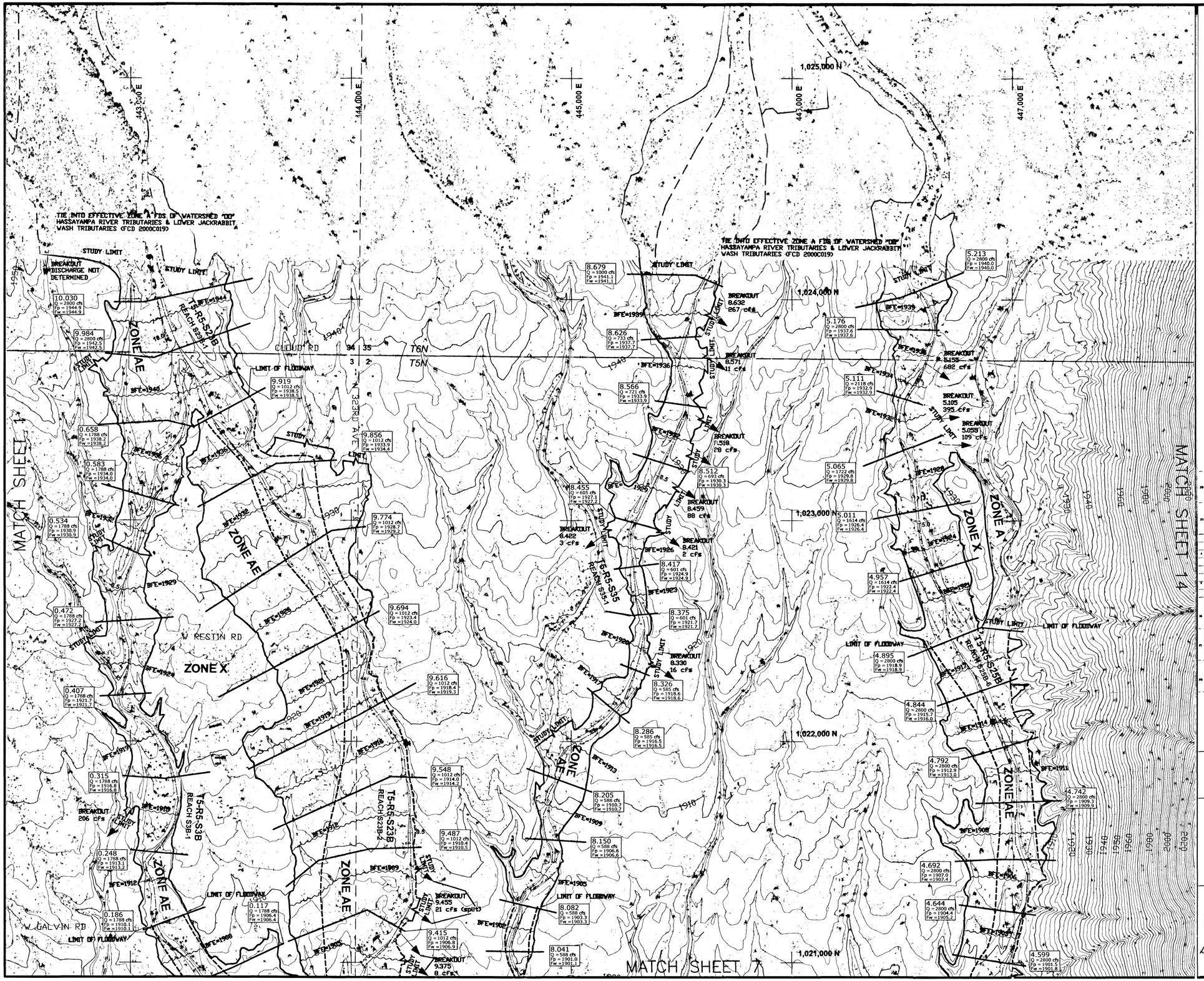
SHEET 5 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET05.dwg - Apr 21,2009 11:56am

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

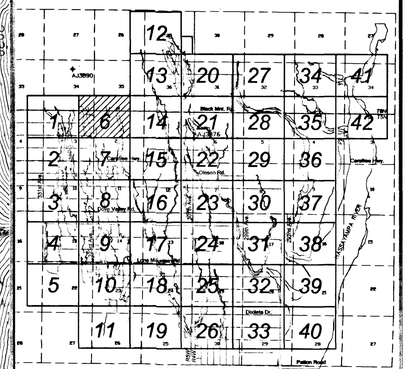
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	41M2	992315.696	395092.070	1820.600

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer — 29335 — BRIAN R. ISERMAN — Expires 9-30-2010

WOOD/PATEL

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TRANSPORTATION / TRAFFIC
WATER / WASTEWATER • SURVEYING
CONSTRUCTION MANAGEMENT
(602) 335-8500
PHOENIX • MESA • TUCSON
IN ASSOCIATION WITH

WP# 062793

SHEET 6 OF 42

MATCH SHEET 6

MATCH SHEET 2

MATCH SHEET 15

MATCH SHEET 8

W VILLA CASSANDRA WAY

CAREFREE HWY

OLESEN RD

LIMIT OF FLOODWAY

ZONE AE

ZONE X

T5-R5-S3B REACH S3B-1

T5-R5-S3B REACH S3B-2

T5-R5-S23B REACH S23B-3

T5-R5-S35 REACH S35-1

T5-R5-S25B REACH S25B-6

T5-R5-S25B REACH S25B-5

T5-R5-S11 REACH S11-1

T5-R5-S10A REACH S10A-1

T5-R5-S25B REACH S25B-4

443,000 E

444,000 E

445,000 E

446,000 E

447,000 E

1,020,000 N

1,019,000 N

1,018,000 N

1,017,000 N

0.117 Q = 1788 cfs Fp = 1906.4 Fw = 1906.4

0.051 Q = 1788 cfs Fp = 1902.3 Fw = 1902.3

9.290 Q = 2800 cfs Fp = 1899.4 Fw = 1899.6

9.230 Q = 2800 cfs Fp = 1896.8 Fw = 1896.8

9.154 Q = 2800 cfs Fp = 1892.8 Fw = 1893.1

9.053 Q = 2800 cfs Fp = 1887.8 Fw = 1888.0

8.965 Q = 2800 cfs Fp = 1881.6 Fw = 1881.7

8.863 Q = 2800 cfs Fp = 1876.3 Fw = 1877.0

8.759 Q = 2800 cfs Fp = 1871.4 Fw = 1872.0

8.699 Q = 2938 cfs Fp = 1867.3 Fw = 1867.6

8.517 Q = 2938 cfs Fp = 1855.9 Fw = 1855.9

8.437 Q = 2938 cfs Fp = 1852.0 Fw = 1852.0

9.340 Q = 1012 cfs Fp = 1902.3 Fw = 1902.3

BREAKOUT 9.375 8 cfs (see Sheet 6)

BREAKOUT 9.205 16 cfs

BREAKOUT 9.105 61 cfs

7.987 Q = 588 cfs Fp = 1897.3 Fw = 1897.3

7.954 Q = 588 cfs Fp = 1895.8 Fw = 1895.8

7.904 Q = 588 cfs Fp = 1893.2 Fw = 1893.2

7.849 Q = 604 cfs Fp = 1890.5 Fw = 1890.5

7.792 Q = 604 cfs Fp = 1886.7 Fw = 1886.7

7.745 Q = 604 cfs Fp = 1884.3 Fw = 1884.3

7.693 Q = 604 cfs Fp = 1881.1 Fw = 1881.4

7.638 Q = 604 cfs Fp = 1878.8 Fw = 1878.8

7.549 Q = 604 cfs Fp = 1874.0 Fw = 1874.2

7.471 Q = 604 cfs Fp = 1870.0 Fw = 1870.3

7.387 Q = 604 cfs Fp = 1865.0 Fw = 1866.0

7.302 Q = 499 cfs Fp = 1860.8 Fw = 1860.8

7.218 Q = 466 cfs Fp = 1855.7 Fw = 1855.7

7.121 Q = 604 cfs Fp = 1850.3 Fw = 1850.3

8.608 Q = 2938 cfs Fp = 1862.6 Fw = 1862.7

4.551 Q = 2800 cfs Fp = 1899.1 Fw = 1899.6

4.500 Q = 2800 cfs Fp = 1896.0 Fw = 1896.6

4.457 Q = 2800 cfs Fp = 1893.5 Fw = 1893.8

4.402 Q = 2800 cfs Fp = 1890.3 Fw = 1890.3

4.348 Q = 2800 cfs Fp = 1886.7 Fw = 1886.8

4.291 Q = 2800 cfs Fp = 1883.1 Fw = 1883.4

4.234 Q = 2800 cfs Fp = 1879.4 Fw = 1879.5

4.195 Q = 2800 cfs Fp = 1877.2 Fw = 1877.2

4.112 Q = 2800 cfs Fp = 1873.0 Fw = 1873.0

4.069 Q = 1214 cfs Fp = 1870.5 Fw = 1870.5

4.024 Q = 1214 cfs Fp = 1867.9 Fw = 1867.9

3.974 Q = 1129 cfs Fp = 1865.4 Fw = 1865.4

3.950 Q = 886 cfs Fp = 1861.2 Fw = 1861.2

3.906 Q = 886 cfs Fp = 1861.2 Fw = 1861.2

3.805 Q = 857 cfs Fp = 1855.1 Fw = 1855.1

3.720 Q = 662 cfs FP = 1849.1 FW = 1849.1

6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

0.414 Q = 1586 cfs Fp = 1870.9 Fw = 1870.9

0.367 Q = 1586 cfs Fp = 1868.7 Fw = 1868.7

0.305 Q = 1982 cfs Fp = 1863.7 Fw = 1863.7

0.240 Q = 1982 cfs Fp = 1860.7 Fw = 1860.7

0.183 Q = 1982 cfs Fp = 1857.6 Fw = 1857.6

0.104 Q = 1982 cfs Fp = 1853.0 Fw = 1853.0

0.253 Q = 1536 cfs Fp = 1856.1 Fw = 1856.1

BREAKOUT 0.985 16 cfs

BREAKOUT 4.005 42 cfs

BREAKOUT 4.010 43 cfs

BREAKOUT 0.315 24 cfs

BREAKOUT 3.935 168 cfs

BREAKOUT 3.950 76 cfs

BREAKOUT 3.905 28 cfs

BREAKOUT 12 cfs

BREAKOUT 7.340 105 cfs

BREAKOUT 7.260 33 cfs

BREAKOUT 4.155 14 cfs

BREAKOUT 195 cfs

BREAKOUT 1305 cfs

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
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- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

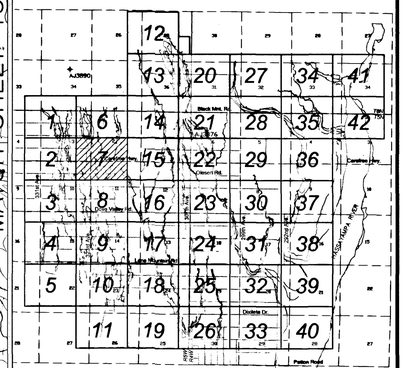
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3890	4KJ2	1028100.873	441793.271	2006.007

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
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HE FULLER

WP# 062793

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET07.dwg - Apr 21,2009 12:18pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 7

MATCH SHEET 3

MATCH SHEET 9

MATCH SHEET 9

W SMOKEHOUSE TRAIL

W DOVE VALLEY RD

PAINT YOUR WAGON TRAIL

N 323RD AVE

N 323RD AVE

N 323RD AVE

ZONE AE

ZONE X

ZONE AE

ZONE X

ZONE AE

ZONE X

ZONE AE

ZONE AE

T5-R5-S23B REACH S23B-1

T5-R5-S23B REACH S23B-2

T5-R5-S23B REACH S23B-3

T5-R5-S23B REACH S23B-4

T5-R5-S23B REACH S23B-5

T5-R5-S14 REACH S14-1

T5-R5-S35 REACH S35-1

T5-R5-S35 REACH S35-2

T5-R5-S1A REACH S1A-1

T5-R5-S25B REACH S25B-4

STUDY LIMIT

BREAKOUT 8.405 263 cfs

BREAKOUT 0.105 32 cfs (split)

BREAKOUT 7.000 79 cfs

BREAKOUT 6.900 158 cfs

BREAKOUT 1.000 <1 cfs

BREAKOUT 0.900 140 cfs

BREAKOUT 0.800 302 cfs (split)

BREAKOUT 0.750 39 cfs (split)

BREAKOUT 7.605 10 cfs

0.205 1 cfs

0.172 Q = 1536 cfs Fp = 1853.2 Fw = 1853.2

8.360 Q = 2675 cfs Fp = 1847.5 Fw = 1847.5

0.096 Q = 1536 cfs Fp = 1848.3 Fw = 1848.3

8.302 Q = 2675 cfs Fp = 1844.5 Fw = 1844.5

7.036 Q = 1282 cfs Fp = 1845.8 Fw = 1845.9

3.628 Q = 662 cfs Fp = 1842.6 Fw = 1843.0

6.029 Q = 2800 cfs Fp = 1963.3 Fw = 1964.3

6.957 Q = 1203 cfs Fp = 1841.5 Fw = 1841.5

0.029 Q = 1962 cfs Fp = 1844.3 Fw = 1844.3

8.250 Q = 4637 cfs Fp = 1841.5 Fw = 1841.5

6.851 Q = 1045 cfs Fp = 1835.9 Fw = 1835.9

8.202 Q = 4637 cfs Fp = 1837.8 Fw = 1837.8

6.732 Q = 1308 cfs Fp = 1828.5 Fw = 1828.5

8.114 Q = 4637 cfs Fp = 1833.5 Fw = 1833.5

8.052 Q = 4637 cfs Fp = 1830.2 Fw = 1830.2

7.986 Q = 4637 cfs Fp = 1826.8 Fw = 1826.8

6.669 Q = 1308 cfs Fp = 1825.1 Fw = 1825.1

7.898 Q = 4637 cfs Fp = 1821.6 Fw = 1821.6

7.863 Q = 1677 cfs Fp = 1819.6 Fw = 1819.6

1.007 Q = 2960 cfs Fp = 1819.7 Fw = 1819.7

6.508 Q = 1308 cfs Fp = 1816.2 Fw = 1816.2

7.791 Q = 1677 cfs Fp = 1815.7 Fw = 1815.7

0.945 Q = 2960 cfs Fp = 1815.9 Fw = 1815.9

6.388 Q = 1308 cfs Fp = 1809.6 Fw = 1809.7

0.869 Q = 2920 cfs Fp = 1812.4 Fw = 1812.4

7.713 Q = 1677 cfs Fp = 1811.6 Fw = 1811.6

0.783 Q = 2518 cfs Fp = 1807.3 Fw = 1807.3

0.733 Q = 2479 cfs Fp = 1804.9 Fw = 1804.9

6.248 Q = 1308 cfs Fp = 1802.0 Fw = 1802.0

7.616 Q = 1677 cfs Fp = 1806.2 Fw = 1806.2

0.672 Q = 2479 cfs Fp = 1802.3 Fw = 1802.3

7.521 Q = 1677 cfs Fp = 1800.5 Fw = 1800.5

0.622 Q = 2479 cfs Fp = 1799.6 Fw = 1799.6

6.142 Q = 1308 cfs Fp = 1796.0 Fw = 1796.1

1,016,000 N

1,015,000 N

1,014,000 N

1,013,000 N

445,000 E

447,000 E

1840

1830

1820

1810

1800

BFE=1850

BFE=1849

BFE=1846

BFE=1844

BFE=1843

BFE=1841

BFE=1840

BFE=1839

BFE=1836

BFE=1834

BFE=1832

BFE=1831

BFE=1829

BFE=1827

BFE=1826

BFE=1823

BFE=1822

BFE=1820

BFE=1819

BFE=1818

BFE=1814

BFE=1812

BFE=1810

BFE=1809

BFE=1807

BFE=1806

BFE=1804

BFE=1803

BFE=1801

BFE=1797

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs Fp = 1963.3 Fw = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

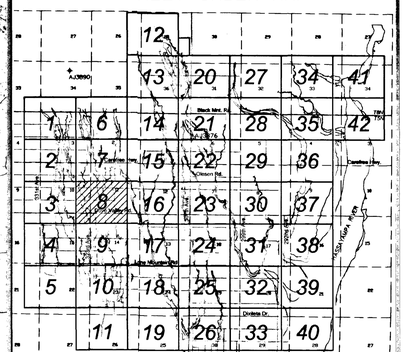
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3890	4KJ2	1028100.873	441793.271	2006.007

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

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CH2MHILL

WP# 062793

SHEET 8 OF 42

n:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET08.dwg - Apr 21,2009 12:19pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 8

MATCH SHEET 4

MATCH SHEET 10

MATCH SHEET 17

W OCCUPADO

W ASHLER HILLS DR

N 323RD AVE

FORREST PLEASANT PL

LONE MOUNTAIN RD

1,012,000 N

1,011,000 N

1,010,000 N

1,009,000 N

1,008,000 N

443,000 E

444,000 E

446,000 E

447,000 E

ZONE AE

ZONE A

ZONE X

STUDY LIMIT

LIMIT OF FLOODWAY

7.521 Q = 1677 cfs Fp = 1800.5 Fw = 1800.5

7.462 Q = 1677 cfs Fp = 1797.6 Fw = 1792.6

BREAKOUT 273 cfs

7.373 Q = 1404 cfs Fp = 1792.8 Fw = 1792.8

.384 Q = 2342 cfs Fp = 1790.4 Fw = 1790.4

1.298 Q = 2100 cfs Fp = 1785.5 Fw = 1785.5

1.166 Q = 2298 cfs Fp = 1779.4 Fw = 1779.4

7.274 Q = 2287 cfs Fp = 1787.9 Fw = 1787.9

7.193 Q = 2283 cfs Fp = 1784.1 Fw = 1784.1

BREAKOUT 7.155 46 cfs

7.119 Q = 2238 cfs Fp = 1779.9 Fw = 1779.9

BREAKOUT 7.115 214 cfs

7.051 Q = 2023 cfs Fp = 1777.4 Fw = 1777.4

BREAKOUT 1.155 228 cfs

1.036 Q = 2265 cfs Fp = 1773.3 Fw = 1773.3

6.983 Q = 2023 cfs Fp = 1773.7 Fw = 1773.7

6.923 Q = 2138 cfs Fp = 1770.5 Fw = 1770.5

6.864 Q = 2055 cfs Fp = 1767.4 Fw = 1767.4

6.814 Q = 1966 cfs Fp = 1763.8 Fw = 1763.8

0.950 (CONT.) 254 cfs

0.913 Q = 2011 cfs Fp = 1767.7 Fw = 1767.7

0.850 125 cfs

0.822 Q = 2113 cfs Fp = 1762.8 Fw = 1762.8

6.754 Q = 1966 cfs Fp = 1760.7 Fw = 1760.7

6.692 Q = 1966 cfs Fp = 1757.0 Fw = 1757.1

0.750 47 cfs

0.727 Q = 2028 cfs Fp = 1758.5 Fw = 1758.5

0.680 9 cfs

BREAKOUT 0.685 38 cfs

0.622 Q = 2479 cfs Fp = 1799.6 Fw = 1799.6

BREAKOUT 0.570 9 cfs

0.198 Q = 401 cfs Fp = 1795.7 Fw = 1795.7

0.126 Q = 401 cfs Fp = 1791.5 Fw = 1791.5

BREAKOUT 0.135 1 cfs

BREAKOUT 0.400 3 cfs

BREAKOUT 7.255 3 cfs

BREAKOUT 0.555 12 cfs

BREAKOUT 0.505 2 cfs

6.905 100 cfs

6.935 88 cfs

6.970 47 cfs

0.593 Q = 953 cfs Fp = 1779.6 Fw = 1779.6

0.525 Q = 953 cfs Fp = 1776.3 Fw = 1776.3

0.465 Q = 953 cfs Fp = 1772.0 Fw = 1772.0

0.399 Q = 1002 cfs Fp = 1768.1 Fw = 1768.1

0.342 Q = 1002 cfs Fp = 1766.2 Fw = 1766.2

0.247 Q = 1186 cfs Fp = 1760.9 Fw = 1760.9

0.177 Q = 976 cfs Fp = 1757.9 Fw = 1757.9

0.154 Q = 214 cfs Fp = 1753.9 Fw = 1754.6

0.110 Q = 972 cfs Fp = 1753.8 Fw = 1753.8

0.560 Q = 2479 cfs Fp = 1796.6 Fw = 1796.6

0.535 Q = 2078 cfs Fp = 1795.3 Fw = 1795.3

BREAKOUT 0.505 134 cfs

0.460 Q = 2078 cfs Fp = 1790.9 Fw = 1790.9

BREAKOUT 0.405 2 cfs

0.397 Q = 2078 cfs Fp = 1787.3 Fw = 1787.3

0.345 Q = 1125 cfs Fp = 1784.7 Fw = 1784.7

0.670 Q = 953 cfs Fp = 1783.9 Fw = 1783.9

0.268 Q = 1125 cfs Fp = 1780.5 Fw = 1780.5

0.230 4 cfs STUDY LIMIT

0.205 Q = 1125 cfs Fp = 1777.6 Fw = 1777.6

0.170 17 cfs

0.147 Q = 1125 cfs Fp = 1773.9 Fw = 1773.9

0.699 Q = 87 cfs Fp = 1758.7 Fw = 1758.9

0.611 Q = 87 cfs Fp = 1754.1 Fw = 1754.4

0.552 Q = 87 cfs Fp = 1749.1 Fw = 1749.2

6.142 Q = 1308 cfs Fp = 1796.0 Fw = 1796.1

6.039 Q = 1308 cfs Fp = 1791.6 Fw = 1791.6

BREAKOUT 448 cfs

5.925 Q = 867 cfs Fp = 1784.3 Fw = 1784.3

5.840 Q = 867 cfs Fp = 1780.4 Fw = 1780.4

5.726 Q = 3164 cfs Fp = 1773.7 Fw = 1773.7

5.661 Q = 4289 cfs Fp = 1769.- Fw = 1769.-

5.543 Q = 4289 cfs Fp = 1763.7 Fw = 1763.7

BREAKOUT 5.501 44 cfs

5.473 Q = 4017 cfs Fp = 1760.8 Fw = 1760.8

BREAKOUT 5.401 39 cfs

5.394 Q = 2967 cfs Fp = 1756.2 Fw = 1756.2

BREAKOUT 5.300 132 cfs

5.274 Q = 2835 cfs Fp = 1751.7 Fw = 1751.7

BREAKOUT 5.200 132 cfs

1.337 Q = 1239 cfs Fp = 1754.7 Fw = 1754.7

1.247 Q = 1239 cfs Fp = 1751.7 Fw = 1751.8

T5-R5-S14 REACH S14-1

T5-R5-S14 REACH S14B

T5-R5-S14 REACH S14-2

T5-R5-S14 REACH S14-3

T5-R5-S35 REACH S35-2

T5-R5-S23B REACH S23B-5

T5-R5-S23B REACH S23B-6

T5-R5-S23E REACH S23E-1

T5-R5-S23E REACH S23E-2

T5-R5-S23E REACH S23E-3

T5-R5-S23F REACH S23F-1

T5-R5-S23C REACH S23C-2

T5-R5-S35 REACH S35-3

T5-R5-S23D REACH S23D-1

T5-R5-S34C REACH S34C-1

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FW = 1963.3 FW = 1964.3
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NOTES

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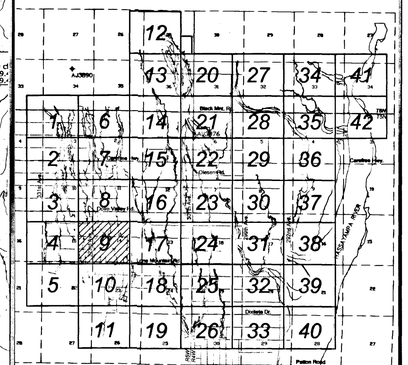
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	41M2	992315.696	395092.070	1820.600

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

29325 BRIAN R. ISERMAN — Expires 9-30-2010

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R. E. FULLER ENGINEERING

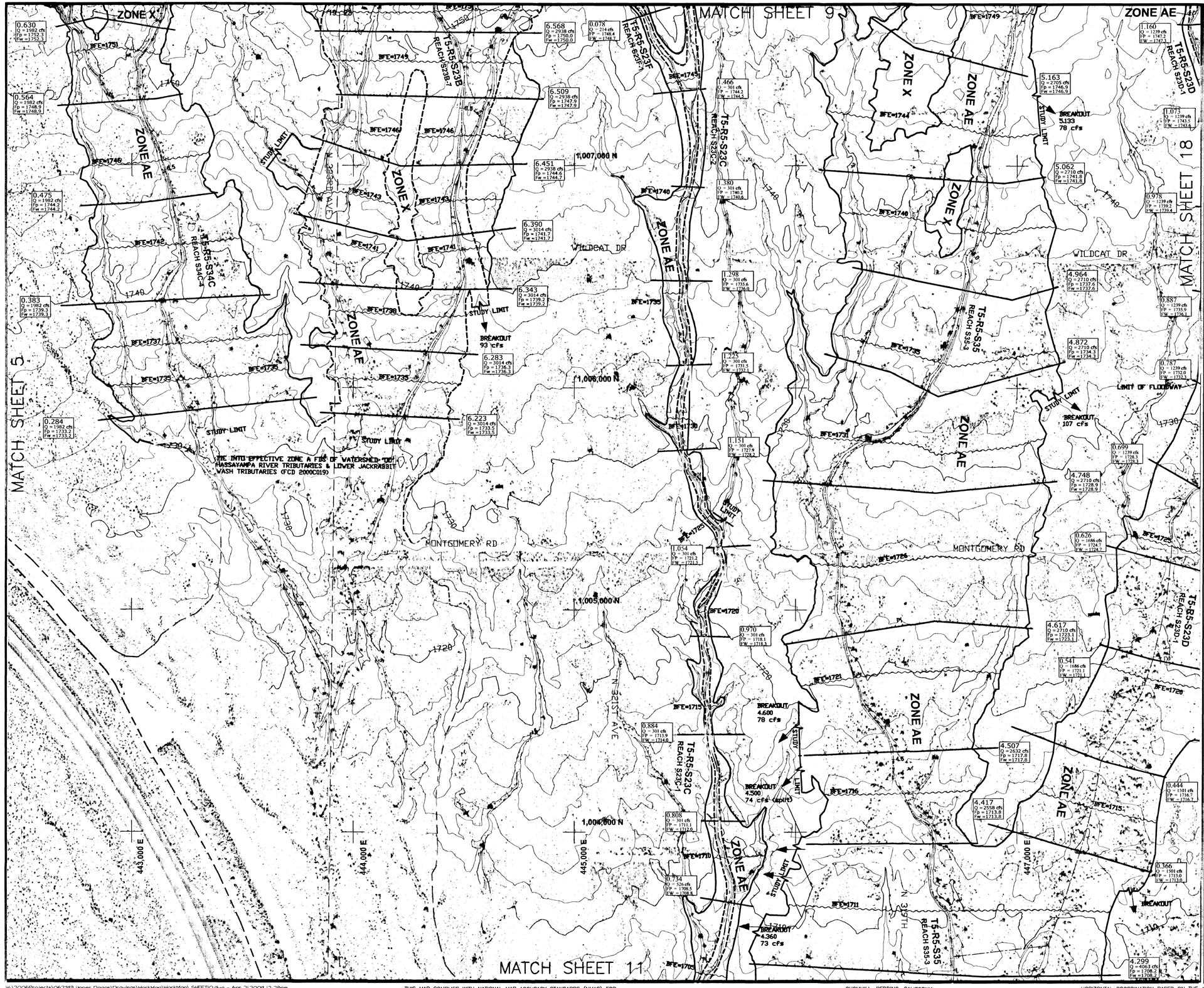
WP# 062793

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET09.dwg - Apr 21,2009 12:21pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R4W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

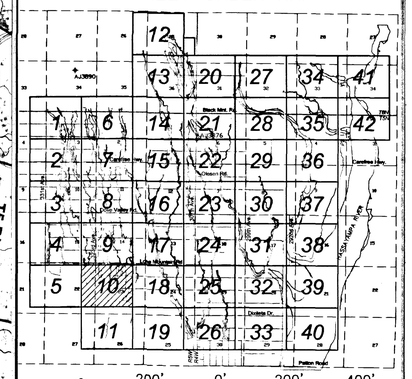
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	4IM2	992315.696	395092.070	1820.800

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



SCALE: 1" = 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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FR FULLER

REGISTERED PROFESSIONAL ENGINEER — 29325 — BRIAN R. ISERMAN — ARIZONA U.S.A. — Expires 3-30-2010

VP# 062793

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET10.dwg - Apr 21,2009 12:28pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1" = 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 430,000 E 1,004,000 N

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

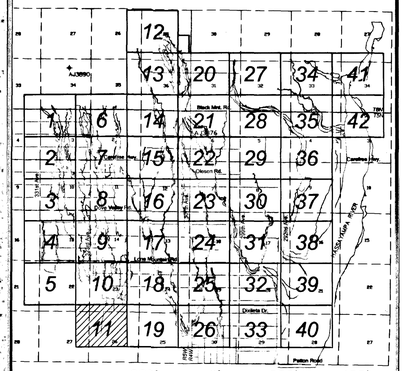
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

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

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

N

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer
29325
BRIAN R. ISERMAN
Expires 4-30-2010

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WP# 062793

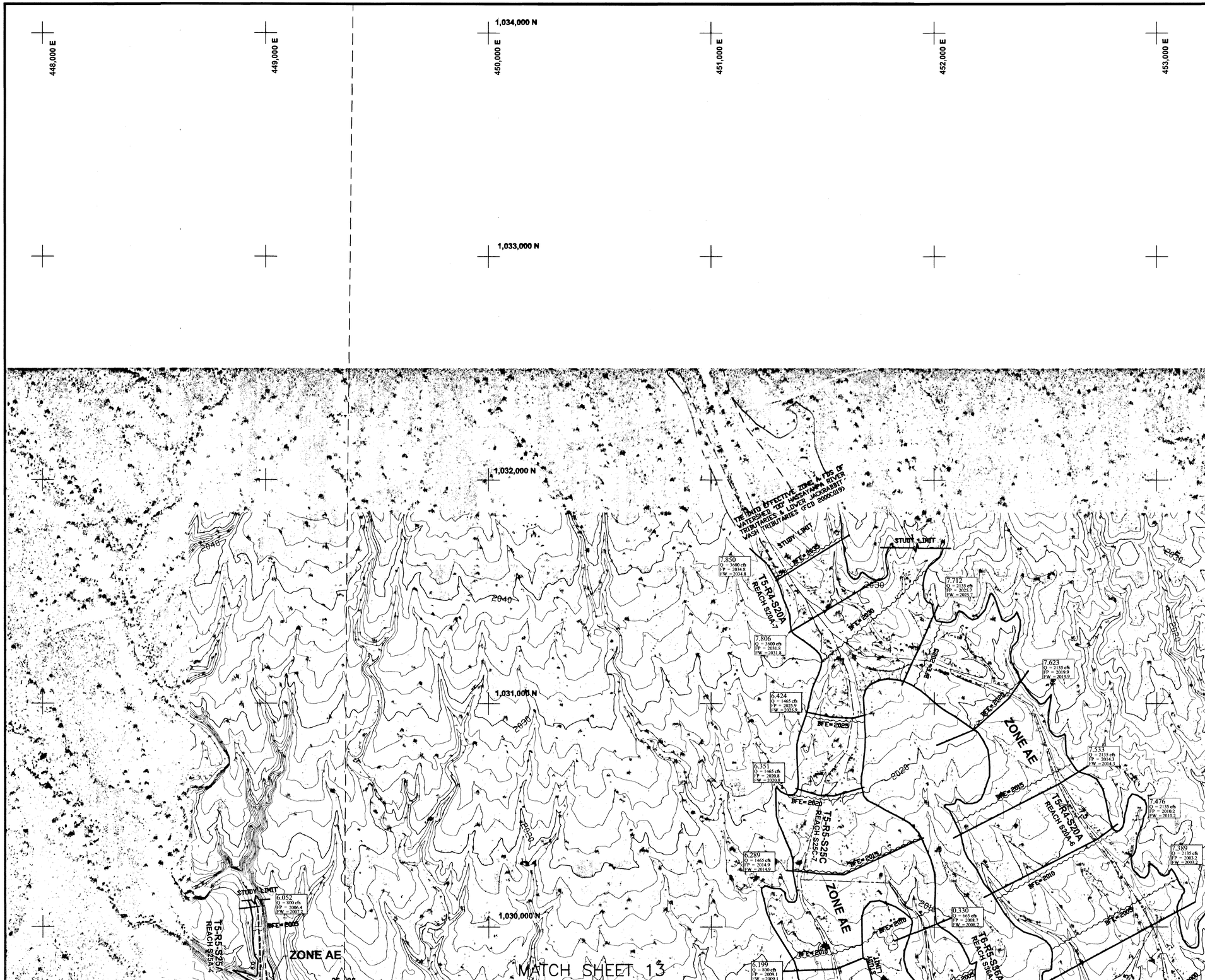
SHEET 11 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET11.dwg - Apr 21,2009 12:30pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 430,000 E 1,004,000 N

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

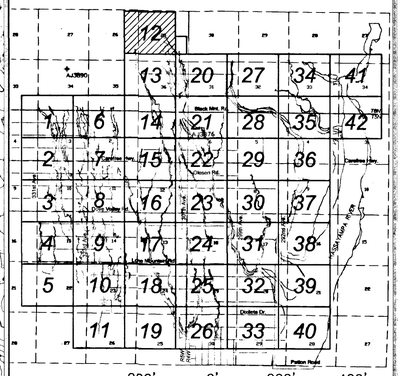
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3890	4KJ2	1028100.873	441793.271	2006.007

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-08 ARIZONA, U.S.A.

EXPIRES 09-30-09

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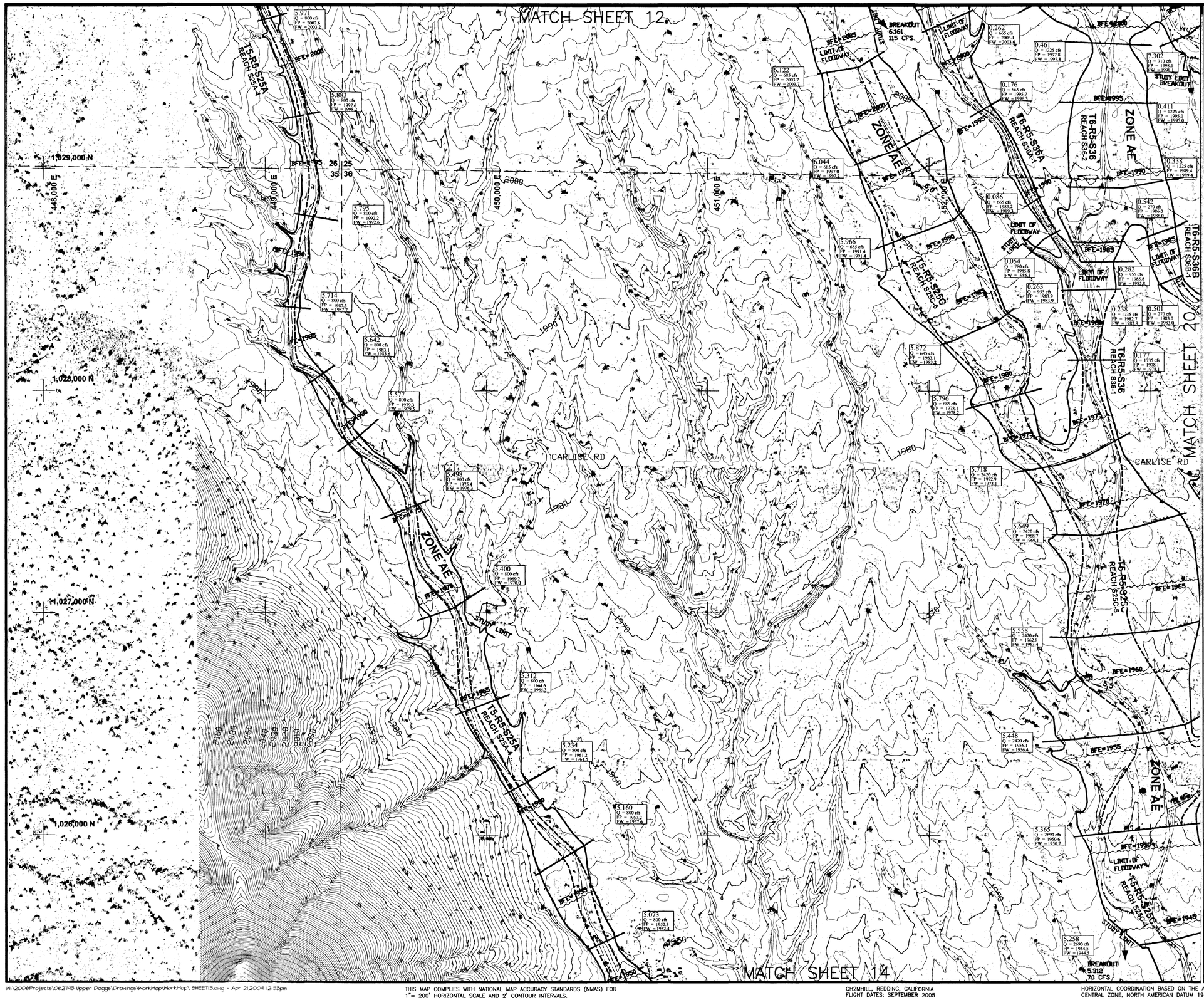
WP# 062793 12 SHEET OF 42

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET12.dwg - Apr 21,2009 12:51pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 1,004,998 N / 430,000 E
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

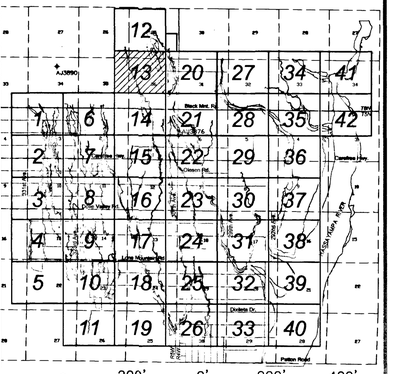
NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3890	4KJ2	1028100.873	441793.271	2006.007

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 24999 — JEFFREY R. MINCH — Date Signed 9-2-08 — ARIZONA, U.S.A.

EXPIRES 09-30-09

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WP# 062793

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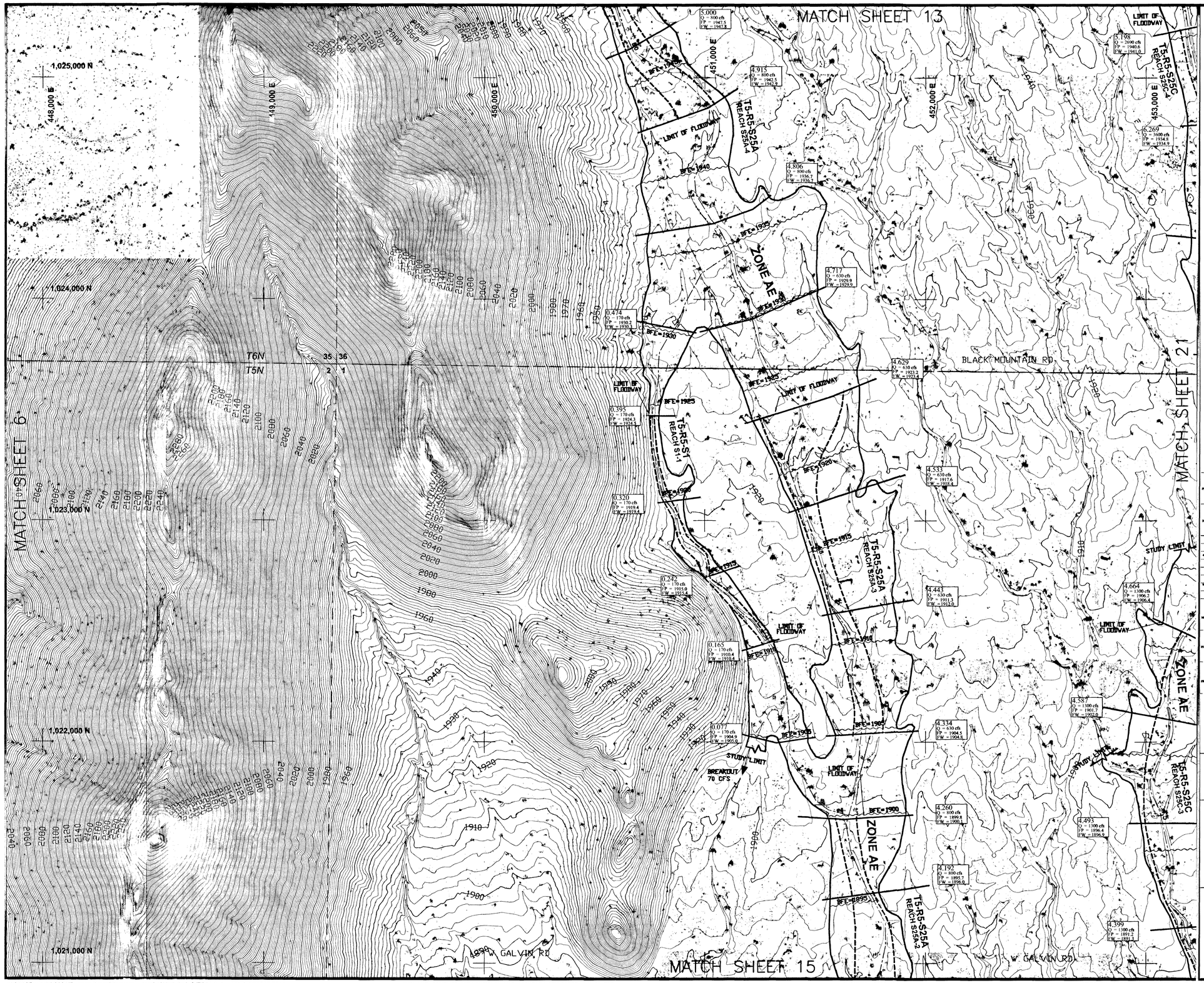
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1905
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

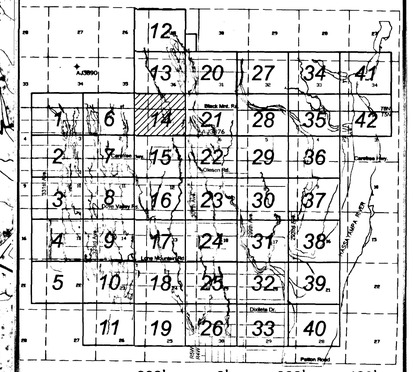
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3875	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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Registered Professional Engineer (Civil) 24999 JEFFREY R. MINCH Date Signed 9-24-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

WP# 062793

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THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 14

MATCH SHEET 7

MATCH SHEET 22

MATCH SHEET 16

W VILLA CASSANDRA WAY

CAREFREE HWY

1,020,000 N

1,019,000 N

1,018,000 N

1,017,000 N

448,000 E

450,000 E

451,000 E

452,000 E

453,000 E

STUDY LIMIT

ZONE AE

ZONE X

LIMIT OF FLOODWAY

FAN LIMIT

BREAKOUT

T5-R5-S25A REACH S25A-2

T5-R5-S13B REACH S13B-3

T5-R5-S12 REACH S12-1

T5-R5-S13B REACH S13B-2

T5-R5-S25A REACH S25A-1

1.202 Q = 700 cfs FP = 1860.9 FW = 1861.8

1.143 Q = 700 cfs FP = 1856.5 FW = 1857.4

1.099 Q = 700 cfs FP = 1853.2 FW = 1853.4

1.017 Q = 700 cfs FP = 1848.0 FW = 1848.6

0.957 Q = 700 cfs FP = 1844.8 FW = 1845.4

0.890 Q = 700 cfs FP = 1841.5 FW = 1842.1

0.809 Q = 700 cfs FP = 1837.0 FW = 1837.8

0.748 Q = 700 cfs FP = 1834.4 FW = 1835.0

0.686 Q = 700 cfs FP = 1832.5 FW = 1833.2

0.627 Q = 700 cfs FP = 1829.3 FW = 1829.6

0.538 Q = 700 cfs FP = 1823.7 FW = 1824.4

3.628 Q = 662 cfs FP = 1842.6 FW = 1843.0

3.720 Q = 662 cfs FP = 1849.1 FW = 1849.7

1.729 Q = 400 cfs FP = 1871.7 FW = 1872.3

1.645 Q = 400 cfs FP = 1866.0 FW = 1866.4

1.559 Q = 400 cfs FP = 1860.8 FW = 1861.8

1.475 Q = 400 cfs FP = 1854.9 FW = 1855.8

1.393 Q = 400 cfs FP = 1849.8 FW = 1850.0

1.296 Q = 400 cfs FP = 1844.9 FW = 1845.5

1.201 Q = 400 cfs FP = 1838.2 FW = 1838.4

1.847 Q = 400 cfs FP = 1879.9 FW = 1879.9

3.994 Q = 400 cfs FP = 1884.4 FW = 1884.4

4.095 Q = 800 cfs FP = 1890.5 FW = 1890.5

3.922 Q = 400 cfs FP = 1879.8 FW = 1879.8

3.872 Q = 400 cfs FP = 1876.4 FW = 1876.6

3.797 Q = 400 cfs FP = 1872.2 FW = 1872.3

3.718 Q = 400 cfs FP = 1866.9 FW = 1866.9

3.633 Q = 400 cfs FP = 1861.7 FW = 1862.0

3.513 Q = 700 cfs FP = 1855.0 FW = 1855.2

3.424 Q = 700 cfs FP = 1850.8 FW = 1851.1

3.328 Q = 700 cfs FP = 1844.9 FW = 1845.2

3.243 Q = 700 cfs FP = 1840.8 FW = 1841.1

4.329 Q = 1300 cfs FP = 1886.9 FW = 1887.7

4.134 Q = 1300 cfs FP = 1876.8 FW = 1877.0

4.068 Q = 1300 cfs FP = 1872.1 FW = 1872.1

3.768 Q = 865 cfs FP = 1856.4 FW = 1856.5

BFE=1890 BFE=1880 BFE=1875 BFE=1865 BFE=1860 BFE=1855 BFE=1850 BFE=1845 BFE=1840 BFE=1835

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 1,004,000 N / 430,000 E
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

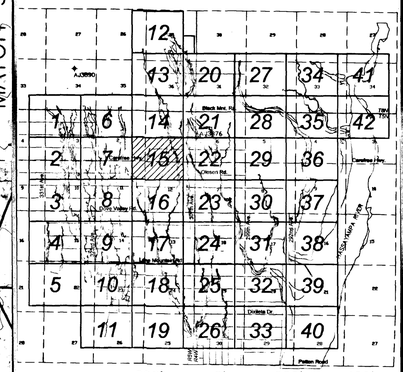
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 24999 — JEFFREY R. MINCH — Date Signed 4-7-09 — ARIZONA, U.S.A.

EXPIRES 09-30-09

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R. FELLER ENGINEERING

WP# 062793

SHEET 15 OF 42

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET15.dwg - Apr 21,2009 12:56pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 15

MATCH SHEET 8

MATCH SHEET 23

MATCH SHEET 17

PAINT YOUR WAGON TRAIL

W DOVE VALLEY RD

ZONE AE

LIMIT OF FLOODWAY

STUDY LIMIT

BREAKOUT 95 CFS

T5-R5-S25B REACH S25B-4

T5-R5-S12 REACH S12-1

T5-R5-S13B REACH S13B-3

T5-R5-S13B REACH S13B-2

T5-R5-S13A REACH S13A-1

T5-R5-S25A REACH S25A-1

T5-R5-S25A REACH S25A-2

448,000 E

450,000 E

452,000 E

453,000 E

1,016,000 N

1,015,000 N

1,014,000 N

1,013,000 N

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION (e.g. 6.029 Q = 2800 cfs, FP = 1963.3, FW = 1964.3)
- ZONE DESIGNATIONS (ZONE AE)
- TOWNSHIP & RANGE (T6N / T5N, R5W / R4W)
- SECTION BOUNDARY (12 | 7 / 13 | 18)
- ELEVATION REFERENCE MARK (AJ3890)
- HYDRAULIC BASE LINE WITH RIVER MILE (1.0)
- BASE FLOOD ELEVATION (BFE=1985)
- LATERAL WEIR ID AND/OR BREAKOUT FLOW (1.023 / 19 cfs)
- STATE PLANE COORDINATE (430,000 E / 1,004,000 N)
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

Elevation (feet)

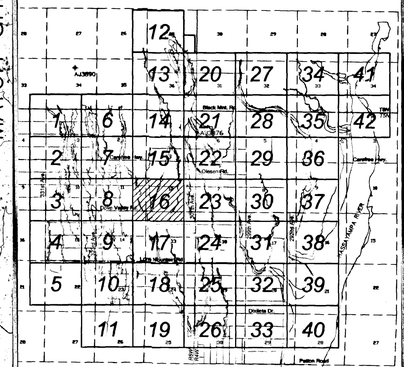
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) 24999 JEFFREY R. MINCH Date Signed 4-15-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

WOOD/PATEL
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IN ASSOCIATION WITH
R. FULLER CONSULTANTS

WP# 062793

SHEET 16 OF 42

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 16

MATCH SHEET 9

MATCH SHEET 24

MATCH SHEET 18

1,012,000 N
1,011,000 N
1,010,000 N
1,009,000 N
1,008,000 E
448,000 E
449,000 E
450,000 E
451,000 E
453,000 E

W OCCUPADO
W ASHLER HILLS DR
FORREST PLEASANT PL
LONE MOUNTAIN RD

STUDY LIMIT
LIMIT OF FLOODWAY
ZONE AE

T5-R5-S13B REACH S13B1
T5-R5-S25B REACH S25B3
T5-R5-S13A REACH S13A-1
T5-R5-S25B REACH S25B-2
T5-R5-S25A REACH S25A-1
T5-R5-S23D REACH S23D-1

2.695 Q = 662 cfs FP = 1785.6 FW = 1785.7
0.119 Q = 380 cfs FP = 1782.4 FW = 1782.4
0.489 Q = 920 cfs FP = 1783.6 FW = 1783.6
0.430 Q = 920 cfs FP = 1780.4 FW = 1781.4
2.589 Q = 1042 cfs FP = 1779.4 FW = 1780.0
0.366 Q = 920 cfs FP = 1778.1 FW = 1778.5
2.308 Q = 1042 cfs FP = 1776.7 FW = 1777.0
0.306 Q = 920 cfs FP = 1774.9 FW = 1775.6
2.434 Q = 1042 cfs FP = 1774.0 FW = 1774.4
0.228 Q = 920 cfs FP = 1771.8 FW = 1772.4
2.364 Q = 1042 cfs FP = 1770.9 FW = 1771.4
0.169 Q = 920 cfs FP = 1768.8 FW = 1769.0
0.102 Q = 920 cfs FP = 1766.1 FW = 1766.5
2.280 Q = 1042 cfs FP = 1762.2 FW = 1763.3
2.219 Q = 1042 cfs FP = 1764.7 FW = 1765.3
2.144 Q = 2300 cfs FP = 1761.7 FW = 1762.7
2.069 Q = 2300 cfs FP = 1758.7 FW = 1758.7
1.975 Q = 2300 cfs FP = 1754.0 FW = 1755.0
1.894 Q = 2300 cfs FP = 1750.5 FW = 1751.0
1.827 Q = 2300 cfs FP = 1747.5 FW = 1748.5
1.337 Q = 1239 cfs FP = 1754.7 FW = 1754.7
1.247 Q = 1239 cfs FP = 1751.7 FW = 1751.8
2.132 Q = 700 cfs FP = 1781.4 FW = 1782.3
2.067 Q = 700 cfs FP = 1777.5 FW = 1777.8
1.972 Q = 700 cfs FP = 1773.4 FW = 1774.4
1.896 Q = 1100 cfs FP = 1768.8 FW = 1769.4
1.813 Q = 1100 cfs FP = 1765.3 FW = 1765.9
1.705 Q = 1100 cfs FP = 1759.8 FW = 1760.6
1.601 Q = 1100 cfs FP = 1755.8 FW = 1756.7
1.529 Q = 1100 cfs FP = 1752.9 FW = 1753.5
1.468 Q = 1100 cfs FP = 1749.7 FW = 1750.6
1.403 Q = 1100 cfs FP = 1747.5 FW = 1747.7
1.341 Q = 1100 cfs FP = 1744.9 FW = 1745.7
1.189 Q = 1100 cfs FP = 1736.8 FW = 1737.3
1.253 Q = 2100 cfs FP = 1741.0 FW = 1741.6

BFE=1785
BFE=1780
BFE=1775
BFE=1770
BFE=1765
BFE=1760
BFE=1755
BFE=1750
BFE=1745

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

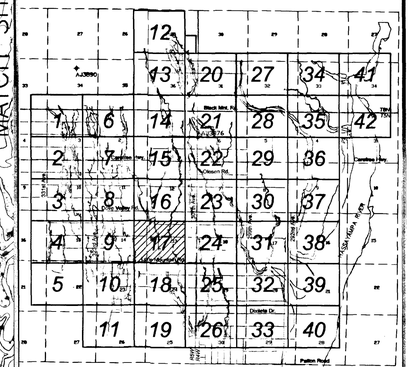
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 24999 — JEFFREY R. MINCH — Date Signed 4-2-09 — ARIZONA, U.S.A.

EXPIRES 09-30-09

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— IN ASSOCIATION WITH —
M. PHILLIPS CONSULTING, INC.

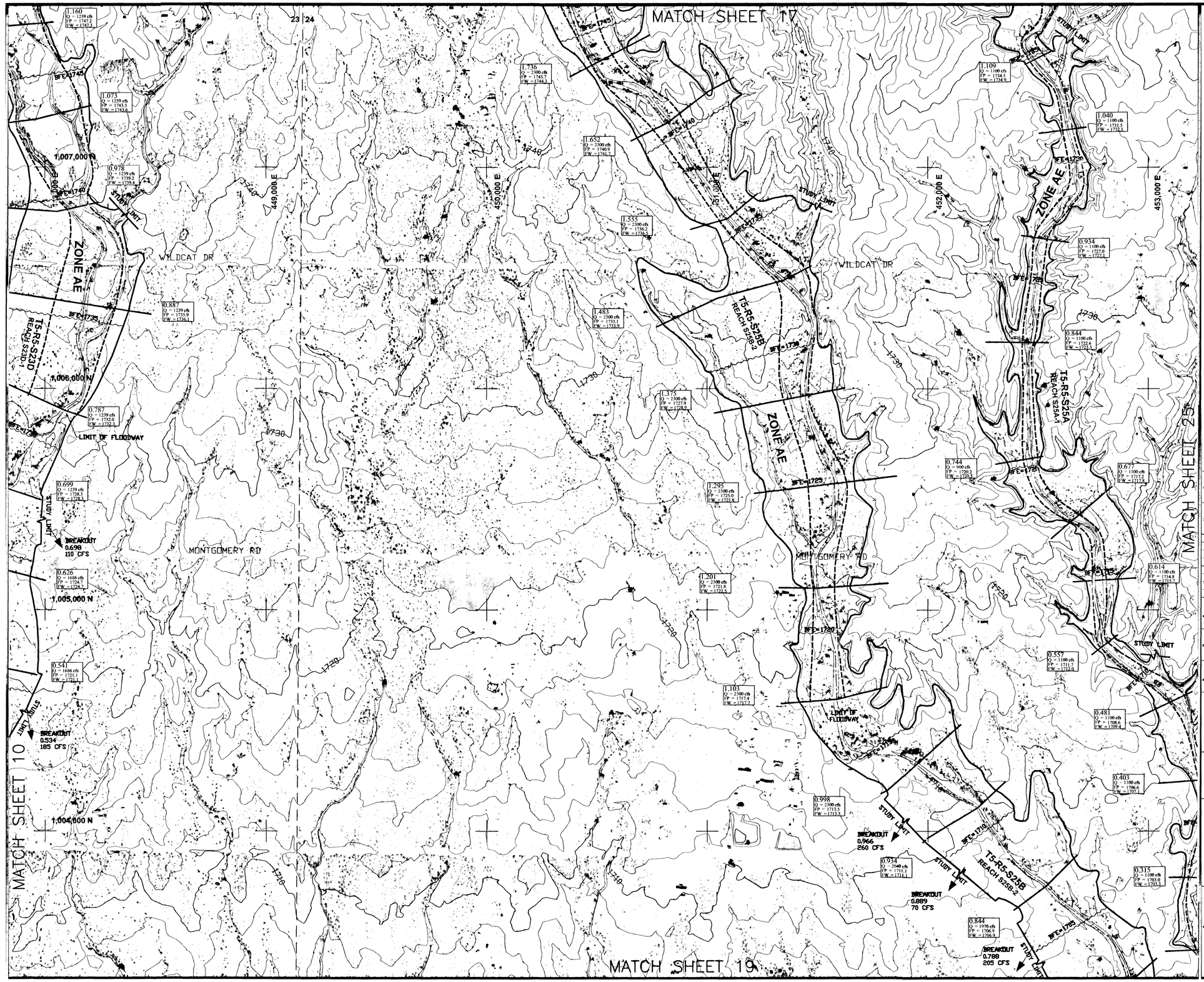
WP# 062793

K:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET17.dwg - Apr 21,2009 1:08pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

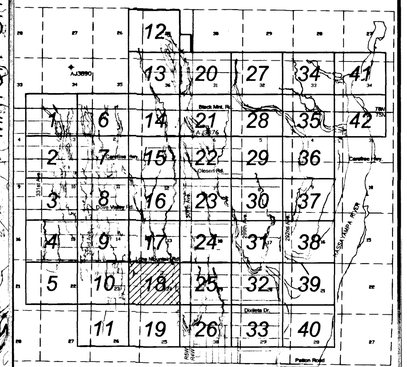
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4112	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Professional Engineer Certificate No. 24999 JEFFREY R. MINCH Date Signed ARIZONA, U.S.A.

EXPIRES 09-30-09

WOOD/PATEL
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PB PFEILER Consulting Engineers

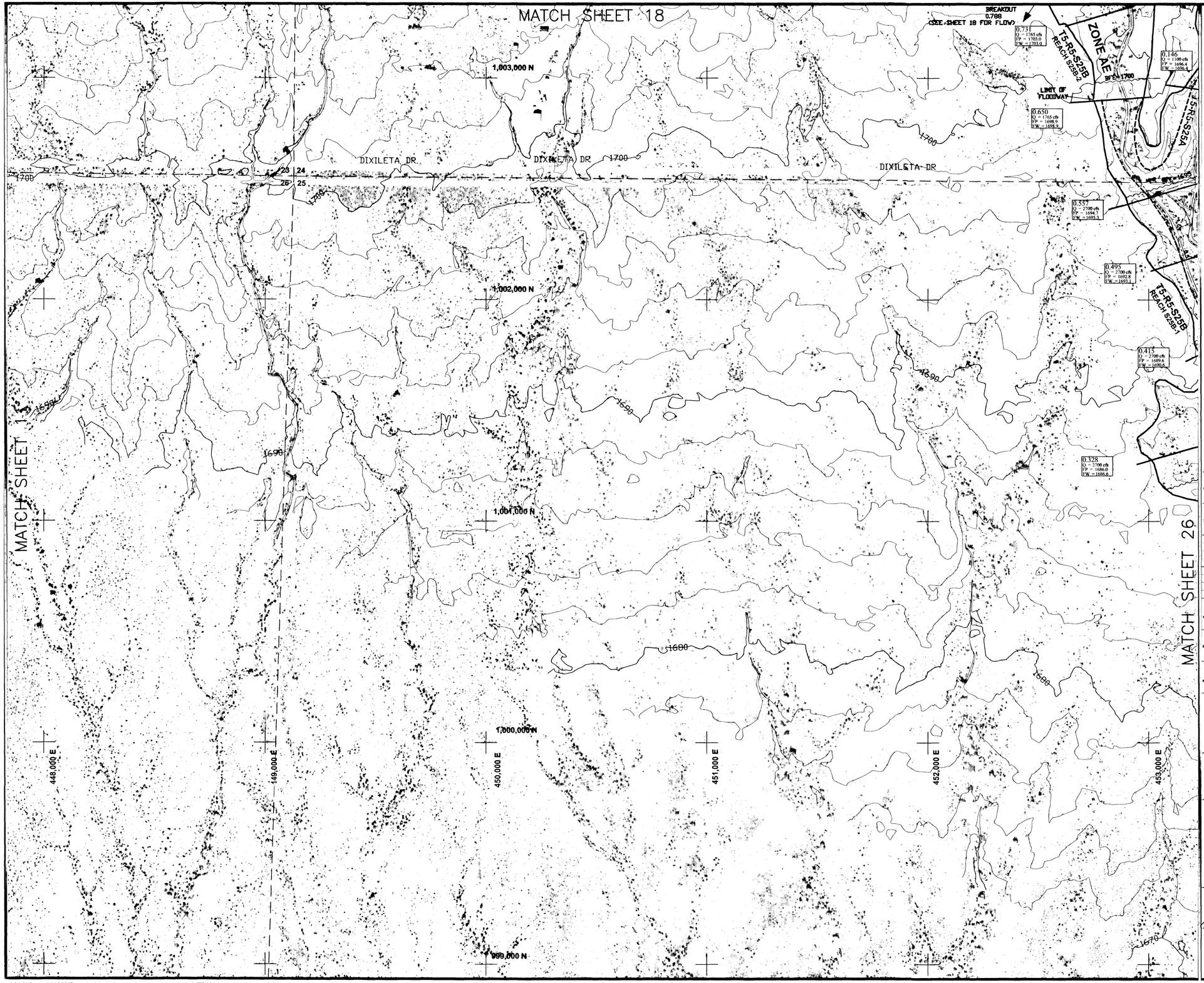
WP# 062793

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET18.dwg - Apr 21,2009 1:31pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1965
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 450,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

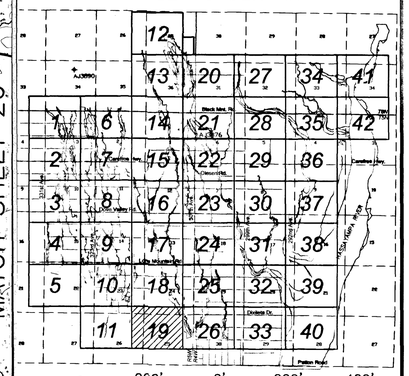
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4II2	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) 24998 JEFFREY R. MINCH Date Signed 4-9-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

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IN ASSOCIATION WITH
R. E. FULLER
CH2MHILL

WP# 062793

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THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 12

MATCH SHEET 20

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

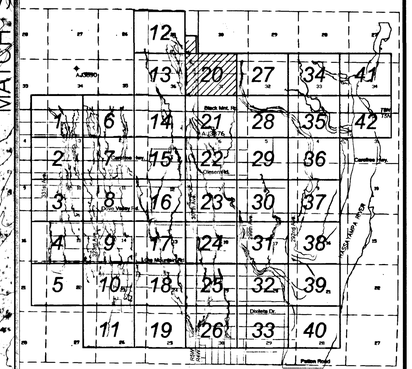
NOTE: ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3878	4K12	1020923.842	454596.886	1884.856

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) 24999 JEFFREY R. MINCH Date Signed 4-22-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

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HP

WP# 062793

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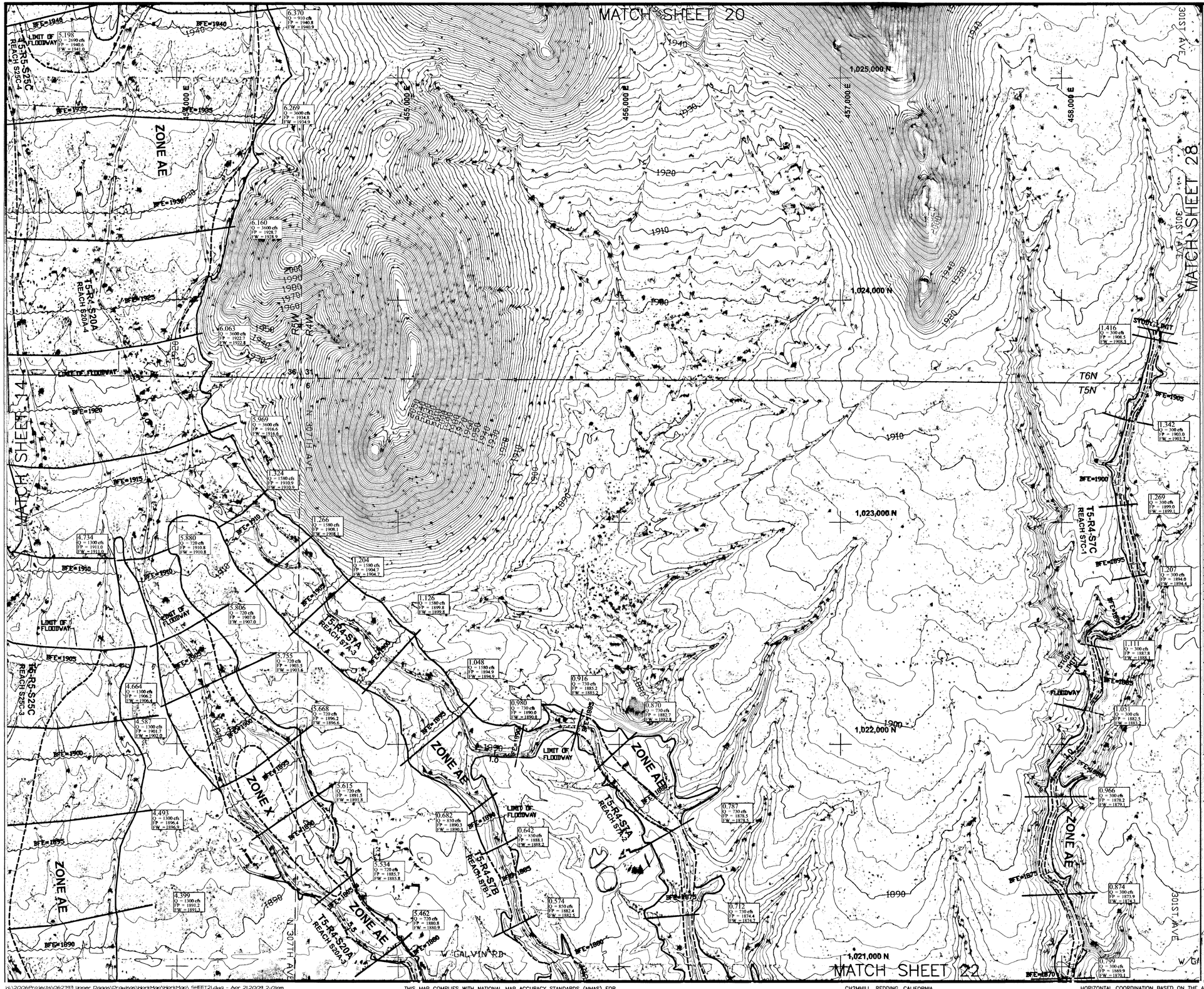
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

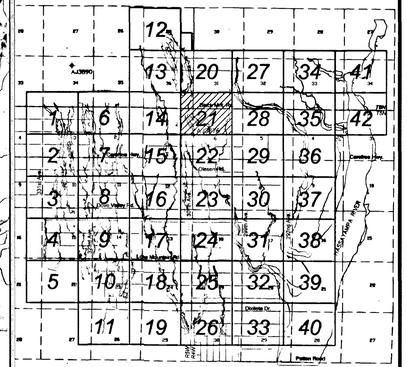
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4K12	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

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IN ASSOCIATION WITH
R. FULLER ENGINEERING

Registered Professional Engineer (Civil) 24999 JEFFREY R. MINCH Date Signed 9-24-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

WP# 062793

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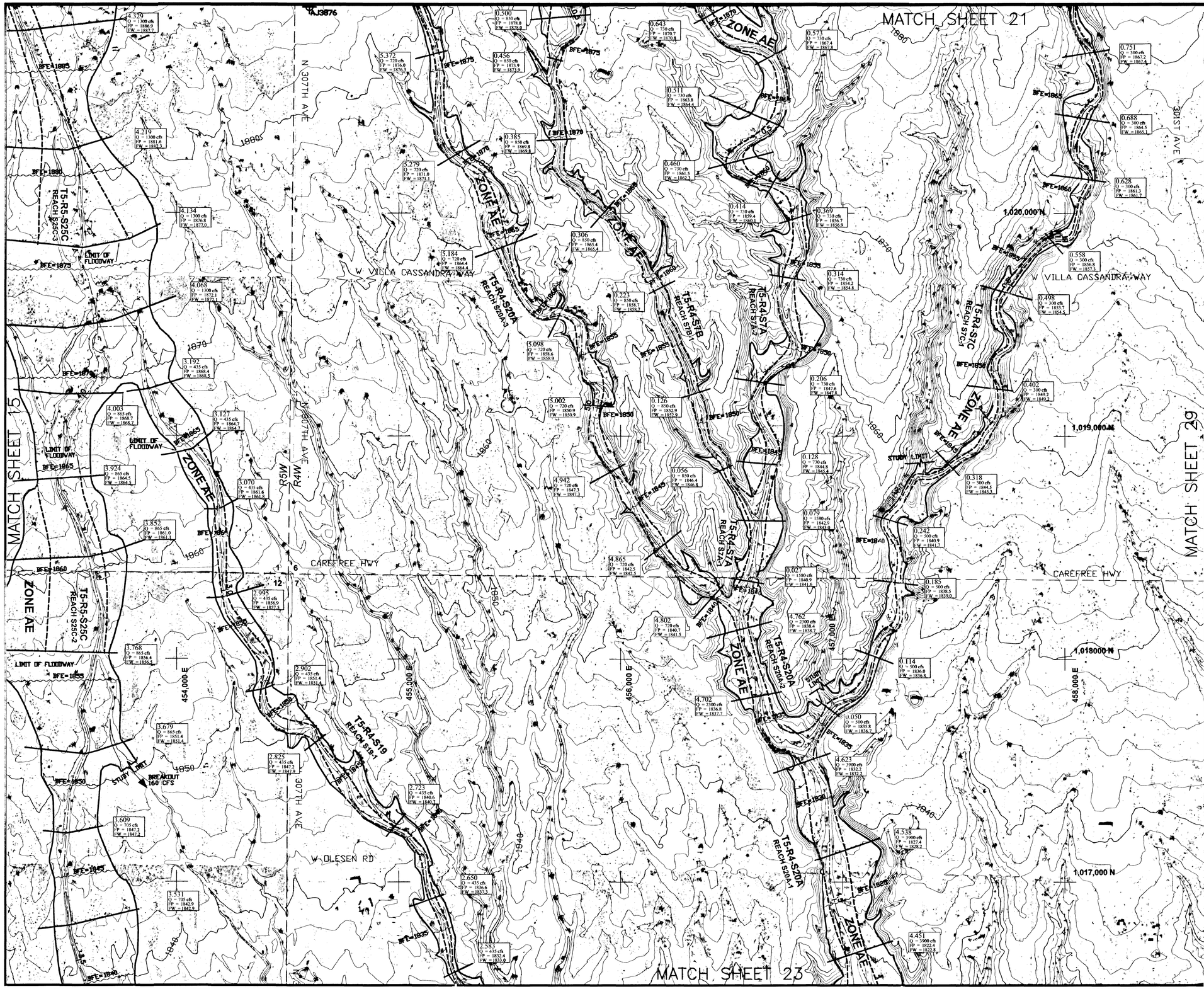
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.025 Q = 2900 cfs FP = 1953.3 FW = 1954.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 1,004,000 N / 439,000 E
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

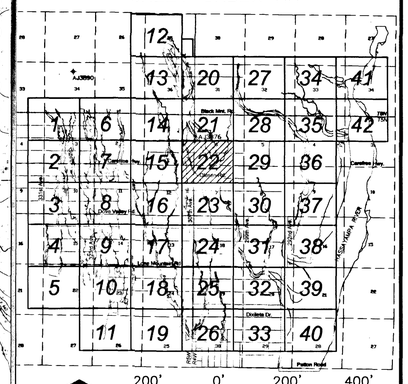
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — Certificate No. 24999 — JEFFREY R. MINCH — Date Signed — ARIZONA, U.S.A.

EXPIRES 09-30-09

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R. FULLER

WP# 062793

K:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET22.dwg - Apr 21,2009 2:03pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N; R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1965
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

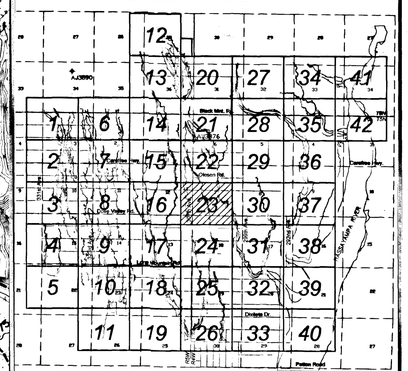
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'
SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Certified Professional Floodplain Manager — 24999 JEFFREY R. MINCH — Date Signed — ARIZONA, U.S.A.

EXPIRES 09-30-09

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TRANSPORTATION • PLANNING
WATER/WASTEWATER • SURVEYING
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WP# 062793

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THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 23

MATCH SHEET 25

MATCH SHEET 31

SHEET 17

W OCCUPADO

W ASHLER HILLS DR

FORREST PLEASANT PL

RANCH RD

LONE MOUNTAIN RD

N 307TH AVE

ZONE AE

STUDY LIMIT

T5-R5-S25C REACH S25C-1

T5-R5-S25C REACH S25C-2

T5-R5-S19 REACH S19-1

R5W R4W

13 18 24 19

1,012,000 N

1,011,000 N

1,010,000 N

1,009,000 N

1,008,000 N

454,000 E

455,000 E

456,000 E

457,000 E

458,000 E

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs, FP = 1963.3, FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023, 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

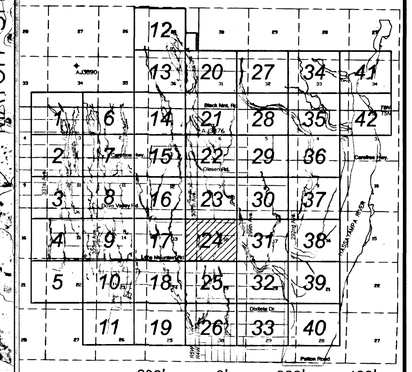
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — Certificate No. 24999 — JEFFREY R. MINCH — Date Signed 9-4-08 — ARIZONA, U.S.A.

EXPIRES 09-30-09

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WP# 062793

SHEET 24 OF 42

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET24.dwg - Apr 21,2009 4:29pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 24

MATCH SHEET 18

MATCH SHEET 32

MATCH SHEET 26

WILDCAT DR

MONTGOMERY RD

WINDSTONE TRAIL

N 30TH AVE

N 30TH PL

N 30TH AVE

T5-R5-S25C REACH S25C-1

T5-R4-S19 REACH S19-1

T5-R4-S30 REACH S30-1

T5-R4-S30 REACH S30-1

T5-R5-S25A REACH S25A-1

T5-R5-S25C REACH S25C-1

ZONE AE

STUDY LIMIT

LIMIT OF FLOODWAY

BREAKOUT 2.046 15 CFS

1,007,000 N

1,006,000 N

1,005,000 N

1,004,000 N

456,000 E

457,000 E

455,000 E

464,000 E

R5W R4W

T5N

T4N

24 19

1.555 Q = 865 cfs FP = 1738.4 FW = 1738.4

1.488 Q = 865 cfs FP = 1735.6 FW = 1736.5

1.450 Q = 865 cfs FP = 1733.4 FW = 1733.9

1.385 Q = 855 cfs FP = 1730.8 FW = 1731.1

1.311 Q = 865 cfs FP = 1728.4 FW = 1729.2

1.226 Q = 865 cfs FP = 1724.5 FW = 1724.5

1.150 Q = 865 cfs FP = 1720.8 FW = 1721.4

1.079 Q = 865 cfs FP = 1716.8 FW = 1717.0

0.604 Q = 435 cfs FP = 1737.7 FW = 1738.3

0.526 Q = 435 cfs FP = 1733.6 FW = 1733.9

0.437 Q = 435 cfs FP = 1730.2 FW = 1730.7

0.349 Q = 435 cfs FP = 1727.0 FW = 1727.4

0.260 Q = 435 cfs FP = 1722.8 FW = 1723.3

0.183 Q = 435 cfs FP = 1719.1 FW = 1719.5

0.120 Q = 435 cfs FP = 1716.2 FW = 1716.7

0.982 Q = 1300 cfs FP = 1712.7 FW = 1713.2

0.899 Q = 1300 cfs FP = 1709.7 FW = 1710.4

0.815 Q = 1300 cfs FP = 1706.0 FW = 1706.4

0.745 Q = 1300 cfs FP = 1703.1 FW = 1704.0

0.403 Q = 1100 cfs FP = 1706.6 FW = 1707.1

0.315 Q = 1100 cfs FP = 1703.0 FW = 1703.4

0.252 Q = 1100 cfs FP = 1700.6 FW = 1700.8

2.271 Q = 300 cfs FP = 1737.7 FW = 1737.7

2.191 Q = 300 cfs FP = 1734.8 FW = 1734.8

2.097 Q = 300 cfs FP = 1730.7 FW = 1730.7

1.995 Q = 300 cfs FP = 1726.4 FW = 1726.6

1.885 Q = 300 cfs FP = 1721.3 FW = 1721.7

1.785 Q = 300 cfs FP = 1717.2 FW = 1717.4

1.685 Q = 300 cfs FP = 1712.7 FW = 1713.1

1.597 Q = 300 cfs FP = 1709.2 FW = 1709.7

1.494 Q = 300 cfs FP = 1703.2 FW = 1703.6

BFE=1740

BFE=1735

BFE=1730

BFE=1725

BFE=1720

BFE=1715

BFE=1710

BFE=1705

BFE=1700

1740

1730

1720

1710

1700

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1963.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 450,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

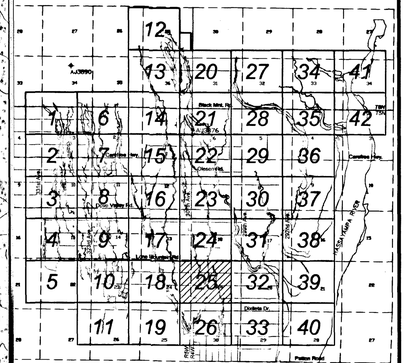
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4R2	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 24999 — JEFFREY R. MINCH — Date Signed — ARIZONA, U.S.A.

EXPIRES 09-30-09

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JE FULLER

WP# 062793

SHEET 25 OF 42

I:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET25.dwg - Apr 21,2009 2:07pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 25

MATCH SHEET 19

MATCH SHEET 33

T5-R5-S25C REACH S25A-1

T5-R5-S25C REACH S25B-1

T5-R5-S25C REACH S25C-1

T5-R4-S30 REACH S30-1

N 30TH AVE

R5W R4W

DIXILETA DR

WHISPERING RANCH J RD

PEAK VIEW RD

WHISPERING RANCH A RD

WHISPERING RANCH 8TH ST

WHISPERING RANCH 7TH ST

ZONE AE

STUDY LIMIT

LIMIT OF FLOODWAY

TIE INTO EFFECTIVE ZONE AE FDS OF DAGGS WASH (FCD 92-08)

BFE=1700

BFE=1695

BFE=1690

BFE=1685

BFE=1680

1700

1690

1680

1670

0.146 Q = 1100 cfs FP = 1696.4 FW = 1696.4

0.532 Q = 1700 cfs FP = 1694.7 FW = 1695.2

0.666 Q = 1300 cfs FP = 1700.5 FW = 1701.5

0.590 Q = 1300 cfs FP = 1697.3 FW = 1698.2

0.498 Q = 1300 cfs FP = 1693.5 FW = 1694.3

0.403 Q = 1300 cfs FP = 1689.0 FW = 1690.0

0.302 Q = 1300 cfs FP = 1685.2 FW = 1686.1

0.225 Q = 1300 cfs FP = 1681.6 FW = 1682.1

0.155 Q = 1300 cfs FP = 1678.7 FW = 16794

0.081 Q = 1300 cfs FP = 1676.2 FW = 1676.8

1.393 Q = 300 cfs FP = 1699.0 FW = 1699.9

1.300 Q = 300 cfs FP = 1694.7 FW = 1695.2

1.231 Q = 300 cfs FP = 1692.7 FW = 1693.7

1.143 Q = 1000 cfs FP = 1690.6 FW = 1690.7

1.057 Q = 1000 cfs FP = 1687.2 FW = 1688.0

0.954 Q = 1000 cfs FP = 1683.7 FW = 1683.8

0.868 Q = 1000 cfs FP = 1680.3 FW = 1681.1

0.780 Q = 1000 cfs FP = 1677.1 FW = 1677.2

0.495 Q = 2700 cfs FP = 1692.8 FW = 1693.1

0.415 Q = 2700 cfs FP = 1689.6 FW = 1690.6

0.328 Q = 2700 cfs FP = 1686.0 FW = 1686.6

0.243 Q = 2700 cfs FP = 1683.0 FW = 1683.9

0.155 Q = 2700 cfs FP = 1679.9 FW = 1680.8

0.073 Q = 2700 cfs FP = 1676.7 FW = 1677.5

1,003,000 N

1,002,000 N

1,001,000 N

1,000,000 N

999,000 N

455,000 E

456,000 E

457,000 E

458,000 E

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION (0.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3)
- ZONE DESIGNATIONS: ZONE AE
- TOWNSHIP & RANGE: T6N / T5N, R5W / R4W
- SECTION BOUNDARY: 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK: AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE: 1.0
- BASE FLOOD ELEVATION: BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW: 1.023 / 19 cfs
- STATE PLANE COORDINATE: 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

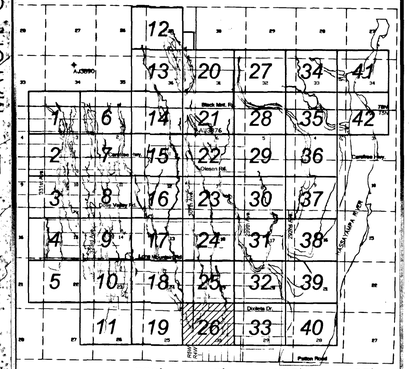
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4112	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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IN ASSOCIATION WITH
R. E. FULLER ENGINEERING

Registered Professional Engineer (Civil) 24999 JEFFREY R. MINCH Date Signed 7-2-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

WP# 062793

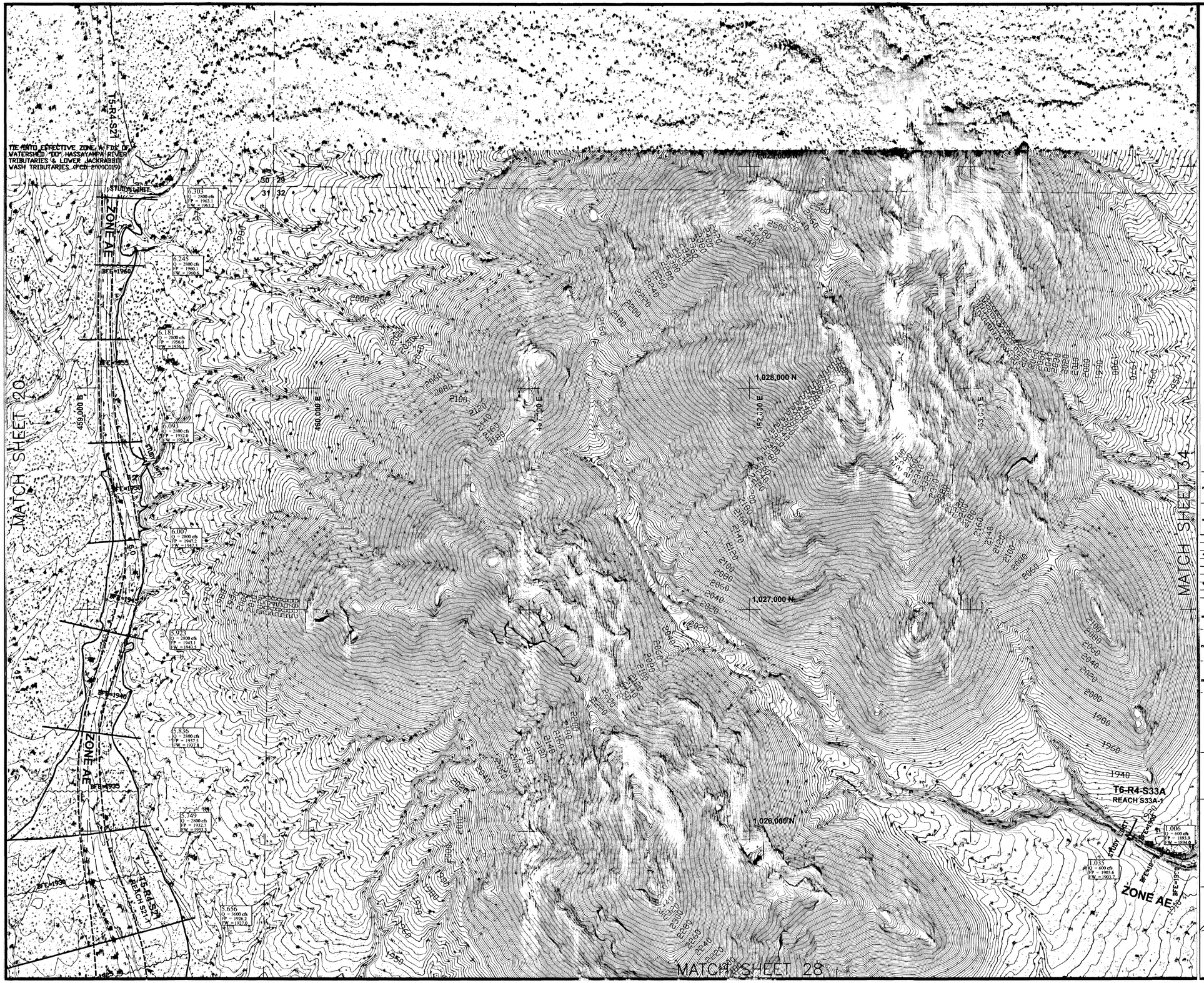
SHEET 26 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET26.dwg - Apr 21,2009 2:15pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 430,000 E 1,004,000 N

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

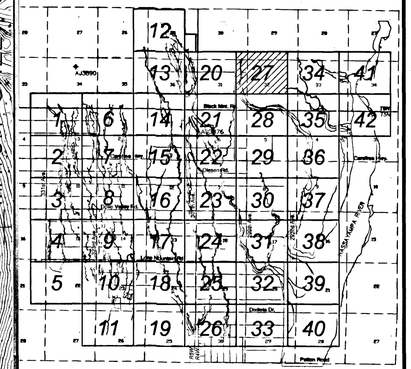
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4K12	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

WOOD/PATEL

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WP# 062793

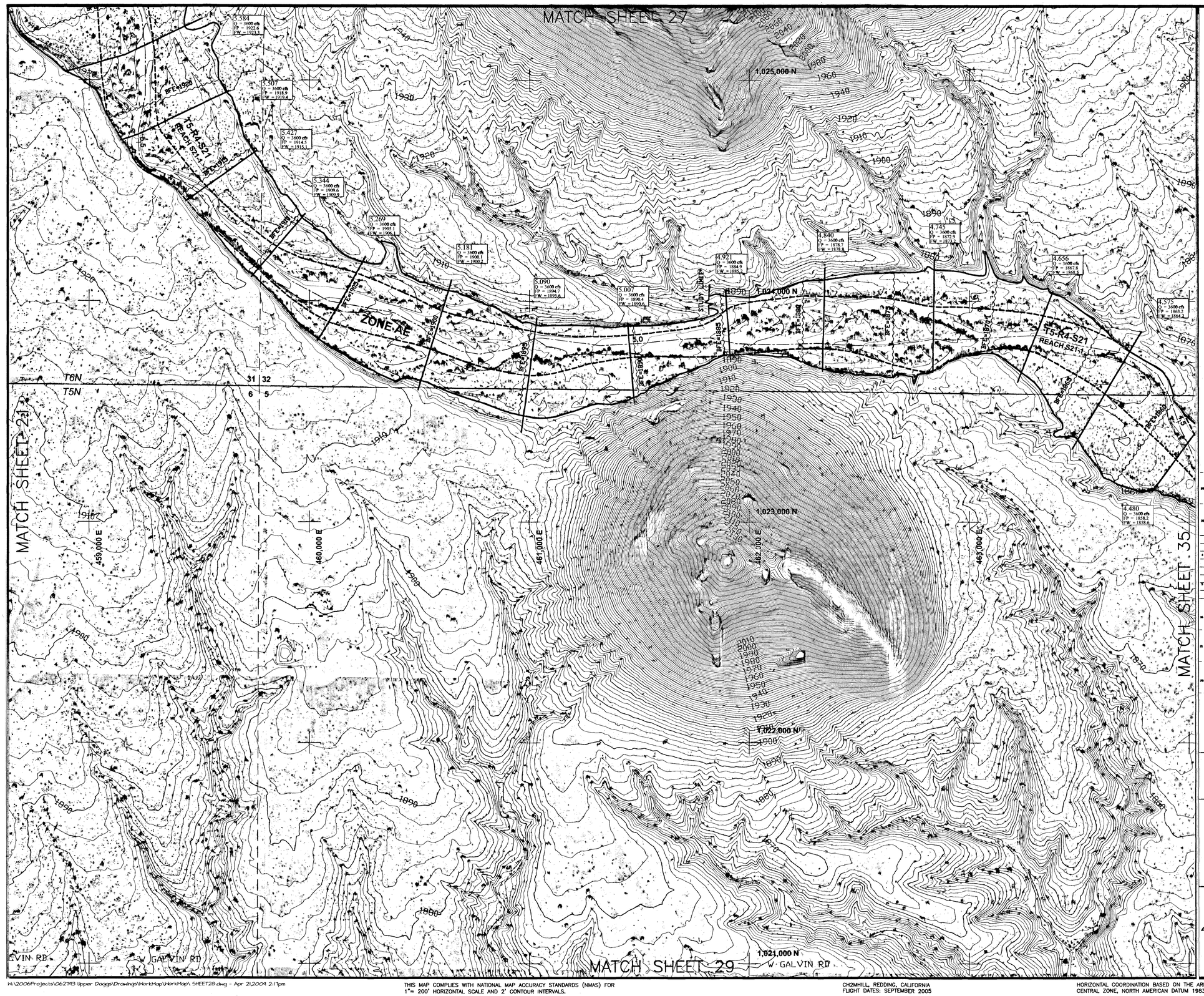
SHEET 27 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET27.dwg - Apr 21,2009 2:16pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 / Q = 2800 cfs / FP = 1963.3 / FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

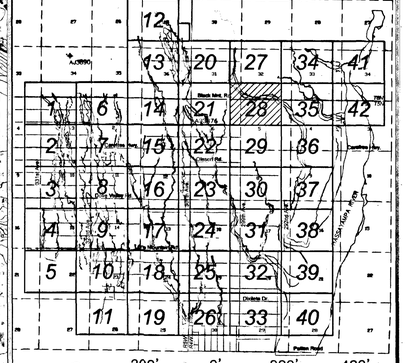
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4K12	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 24999 — JEFFREY R. MINCH — Date Signed — ARIZONA, U.S.A.

EXPIRES 09-30-09

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FE FULLER

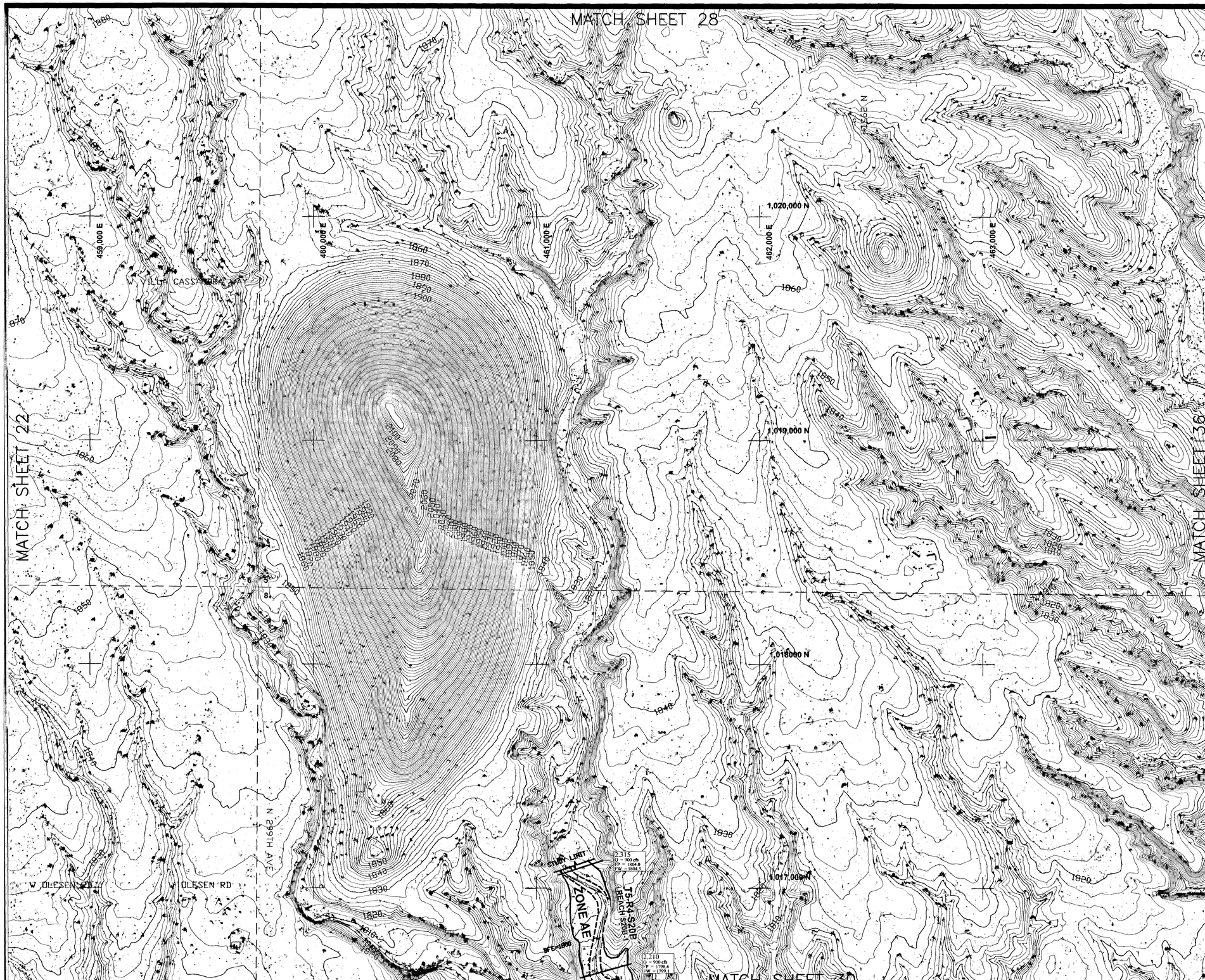
WP# 062793

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET28.dwg - Apr 21,2009 2:17pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 430,000 E 1,004,000 N

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

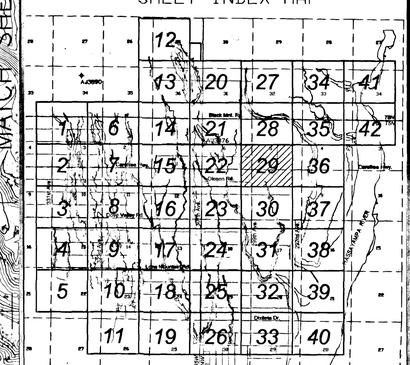
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

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WP# 062793

SHEET 29 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET29.dwg - Apr 21,2009 2:28pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 29

MATCH SHEET 23

MATCH SHEET 37

MATCH SHEET 31

WESTLAND DR

W DOVE VALLEY RD

N 459TH AVE

460,000 E

461,000 E

462,000 E

463,000 E

1,016,000 N

1,015,000 N

1,013,000 N

STUDY LIMIT

ZONE AE

ZONE X

T5-R4-S20B REACH S20B-1

T5-R4-S20A REACH S20A-1

2.147 Q = 900 cfs FP = 1794.4 FW = 1794.8

2.086 Q = 900 cfs FP = 1791.0 FW = 1791.4

2.032 Q = 900 cfs FP = 1788.4 FW = 1789.0

1.973 Q = 900 cfs FP = 1784.3 FW = 1784.7

1.891 Q = 900 cfs FP = 1780.7 FW = 1781.6

1.775 Q = 900 cfs FP = 1775.0 FW = 1775.5

1.701 Q = 900 cfs FP = 1771.4 FW = 1772.1

1.610 Q = 900 cfs FP = 1766.5 FW = 1767.4

1.506 Q = 1300 cfs FP = 1761.0 FW = 1761.8

1.380 Q = 1300 cfs FP = 1755.5 FW = 1755.8

1.315 Q = 1300 cfs FP = 1751.8 FW = 1752.8

1.203 Q = 1300 cfs FP = 1744.5 FW = 1744.8

1.107 Q = 1300 cfs FP = 1739.2 FW = 1739.6

3.509 Q = 3900 cfs FP = 1772.4 FW = 1773.0

3.453 Q = 3900 cfs FP = 1768.6 FW = 1769.2

3.383 Q = 3900 cfs FP = 1765.9 FW = 1766.6

3.307 Q = 3900 cfs FP = 1762.0 FW = 1762.8

BFE=1795 BFE=1790 BFE=1785 BFE=1780 BFE=1775 BFE=1770 BFE=1765 BFE=1760 BFE=1755 BFE=1750 BFE=1745 BFE=1740

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

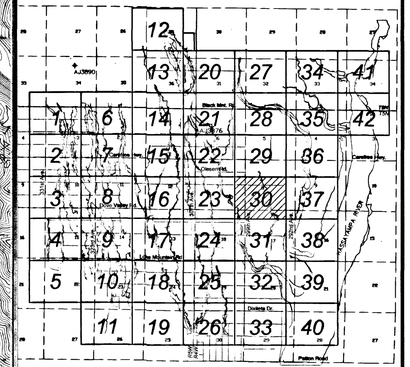
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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IN ASSOCIATION WITH
R. E. FULLER ENGINEERING

Registered Professional Engineer (Civil) 24999 JEFFREY R. MINCH Date Signed 4-2-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

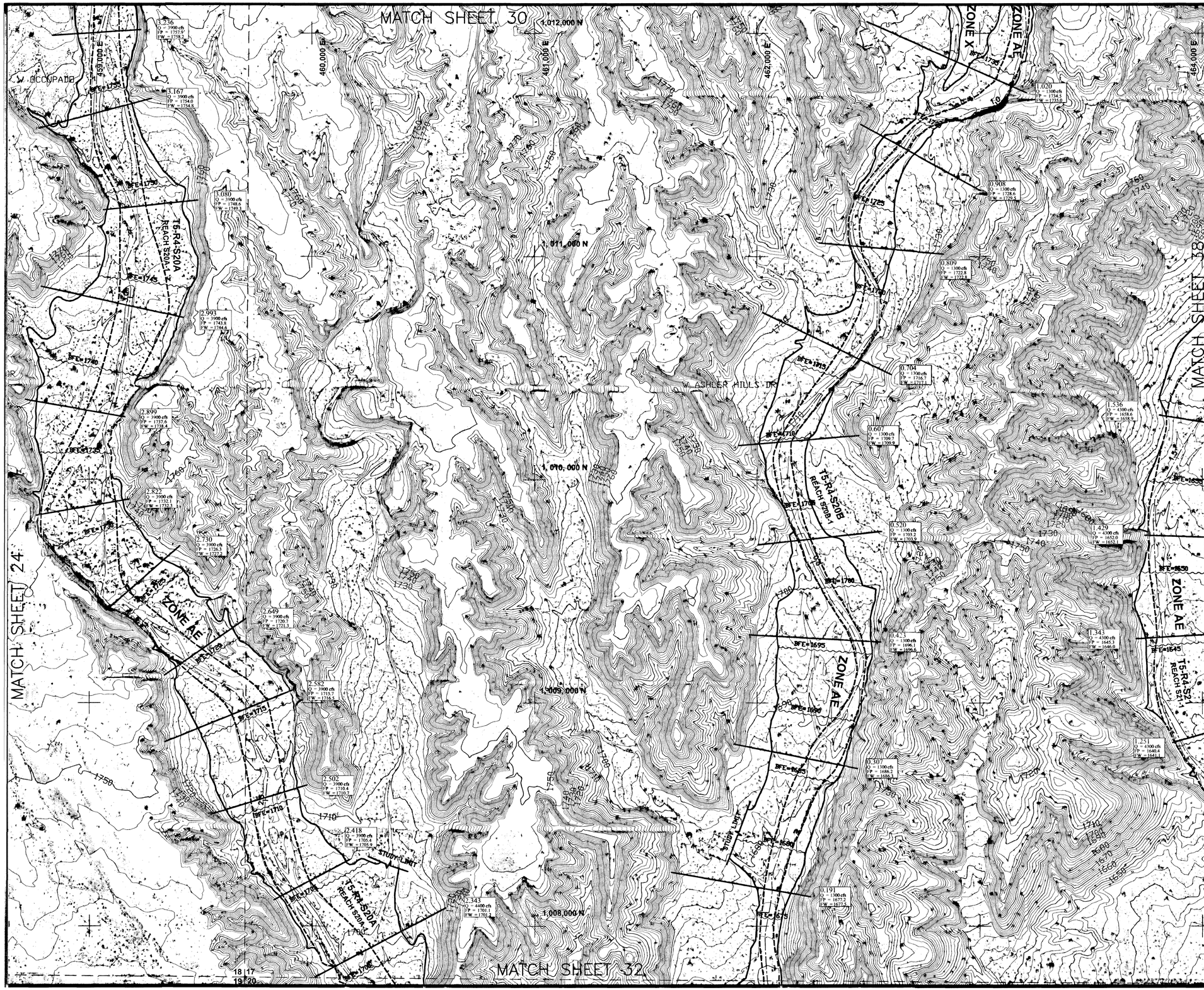
WP# 062793

SHEET 30 OF 42

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N / T5N — R5W / R4W

SECTION BOUNDARY — 12 7 / 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 430,000 E 1,004,000 N

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

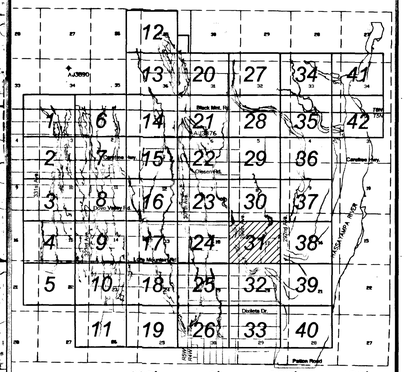
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3876	4KI2	1020923.842	454596.886	1884.856

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

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IN ASSOCIATION WITH

JE FULLER

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-08 ARIZONA, U.S.A.

EXPIRES 09-30-09

WP# 062793

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET31.dwg - Apr 21,2009 2:54pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

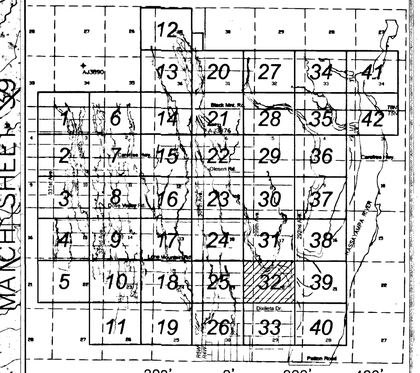
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4II2	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) 24999 JEFFREY R. MINCH Date Signed 9-4-09 ARIZONA, U.S.A.

EXPIRES 09-30-09

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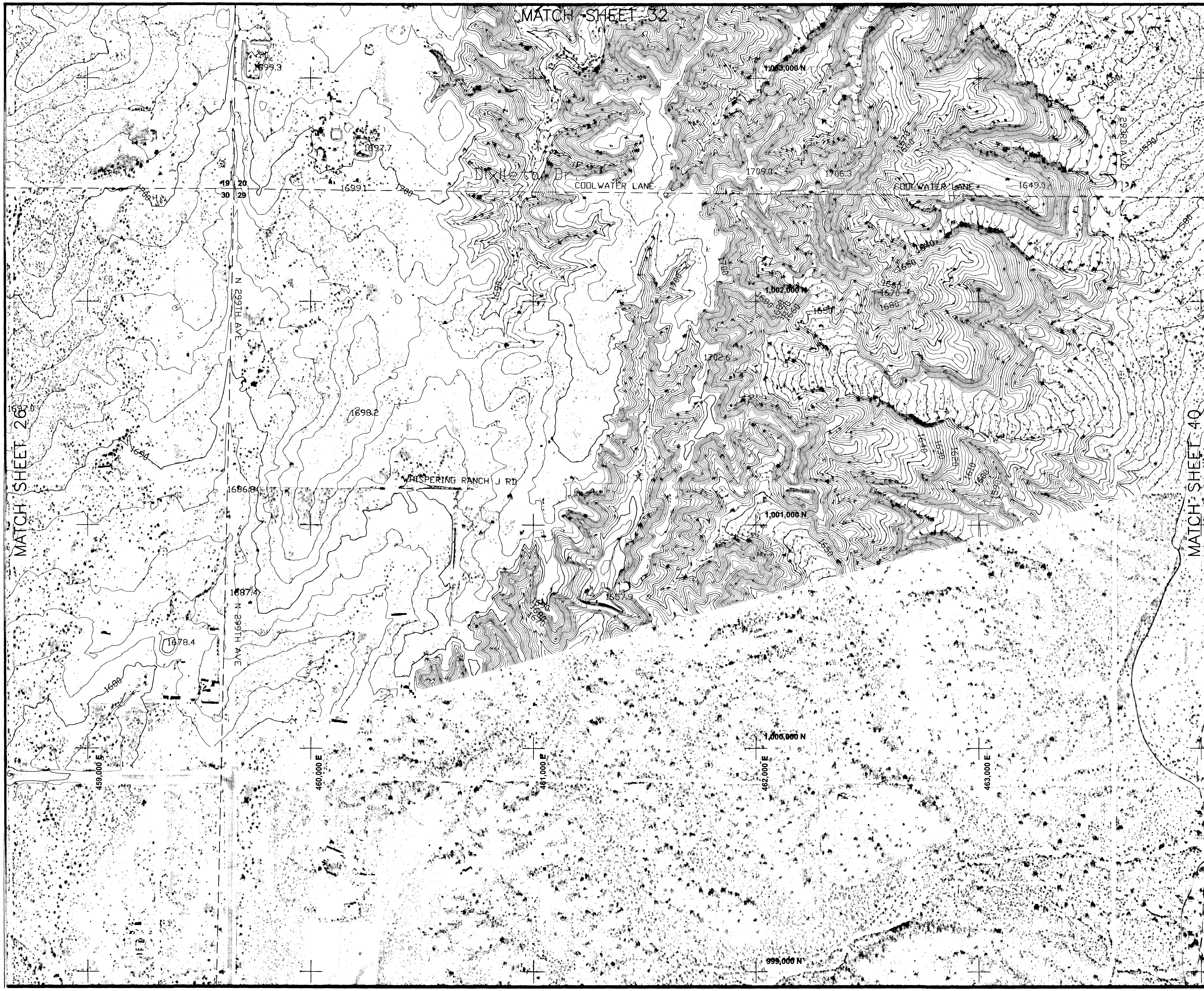
WP# 062793

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET32.dwg - Apr 21,2009 2:56pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR FLOODWAY BOUNDARY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	
100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)	
CROSS SECTION	6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
ZONE DESIGNATIONS	ZONE AE
TOWNSHIP & RANGE	T6N T5N R5W R4W
SECTION BOUNDARY	12 7 13 18
ELEVATION REFERENCE MARK	AJ3890
HYDRAULIC BASE LINE WITH RIVER MILE	1.0
BASE FLOOD ELEVATION	BFE=1985
LATERAL WEIR ID AND/OR BREAKOUT FLOW	1.023 19 cfs
STATE PLANE COORDINATE	1,004,000 N 430,000 E
ZONE BREAK/FLOODWAY LIMIT	(SHOWN AS WHITE)

NOTES

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

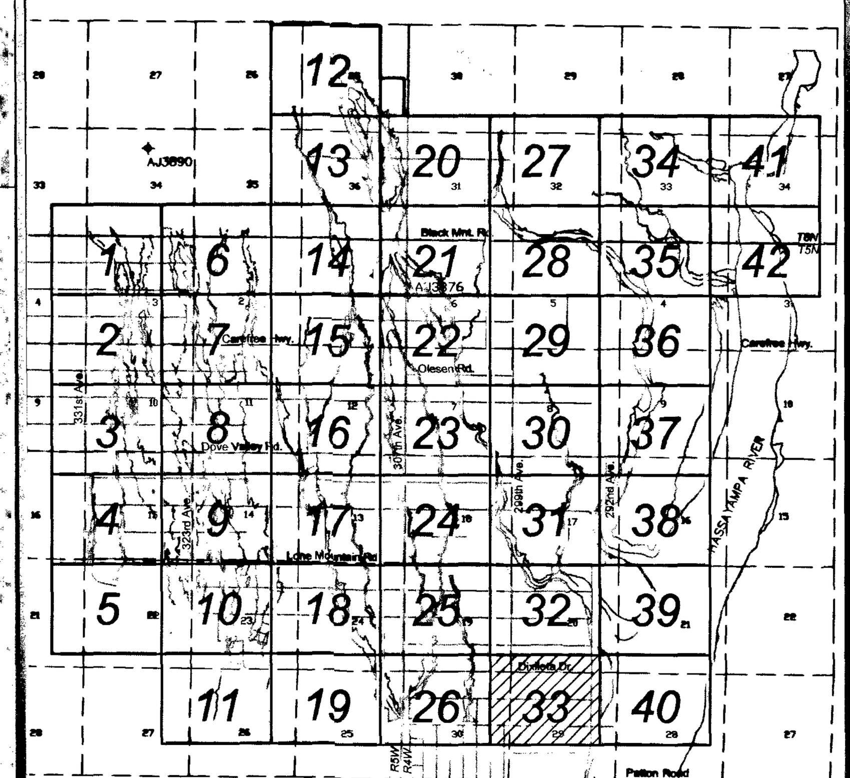
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY
(GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4II2	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'
SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-08 ARIZONA, U.S.A.

EXPIRES 09-30-09

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WP# 062793 SHEET 33 OF 42

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THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

TIE INTO EFFECTIVE ZONE A FIS OF WATERSHED "DD" HASSAYAMPA RIVER TRIBUTARIES & LOWER JACKRABBIT WASH TRIBUTARIES (FCD 2000C019)

STUDY LIMIT

ZONE AE

T6-R4-S33 REACH S33-1

T5-R4-S3 REACH S3-2

T6-R4-S33A REACH S33A-1

1,029,000 N

1,028,000 N

1,027,000 N

1,026,000 N

455,000 E

466,000 E

467,000 E

468,000 E

469,000 E

MATCH SHEET 34

MATCH SHEET 35

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N R5W / T5N R4W
- SECTION BOUNDARY — 12 / 7 / 13 / 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

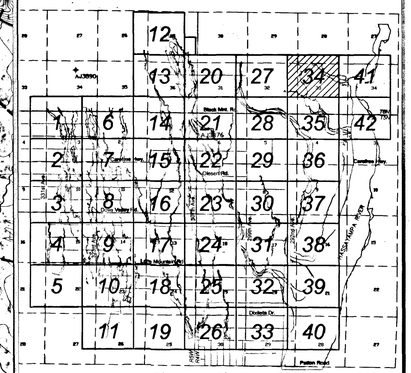
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3877	4KG2	1023571.919	482648.159	1844.528

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer — Jeffrey R. Minch — 24999 — Date Signed 4-1-09 — Arizona, U.S.A.

EXPIRES 09-30-09

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WP# 062793

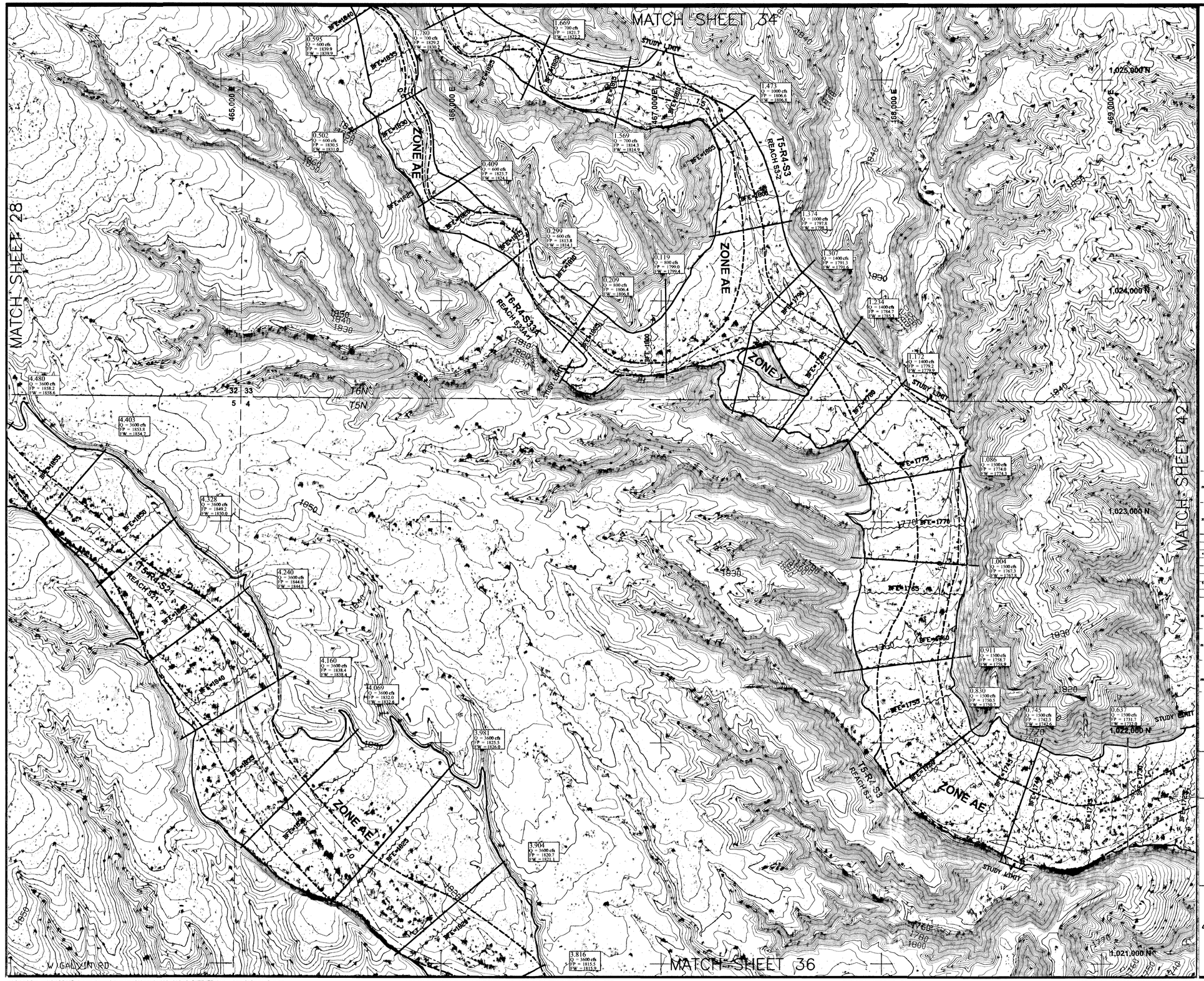
SHEET 34 OF 42

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET34.dwg - Apr 21,2009 3:00pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2600 cfs FP = 1963.3 FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 / 19 cfs
- STATE PLANE COORDINATE — 430,000 E / 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

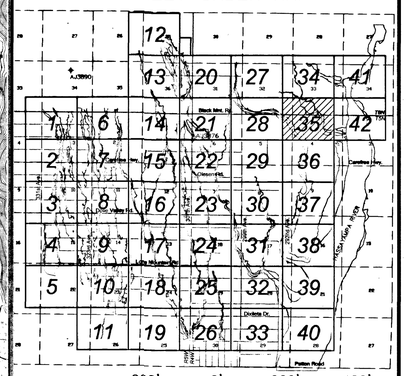
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3877	4KG2	1023571.919	482648.159	1844.528

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

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Registered Professional Engineer (Civil) — 24999 JEFFREY R. MINCH — Date Signed 9-2-09 — ARIZONA, U.S.A.

EXPIRES 09-30-09

WP# 062793

SHEET 35 OF 42

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

MATCH SHEET 35

MATCH SHEET 37

MATCH SHEET 29

3.816
Q = 3600 cfs
FP = 1815.5
FW = 1815.8

3.719
Q = 3600 cfs
FP = 1809.2
FW = 1809.4

3.617
Q = 4000 cfs
FP = 1803.0
FW = 1803.5

3.539
Q = 4000 cfs
FP = 1798.2
FW = 1798.4

3.441
Q = 4000 cfs
FP = 1791.6
FW = 1791.8

3.354
Q = 4000 cfs
FP = 1785.2
FW = 1786.0

3.267
Q = 4000 cfs
FP = 1778.8
FW = 1779.1

3.179
Q = 4000 cfs
FP = 1772.9
FW = 1773.1

3.086
Q = 4000 cfs
FP = 1765.2
FW = 1765.8

3.007
Q = 4000 cfs
FP = 1760.4
FW = 1760.6

2.919
Q = 4000 cfs
FP = 1754.0
FW = 1754.3

6.029
Q = 2600 cfs
FP = 1953.3
FW = 1954.3

T5-R4-S21 REACH S21-1

ZONE AE

STUDY LIMIT

1,020,000 N
1,019,000 N
1,018000 N
1,017,000 N

463,000 E
466,000 E
467,000 E
468,000 E
469,000 E

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029 Q = 2600 cfs FP = 1953.3 FW = 1954.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,004,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

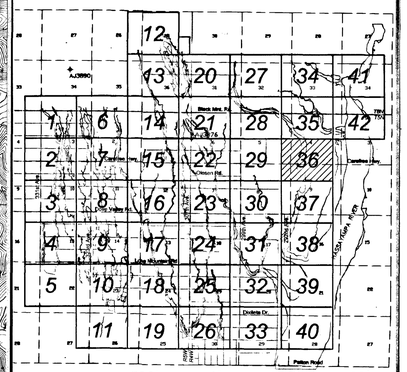
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS)
CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3877	4KG2	1023571.919	482648.159	1544.528

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 24999 — JEFFREY R. MINCH — Date Signed — ARIZONA, U.S.A.

EXPIRES 09-30-09

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EE FULLER

WP# 062793

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET36.dwg - Apr 21,2009 3:25pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 1,004,000 N 430,000 E

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

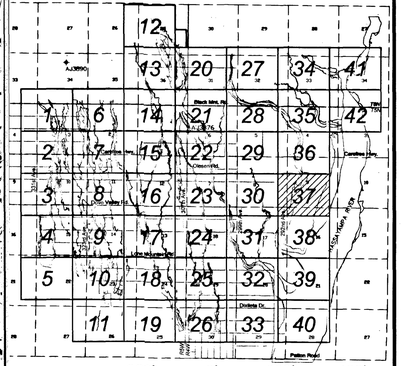
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3877	4KG2	1023571.919	482648.159	1844.528

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-08 ARIZONA, U.S.A.

EXPIRES 09-30-09

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WP# 062793

SHEET 37 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET37.dwg - Apr 21,2009 3:26pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 1,004,000 N 430,000 E

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

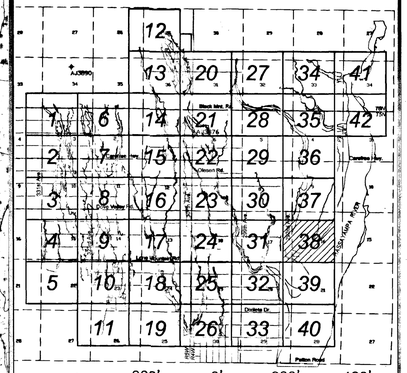
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3877	4KG2	1023571.919	482648.159	1844.528

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

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IN ASSOCIATION WITH
R. FELLER
Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-08 ARIZONA, U.S.A.

EXPIRES 09-30-09

WP# 062793

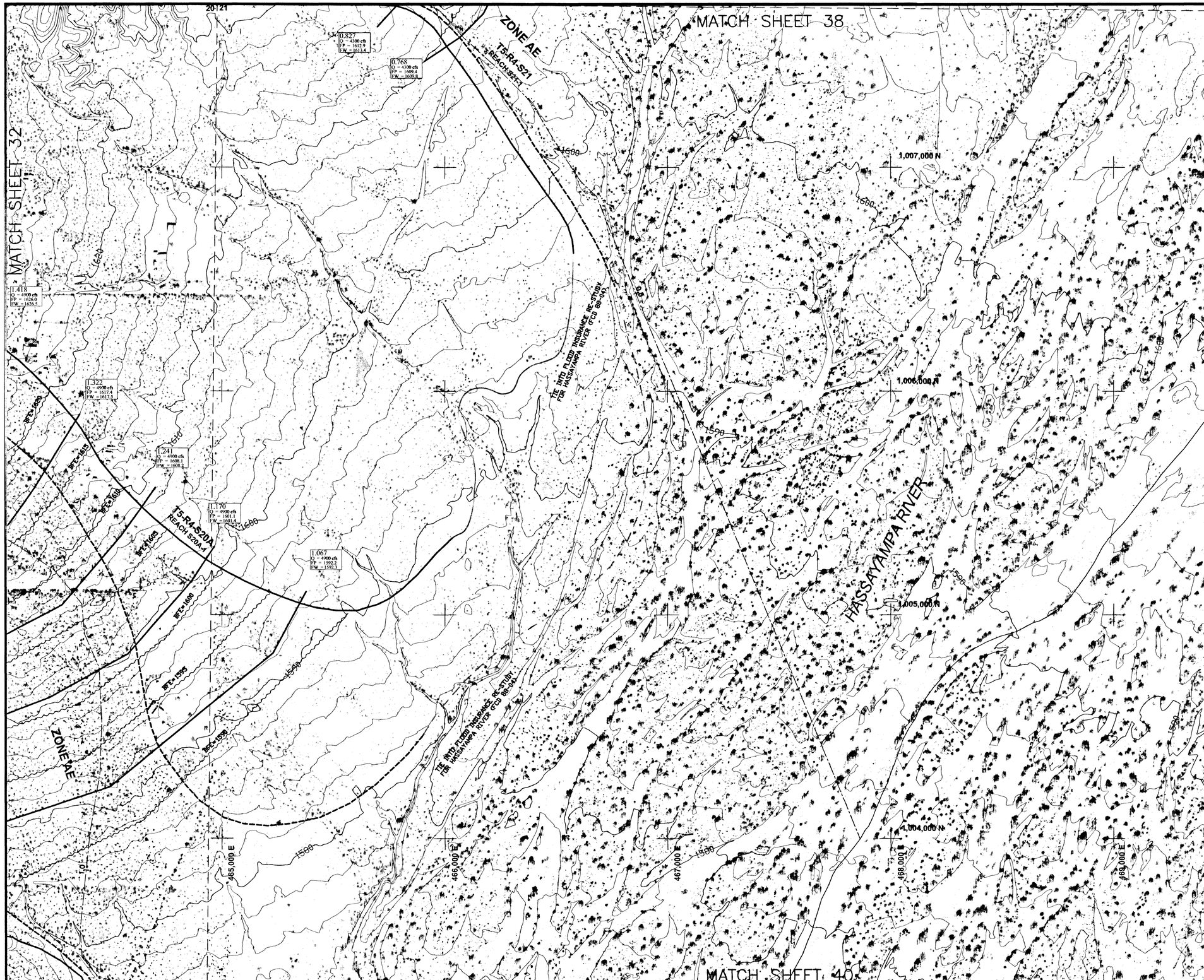
SHEET 38 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET38.dwg - Apr 21,2009 3:27pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

100-YR FLOODPLAIN BOUNDARY

100-YR FLOODWAY BOUNDARY

100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)

100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)

CROSS SECTION — 6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3

ZONE DESIGNATIONS — ZONE AE

TOWNSHIP & RANGE — T6N T5N R5W R4W

SECTION BOUNDARY — 12 7 13 18

ELEVATION REFERENCE MARK — AJ3890

HYDRAULIC BASE LINE WITH RIVER MILE — 1.0

BASE FLOOD ELEVATION — BFE=1985

LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023 19 cfs

STATE PLANE COORDINATE — 430,000 E 1,004,000 N

ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

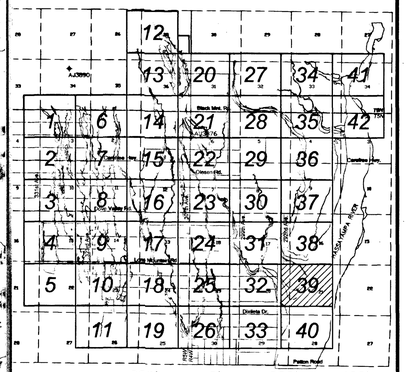
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4112	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-08 ARIZONA, U.S.A.

EXPIRES 09-30-09

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WP# 062793

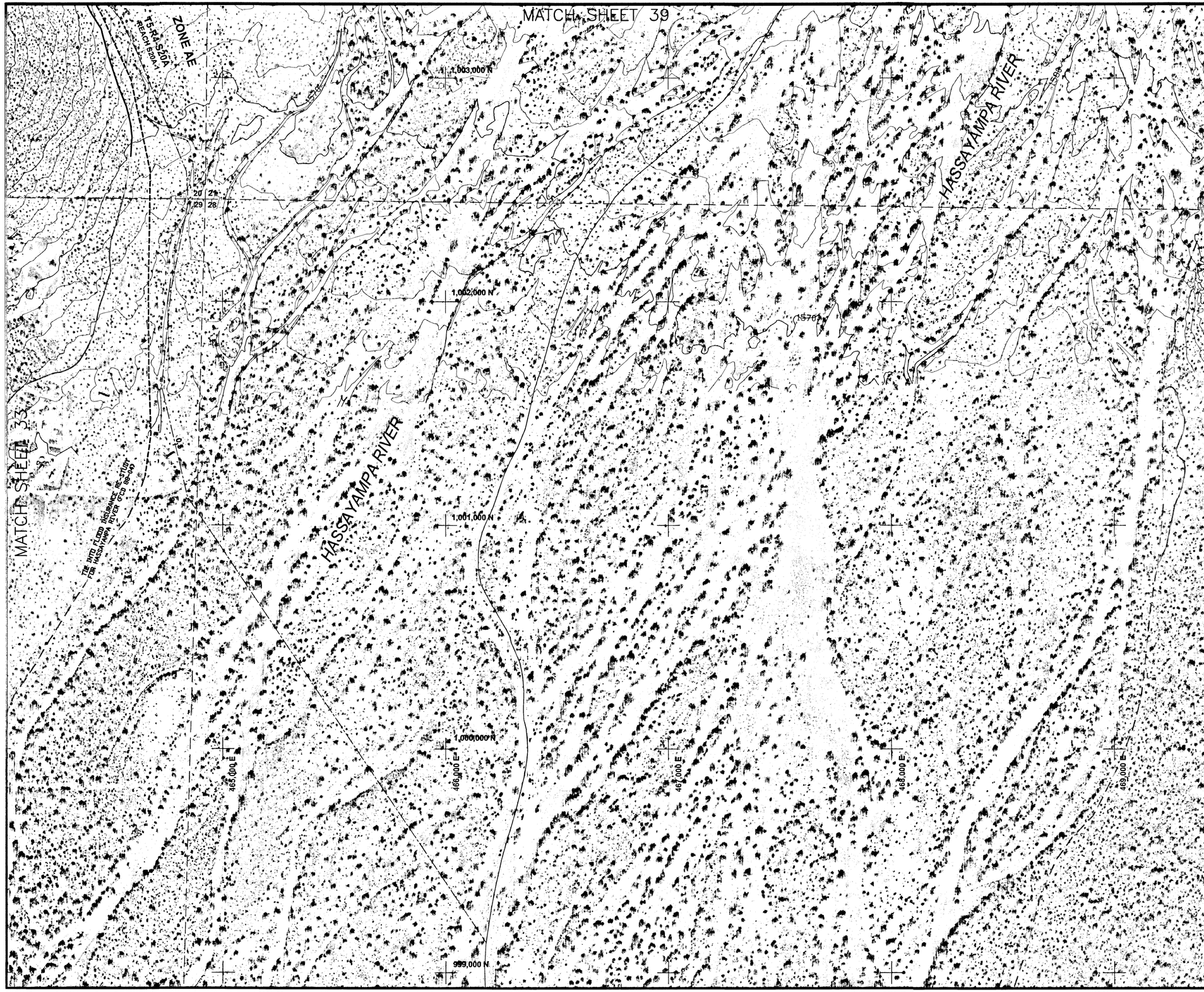
SHEET 39 OF 42

W:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET39.dwg - Apr 21,2009 3:28pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

100-YR FLOODPLAIN BOUNDARY	
100-YR FLOODWAY BOUNDARY	
100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)	
100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)	
CROSS SECTION	6.029 Q = 2800 cfs FP = 1963.3 FW = 1964.3
ZONE DESIGNATIONS	ZONE AE
TOWNSHIP & RANGE	T6N T5N R5W R4W
SECTION BOUNDARY	12 7 13 18
ELEVATION REFERENCE MARK	AJ3890
HYDRAULIC BASE LINE WITH RIVER MILE	1.0
BASE FLOOD ELEVATION	BFE=1985
LATERAL WEIR ID AND/OR BREAKOUT FLOW	1.023 19 cfs
STATE PLANE COORDINATE	1,004,000 N 430,000 E
ZONE BREAK/FLOODWAY LIMIT	(SHOWN AS WHITE)

NOTES

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

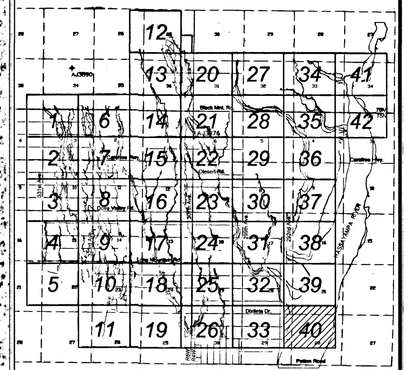
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3864	4ft2	990992.575	451804.915	1621.916

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) CERTIFICATE NO. 24999 JEFFREY R. MINCH Date Signed 9-2-08 ARIZONA, U.S.A.

EXPIRES 09-30-09

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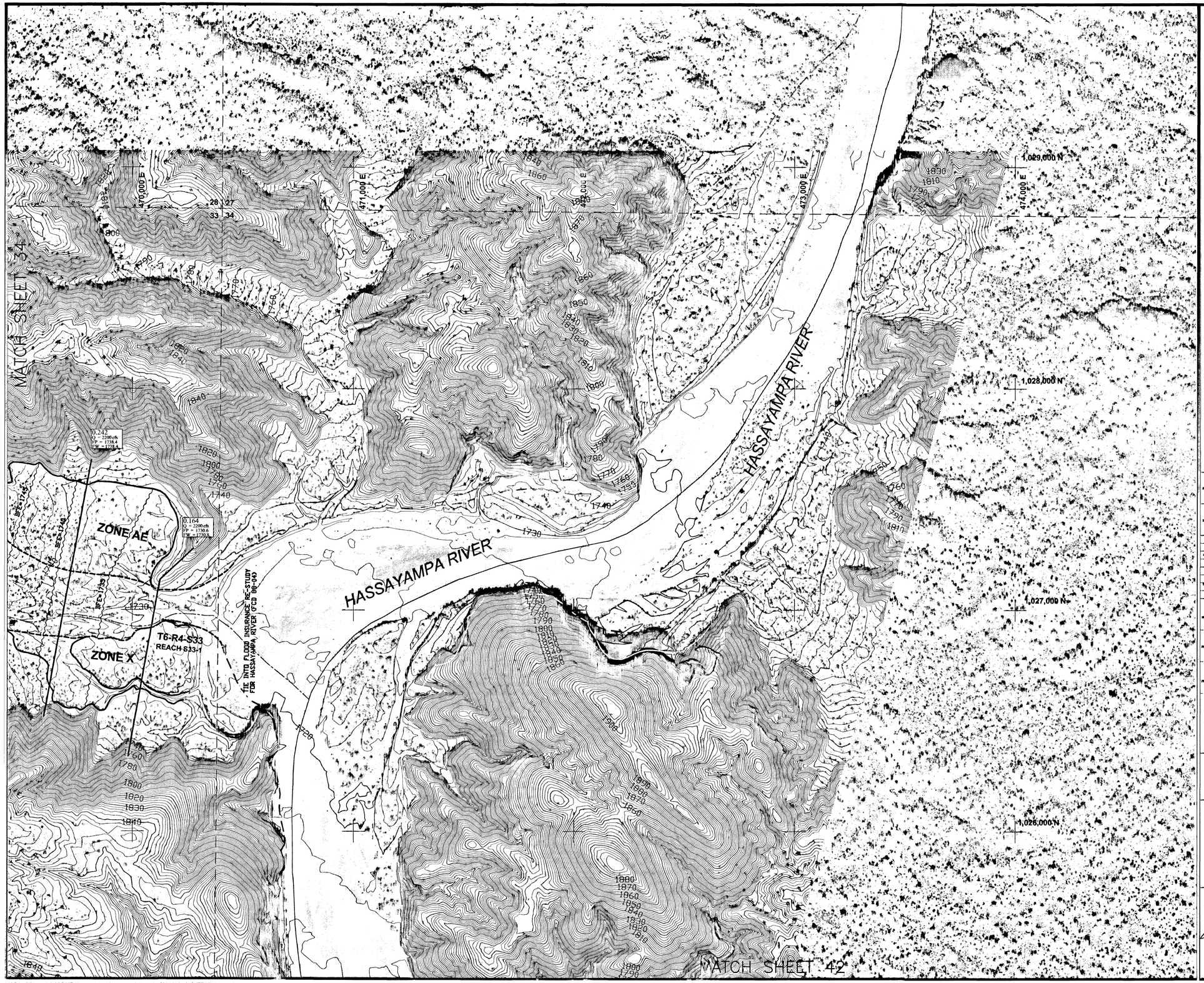
SHEET 40 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET40.dwg - Apr 21,2009 3:29pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET



LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029, Q = 2600 cfs, FP = 1963.3, FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023, 19 cfs
- STATE PLANE COORDINATE — 420,000 E, 1,004,899 N
- ZONE BREAK/FLOODWAY LIMIT (SHOWN AS WHITE)

NOTES

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

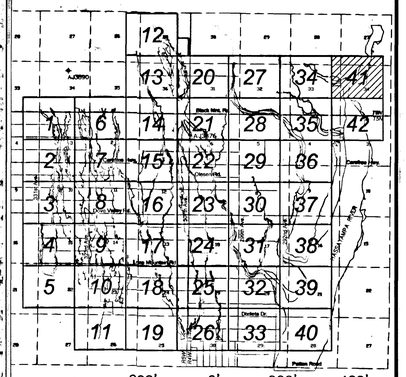
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

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

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET

CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION

FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 24999 — JEFFREY R. MINCH — Date Signed — ARIZONA, U.S.A.

EXPIRES 09-30-09

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WP# 062793

SHEET 41 OF 42

H:\2006Projects\062793 Upper Daggs\Drawings\WorkMap\WorkMap\ SHEET41.dwg - May 05,2009 2:54pm

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- 100-YR FLOODWAY BOUNDARY
- 100-YR FLOODPLAIN BOUNDARY (EXISTING OR CONCURRENT STUDY)
- 100-YR FLOODWAY (EXISTING OR CONCURRENT STUDY)
- CROSS SECTION — 6.029, Q = 2890 cfs, FP = 1963.3, FW = 1964.3
- ZONE DESIGNATIONS — ZONE AE
- TOWNSHIP & RANGE — T6N / T5N, R5W / R4W
- SECTION BOUNDARY — 12 | 7 / 13 | 18
- ELEVATION REFERENCE MARK — AJ3890
- HYDRAULIC BASE LINE WITH RIVER MILE — 1.0
- BASE FLOOD ELEVATION — BFE=1985
- LATERAL WEIR ID AND/OR BREAKOUT FLOW — 1.023, 19 cfs
- STATE PLANE COORDINATE — 430,000 E, 1,024,000 N
- ZONE BREAK/FLOODWAY LIMIT — (SHOWN AS WHITE)

NOTES

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

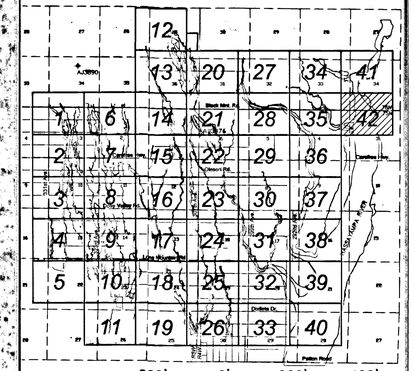
ELEVATION REFERENCE MARKS

GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) CONTROL STATIONS

NGS PID	Station Designation	NAD 83 Northing (feet)	NAD 83 Easting (feet)	NAVD 88 Elevation (feet)
AJ3599	41M2	992315.696	395092.070	1820.800

(Not Shown, Outside Boundary of Sheet)

SHEET INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200' FEET
CONTOUR INTERVAL = 2 FEET

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

UPPER DAGGS AND STAR WASH

ZONE AE FLOODPLAIN DELINEATION
FCD 2006C008

AUGUST 2008

Registered Professional Engineer (Civil) — 74999 — JEFFREY R. MINCH — Date Signed 9-30-09 — ARIZONA, U.S.A.

EXPIRES 09-30-09

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THE KELLER GROUP, L.L.C.

WP# 062793

SHEET 42 OF 42

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS (NMAS) FOR 1"= 200' HORIZONTAL SCALE AND 2' CONTOUR INTERVALS.

CH2MHILL, REDDING, CALIFORNIA
FLIGHT DATES: SEPTEMBER 2005

HORIZONTAL COORDINATION BASED ON THE ARIZONA STATE PLANE COORDINATION SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983 UNITS OF INTERNATIONAL FEET