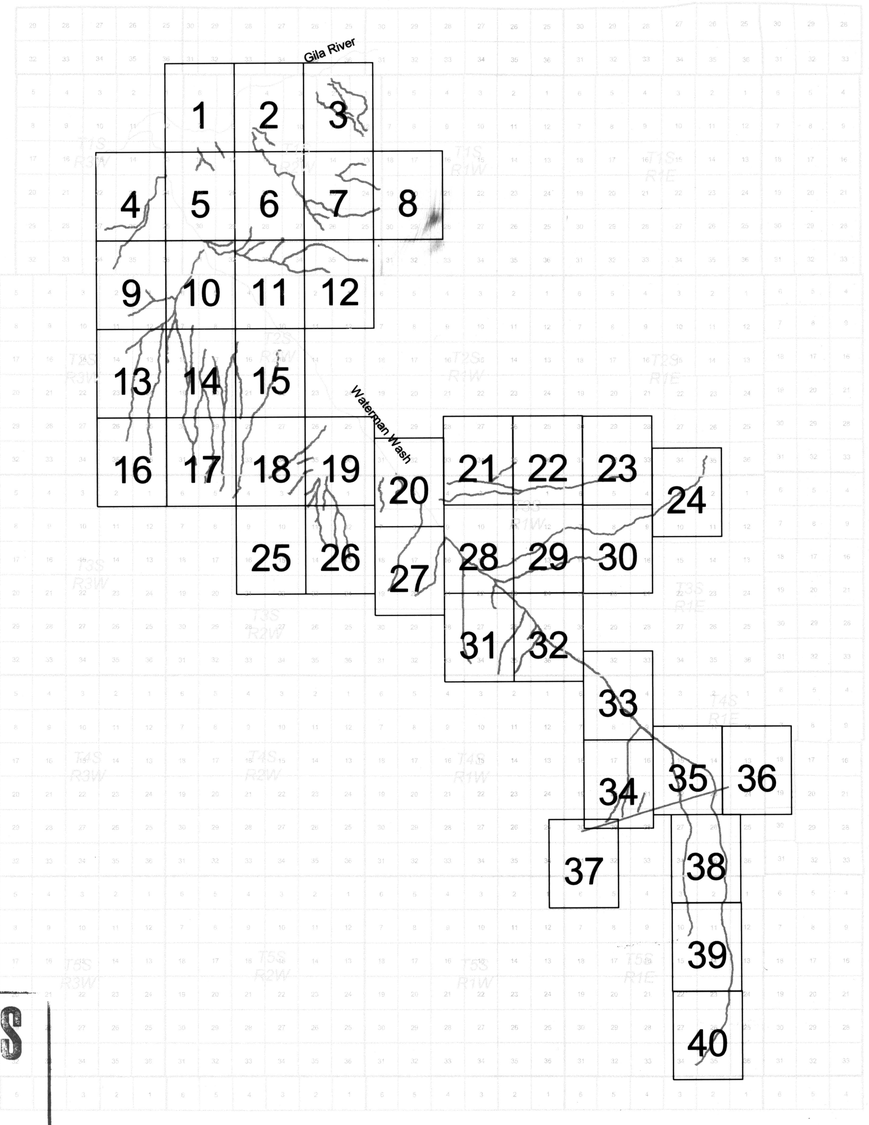
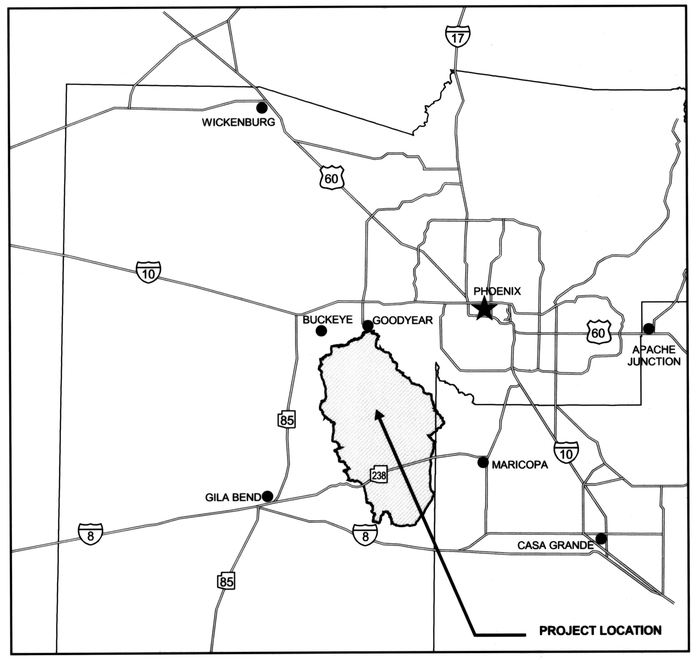
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

APPROXIMATE FLOODPLAIN DELINEATION STUDY
OF WATERMAN WASH AND TRIBUTARIES
FCD CONTRACT NUMBER 2002C024





DATUM

HORIZONTAL: NORTH AMERICAN DATUM OF 1983
VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988

AERIAL MAPPING

STEWART GEO-TECHNOLOGIES
DECEMBER 2000
10' CONTOUR INTERVAL

STATEMENTS BY PROFESSIONAL REGISTRANTS

THE FOLLOWING STATEMENTS APPLY TO THE INDIVIDUAL SEALS AFFIXED TO EACH OF THE MAPS FOLLOWING THE COVER SHEET.

HYDRAULICS

ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.
3003 NORTH CENTRAL AVENUE, SUITE 600
PHOENIX, ARIZONA 85012

THE FLOODPLAIN AND FLOODWAY DELINEATION WERE PREPARED UNDER MY DIRECT SUPERVISION:

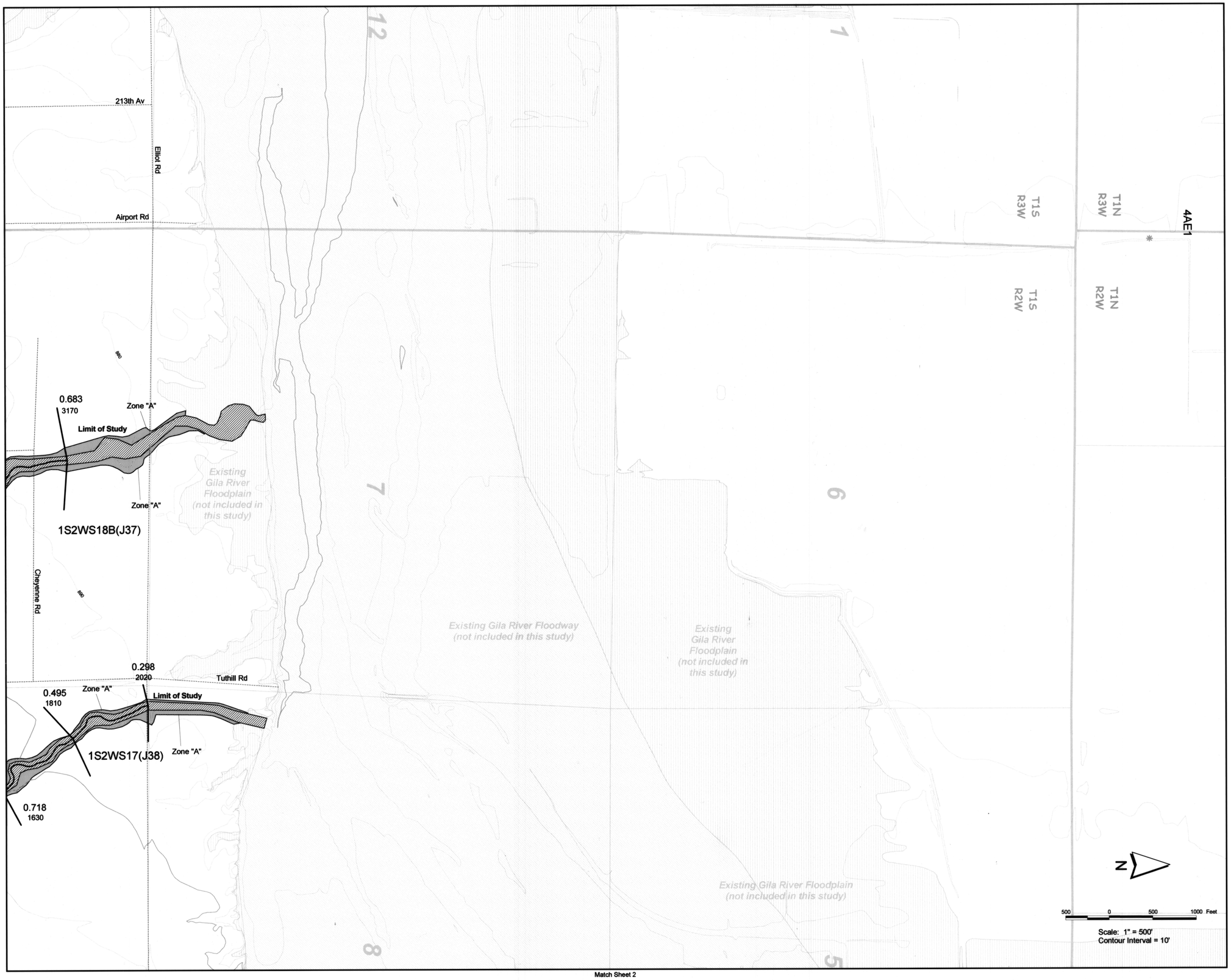
Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-04 ARIZONA U.S.A.

LIMIT OF ACCURACY

TOWNSHIP AND RANGE LINES WERE DIGITIZED FROM THE USGS 7.5' TOPOGRAPHICAL QUADRANGLE MAPS.

CENTRAL FILES
DRAWER # 314

Waterman Wash & Tributaries
Approximate FDS
Stewart GEO-Tech; EEC, Inc.
FCD 202C024
2003 Drawer 314



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

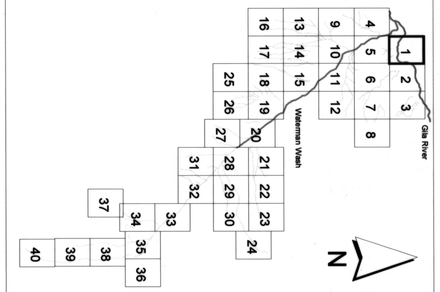
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
4AE1	869.18

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 2-16-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 1 OF 40

Match Sheet 1

Rainbow Valley Rd

Corto Ln

Elliot Rd

Zone "A"

1.157
4040

1.117
4040

0.747
3950

Limit of Study

0.913
3980

1.367
4080

1S2WS9A(J39)

Limit of Study

0.716
1570

0.914
1510

1.178
730

1.333
690

1.405
660

1S2WS9B(J40)

1.448
360

1.365
660

1.702
320

Limit of Study

Existing Gila River Floodway
(not included in this study)

Existing
Gila River
Floodplain
(not included in
this study)

T1S
R2W

T1N
R2W

900

950

1000

950

San Ricardo Dr

Wilson Ln

Quinn Dr

Porter Dr

Sunset Dr

Santa Columbia Dr

Santa Margarita Ln

Casa Blanca Dr

Blossom Dr

San Miguel Dr

Santa Alberta Ln

Elliot Rd

Existing Gila River Floodplain
(not included in this study)

Match Sheet 6

Match Sheet 3

N

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
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- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

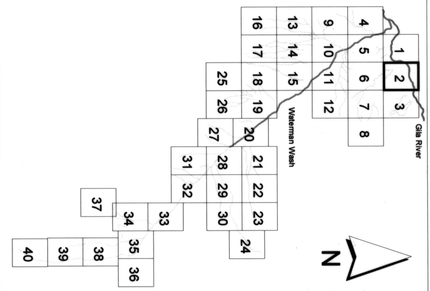
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3BD3 (see Sheet 6)	989.44

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-16-06 ARIZONA, U.S.A.

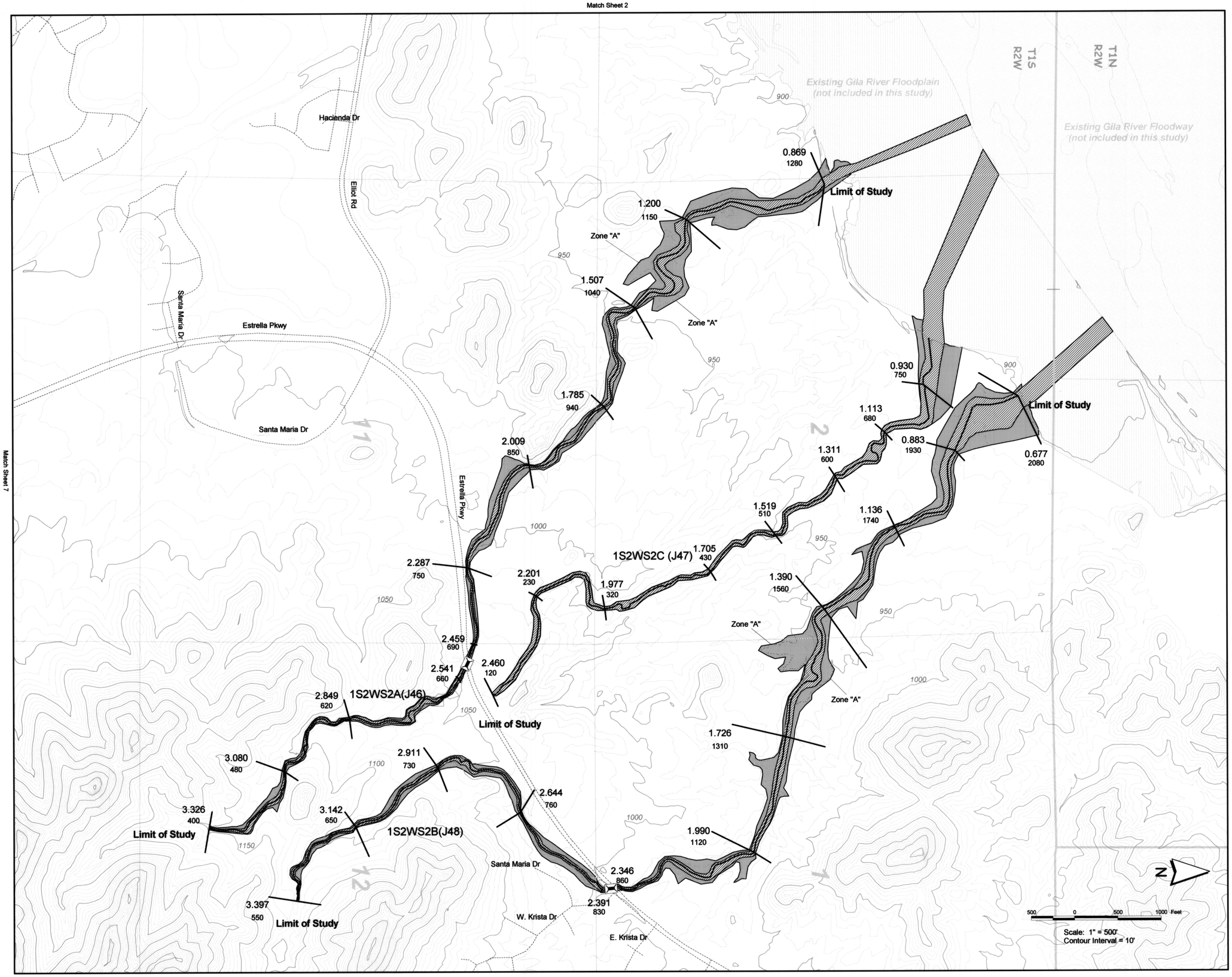
eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 2 OF 40

Match Sheet 2

Match Sheet 7



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
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- Existing Culvert
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1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3BD3 - (see Sheet 6)	989.44

NOTES

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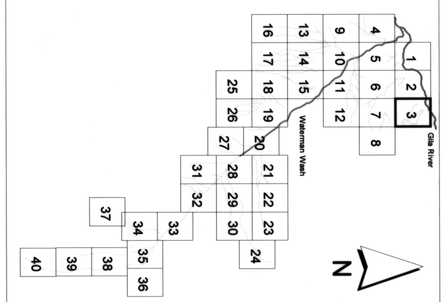


SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

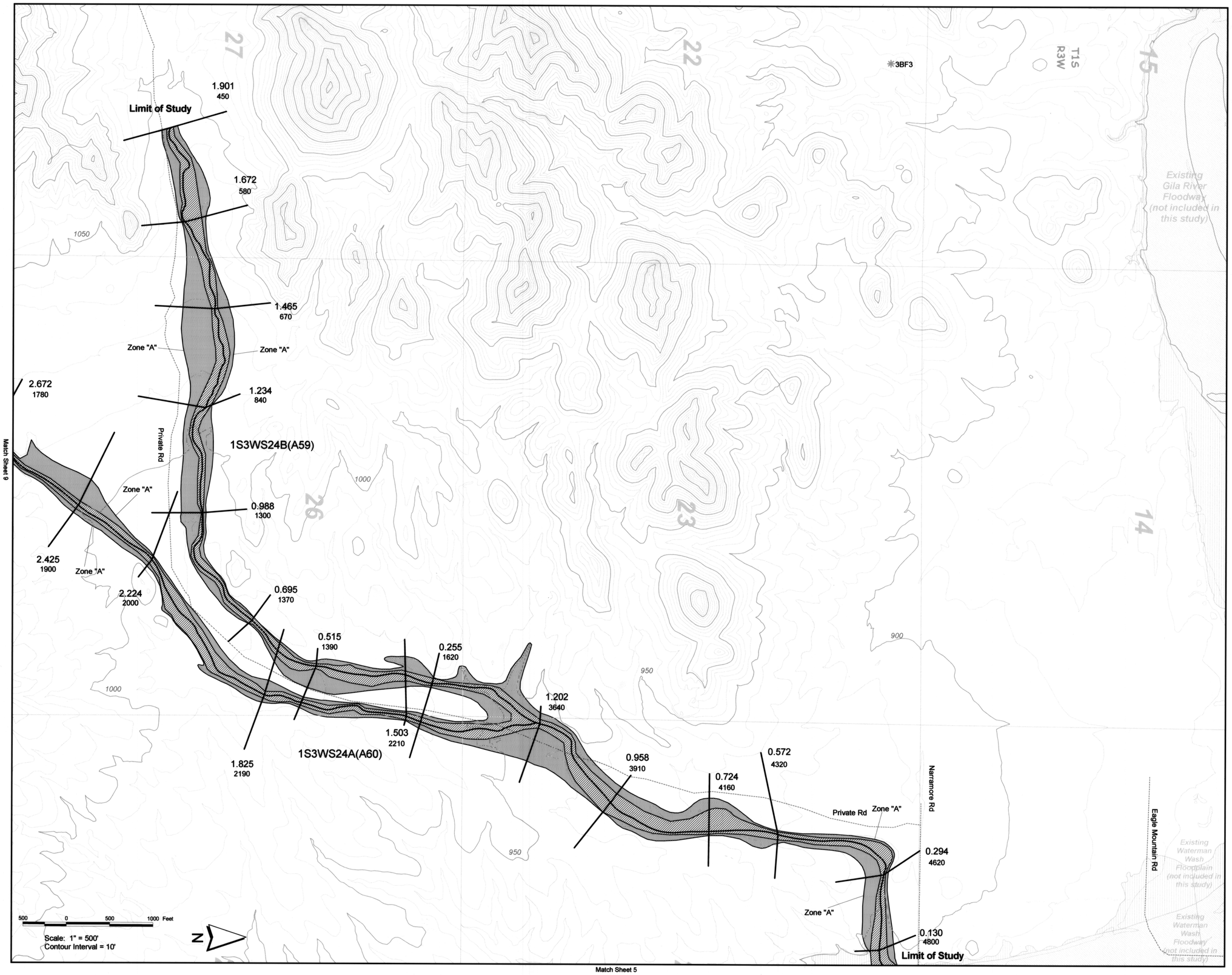
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37590 LLOYD A. VICK Date Signed 3-16-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 3 OF 40



Legend

- Cross Section
- Hydraulic Baseline
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- New Administrative Floodway Boundary
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- Existing Culvert
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1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

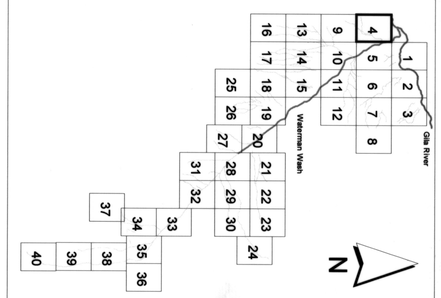
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3BF3	935.83

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

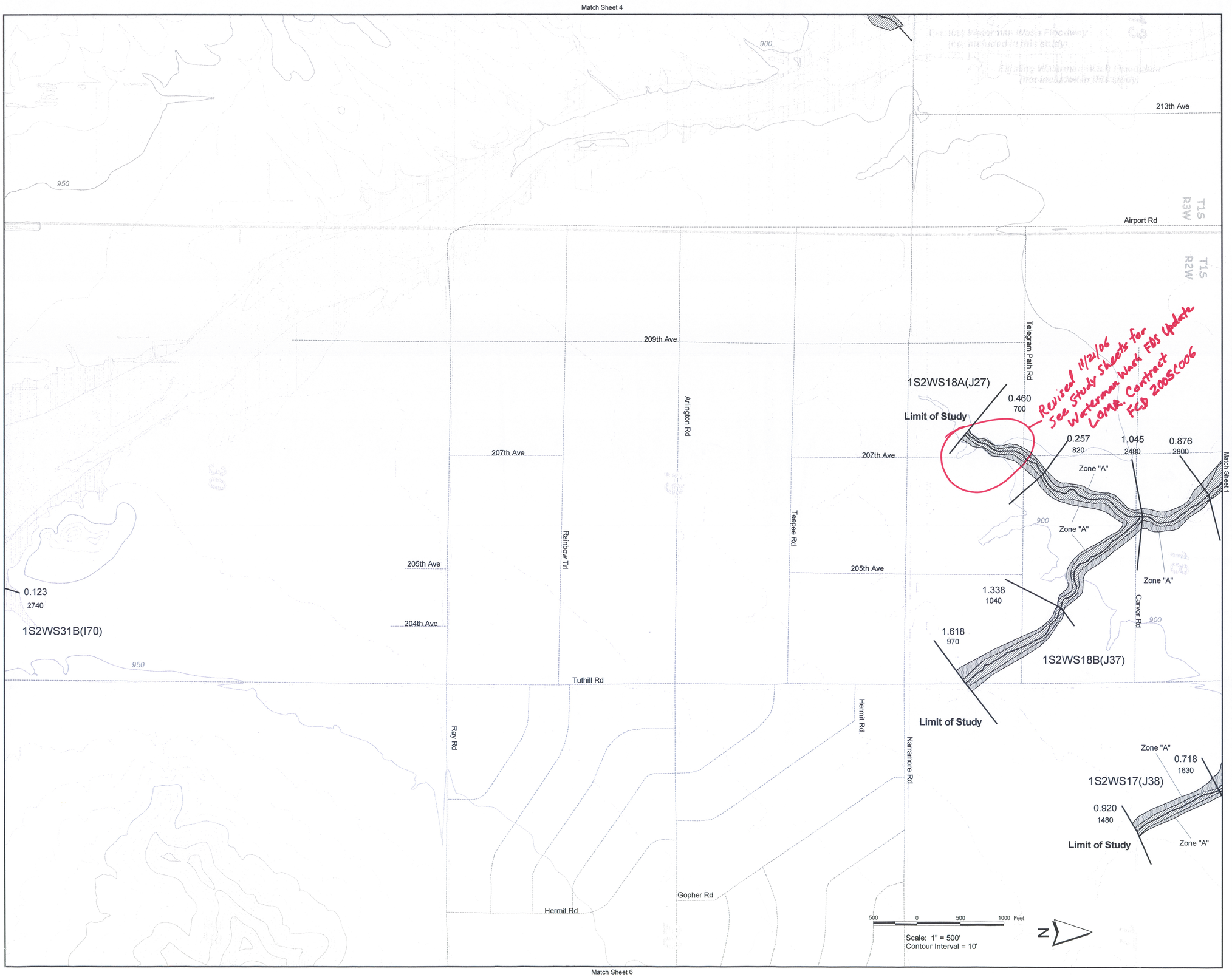
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 7-8-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 4 OF 40



Legend

- Cross Section
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- Elevation Contour (10' Interval)
- Township Boundary
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1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3BD3 (see Sheet 6)	989.44

NOTES

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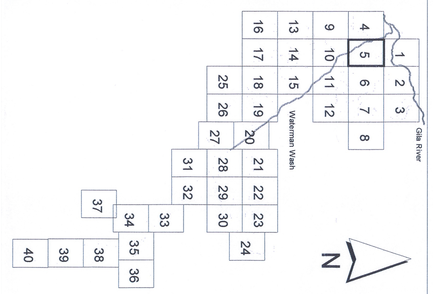


SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

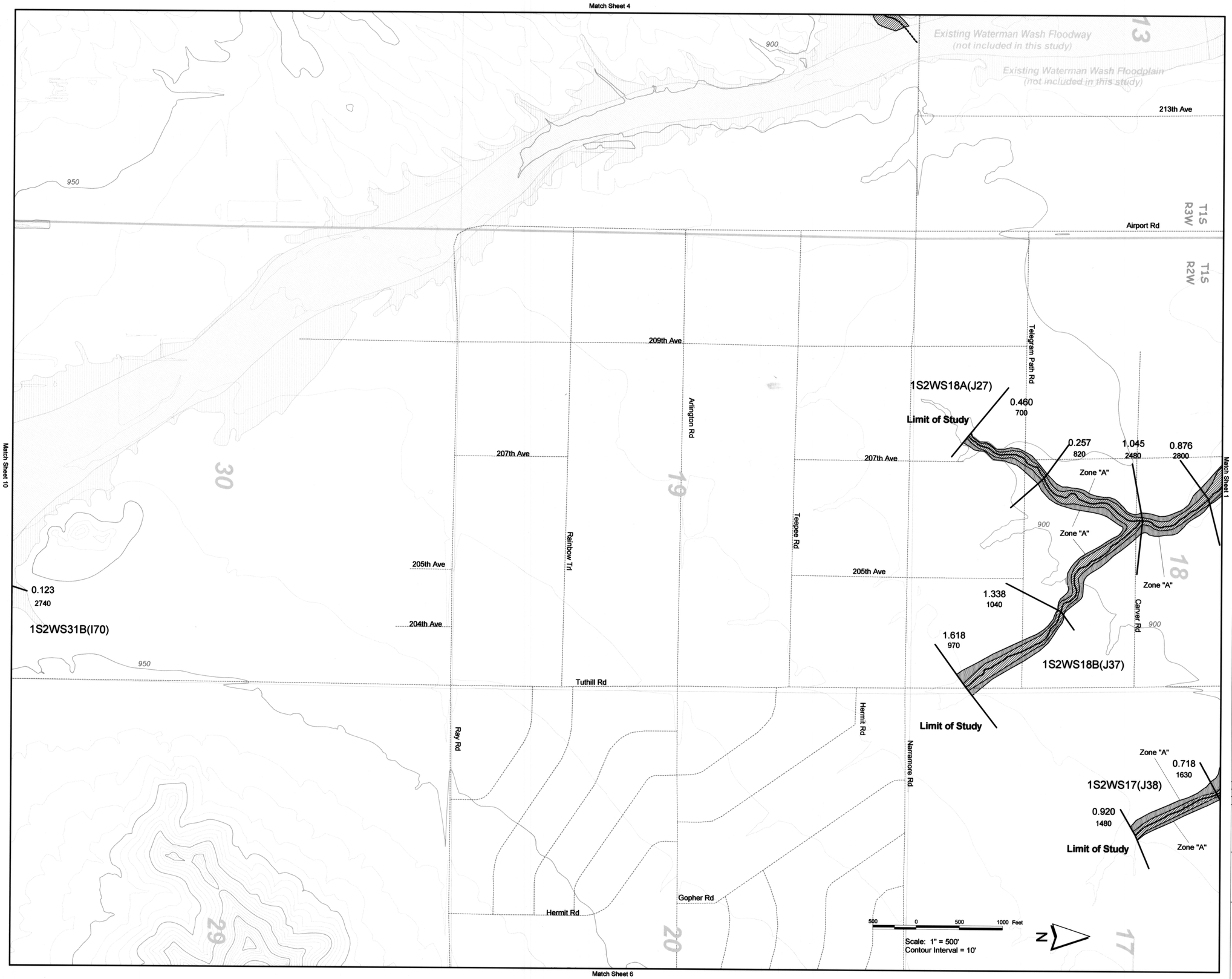
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 3-10-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 5 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
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- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3BD3 (see Sheet 6)	989.44

NOTES

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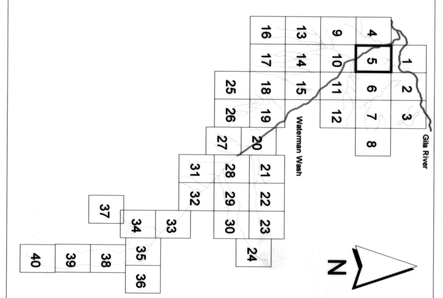


SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 3-10-05 Arizona, U.S.A.

Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 5 OF 40

Match Sheet 5

Garnet Rd

Rainbow Valley Rd

Zone "A"

0.745
210

0.890
140

1.016
70

Limit of Study

1S2WS32B (I68)

1000

Arlington Rd

Narramore Rd

194th Dr

Lynx Rd

Fox Rd

Carver Rd

Huron Ln

Ramos Ln

193rd Dr

950

192nd Ave

191st Ave

190th Ave

189th Ave

188th Ave

187th Ave

186th Ave

Rustler Rd

1000

1050

28

21

16

27

22

15

1.725
4160

1.959
4210

3BD3

950

2.214
4270

2.508
4330

Zone "A"

1S2WS9A(J39)

Zone "A"

2.751
4390

3.313
3940

3.065
4140

3.516
3780

3.881
3500

4.055
1130

Zone "A"

0.887
170

Limit of Study

1S2WS33(I66)

Zone "A"

Match Sheet 11

Match Sheet 2

Match Sheet 7

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

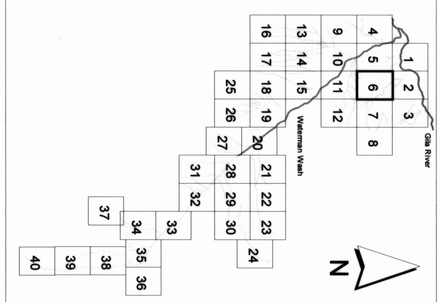
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3BD3	989.44

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

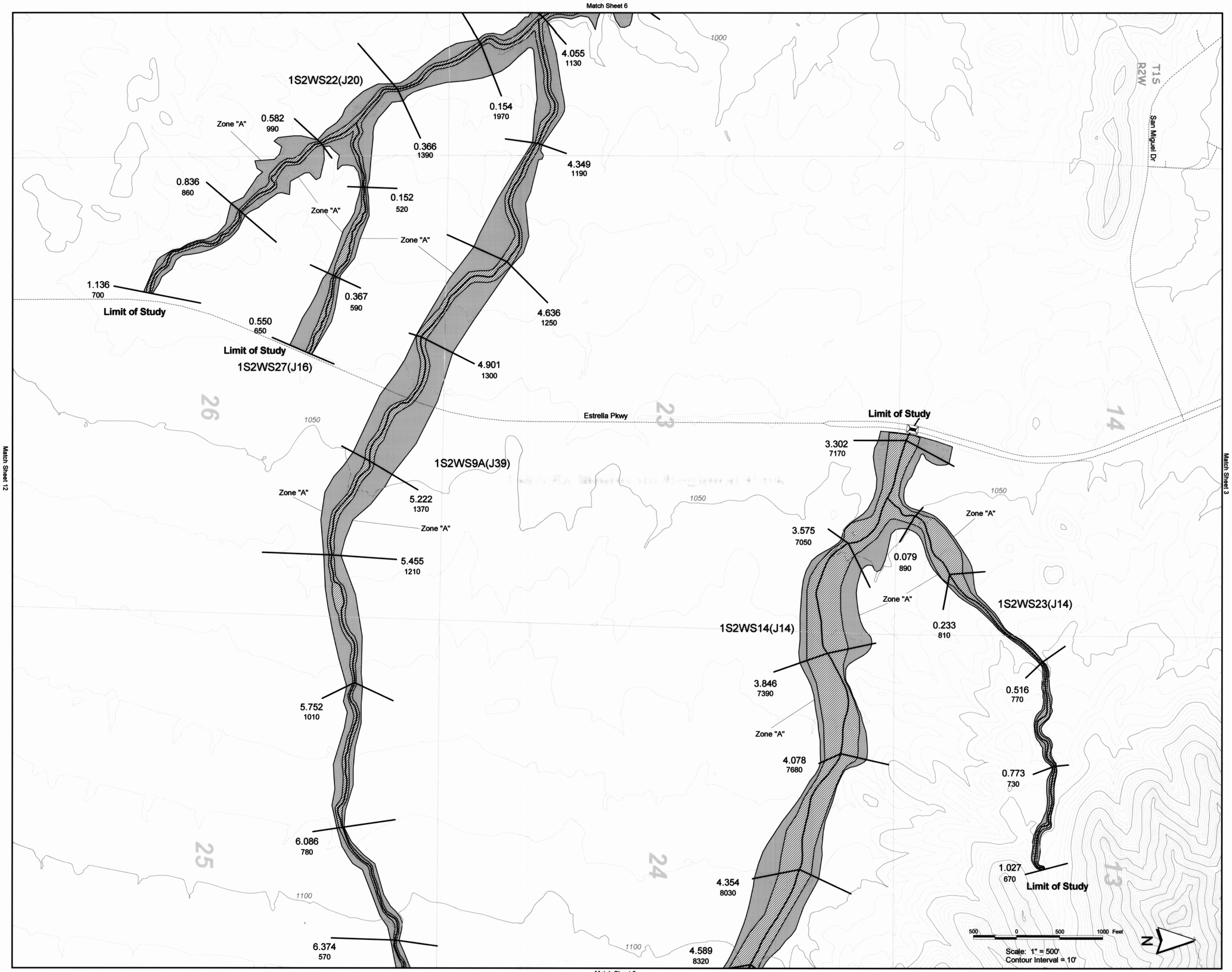
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-14-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 6 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
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- Local Road
- Railroad
- Existing Culvert
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1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

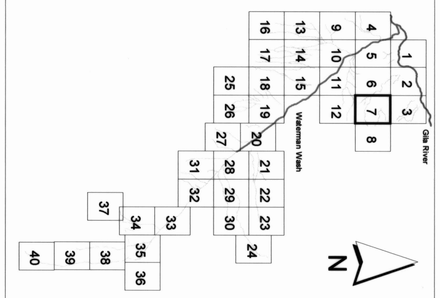
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3BD3 (see Sheet 6)	989.44

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

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eec Engineering and Environmental Consultants, Inc.

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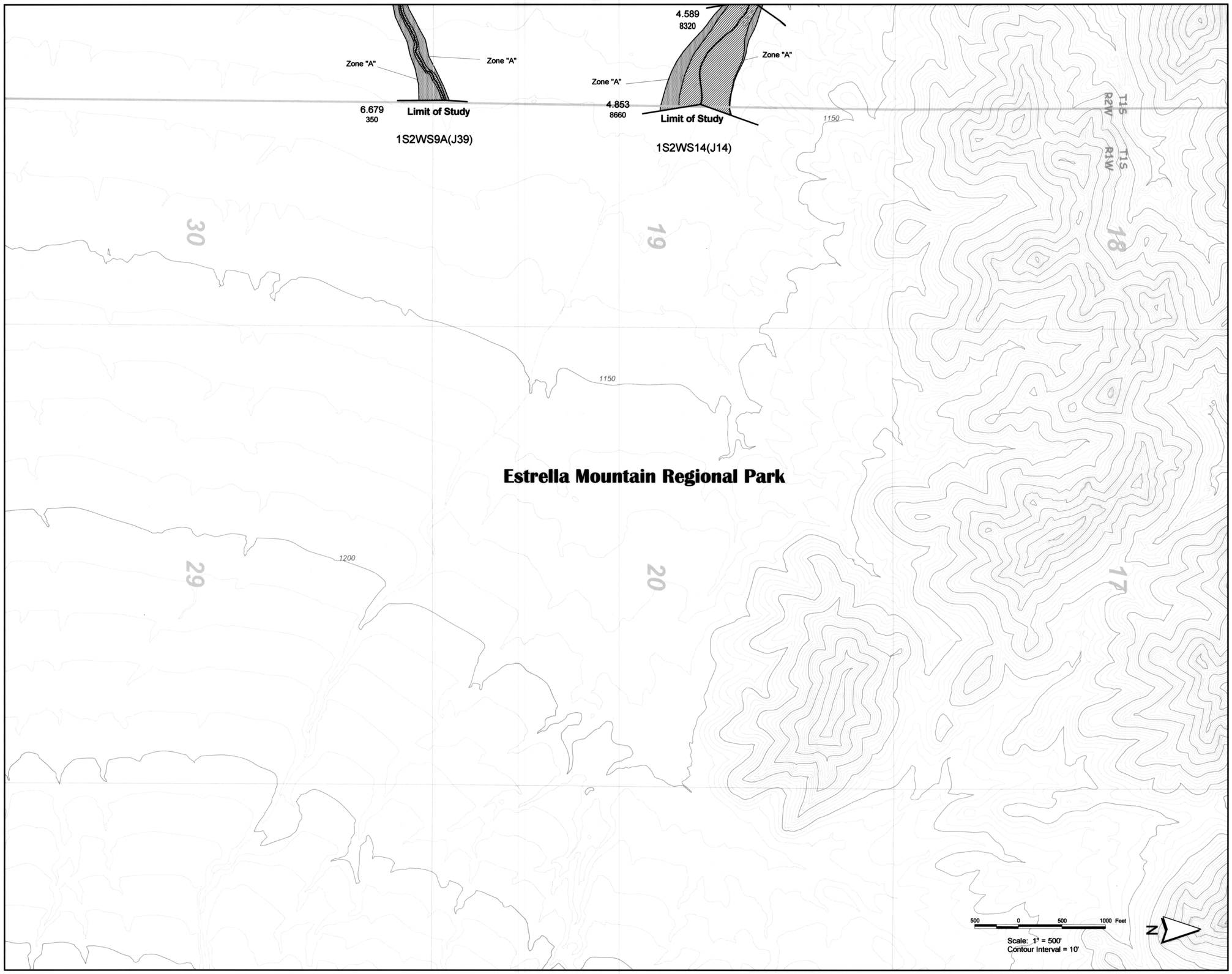
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 7 OF 40

Match Sheet 7



Legend

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1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

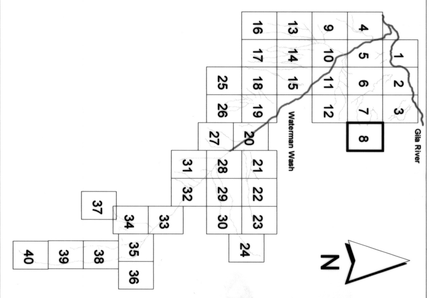
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3CC3 (see Sheet 12)	1102.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

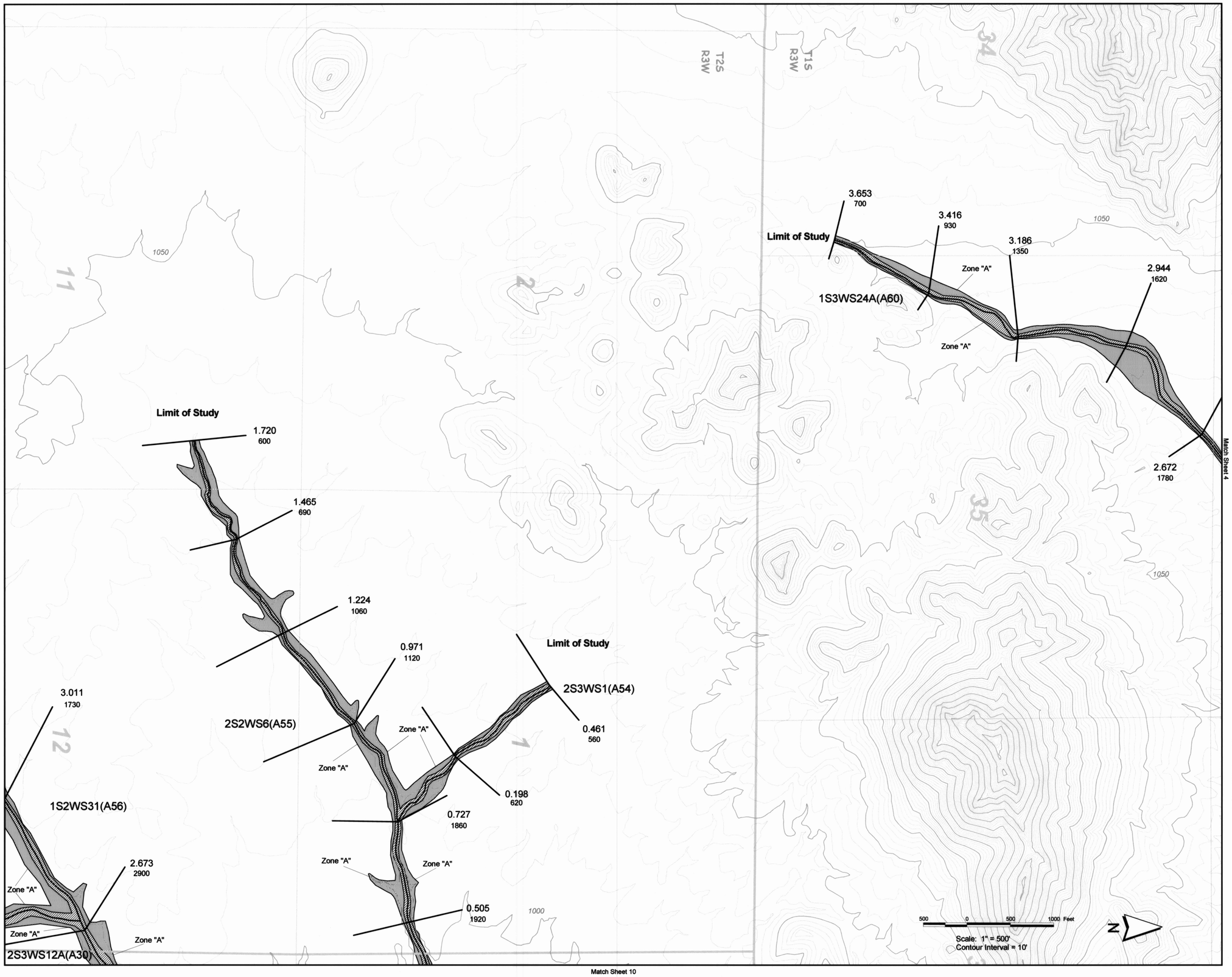
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE No. 37590 LLOYD A. VICK Date Signed 3-31-05 ARIZONA, U.S.A.

Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 8 OF 40



Legend

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1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
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Zone "A"	Floodplain Zone

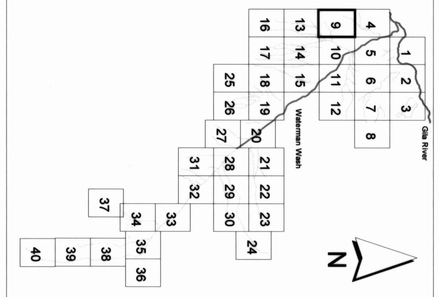
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3CE3 (see Sheet 10)	1002.66

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

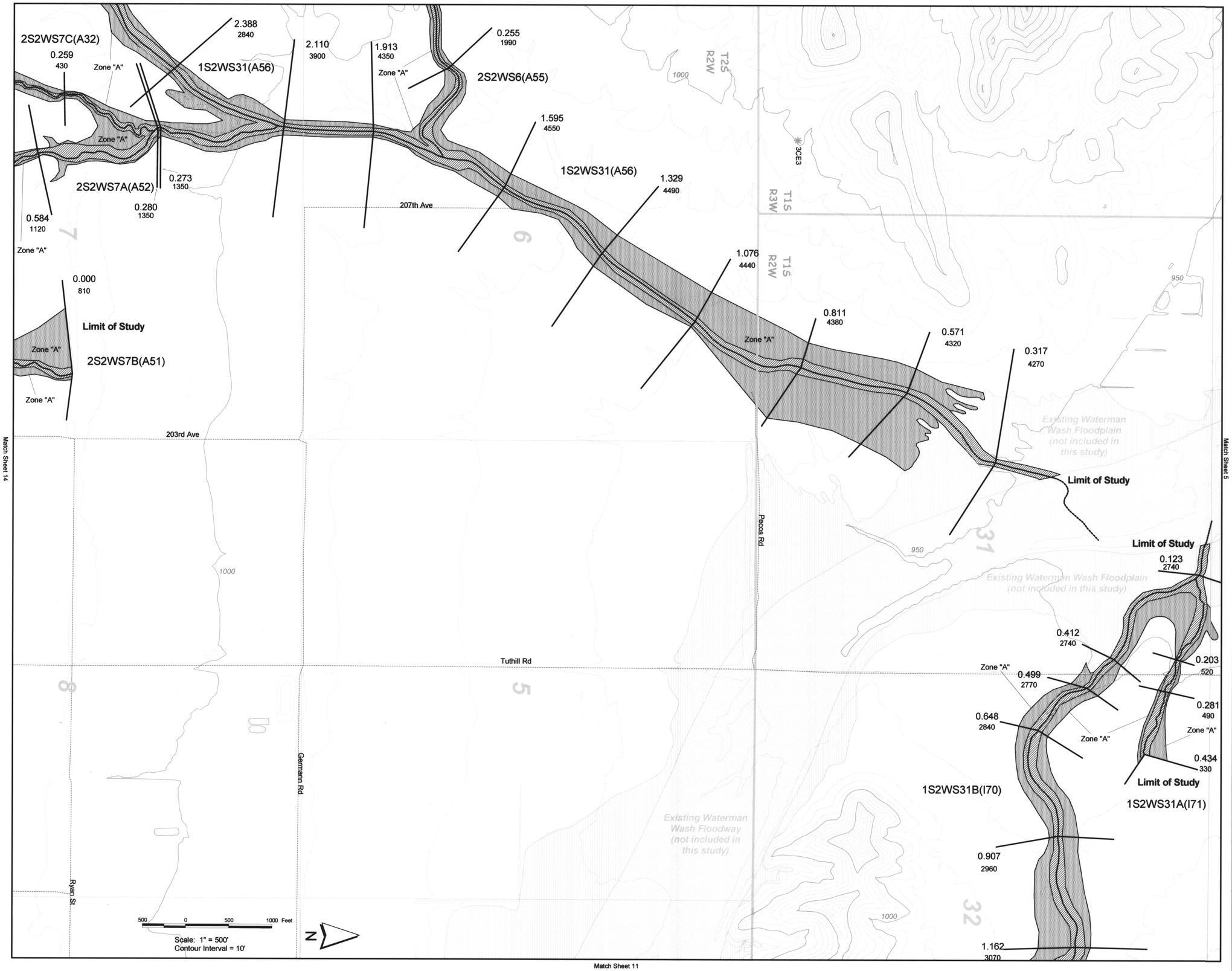
Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-06 ARIZONA U.S.A.

Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 9 OF 40

Match Sheet 9



Match Sheet 14

Match Sheet 5

Match Sheet 11

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

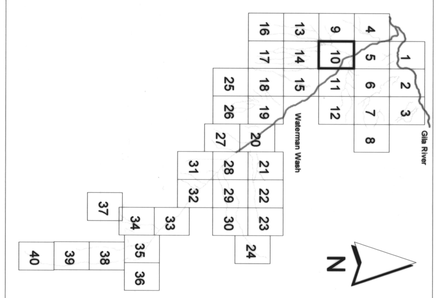
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3CE3	1002.66

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

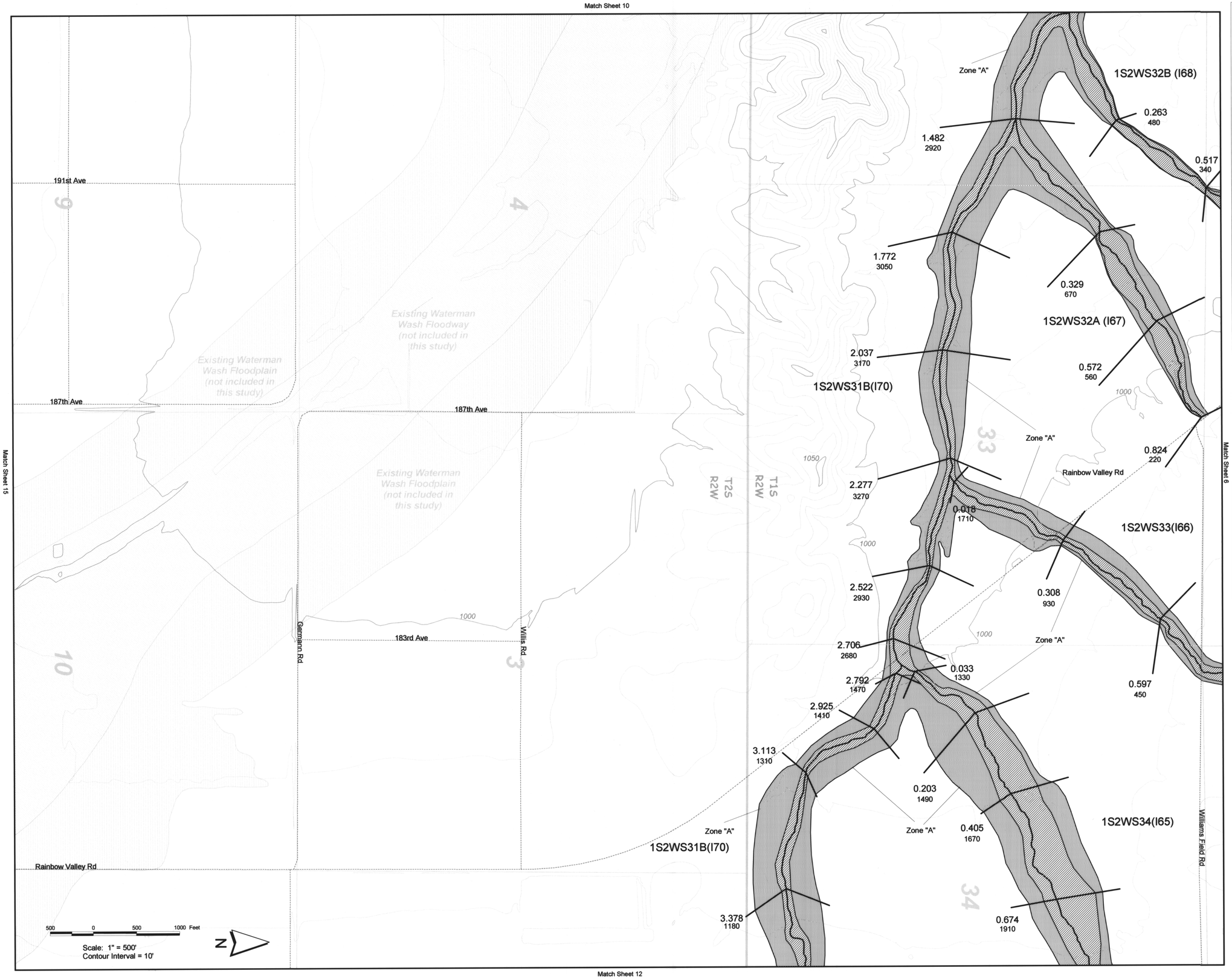
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK State Registered Arizona U.S.A.

Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 10 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

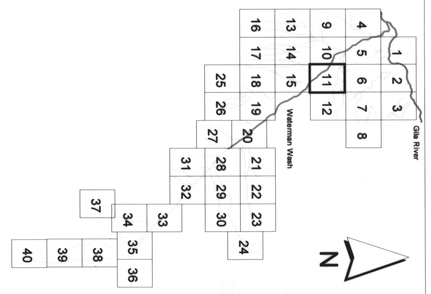
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3CC3 (see Sheet 12)	1102.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 2-10-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 11 OF 40

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

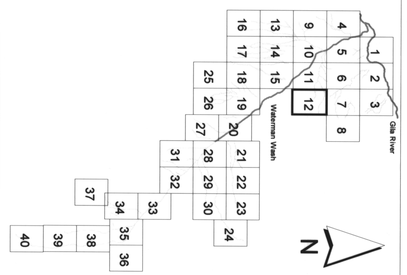
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3CC3	1102.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

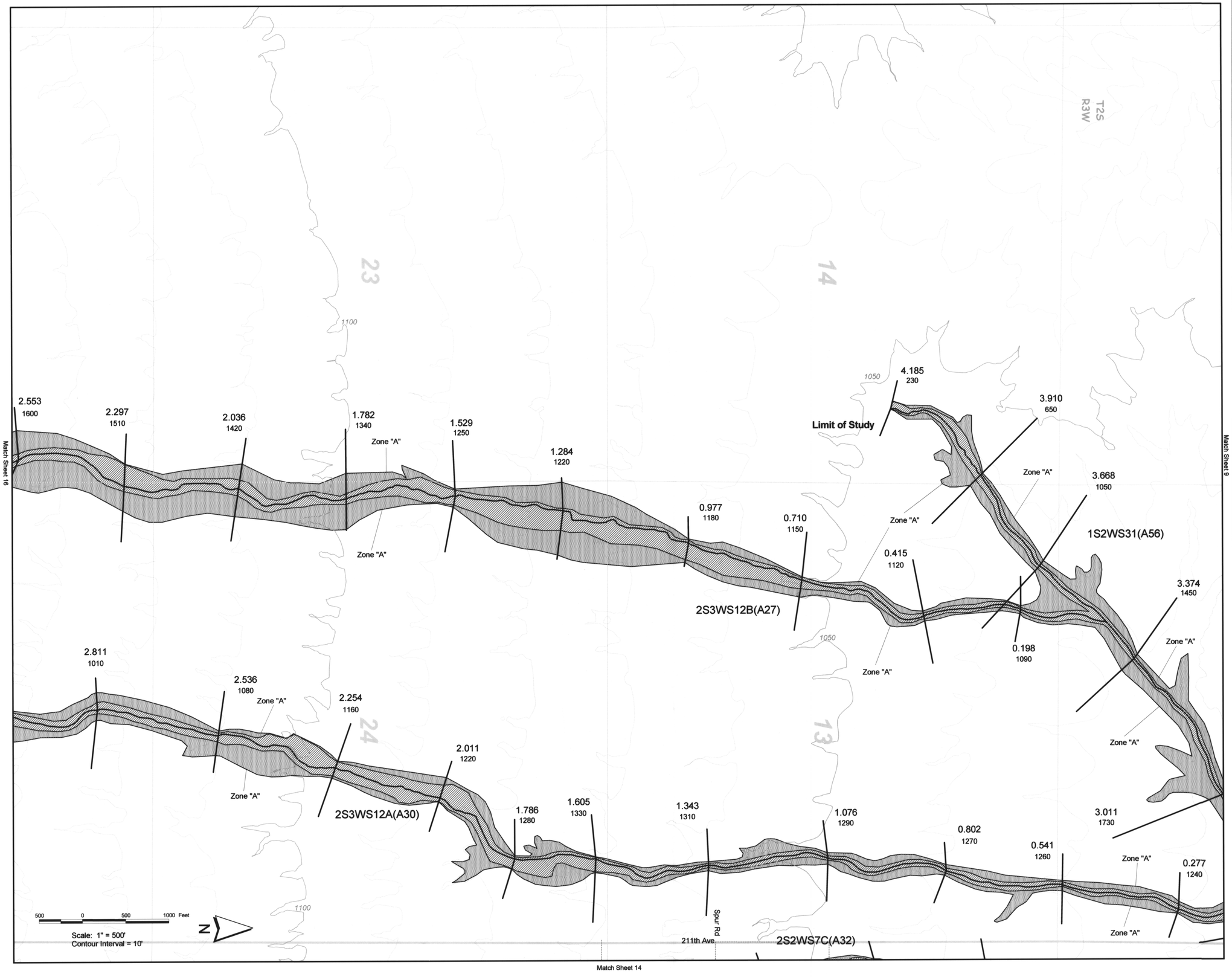
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-31-06 ARIZONA U.S.A.

eac Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 12 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

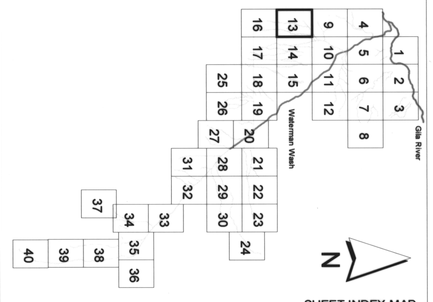
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EE2 (see Sheet 16)	1221.80

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 3-10-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

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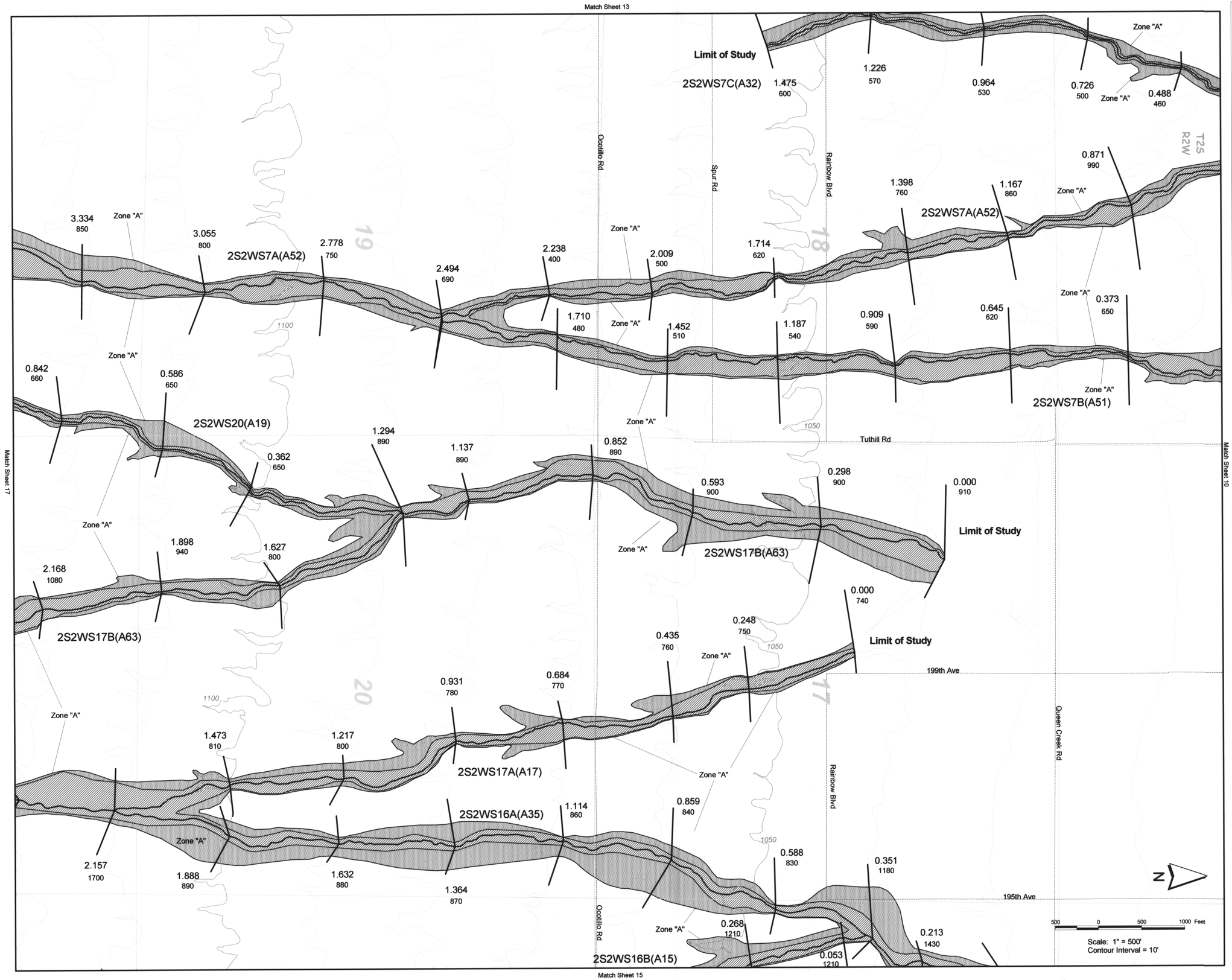
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 13 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

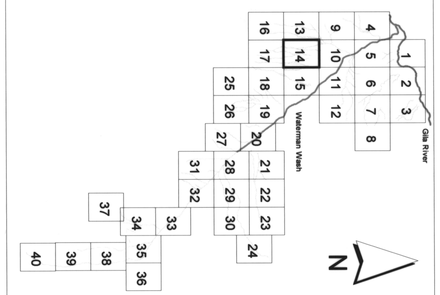
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3DD1 (see Sheet 15)	1059.52

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 7-10-06 ARIZONA, U.S.A.

eac Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 14 OF 40

Match Sheet 14

1.815
720

1.550
760

1.308
790

Zone "A"

1.047
830

0.781
870

2S2WS16B(A15)

0.524
1210

0.268
1210

Zone "A"

0.213
1430

0.000
1730

Zone "A"

Limit of Study

2S2WS16A(A35)

T2S
R2W

21

Ocotillo Rd

191st Ave

Queen Creek Rd

2.097
1100

1100

1.867
1050

3DD1

1.617
1100

Zone "A"

1.379
1160

Perryville Rd

187th Ave

Match Sheet 18

1.054
1230

Zone "A"

0.799
1280

0.560
1330

2S2WS15(A37)

0.286
1390

Zone "A"

0.000
1460

Limit of Study

1050

22

15

Chandler Heights Rd

Rainbow Blvd

Rainbow Valley Rd

Existing Waterman Wash Floodplain (not included in this study)

Existing Waterman Wash Floodway (not included in this study)

Existing Waterman Wash Floodplain (not included in this study)

Match Sheet 11

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

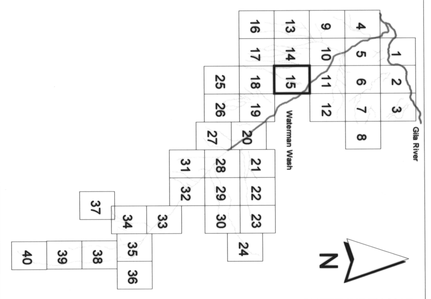
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3DD1	1059.52

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

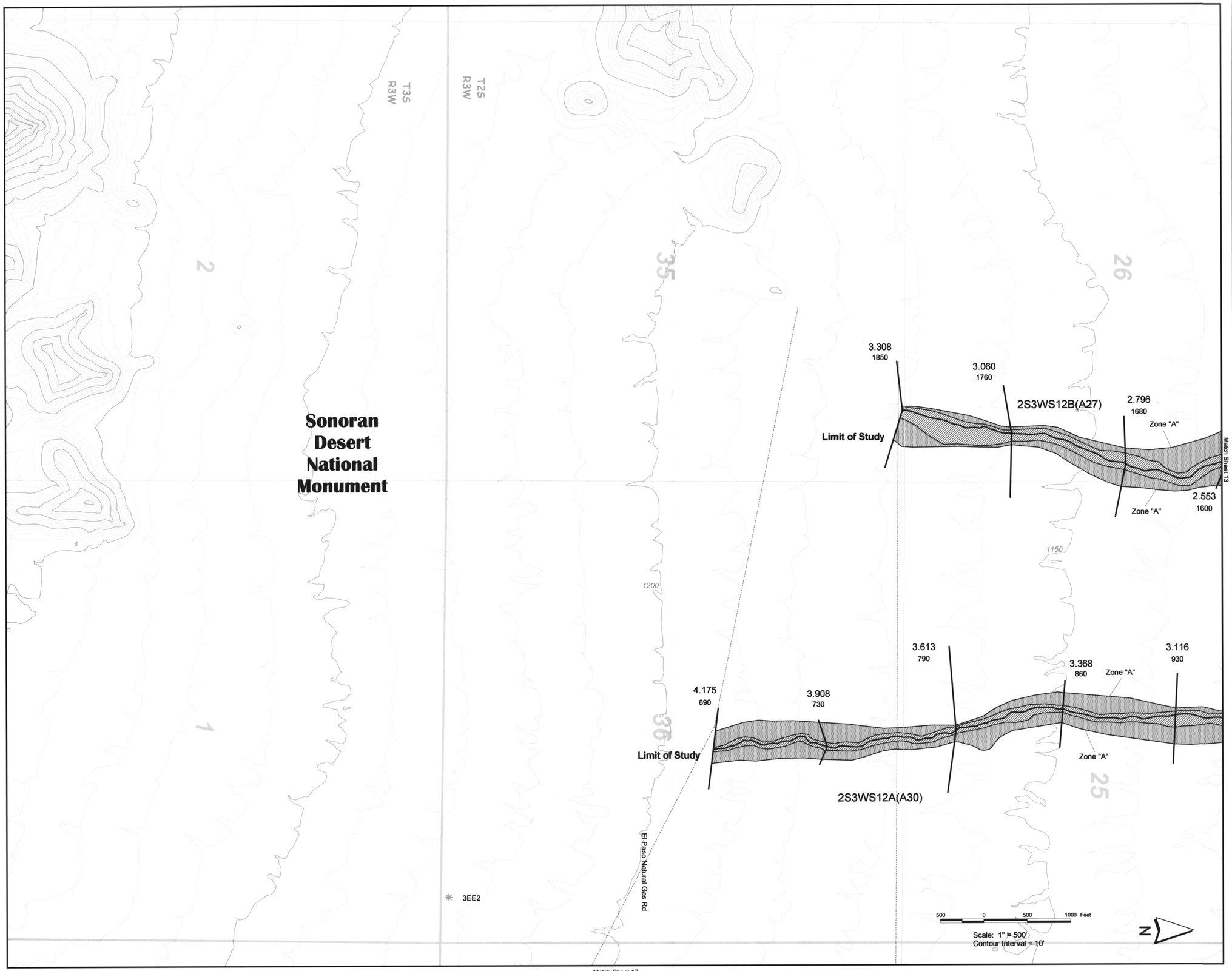
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37590 LLOYD A. VICK Date Signed 3-10-05 ARIZONA, U.S.A.

Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 15 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

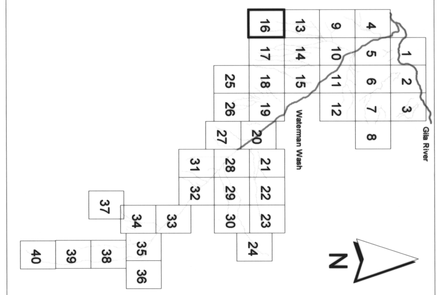
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EE2	1221.80

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

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PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 16 OF 40

Match Sheet 16

T3S R2W

T2S R2W

6

31

30

5

32

29

Sonoran Desert National Monument

El Paso Natural Gas Rd

1200

1150

Limit of Study

2S2WS7A(A52)

5.079
600

4.837
630

4.594
660

4.407
1640

4.292
950

4.127
1090

3.891
1280

3.601
1530

Zone "A"

2S2WS20(A19)

1.581
680

1.338
680

1.117
670

Limit of Study

2S2WS17B(A63)

4.381
1840

4.098
1800

3.884
1760

3.592
1720

3.299
1670

3.038
1540

2.771
1400

2.521
1270

Limit of Study

2S2WS16A(A35)

4.711
840

4.426
920

4.194
1010

3.954
1090

3.708
1180

3.458
1260

3.199
1350

2.957
1430

2.701
1520

2.377
1630

2S2WS15(A37)

5.019
980

Limit of Study

Zone "A"

Match Sheet 18

Match Sheet 14

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EE2 (see Sheet 16)	1221.80

NOTES

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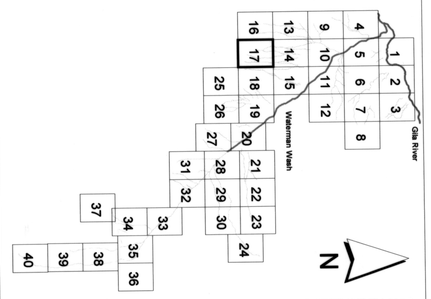

SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 7-15-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

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DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 17 OF 40

Match Sheet 17

4.775
1030

4.444
1100

4.151
1160

3.934
1200

Zone "A"

3.680
1250

Zone "A"

3.418
1300

3.145
1360

2S2WS15(A37)

2S2WS16B(A15)

Limit of Study

2.077
680

Zone "A"

Zone "A"

2.877
1290

Zone "A"

2.616
1230

2.322
1160

1200

33

28

T3S
R2W

T2S
R2W

Perryville Rd

2.531
200

Limit of Study

2.274
260

2.020
310

1.771
350

2S2WS26(A41)

1.513
390

1.250
430

Zone "A"

1150

1100

Riggs Rd

1100

Rainbow Valley Rd

3

34

27

0.871
970

Limit of Study

2S2WS35B(B29)

0.662
970

0.409
970

Zone "A"

Zone "A"

Limit of Study

0.536
510

2S2WS35A(B58)

Zone "A"

0.287
510

3S2WS2E(B33)

Limit of Study

0.713
600

Zone "A"

Zone "A"

Match Sheet 19

Match Sheet 25

Match Sheet 15

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

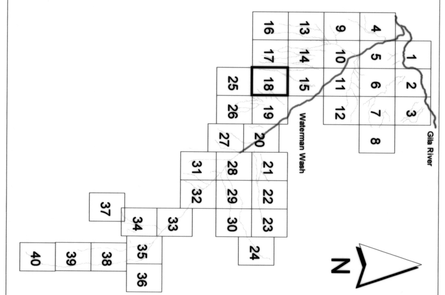
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EC2 (see Sheet 19)	1106.01

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 3-16-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

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DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 18 OF 40

Match Sheet 18

3S2WS2D (B35)
0.275
1090
0.439
630
3S2WS2E(B33)
Zone "A"
0.217
660
Zone "A"
0.807
1150
0.561
1200
0.386
1840
Zone "A"
3S2WS2A (B33)
0.040
2220
0.000
2220
Limit of Study
3S2WS2C(B38)
0.287
420
0.467
360
Zone "A"
Cotton Ln
0.315
2210
0.093
2180
Limit of Study
0.432
2230
3S2WS2B (B65)
0.000
2190
0.630
2260
Zone "A"
0.823
2290

Match Sheet 26

Zone "A"
0.223
970
Zone "A"
Zone "A"
0.000
970
Limit of Study
2S2WS35B(B29)

0.257
510
Zone "A"
0.000
740
Limit of Study
2S2WS35A(B58)
175th Ave
1100

0.988
490
Zone "A"
0.640
1210
Zone "A"
0.330
1120
2S2WS26(A41)
0.000
1020
Limit of Study

35
26
1
36
25

Riggs Rd
Hunt Hwy

Existing Waterman Wash Floodplain (not included in this study)

Existing Waterman Wash Floodway (not included in this study)

Existing Waterman Wash Floodplain (not included in this study)

T3S R2W
T2S R2W
T3S R1W
T2S R1W

3EC2
Sarival Ave

500 0 500 1000 Feet
Scale: 1" = 500'
Contour Interval = 10'

Match Sheet 20

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

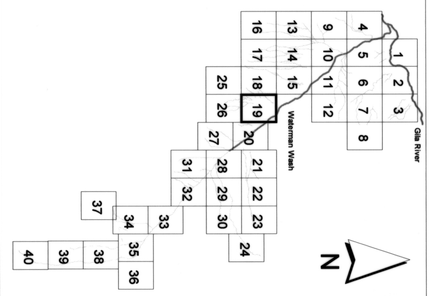
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EC2	1106.01

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-06 ARIZONA U.S.A.

Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 19 OF 40

Match Sheet 26

Match Sheet 19

Match Sheet 27

Match Sheet 28

Match Sheet 21

T3S R1W

T2S R1W

Limit of Study

Zone "A"

3S1WS6(B47)

1.151
540

0.895
590

0.664
640

0.318
710

0.000
780

1.117
690

2S1WS31(B46)

0.858
980

0.601
1270

0.326
1570

Limit of Study

Zone "A"

Zone "A"

Limit of Study

Zone "A"

0.643
2640

0.382
2620

0.265
2610

0.228
2600

0.005
2580

Limit of Study

3S1WS5(B45)

Zone "A"

Limit of Study

0.000
2170

3S1WS4A (H71)

Existing Waterman Wash Floodplain (not included in this study)

Existing Waterman Wash Floodway (not included in this study)

Existing Waterman Wash Floodplain (not included in this study)

Hunt Hwy

Patterson Rd

Riggs Rd

Estrella Pkwy

Bullard Ave

1150

1100

7

6

31

8

5

32

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

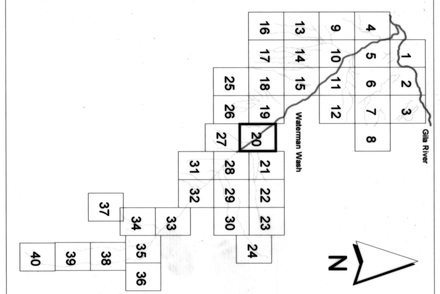
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EC2 (see Sheet 19)	1106.01

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

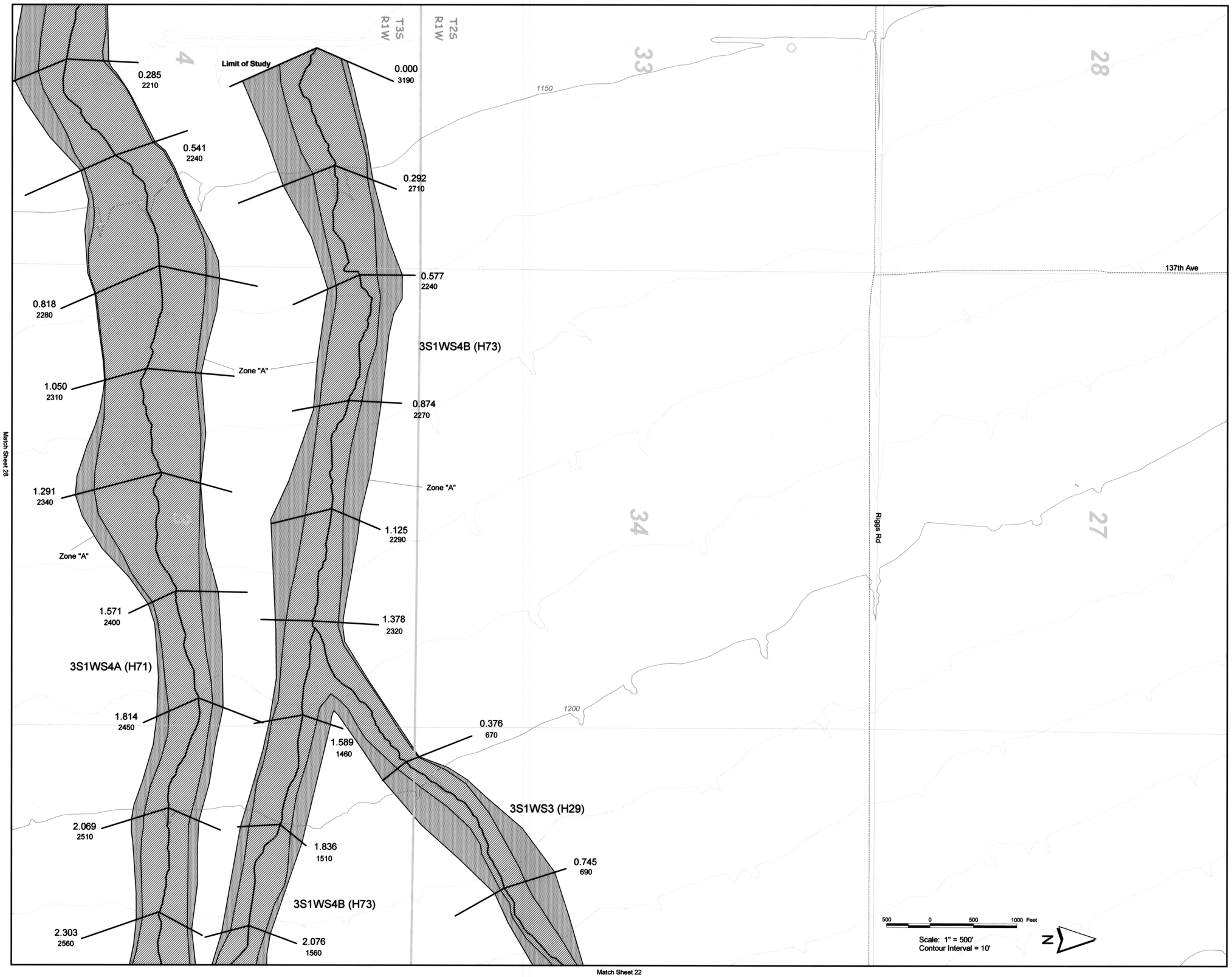
Registered Professional Engineer (Civil) CERTIFICATE No. 37890 LLOYD A. VICK Date Signed 7-13-05 ARIZONA, U.S.A.

Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK	L.A.V.	1-13-05

SHEET 20 OF 40

Match Sheet 20



Match Sheet 28

Match Sheet 22

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

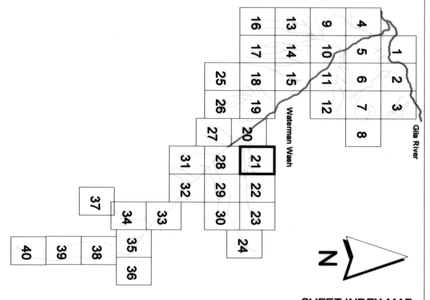
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EA3 (see Sheet 22)	1265.04

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

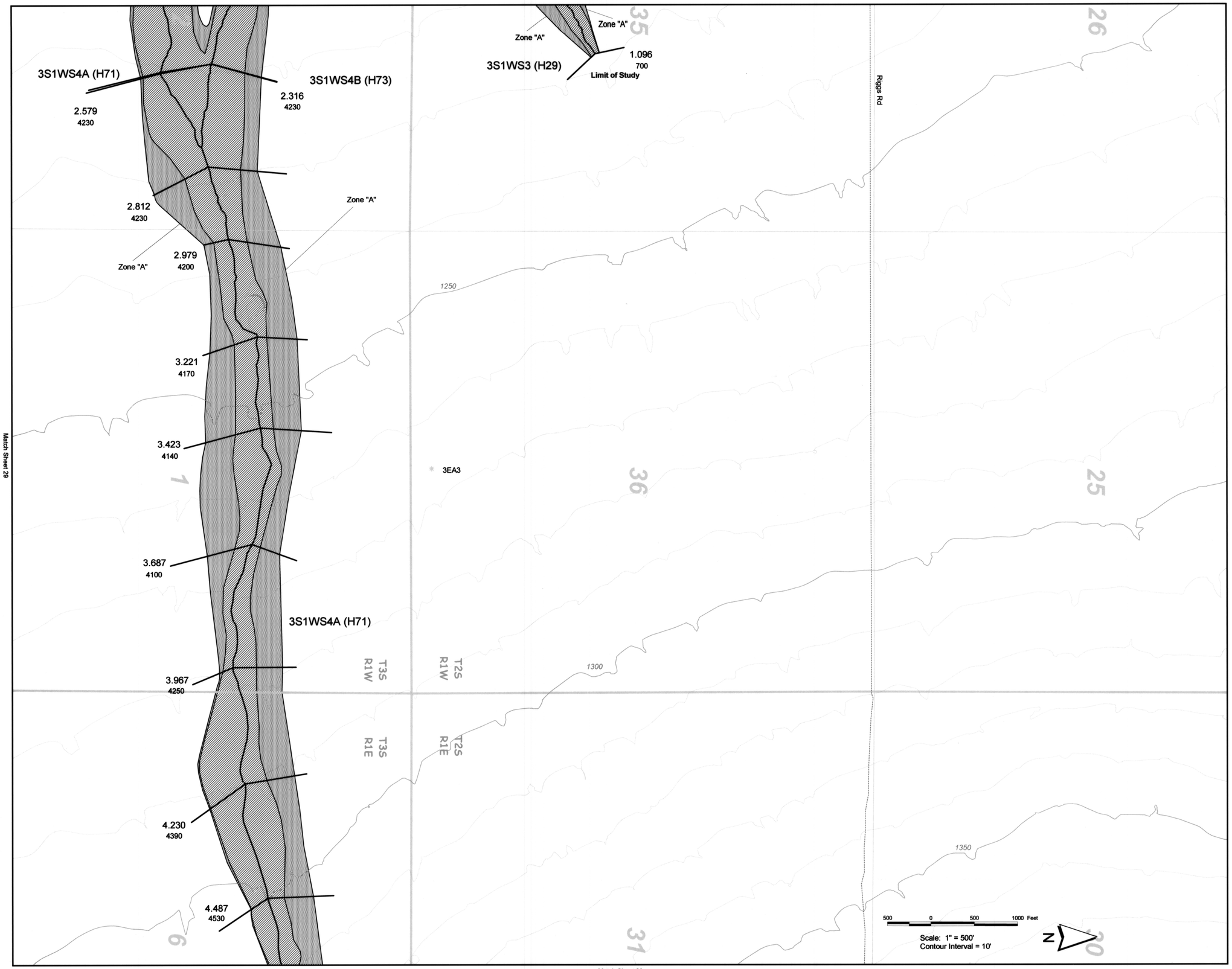
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 21 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

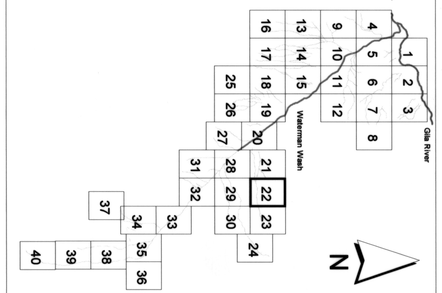
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EA3	1265.04

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

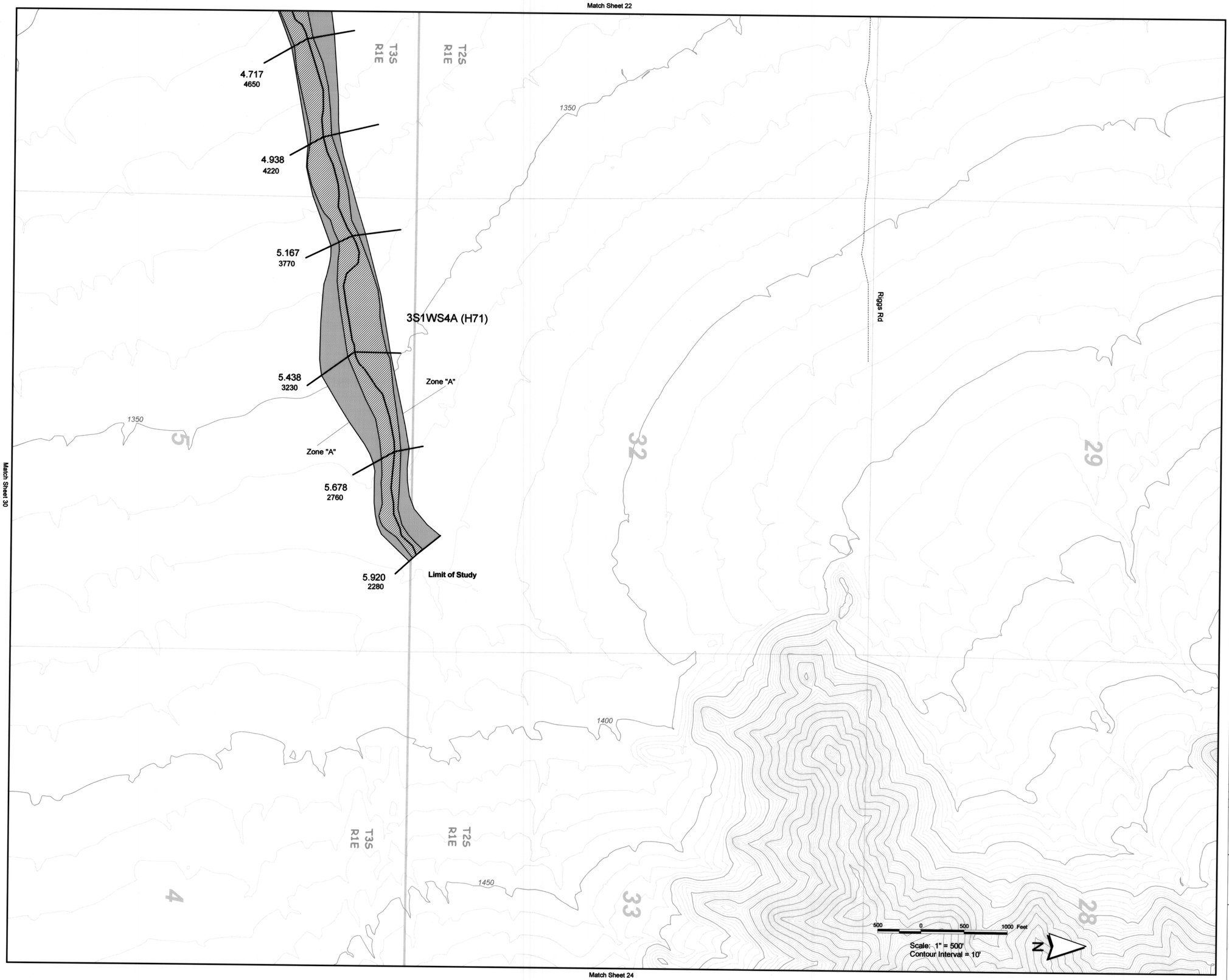
Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-18-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET **22** OF **40**

Match Sheet 22



Match Sheet 30

Match Sheet 24

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

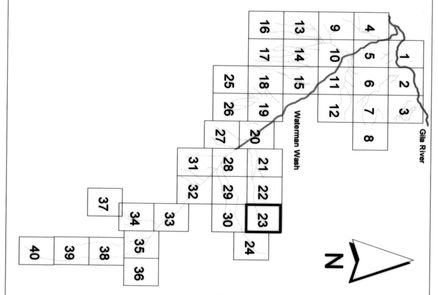
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EA3 (see Sheet 22)	1265.04

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

WATERMAN WASH
FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37990 LLOYD A. VICK Date Signed 3-10-06 ARIZONA, U.S.A.

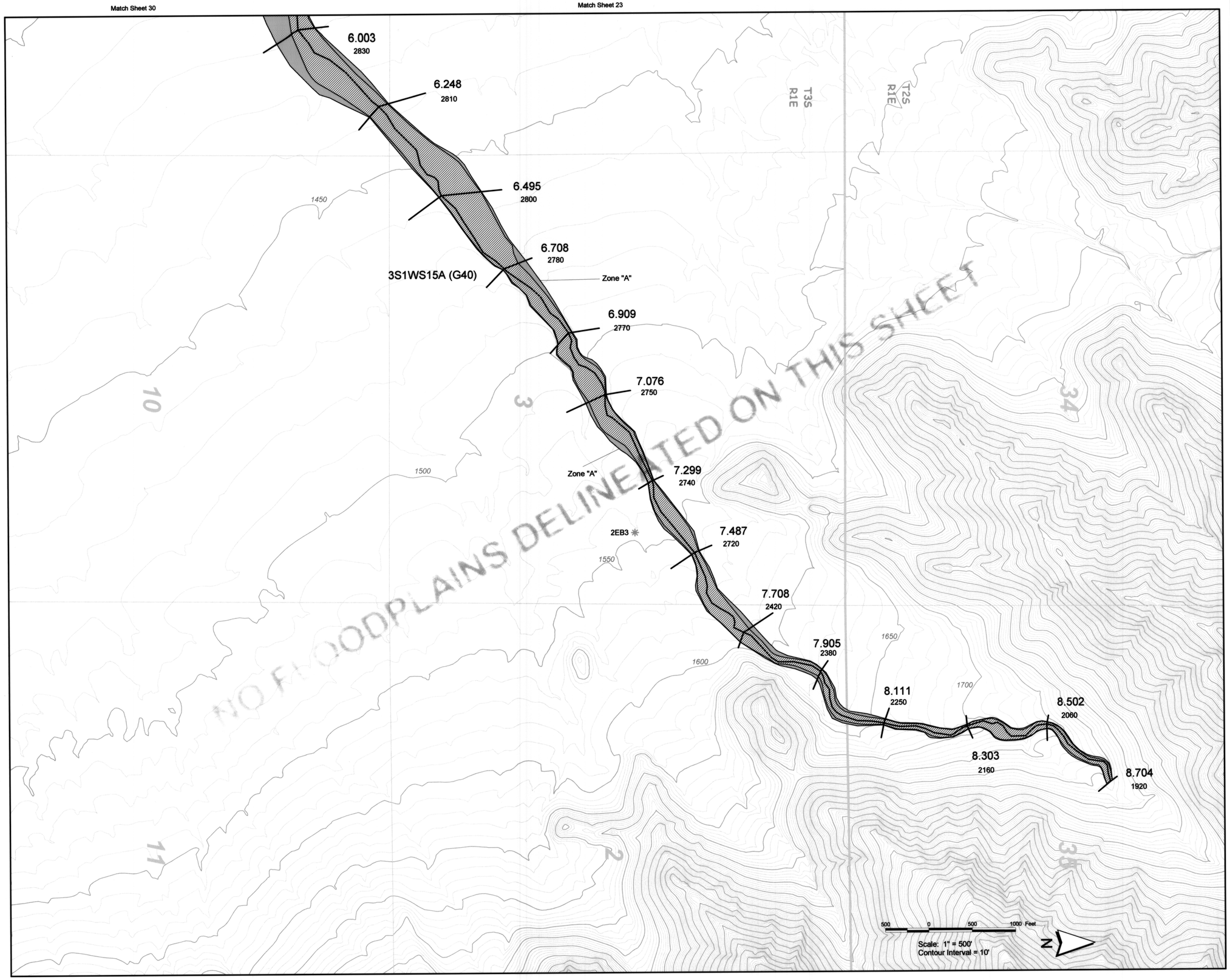
Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 23 OF 40

Match Sheet 30

Match Sheet 23



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

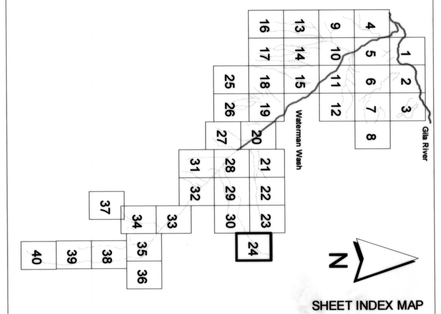
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
2EB3	1547.63

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

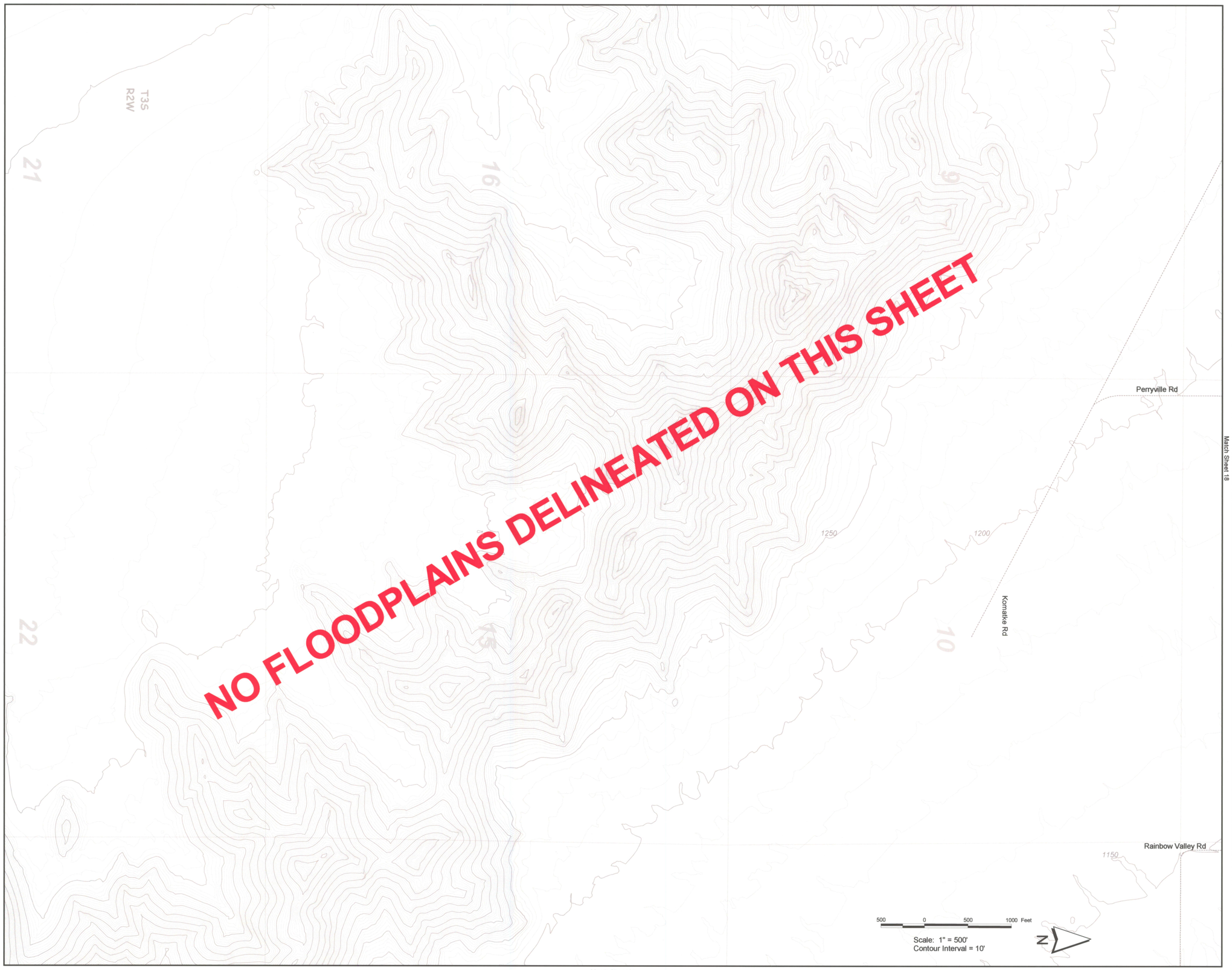
F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-15-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 24 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

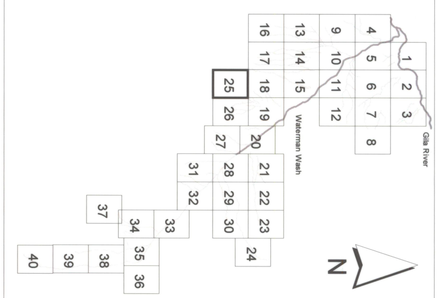
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EC2 (see Sheet 19)	1106.01

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

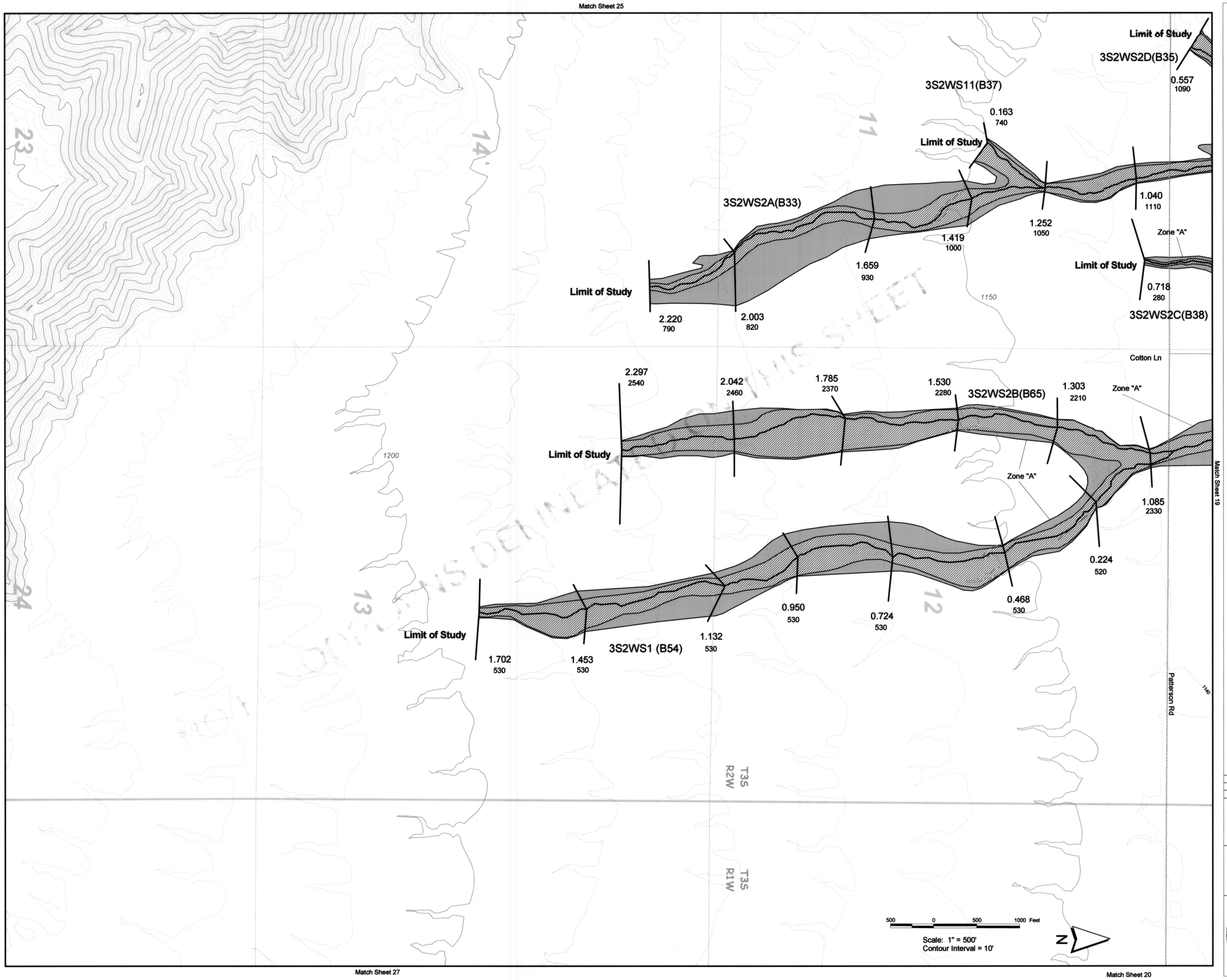
Registered Professional Engineer (Civil) CERTIFICATE NO. 37590 LLOYD A. VICK Date Signed 3-10-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 25 OF 40

Match Sheet 25



Match Sheet 27

Match Sheet 19

Match Sheet 20

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

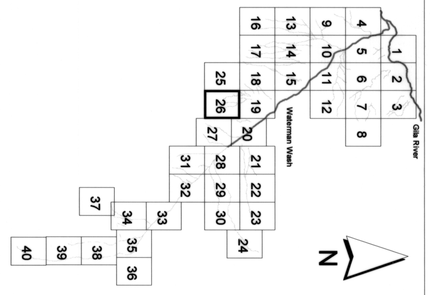
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EC2 (see Sheet 19)	1106.01

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

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DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 26 OF 40

Match Sheet 26

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

19

18

17

20

3.093
3060

Limit of Study

2.790
2980

2.540
2920

2.317
2860

2.095
2810

1.860
2750

1.617
2730

1.360
2700

Zone "A"

3S1WS5(B45)

1.110
2680

0.857
2660

Zone "A"

2.238
750

Limit of Study

1.977
850

3S1WS9(B12)

Zone "A"

1.684
950

Zone "A"

1.443
1040

1.196
1130

0.913
1230

0.671
1180

0.402
1130

15.600
22850

0.225
1090

T3S R2W

T3S R1W

Existing Waterman Wash Floodplain (not included in this study)

WATERMAN WASH

Match Sheet 20

Match Sheet 31

Match Sheet 28

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

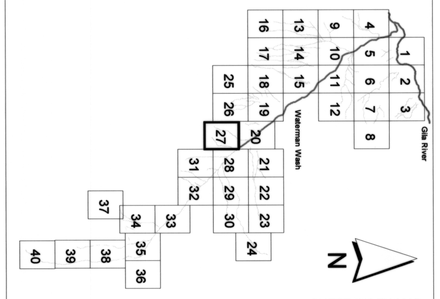
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3FB2 (see Sheet 28)	1154.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 27 OF 40

Match Sheet 27

Match Sheet 20

Match Sheet 31

Match Sheet 21

Match Sheet 29

Zone "A"

3FB2

3S1WS15B(D39)

1.109
900

0.865
890

0.632
870

0.292
850

0.017
830

15.600
22850

16.012
14920

16.451
13370

16.242
14920

Zone "A"

16.974
13290

Waterman Wash

17.195
11070

16.710
13160

SEE UPPER WATERMAN WASH DETAILED FDS PHASE 1

17.414
11070

3S1WS22A(D42)

0.310
1200

17.646
11150

0.378
3050

0.575
3120

Zone "A"

17.913
11150

0.801
3200

3S1WS15A (G40)

0.378
1020

3S1WS22B (G39)

18.159
11270

1.042
3290

Zone "A"

Patterson Rd

139th Av

1150

1200

T3S
R1W

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

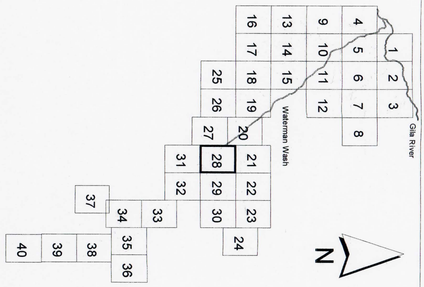
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3FB2	1154.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37690 LLOYD A. VICK Date Signed 3-10-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 28 OF 40

Match Sheet 27

Match Sheet 20

Match Sheet 31

Match Sheet 21

Match Sheet 29

Existing Waterman Wash Floodplain
(not included in this study)

Zone "A"

3FB2

3S1WS15B(D39)

1.109
900

0.865
890

0.632
870

0.292
850

0.017
830

15.600
22850

16.012
14920

16.451
13370

16.242
14920

16.974
13290

Waterman Wash

17.195
11070

16.710
13160

17.414
11070

3S1WS22A(D42)

0.310
1200

17.646
11150

0.378
3050

0.575
3120

17.913
11150

0.801
3200

3S1WS15A (G40)

0.378
1020

3S1WS22B (G39)

18.159
11270

1.042
3290

Patterson Rd

139th Av

1150

1200

T3S
R1W

21 16 9 22 15 10

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

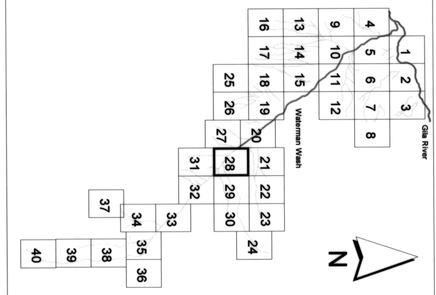
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3FB2	1154.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-05 ARIZONA, U.S.A.

eac Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 28 OF 40

Match Sheet 28

0.696
940

1200

1.285
3380

1200

0.955
880

1.533
3470

Zone "A"

1.203
820

1.752
3540

1.993
3630

1.451
760

2.227
6630

1.713
700

3S1WS22B (G39)

24

13

12

1250

2.519
5890

3S1WS15A (G40)

1.961
640

1250

2.762
5280

1250

T3S
R1W

Zone "A"

2.200
950

T3S
R1E

2.986
4720

2.456
870

Zone "A"

Zone "A"

3.198
4180

2.755
720

3.438
3580

18

7

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Match Sheet 32

Match Sheet 22

Match Sheet 30

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

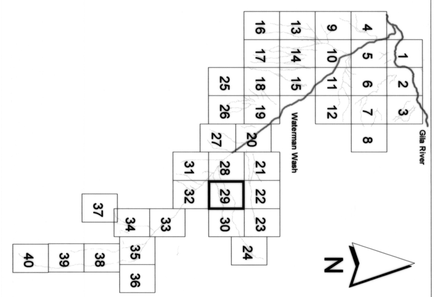
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3EA3 (see Sheet 22)	1265.04

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 2-8-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 29 OF 40

Match Sheet 29

3.005
670

Zone "A"

3.281
340

3S1WS22B (G39)

Zone "A"

3.527
280

3.753
240

Limit of Study

3.667
3000

3.930
2980

4.113
2970

4.355
2950

3S1WS15A (G40)

4.587
2940

4.821
2920

Zone "A"

Zone "A"

5.075
2900

5.332
2880

5.567
2860

5.800
2850

1300

1300

1300

1350

1400

T3S
R1E

20

17

16

21

9

8

Match Sheet 23

Match Sheet 24

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

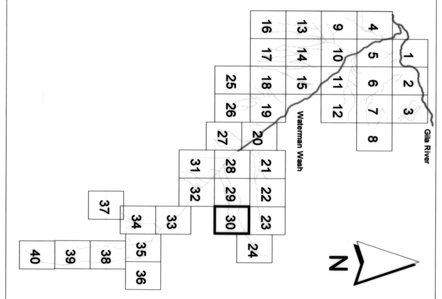
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
2EB3 (see Sheet 24)	1547.63

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY

WATERMAN WASH
FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 2-18-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

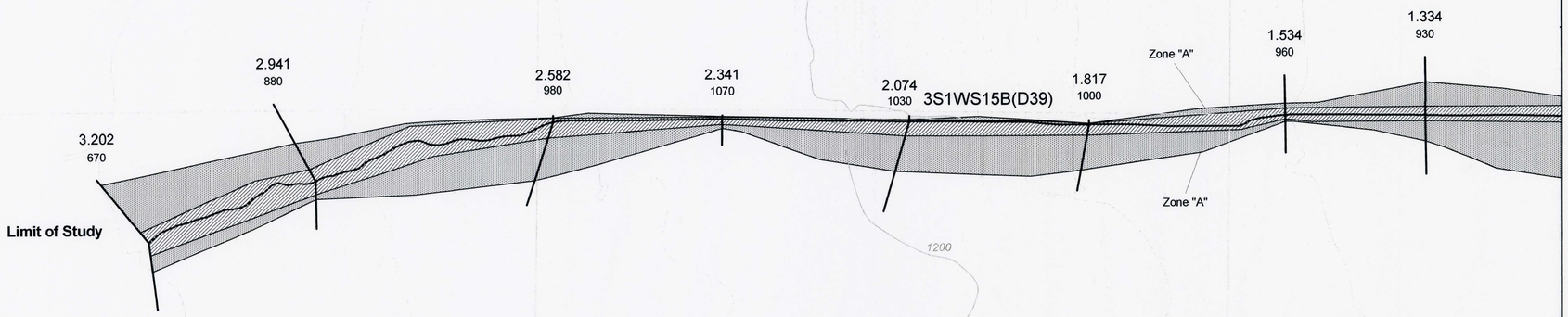
	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

Match Sheet 27

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

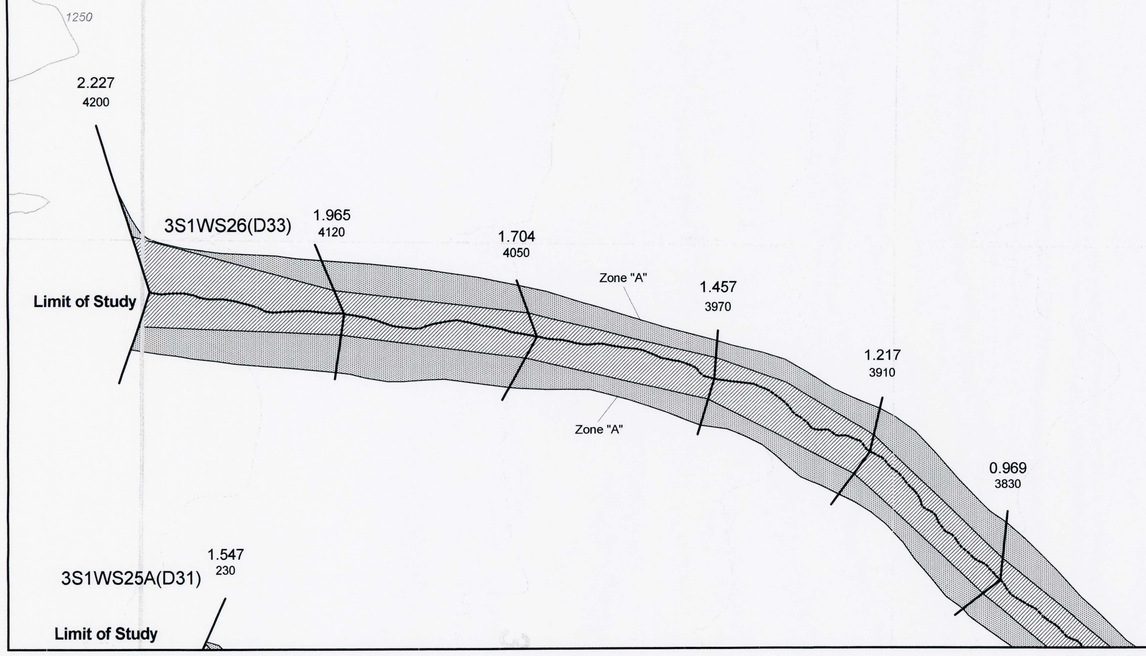


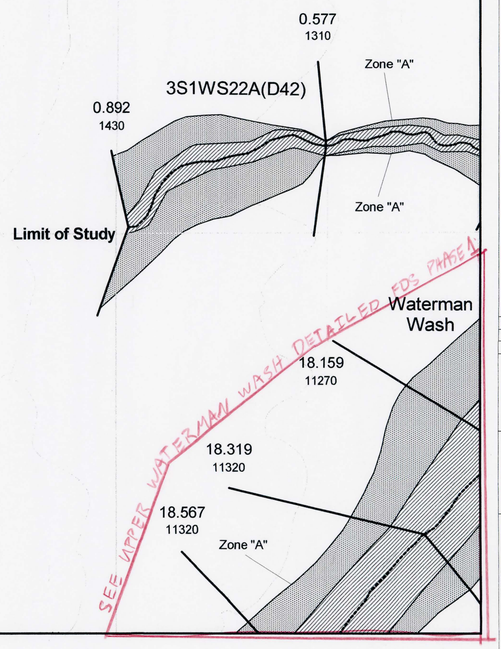
1200

T4S R1W

T3S R1W

1250





Match Sheet 28

Match Sheet 32

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

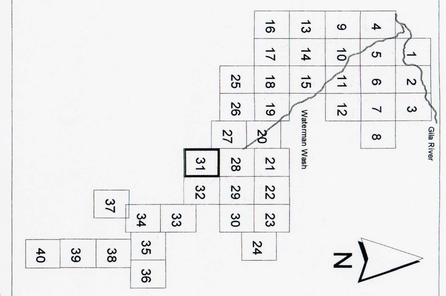
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3FB2 (see Sheet 28)	1154.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37590 LLOYD A. VICK Date Signed 3-16-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 31 OF 40

Match Sheet 27

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

33 28 34 27

T4S R1W T3S R1W

1200

1250

3.202
670
Limit of Study

2.941
880

2.582
980

2.341
1070

2.074
1030
3S1WS15B(D39)

1.817
1000

Zone "A"

1.534
960

1.334
930

Zone "A"

2.227
4200

3S1WS26(D33)

1.965
4120

1.704
4050

Zone "A"

1.457
3970

1.217
3910

0.969
3830

Zone "A"

Limit of Study

1.547
230
3S1WS25A(D31)

Limit of Study

0.577
1310

Zone "A"

3S1WS22A(D42)

0.892
1430

Zone "A"

Limit of Study

Waterman Wash

18.159
11270

18.319
11320

18.567
11320

Zone "A"

Match Sheet 28

Match Sheet 32

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

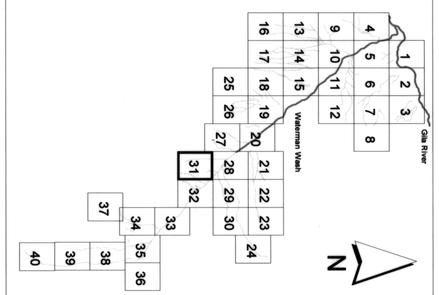
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3FB2 (see Sheet 28)	1154.08

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 3-10-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 31 OF 40

Match Sheet 31

Limit of Study

1.547
230

1.300
280

Zone "A"

1.053
370

Zone "A"

0.830
400

3S1WS25A(D31)

0.580
490

0.305
540

Zone "A"

0.014
610

20.461
9470

20.752
8250

Zone "A"

21.008
8250

Zone "A"

21.285
8250

21.566
7400

Waterman Wash

3GA2

0.718
3760

3S1WS26(D33)

0.405
3670

Zone "A"

0.201
3610

0.006
3560

0.551
270

Limit of Study

3S1WS25B(D32)

0.289
370

Zone "A"

0.004
420

Waterman Wash

Zone "A"

19.845
9540

20.245
9470

18.567
11320

18.798
11490

Zone "A"

18.961
11490

19.134
9770

19.344
9510

19.551
9510

1200

1200

1250

SEE UPPER WATERMAN WASH DETAILED FDS PHASE 1

T4S R1W

T3S R1W

T4S R1E

T3S R1E

Match Sheet 33

Match Sheet 29

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

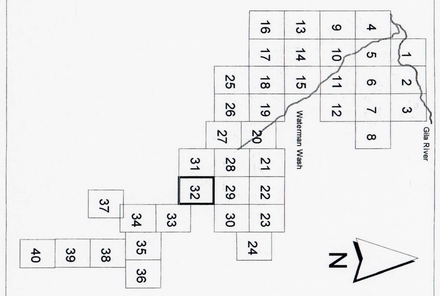
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3GA2	1216.99

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 3-10-05 ARIZONA U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 32 OF 40

Match Sheet 31

Limit of Study

1.547
230

1.300
280

1.053
370

Zone "A"

Zone "A"

0.830
400

0.580
490

3S1WS25A(D31)

0.305
540

Zone "A"

0.551
270

Limit of Study

3S1WS25B(D32)

0.289
370

Zone "A"

0.718
3760

3S1WS26(D33)

0.405
3670

Zone "A"

0.201
3610

0.006
3560

18.567
11320

18.798
11490

Zone "A"

18.961
11490

0.004
420

19.134
9770

1200

0.014
610

Waterman Wash

19.344
9510

19.551
9510

Zone "A"

20.461
9470

19.845
9540

20.245
9470

20.752
8250

36

25

T4S R1W

T3S R1W

3GA2

21.008
8250

Zone "A"

Zone "A"

T4S R1E

T3S R1E

21.285
8250

Waterman Wash

21.566
7400

1250

30

Match Sheet 33

Match Sheet 29

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

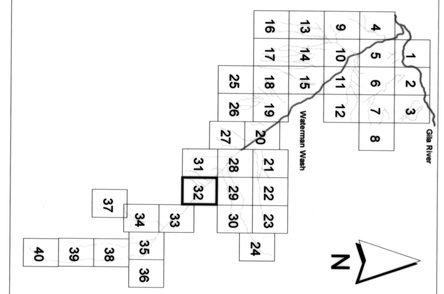
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3GA2	1216.99

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-10-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 32 OF 40

Match Sheet 32

Zone "A"

Zone "A"

21.566
7400

21.733
7400

21.997
6080

Waterman Wash

22.283
6080

22.542
6110

22.828
6110

23.143
6020

23.330
6020

23.597
6060

23.877
6060

24.268
6060

24.518
4230

24.668
4230

8

32

T4S R1E

T3S R1E

1250

RAINBOW VALLEY LANDFILL

4S1ES9(E49)

Zone "A"

Zone "A"

Zone "A"

Zone "A"

Zone "A"

0.409
3470

0.289
3460

0.125
3460

1250

6

4

33

Match Sheet 34

Match Sheet 35

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

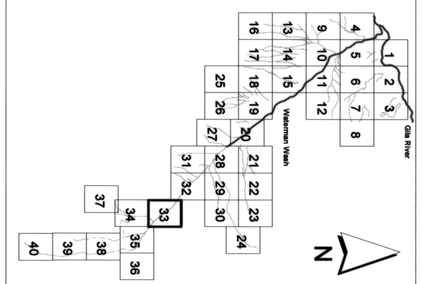
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
3GA2 (see Sheet 32)	1216.99

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37880 LLOYD A. VICK Date Signed 3-10-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 33 OF 40

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Match Sheet 37

State Route 238
Union Pacific Railroad

4.099
220

Limit of Study
3.282
1380

3.073
1630

3.890
230

2.828
1920

2.567
2220

4S1ES9 (E49)

29

3.640
980

20

2.308
2530

Limit of Study
Zone "A"
4S1ES20 (E44)

2.056
2820

Zone "A"

1300

1.816
3110

3.357
1820

0.785
2630

1.054
2630

99th Ave

1.522
3450

1.355
3450

1.085
3460

Zone "A"

0.819
3470

0.637
3480

4S1ES9(E49)

Zone "A"

3.086
1820

Mobile
Elementary
School

4S1ES23 (F20)

0.506
2630

Powlatan Rd.

Shuetham Rd.

0.276
2630

97th Ave

Zone "A"

Arrowhead Rd

Tomahawk Rd.

0.580
3470

0.552
3470

Limit of Study

2.950
1800

2.833
1050

Zone "A"

0.657
1370

95th Ave

28

2.611
970

0.382
1370

4S1ES21 (E45)

21

0.000
1370

16

Waterman Wash

25.005
3650

Zone "A"

T4S
R1E

17

Butterfield Landfill

Match Sheet 33

Match Sheet 35

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC
- School

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

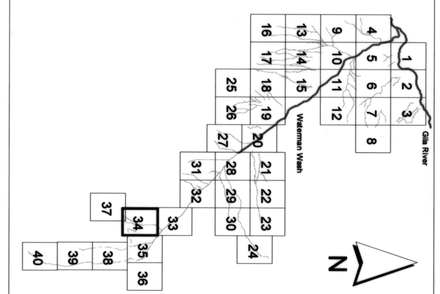
ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
2HB1 (see Sheet 35)	1282.17

NOTES

1- THE HYDRAULIC BASE LINE IS CROSS SECTION STATION 10,000 UNLESS OTHERWISE NOTED



SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 2-10-05 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 34 OF 40

Match Sheet 34

Match Sheet 33

Match Sheet 38

Match Sheet 36

2.352
740

2.033
570

Zone "A"

1.752
1950

1.524
480

1.926
1280

2.104
1250

1.358
120

1.904
1280

Zone "A"

1.824
1780

1.554
1800

1.294
1820

Zone "A"

1.892
1280

1.019
1840

0.752
1860

0.548
1880

4S1ES15A(F34)

2HB1

T4S
R1E

1300

1300

1300

1300

0.278
3470

Zone "A"

Zone "A"

25.005
3650

Waterman Wash

25.296
3650

25.571
3470

25.765
2940

Zone "A"

26.055
2140

26.307
1740

83rd Av

1.132
1

State Route 238

Union Pacific Railroad

4S1ES23 (F20)

26.604
1640

27.052
1480

0.775
170

Waterman Wash

27.454
1350

27.258
1410

26.756
1580

Zone "A"

Waterman Wash

0.545
1100

Zone "A"

28.019
1270

28.305
1220

27.788
1310

27.570
1350

Zone "A"

0.417
550

22

15

14

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
2HB1	1282.17

NOTES

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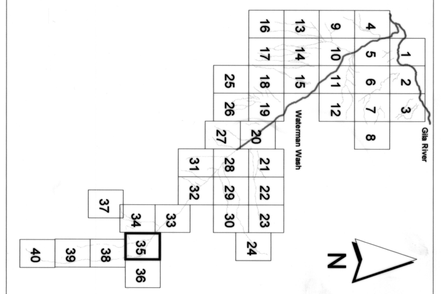

SHEET INDEX MAP

No.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

Registered Professional Engineer (Civil) CERTIFICATE NO. 37890 LLOYD A. VICK Date Signed 3-7-06 ARIZONA, U.S.A.

eec Engineering and Environmental Consultants, Inc.

	BY	DATE
DESIGN	C.T.G.	1-13-05
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 35 OF 40

Match Sheet 35

Match Sheet 38

0.156
990

0.000
1260

Zone "A"

Limit of Study

4S1ES23 (F20)

Union Pacific Railroad

State Route 239

1300

1300

1350

24

13

19

18

T4S
R1E

T4S
R2E

ENID RM 1

500 0 500 1000 Feet

Scale: 1" = 500'
Contour Interval = 10'

N

Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
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- Highway
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- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

ELEVATION REFERENCE MARKS

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

GDAC NUMBER	ELEVATION (FT)
ENID RM1	1528.39

NOTES

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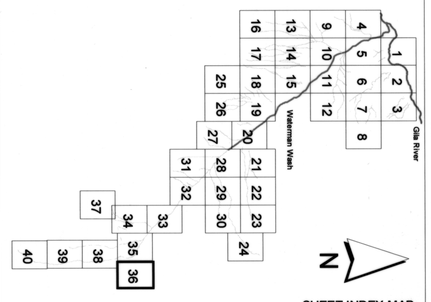

SHEET INDEX MAP

No.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

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Engineering and Environmental Consultants, Inc.

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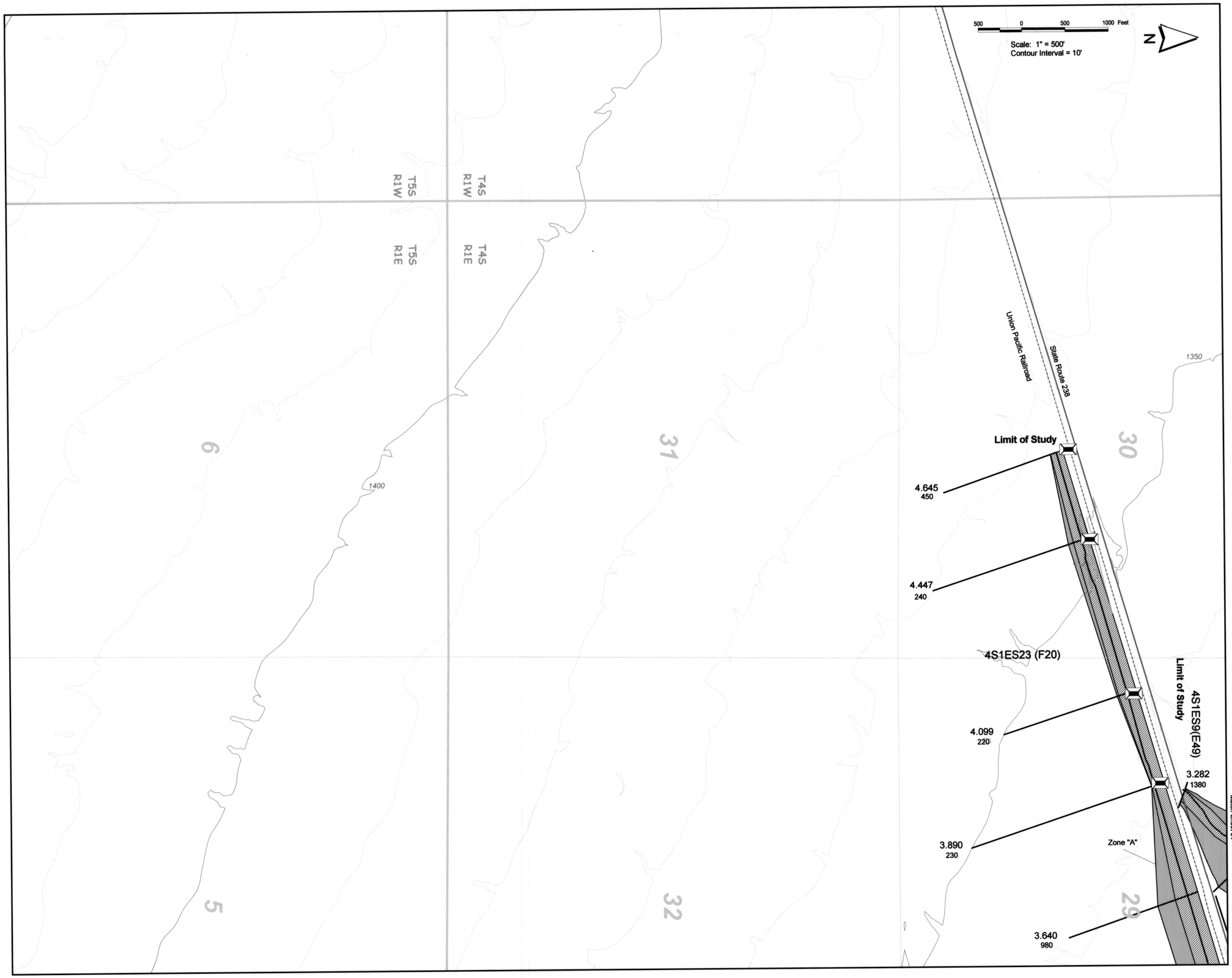
DESIGN CHK.	L.A.V.	1-13-05
PLANS	E.S.M.	1-13-05
PLANS CHK.	L.A.V.	1-13-05

SHEET 36 OF 40



Legend

- Cross Section
- Hydraulic Baseline
- Elevation Contour (10' Interval)
- Township Boundary
- Section Boundary
- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
- Existing Floodplain
- Existing Floodway
- Highway
- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

ELEVATION REFERENCE MARKS

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GDAC NUMBER	ELEVATION (FT)
2HB1 (see Sheet 35)	1282.17

NOTES

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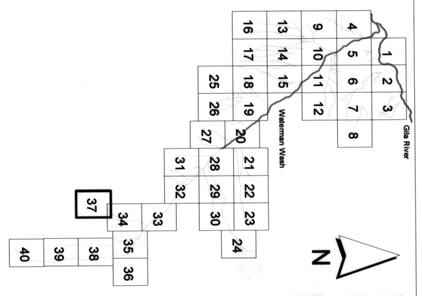

SHEET INDEX MAP

No.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

F.C.D. Contract No. 2002C024

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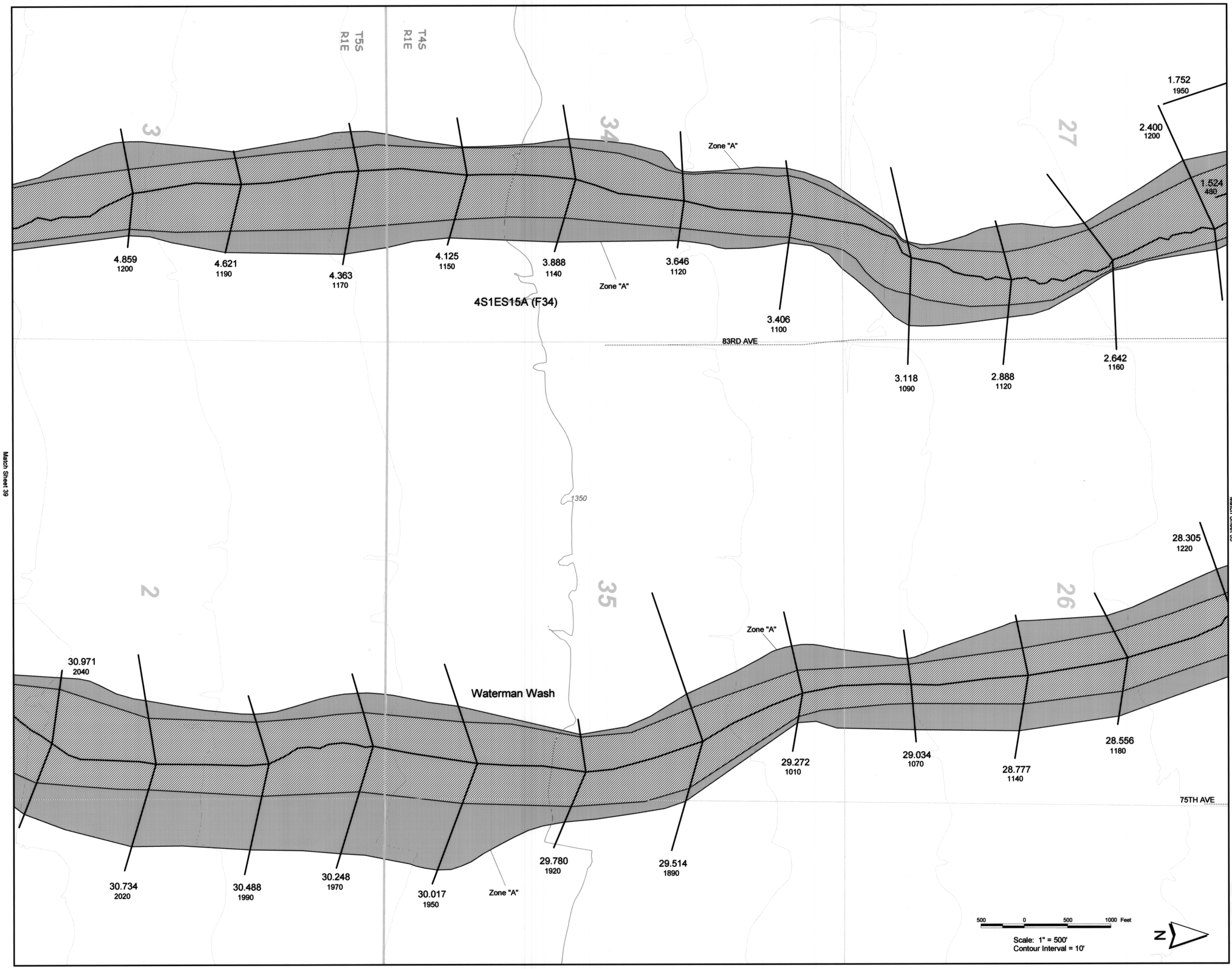
PLANS CHK.	L.A.V.	1-13-05

SHEET 37 OF 40



Legend

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- Section Boundary
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- Existing Floodway
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- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

ELEVATION REFERENCE MARKS

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GDAC NUMBER	ELEVATION (FT)
2HB1 (see Sheet 35)	1282.17

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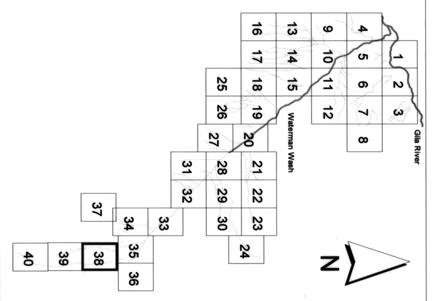

SHEET INDEX MAP

No.	REVISION	BY	DATE
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

WATERMAN WASH FLOOD DELINEATION STUDY

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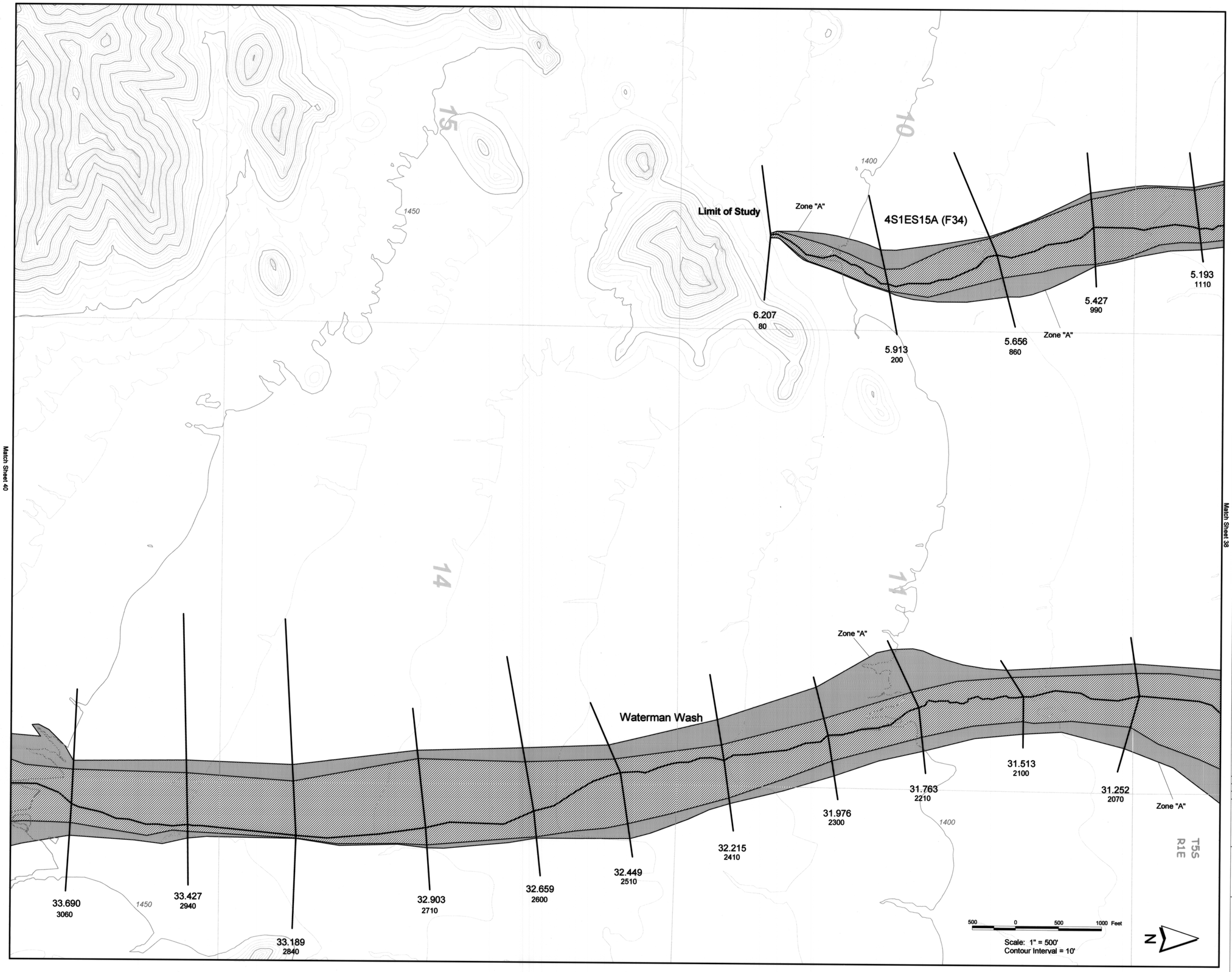
SHEET 38 OF 40



Legend

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- Existing Culvert
- GDAC

1S2WS31A(I71) Wash ID Label (Outfall Subbasin ID)
1.270 Cross Section River Mile Designation
700 100 Year Discharge (cfs)
Zone "A" Floodplain Zone

ELEVATION REFERENCE MARKS

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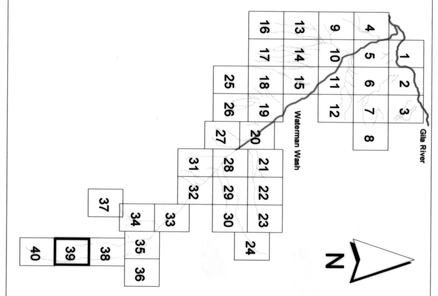

SHEET INDEX MAP

No.	REVISION	BY	DATE
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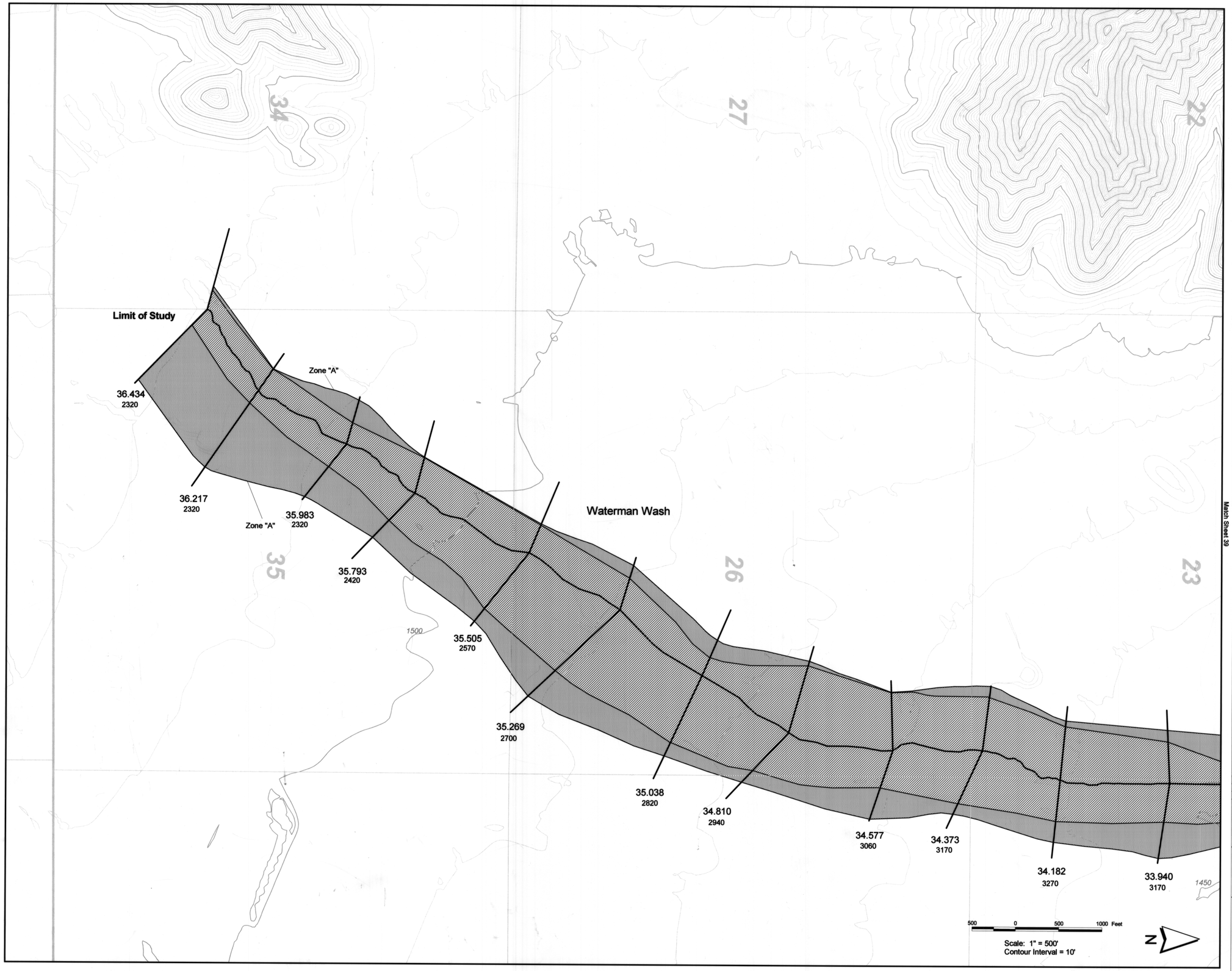
SHEET 39 OF 40



Legend

- Cross Section
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- Elevation Contour (10' Interval)
- Township Boundary
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- New 1% Annual Chance Flood Hazard Boundary
- New Administrative Floodway Boundary
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- Existing Floodway
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- Local Road
- Railroad
- Existing Culvert
- GDAC

1S2WS31A(I71)	Wash ID Label (Outfall Subbasin ID)
1.270	Cross Section River Mile Designation
700	100 Year Discharge (cfs)
Zone "A"	Floodplain Zone

ELEVATION REFERENCE MARKS

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GDAC NUMBER	ELEVATION (FT)
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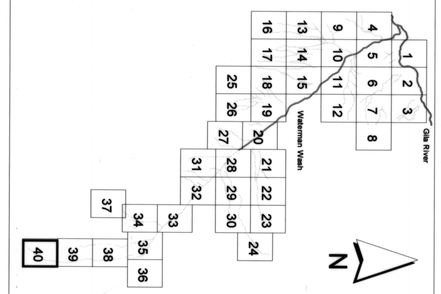

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SHEET 40 OF 40