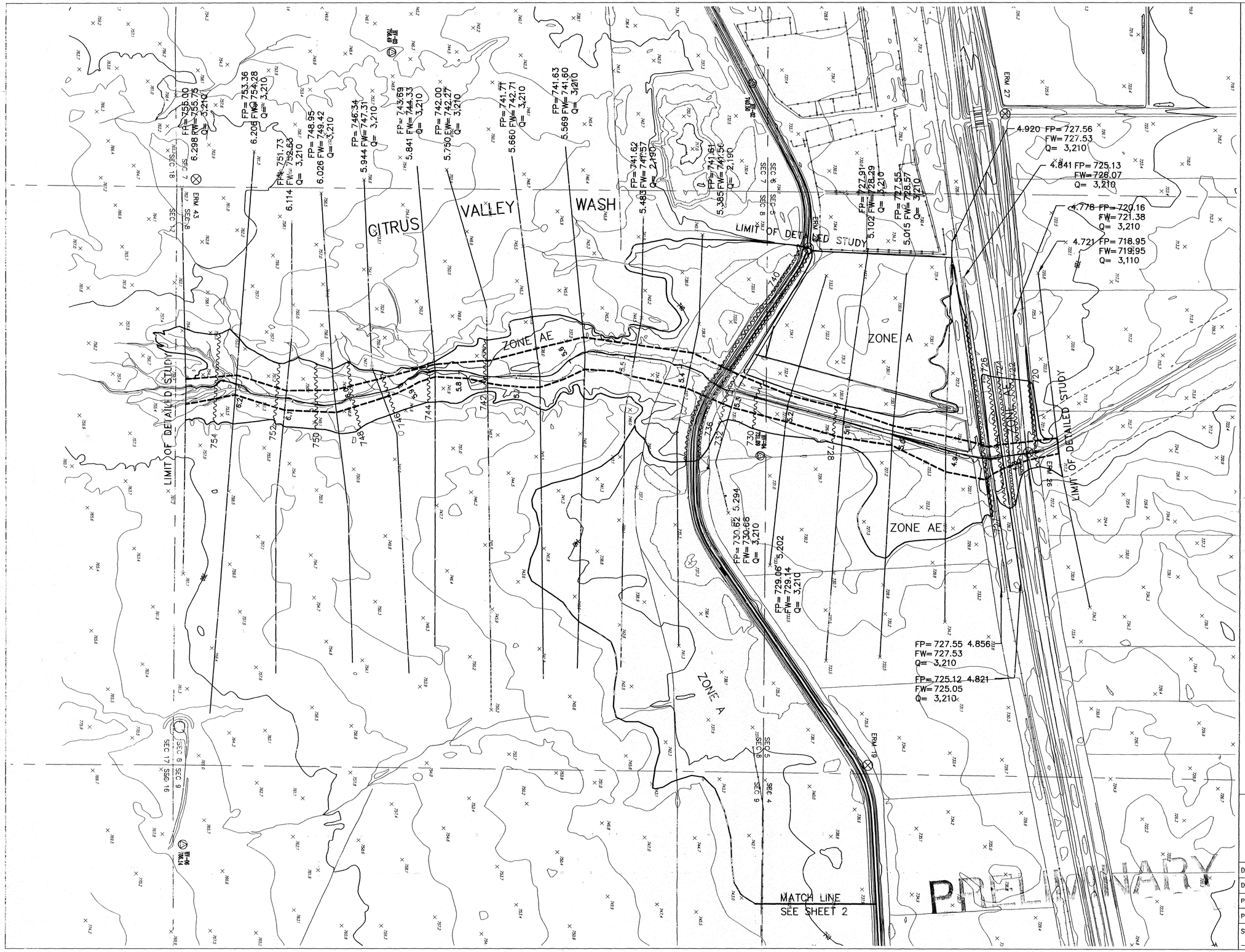
Two sets of <u>Paper Maps</u> dated for 03/2001 and 06/2001 were also scanned and placed before the original mylars dated for 10/2001.



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF CITRUS VALLEY WASH F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

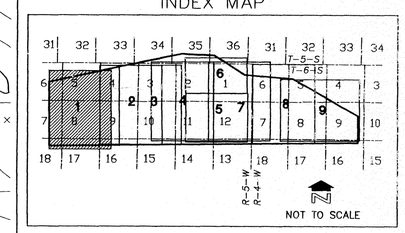
100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
CROSS SECTION	FP=100 Yr WSEL FW=Floodway WSEL 5.519 Q=100 Yr Flow
ELEVATION REFERENCE MARK	ERM26
BASE FLOOD ELEVATIONS	1770
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
ERM #19	EL=738.01	Chiseled square at the northeast corner of 9.5' x 9.5' masonry foundation at well site, 3.0 miles west of Highway 85 along the Gila Bend Canal, on the north side of north canal road. Section 5, T 6 S, R 5 W.
ERM #20	EL=740.09	Chiseled square at the northwest corner of bridge over canal at base of 4" x 4" metal gatepost, 4.0 miles west of Highway 85 along the Gila Bend Canal, on the south side of north canal road. Section 5, T 6 S, R 5 W.
ERM #26	EL=721.20	ADOT Brass Cap marked "4855.71" at centerline of headwall on north side of west bound Interstate 8, +/- 120 feet east of milepost 112. Section 5, T 6 S, R 5 W.
ERM #27	EL=730.88	Brass cap in centerline of headwall on the west end of a cattle guard, on the west side of Citrus Valley Road, 55 feet north of the west bound Interstate 8 off ramp. Section 6, T 6 S, R 5 W.
ERM #43	EL=762.57	Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, right at Y then southerly along dirt track 0.95 miles then left 150 feet to the point. Brass cap lies +/-15 feet west of a mesquite tree and +/-145 feet north of 8' high metal post. Section 8, T 6 S, R 5 W.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'

CONTOUR INTERVAL = 4 FEET

eec PRELIMINARY

Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL: (602)248-7702 FAX: (602)248-7851

DESIGN	BY LAV	DATE 03/01
DESIGN CHK.	FCDMC	03/01
PLANS	KLH	03/01
PLANS CHK.	MTG	03/01
SUBMITTED BY:		DATE:

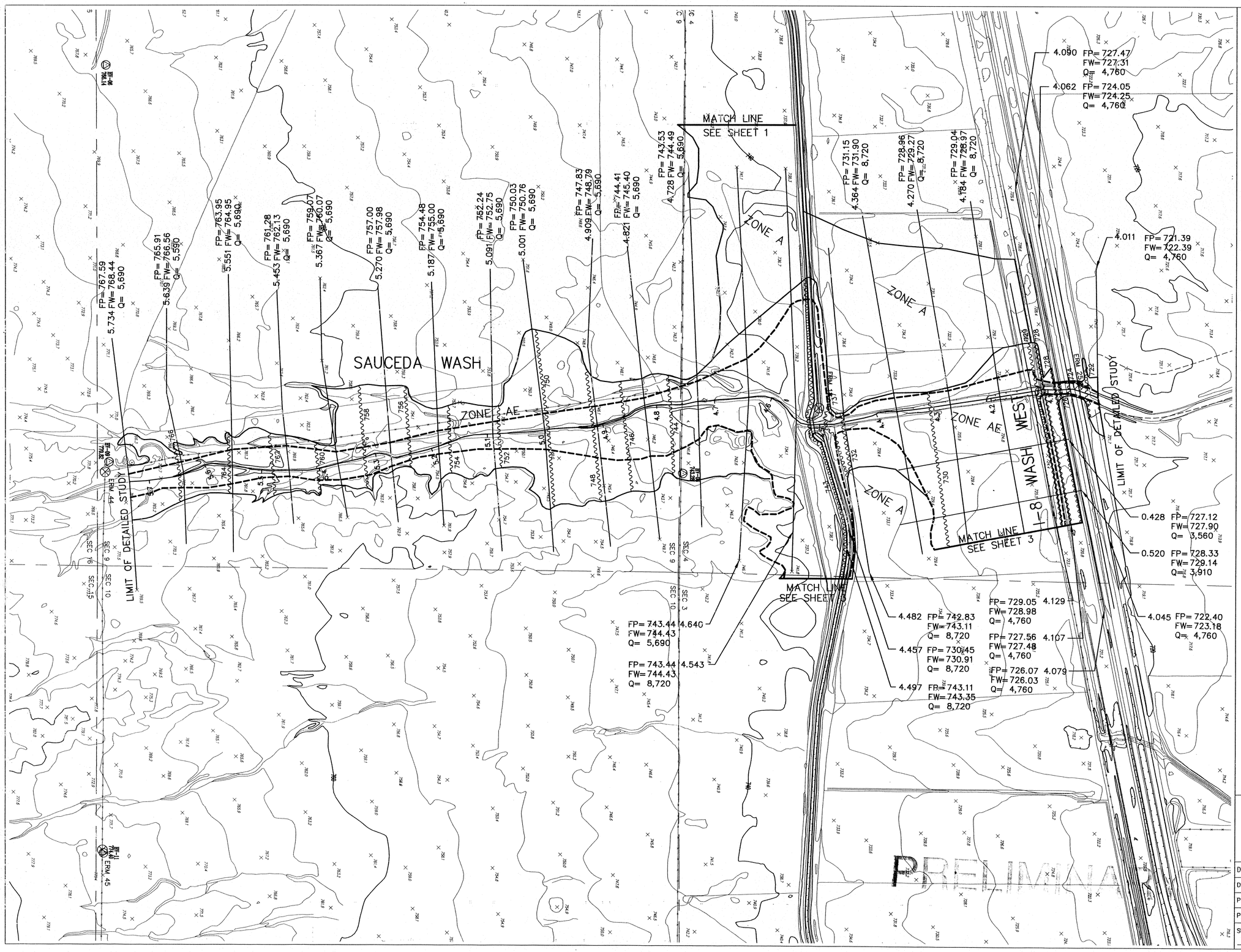
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 OF 9



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF SAUCEDA WASH

F.C.D. CONTRACT NO. 96-05

GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
CROSS SECTION	5.519 FP=100 Yr WSEL FW=Floodway WSEL Q=100 Yr Flow
ELEVATION REFERENCE MARK	ERM26
BASE FLOOD ELEVATIONS	1770
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION

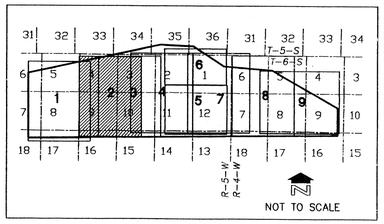
ERM #18 EL=742.84
Chiseled square at centerline of headwall at gate valve, north side of canal, +/- 95 feet west of west side of siphon, 2.3 miles west of Highway 85 along Gila Bend Canal, on the south side of north canal road.
Section 4, T 6 S, R 5 W.

ERM #25 EL=725.56
Chiseled square on top of headwall at northwest corner of bridge on west bound Interstate 8, 0.25 miles east of milepost 113.
Section 4, T 6 S, R 5 W.

ERM #44 EL=766.52
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, right at Y then southeasterly 0.95 miles to a gate in fence. Station at north end of gate, 2 feet north and 2 feet west of a 6"x8" post.
Section 9, T 6 S, R 5 W.

ERM #45 EL=774.62
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, left at Y and continue easterly 0.85 miles to a line of utility poles running north and south, south along utility line 0.95 miles to a gate in a fence. Station at west end of gate, 2.5' north and 1.5' west of a 6"x8" post.
Section 10, T 6 S, R 5 W.

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

eec PRELIMINARY
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN	LAV	03/01	
DESIGN CHK.	FCDMC	03/01	
PLANS	KLH	03/01	RECOMMENDED BY: DATE
PLANS CHK.	MTG	03/01	APPROVED BY: DATE
SUBMITTED BY: DATE:			CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 2 OF 8

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WEST QUILOTOSA WASH			
CROSS SECTION	FP	FW	Q
0.239	717.63	718.63	15,700
0.256	717.99	718.92	15,700
0.337	723.08	723.11	15,700
0.355	723.09	723.14	15,700
0.387	726.30	726.29	15,700
0.475	726.27	726.28	10,600
0.563	727.28	727.47	10,600
0.654	730.74	731.07	10,600
0.742	732.66	733.36	10,600
0.832	735.55	736.12	10,600
0.890	743.33	744.04	10,700
0.926	743.44	744.27	10,700

I-8 WASH WEST			
CROSS SECTION	FP	FW	Q
0.332	726.53	727.48	2,640
0.235	726.41	727.41	700
0.163	726.40	727.40	40
0.076	726.40	727.40	40

QUILOTOSA WASH			
CROSS SECTION	FP	FW	Q
3.776	717.63	718.63	15,700
3.793	717.98	718.91	15,700
3.874	723.11	723.12	15,700
3.892	723.12	723.15	15,700
3.921	726.40	727.39	15,700
4.013	726.41	726.18	9,170
4.109	728.10	728.88	9,170
4.201	731.81	732.18	9,170
4.290	734.45	735.27	9,170

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF WEST QUILOTOSA WASH F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

EXISTING APPROXIMATE FLOODPLAIN BOUNDARY

HYDRAULIC BASE LINE & RIVER MILE — 2.0

CROSS SECTION — 5.519 — FP=100 Yr WSEL; FW=Floodway WSEL; Q=100 Yr Flow

ELEVATION REFERENCE MARK — ⊗ ERM26

BASE FLOOD ELEVATIONS — 1770

ZONE DESIGNATIONS — ZONE AE

SECTION LINE

ELEVATION REFERENCE MARKS

NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 19

I.D. NUM. ELEV. (FT) DESCRIPTION/LOCATION

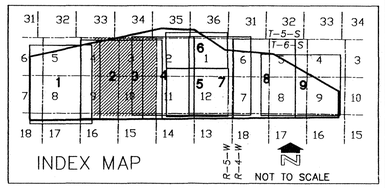
ERM #17 EL=742.46
Chiseled square in north end of headwall, on the west side of canal siphon, 1.15 miles west of Highway 85 along the Gila Bend Canal, on the south side of north canal road.
Section 3, T 6 S, R 5 W.

ERM #24 EL=727.69
NGS Point "TOSA", (PID DA0685) Located West of Gila Bend along the Union Pacific Railroad, 2.1 miles west of Martin Avenue. Point lies 1.6 miles west of the I-8 overpass, 50 feet north of the north rail, and 96.5 feet south of the extended centerline of the I-8 frontage road
Section 3, T 6 S, R 5 W.

ERM #25 EL=725.56
Chiseled square on top of headwall at northwest corner of bridge on west bound Interstate 8, 0.25 miles east of milepost 113.
Section 4, T 6 S, R 5 W.

ERM #44 EL=766.52
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, right at Y then southeasterly 0.95 miles to a gate in fence. Station at north end of gate, 2 feet north and 2 feet west of a 6"x8" post.
Section 9, T 6 S, R 5 W.

ERM #45 EL=774.62
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, left at Y and continue easterly 0.85 miles to a line of utility poles running north and south, south along utility line 0.95 miles to a gate in a fence. Station at west end of gate, 2.5' north and 1.5' west of a 6"x8" post.
Section 10, T 6 S, R 5 W.



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

eec PRELIMINARY

Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL: (602)248-7702 FAX: (602)248-7851

DESIGN	BY LAV	DATE 03/01
DESIGN CHK.	FCDMC	03/01
PLANS	KLH	03/01
PLANS CHK.	MTG	03/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 3 OF 9

PRELIMINARY

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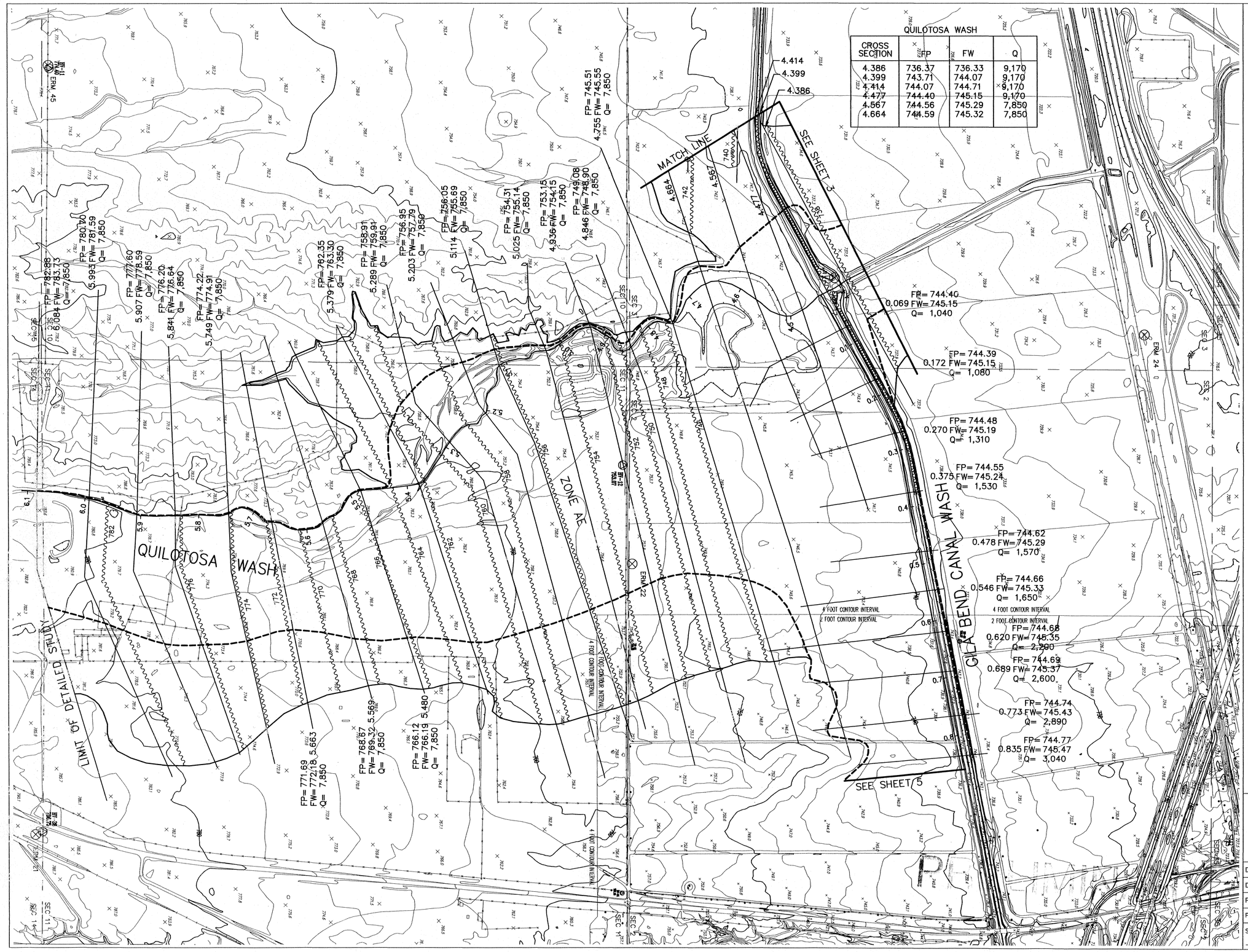


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF QUILOTOSA WASH

F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
CROSS SECTION	FP=100 Yr WSEL 5.519 FW=Floodway WSEL Q=100 Yr Flow
ELEVATION REFERENCE MARK	⊗ ERM26
BASE FLOOD ELEVATIONS	1770
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION

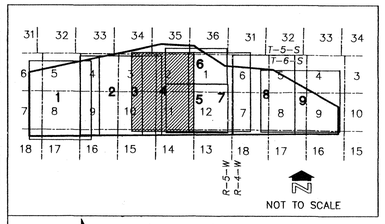
ERM #17 EL=742.46
Chiseled square in north end of headwall, on the west side of canal siphon, 1.15 miles west of Highway 85 along the Gila Bend Canal, on the south side of north canal road. Section 3, T 6 S, R 5 W.

ERM #21 EL=787.94
NGS Point "R-1", (PID DA0499) Located SW of Gila Bend along the E side of SR 85, 1.9 miles S of I-18. Point lies between SR 85 and the Railroad tracks, 66 feet SE of the SR 85 centerline, 90 feet NW rail of the tracks, and 5 feet SE of Railway milepost 3. Section 14, T 6 S, R 5 W.

ERM #24 EL=727.69
NGS Point "TOSA", (PID DA0685) Located West of Gila Bend along the Union Pacific Railroad, 2.1 miles west of Martin Avenue. Point lies 1.6 miles west of the I-8 overpass, 50 feet north of the north rail, and 96.5 feet south of the extended centerline of the I-8 frontage road Section 3, T 6 S, R 5 W.

ERM #45 EL=774.62
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, left at Y and continue easterly 0.85 miles to a line of utility poles running north and south, south along utility line 0.95 miles to a gate in a fence. Station at west end of gate, 2.5' north and 1.5' west of a 6"x8" post. Section 10, T 6 S, R 5 W.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'

CONTOUR INTERVAL = 4 FEET

eec PRELIMINARY

Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	03/01
DESIGN CHK.	FCDMC	03/01
PLANS	KLH	03/01
PLANS CHK.	MTG	03/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 4 OF 9

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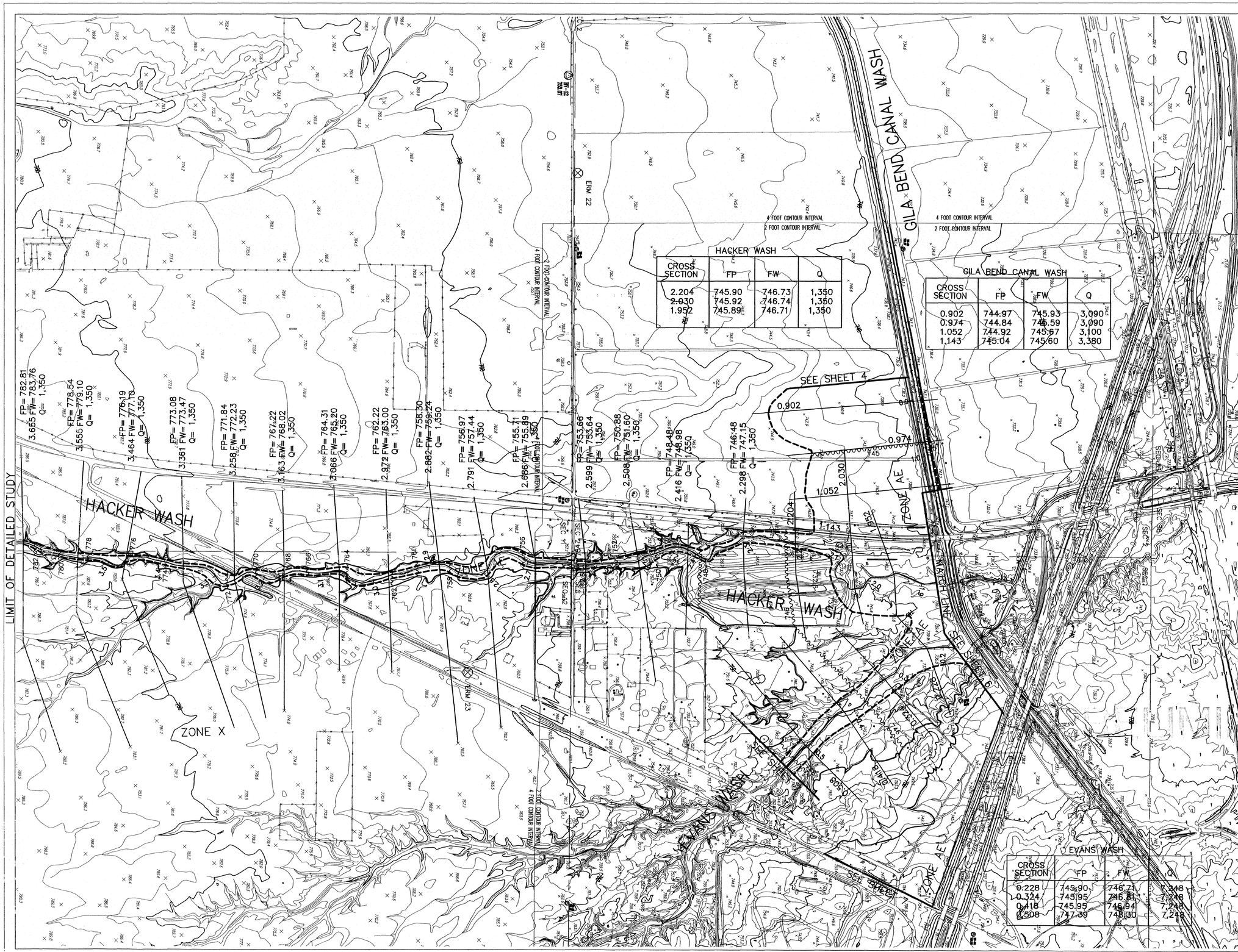


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF HACKER WASH F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
CROSS SECTION	FP=100 Yr WSEL 5.519 FW=Floodway WSEL 100 Yr Flow
ELEVATION REFERENCE MARK	⊗ ERM26
BASE FLOOD ELEVATIONS	1770
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	

ELEVATION REFERENCE MARKS

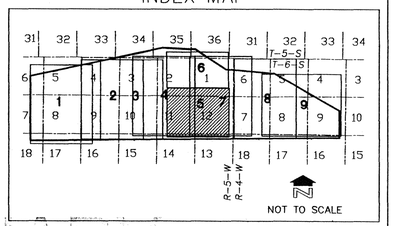
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 19

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION

ERM #22 EL=754.46
Chiseled square on the southwest corner of an electrical equipment pad at pump, 25 feet north of a utility pole, 0.55 miles west of Highway 85 from the intersection of Highway 85 and Thayer Road. Section 2, T 6 S, R 5 W.

ERM #23 EL=765.42
NGS Point "J-331", (PID DA0498) Located 1.65 mi. SW along the Tucson, Cornelia and Gila Bend Railway from the Martin Avenue crossing in Gila Bend, at the second telegraph pole SW of railway milepole 2, at a dip in the old highway 8, 195,5 feet North of the NW corner of a wooden railway bridge number 21, 95.4 feet NW of the NW rail of the tracks, 46.0 feet SE of the centerline of the old highway, 5.0 feet NE oth the telegraph pole, 2 ft. SW from a witness post, and 1 ft. below the tracks. Section 12 T 6 S, R 5 W.

INDEX MAP



PRELIMINARY

400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec PRELIMINARY
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE	
DESIGN	LAV	03/01	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	FCDMC	03/01	
PLANS	KLH	03/01	RECOMMENDED BY: DATE
PLANS CHK.	MTG	03/01	APPROVED BY: DATE
SUBMITTED BY:		DATE:	CHIEF ENGINEER AND GENERAL MANAGER
			SHEET 5 OF 9

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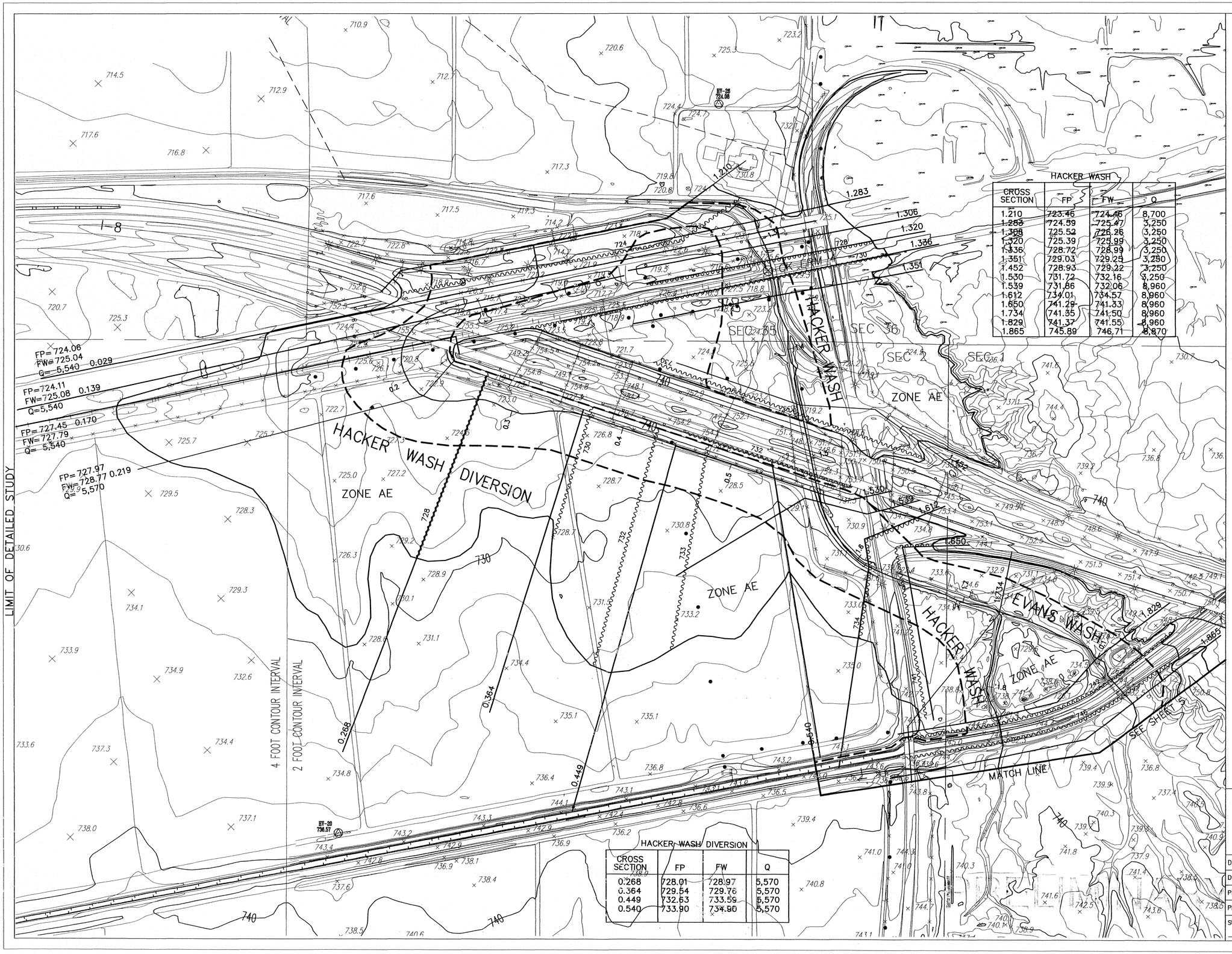


HACKER WASH			
CROSS SECTION	FP	FW	Q
1.210	723.46	724.46	8,700
1.283	724.59	725.47	3,250
1.306	725.52	726.26	3,250
1.320	725.39	725.99	3,250
1.336	728.72	728.99	3,250
1.351	729.03	729.25	3,250
1.452	728.93	729.22	3,250
1.530	731.72	732.16	3,250
1.559	731.86	732.06	8,960
1.612	734.01	734.57	8,960
1.650	741.29	741.33	8,960
1.734	741.35	741.50	8,960
1.829	741.37	741.55	8,960
1.865	745.89	746.71	8,870

HACKER WASH DIVERSION			
CROSS SECTION	FP	FW	Q
0.268	728.01	728.97	5,570
0.364	729.54	729.76	5,570
0.449	732.63	733.59	5,570
0.540	733.90	734.90	5,570

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF HACKER WASH

F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY
FLOODWAY BOUNDARY
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
HYDRAULIC BASE LINE & RIVER MILE — 2.0
CROSS SECTION — FP=100 Yr WSEL; FW=Floodway WSEL; Q=100 Yr Flow — 5.519
ELEVATION REFERENCE MARK — ⊗ ERM26
BASE FLOOD ELEVATIONS — 1770
ZONE DESIGNATIONS — ZONE AE
SECTION LINE

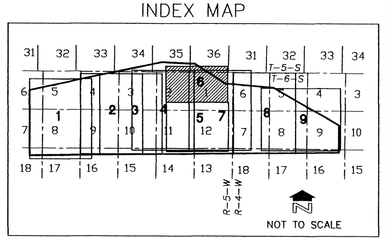
ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
ERM #22	EL=754.46	Chiseled square on the southwest corner of an electrical equipment pad at pump, 25 feet north of a utility pole, 0.55 miles west of Highway 85 from the intersection of Highway 85 and Thayer Road. Section 2, T 6 S, R 5 W.
ERM #23	EL=765.42	NGS Point "J-331", (PID DA0498) Located 1.65 mi. SW along the Tucson, Cornelia and Gila Bend Railway from the Martin Avenue crossing in Gila Bend, at the second telegraph pole SW of railway milepole 2, at a dip in the old highway 8, 195.5 feet North of the NW corner of a wooden railway bridge number 21, 95.4 feet NW of the NW rail of the tracks, 46.0 feet SE of the centerline of the old highway, 5.0 feet NE oth the telegraph pole, 2 ft. SW from a witness post, and 1 ft. below the tracks. Section 12 T 6 S, R 5 W.

PRELIMINARY

INDEX MAP



200' 0' 200' 400'
SCALE: 1"= 200'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	03/01
DESIGN CHK.	FCDMC	03/01
PLANS	KLH	03/01
PLANS CHK.	MTG	03/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
RECOMMENDED BY: DATE
APPROVED BY: DATE
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 6 OF 9

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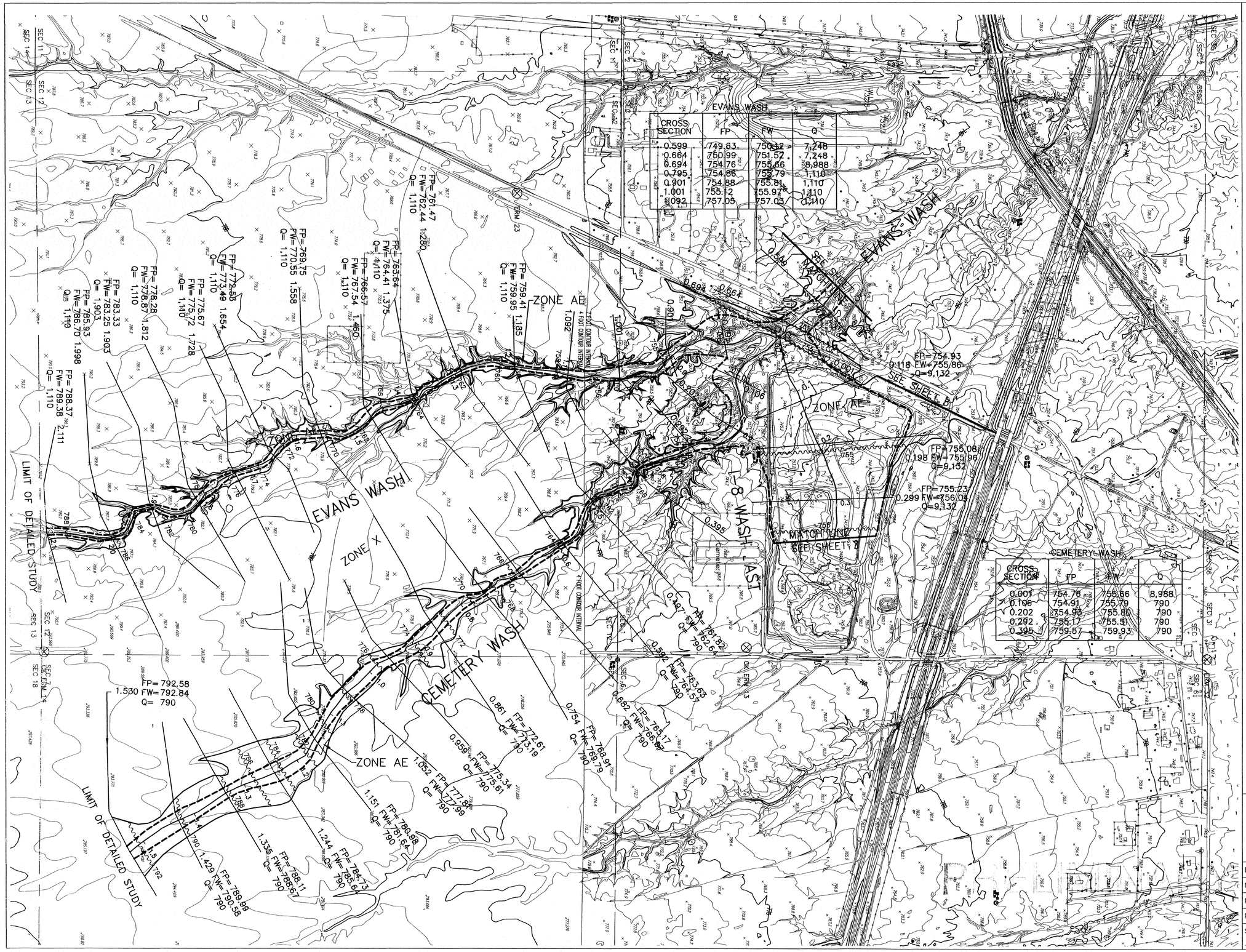


EVANS WASH			
CROSS SECTION	FP	FW	Q
0.599	749.63	750.12	7,248
0.664	750.99	751.52	7,248
0.694	754.76	755.66	8,988
0.795	754.86	755.79	1,110
0.901	754.88	755.81	1,110
1.001	755.12	755.97	1,110
1.092	757.05	757.03	0,110

CEMETERY WASH			
CROSS SECTION	FP	FW	
0.001	754.76	755.66	8,988
0.106	754.91	755.79	790
0.202	754.93	755.80	790
0.292	755.17	755.51	790
0.395	759.57	759.93	790

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF

EVANS WASH & CEMETERY WASH
F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY
FLOODWAY BOUNDARY
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
HYDRAULIC BASE LINE & RIVER MILE — 2.0
CROSS SECTION — FP=100 Yr WSEL; FW=Floodway WSEL 5.519; Q=100 Yr Flow
ELEVATION REFERENCE MARK — ⊗ ERM26
BASE FLOOD ELEVATIONS — 1770
ZONE DESIGNATIONS — ZONE AE
SECTION LINE

ELEVATION REFERENCE MARKS

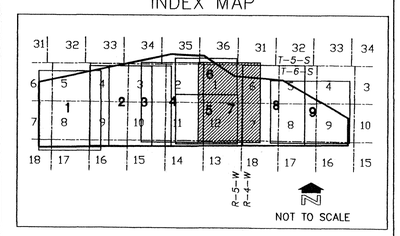
NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929

I.D. NUM. ELEV. (FT) DESCRIPTION/LOCATION

ERM #23 EL=765.42
NGS Point "J-331", (PID DA0498) Located 1.65 mi. SW along the Tucson, Cornelia and Gila Bend Railway from the Martin Avenue crossing in Gila Bend, at the second telegraph pole SW of railway milepole 2, at a dip in the old highway 8, 195.5 feet North of the NW corner of a wooden railway bridge number 21, 95.4 feet NW of the NW rail of the tracks, 46.0 feet SE of the centerline of the old highway, 5.0 feet NE oth the telegraph pole, 2 ft. SW from a witness post, and 1 ft. below the tracks.
Section 12 T 6 S, R 5 W.

ERM #32 EL=744.75
1" iron pipe, 2.8 feet east and 1.0 foot north of a utility pole and 2.6 feet north of a #4 rebar with cap stamped "LS 9087", +/- 30 feet south of a building corner and +/- 150 feet west of the intersection of Main St. and Martin Ave.
Section 31, T 5 S, R 5 W.

INDEX MAP



PRELIMINARY

400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL: (602)248-7702 FAX: (602)248-7851

	BY	DATE	
DESIGN	LAV	03/01	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	FCDMC	032/01	RECOMMENDED BY: DATE
PLANS	KLH	03/01	APPROVED BY: DATE
PLANS CHK.	MTG	03/01	CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY: DATE:			SHEET 7 OF 9

N:\99541\dwg\fpfw-sheets\fpfwsheets\99541-fds-sht7.dwg Fri May 11 13:02:10 2001

MATCH LINE SEE SHEET 7

I-8 WASH EAST			
CROSS SECTION	FP	FW	Q
0.395	756.44	754.18	9,132
0.490	755.59	756.28	9,132
0.695	761.42	761.42	9,132

SCOTT AVENUE WASH			
CROSS SECTION	FP	FW	Q
5.258	760.10	760.10	1,408
5.338	762.48	762.48	13,168
5.427	765.05	765.05	13,168
5.521	767.43	767.43	13,168
5.625	770.40	770.40	8,997
5.724	772.73	772.73	8,997

SAND TANK WASH			
CROSS SECTION	FP	FW	Q
4.917	769.49	769.49	15,573
5.013	770.28	770.28	15,703
5.112	771.65	771.65	15,703
5.207	774.66	774.66	15,699
5.299	778.55	778.55	16,139
5.387	780.74	780.74	15,536
5.482	783.12	783.12	16,765
5.580	784.62	784.62	16,859
5.676	785.09	785.09	16,679

BENDER WASH			
CROSS SECTION	FP	FW	Q
1.904	777.00	778.00	3,612
1.930	777.32	777.80	4,116
2.010	778.32	778.78	4,116
2.066	778.62	778.97	5,101
2.131	780.06	780.07	5,101
2.226	784.72	784.87	5,182
2.316	787.32	787.73	5,350

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF SAND TANK WASH & SCOTT AVENUE WASH

F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY
FLOODWAY BOUNDARY
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
HYDRAULIC BASE LINE & RIVER MILE — 2.0
CROSS SECTION — FP=100 Yr WSEL; FW=Floodway WSEL 5.519; Q=100 Yr Flow
ELEVATION REFERENCE MARK — ⊗ ERM26
BASE FLOOD ELEVATIONS — 1770
ZONE DESIGNATIONS — ZONE AE
SECTION LINE

ZONE A WITH SPECIAL FLOOD HAZARD AREAS THAT EXPERIENCE SIGNIFICANT LATERAL FLOW BETWEEN WASHES. NO DEVELOPMENT SHALL BE ALLOWED THAT WOULD INHIBIT THE LATERAL CROSS FLOW.

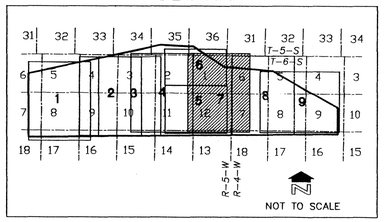
PRELIMINARY

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
ERM #38	*EL=786.03*	*ADOT Brass Cap marked "786.19" on headwall on the north side of west bound Interstate 8, 0.8 miles west of milepost 119. Section 5, T 6 S, R 4 W.*
ERM #39	*EL=773.63*	*ADOT Brass Cap marked "Elev 773.79 MED. STA. 5145+22.66", on headwall on north side of west bound Interstate 8, 0.5 miles west of milepost 118 and 0.1 miles west of bridge over Sand Tank Wash. Section 6, T 6 S, R 4 W.*

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN	LAV	03/01	
DESIGN CHK.	FCDMC	03/01	RECOMMENDED BY: DATE
PLANS	KLH	03/01	APPROVED BY: DATE
PLANS CHK.	MTG	03/01	CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY: DATE:			SHEET 8 OF 9

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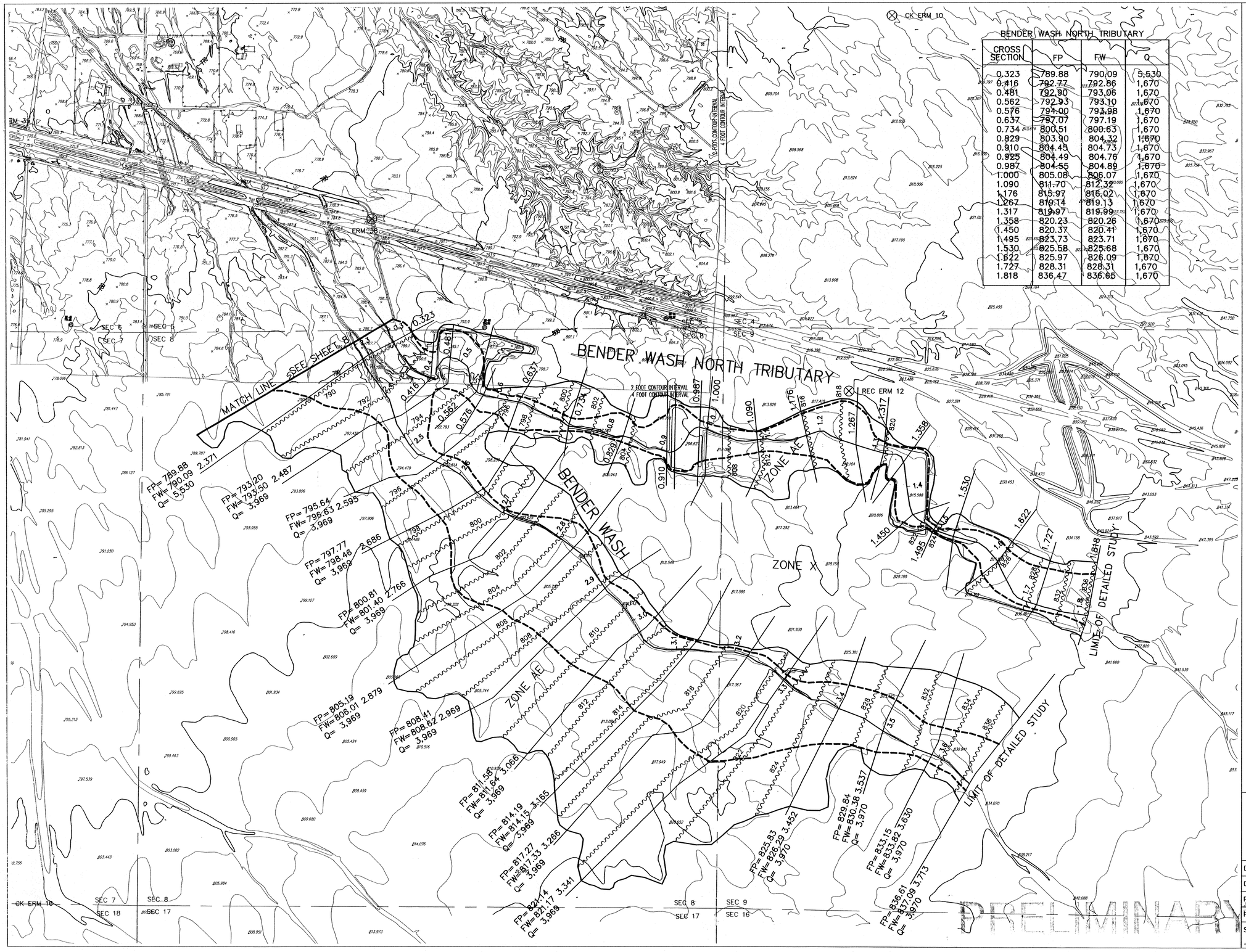


BENDER WASH NORTH TRIBUTARY

CROSS SECTION	FP	FW	Q
0.323	789.88	790.09	5,530
0.416	792.77	792.86	1,670
0.481	792.90	793.06	1,670
0.562	792.93	793.10	1,670
0.576	794.00	793.98	1,670
0.637	797.07	797.19	1,670
0.734	800.51	800.63	1,670
0.829	803.90	804.32	1,670
0.910	804.45	804.73	1,670
0.925	804.49	804.76	1,670
0.987	804.55	804.89	1,670
1.000	805.08	806.07	1,670
1.090	811.70	812.32	1,670
1.176	815.97	816.02	1,670
1.267	819.14	819.13	1,670
1.317	819.97	819.99	1,670
1.358	820.23	820.26	1,670
1.450	820.37	820.41	1,670
1.495	823.73	823.71	1,670
1.530	825.58	825.68	1,670
1.622	825.97	826.09	1,670
1.727	828.31	828.31	1,670
1.818	836.47	836.65	1,670

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF BENDER WASH & BENDER WASH NORTH TRIBUTARY F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

EXISTING APPROXIMATE FLOODPLAIN BOUNDARY

HYDRAULIC BASE LINE & RIVER MILE — 2.0

CROSS SECTION — FP=100 Yr WSEL, FW=Floodway WSEL, Q=100 Yr Flow — 5.519

ELEVATION REFERENCE MARK — ERM26

BASE FLOOD ELEVATIONS — 1770

ZONE DESIGNATIONS — ZONE AE

SECTION LINE

ELEVATION REFERENCE MARKS

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

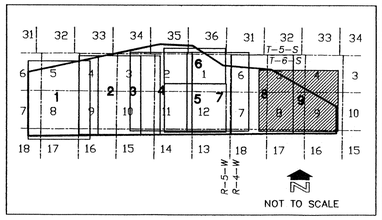
I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION

ERM #38 EL=786.03
ADOT Brass Cap marked "786.19" on headwall on the north side of west bound Interstate 8, 0.8 miles west of milepost 119.
Section 5, T 6 S, R 4 W.

ERM #39 EL=773.63
ADOT Brass Cap marked "Elev 773.79 MED. STA. 5145+22.66", on headwall on north side of west bound Interstate 8, 0.5 miles west of milepost 118 and 0.1 miles west of bridge over Sand Tank Wash.
Section 6, T 6 S, R 4 W.

PRELIMINARY

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
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	BY	DATE	
DESIGN	LAV	03/01	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	FCDMC	03/01	RECOMMENDED BY: DATE
PLANS	KLH	03/01	APPROVED BY: DATE
PLANS CHK.	MTG	03/01	CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY: DATE:			SHEET 9 OF 9

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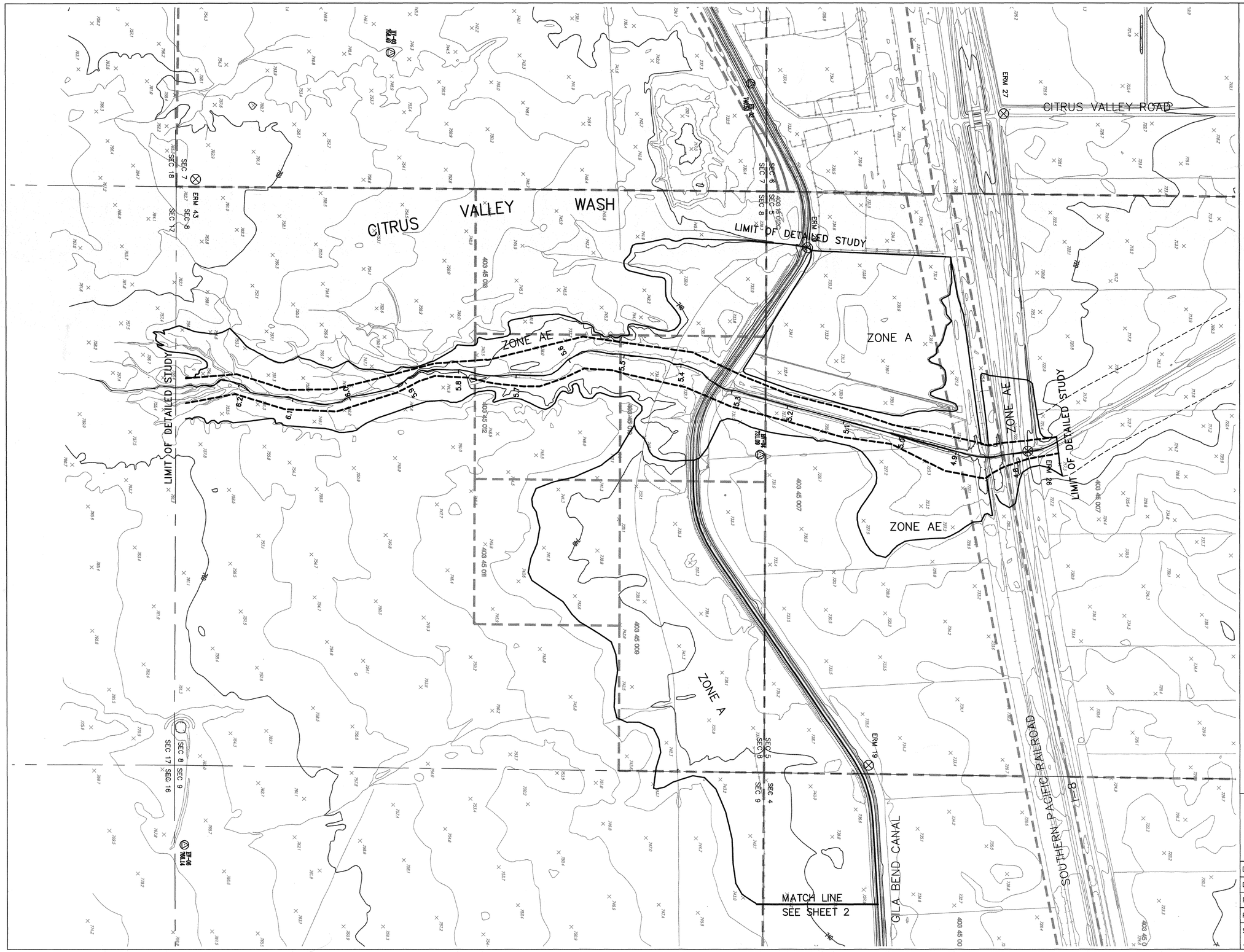


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF CITRUS VALLEY WASH

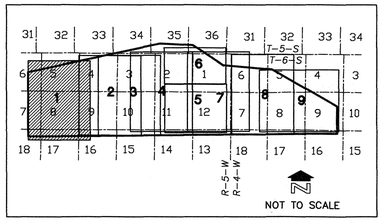
F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	⊗ ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
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16

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 OF 9

GILA BEND

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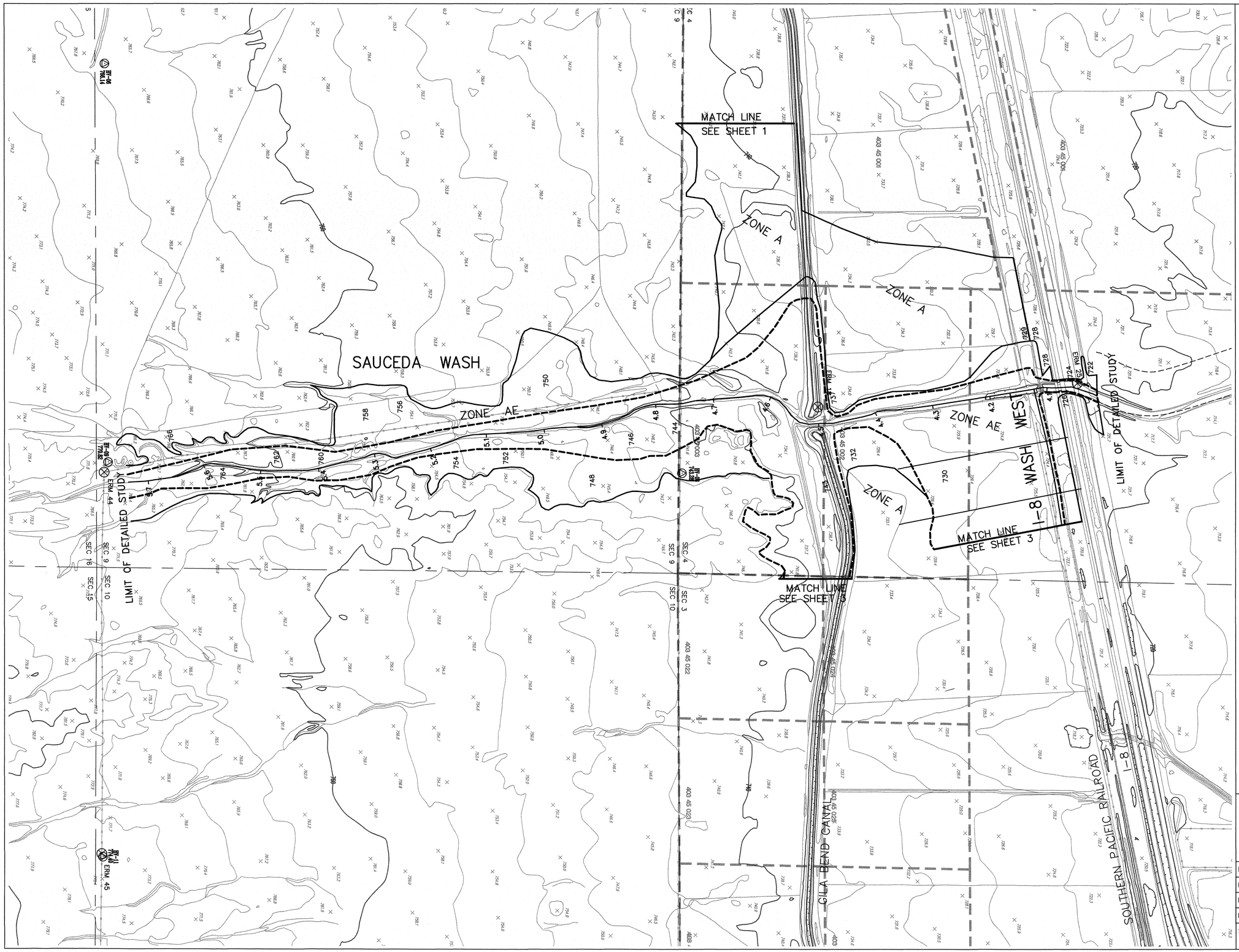


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF SAUCEDA WASH

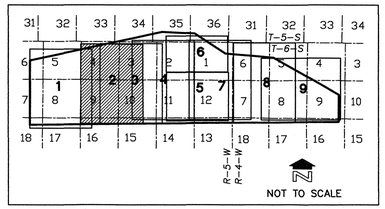
F.C.D. CONTRACT NO. 96-05
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 2 OF 9

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

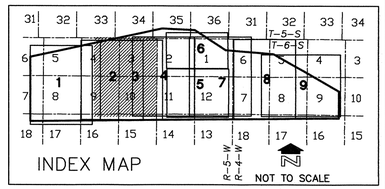
FLOOD DELINEATION STUDY OF WEST QUILOTOSA WASH

F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY



INDEX MAP

400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 3 OF 9

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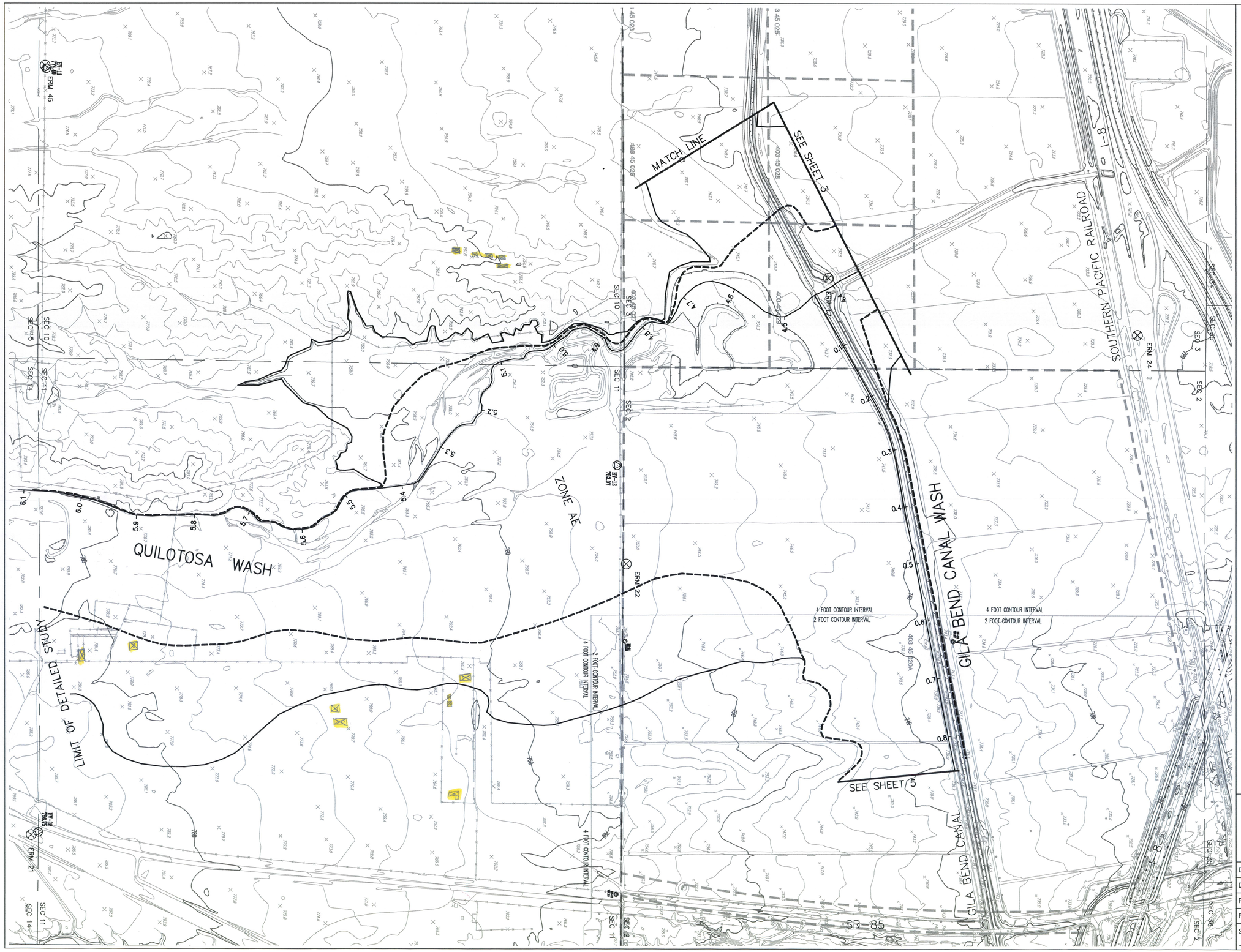


FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF QUILOTOSA WASH

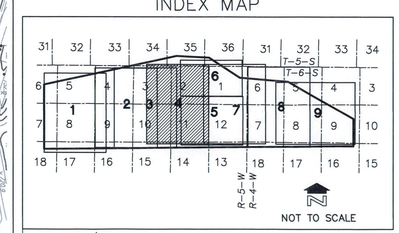
F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 4 OF 9

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF HACKER WASH

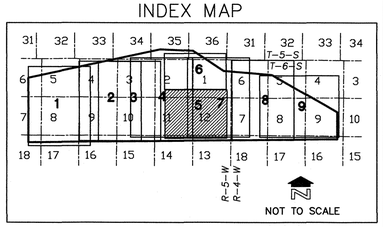
F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE	
DESIGN	LAV	06/01	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	FCDMC	06/01	RECOMMENDED BY: DATE
PLANS	KLH	06/01	APPROVED BY: DATE
PLANS CHK.	MTG	06/01	CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY:		DATE:	SHEET 5 OF 9

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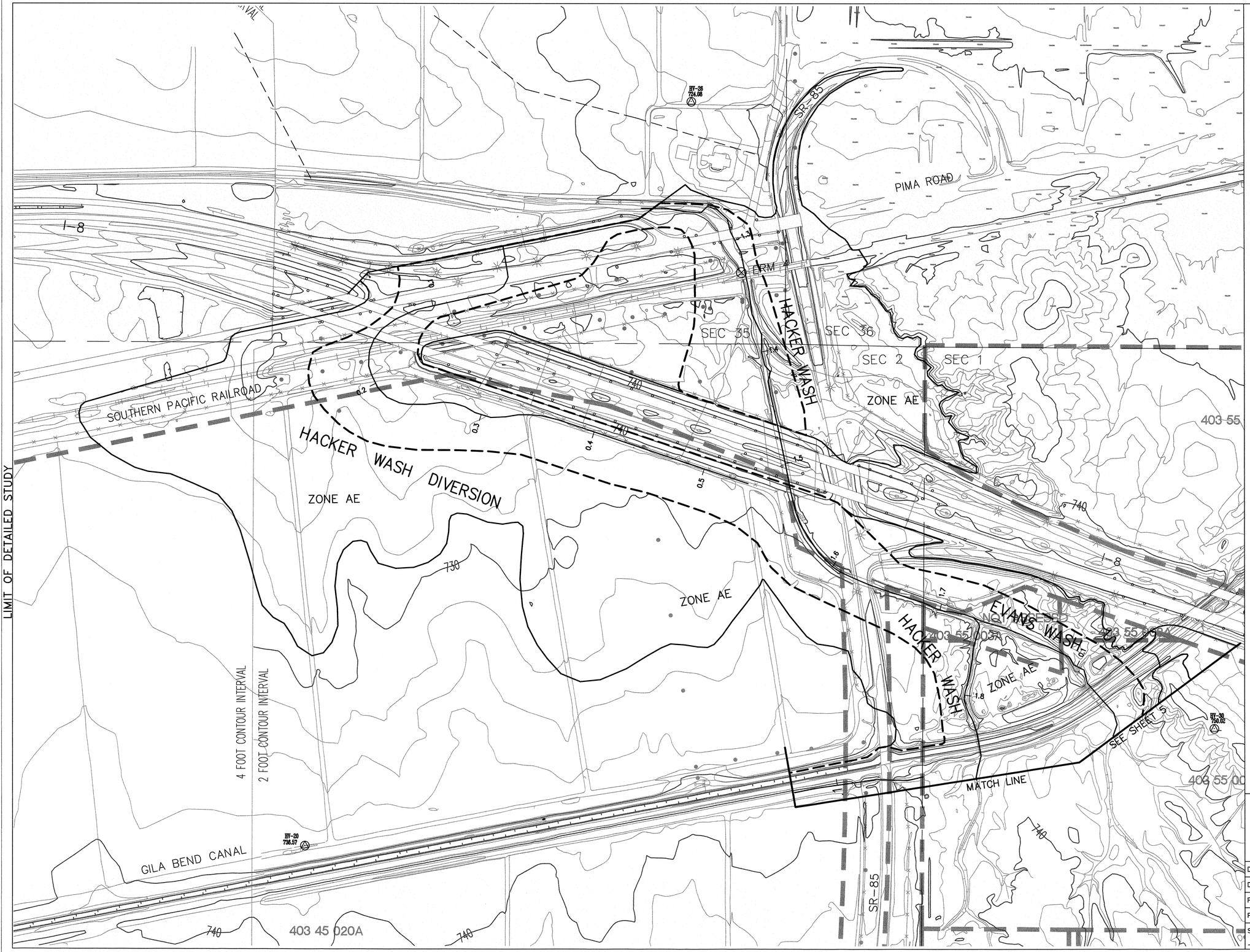
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF HACKER WASH

F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

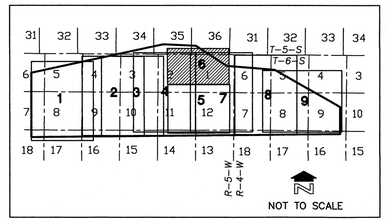


LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	⊗ ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



200' 0' 200' 400'

SCALE: 1"= 200'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 6 OF 9

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EVANS WASH & CEMETERY WASH

F.C.D. CONTRACT NO. 99-18

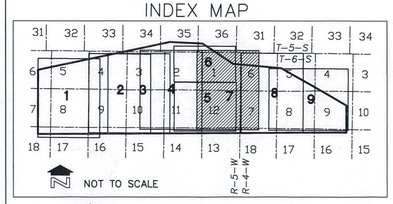
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	⊗ ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec

Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

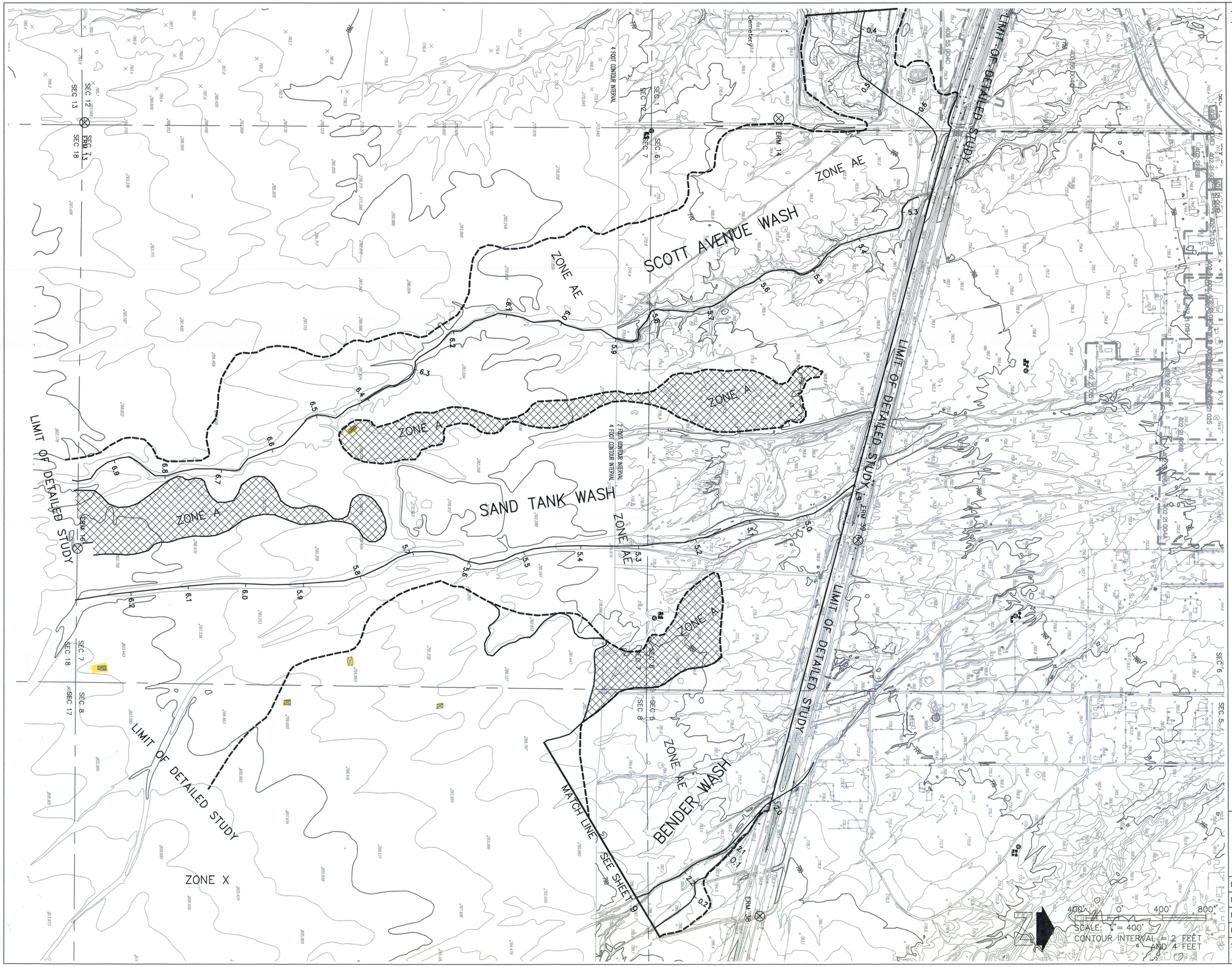
APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 7 OF 9

N:\99541\dwg\parcel-maps\99541-pcl-sht7.dwg Mon Jun 11 15:00:04 2001

MATCH LINE SEE SHEET 7



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF SAND TANK WASH & SCOTT AVENUE WASH

F.C.D. CONTRACT NO. 99-18

GILA BEND ADMP

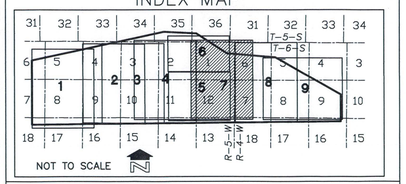
LEGEND

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	⊗ ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



eec

Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

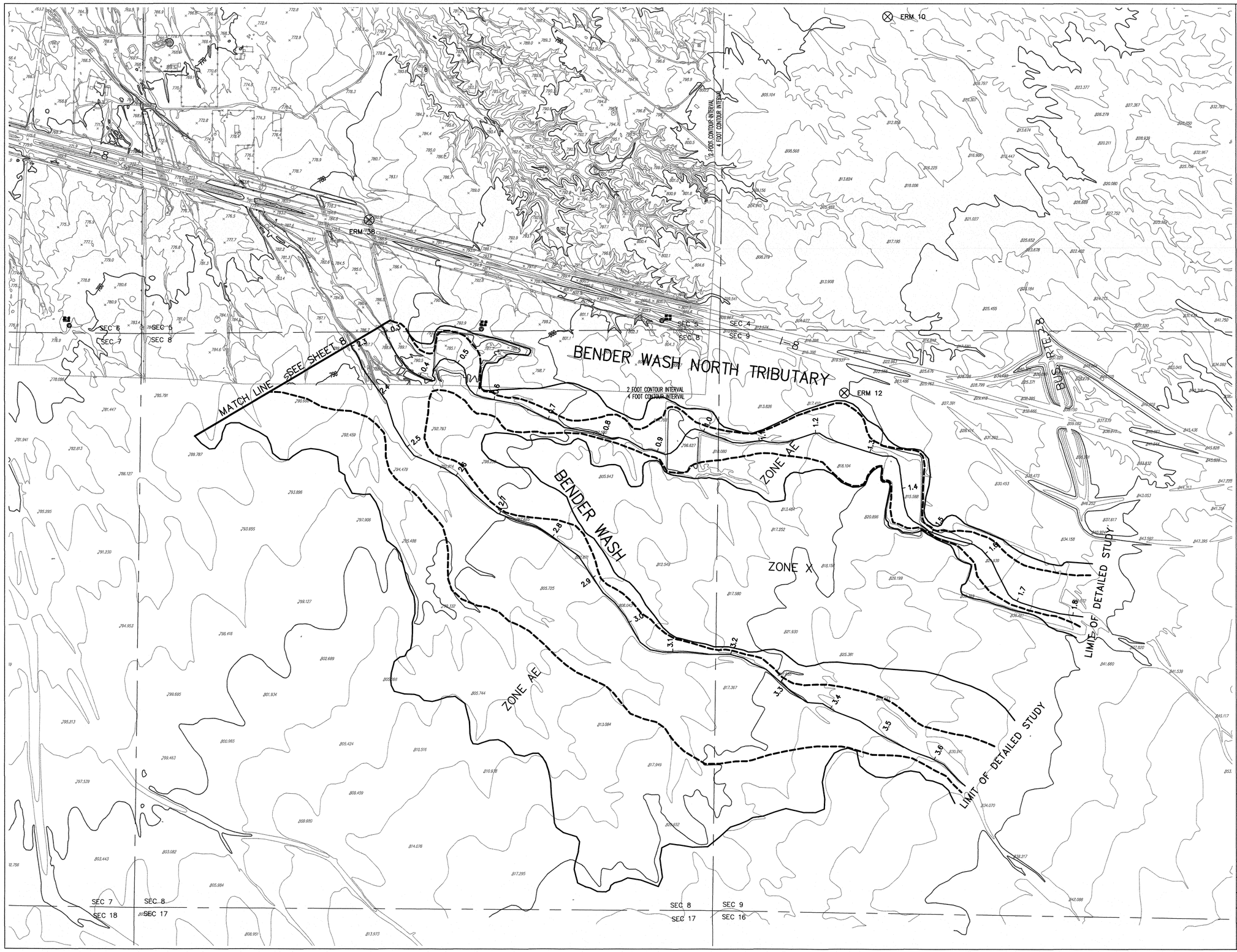
RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 8 OF 9

N:\99541\dwg\parcel-maps\99541-pcl-sht8.dwg Mon Jun 11 15:09:09 2001



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF BENDER WASH & BENDER WASH NORTH TRIBUTARY

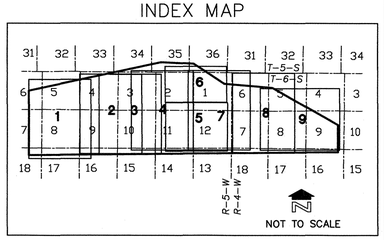
F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
ELEVATION REFERENCE MARK	ERM26
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	
PARCEL LINE	
PARCEL NUMBER	403 45 011

PRELIMINARY

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
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Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

	BY	DATE
DESIGN	LAV	06/01
DESIGN CHK.	FCDMC	06/01
PLANS	KLH	06/01
PLANS CHK.	MTG	06/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

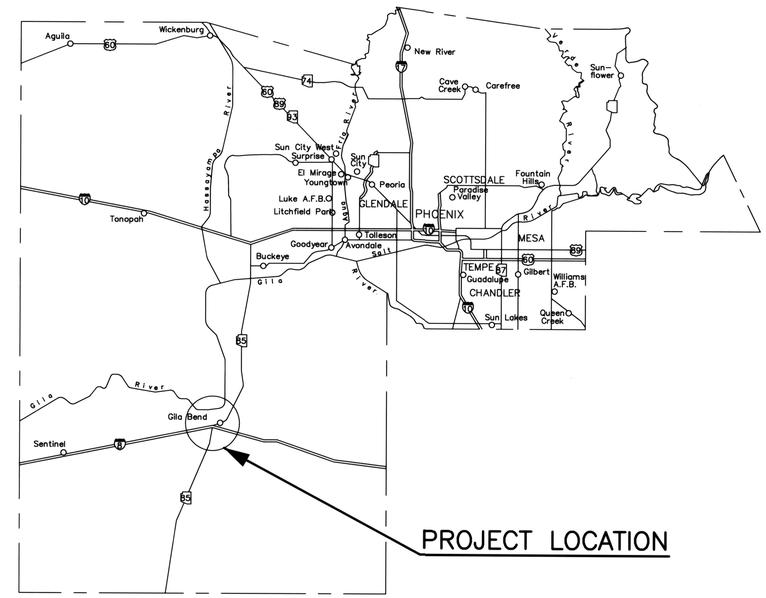
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 9 OF 9

N:\99541\dwg\parcel-maps\99541-pcl-sht9.dwg Mon Jun 11 15:16:26 2001

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOODPLAIN DELINEATION STUDY OF GILA BEND AREA FCD CONTRACT NO. 99–18



MARICOPA COUNTY
Not to Scale

DATUM

HORIZONTAL: North American Datum of 1983
VERTICAL: National Geodetic Vertical Datum of 1929

STATEMENTS BY PROFESSIONAL REGISTRANTS

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

The ground control survey was prepared under my direct supervision

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

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

CENTRAL FILES
DRAWER # 317

STUDY AREA MAP AND SHEET INDEX

AERIAL MAPPING

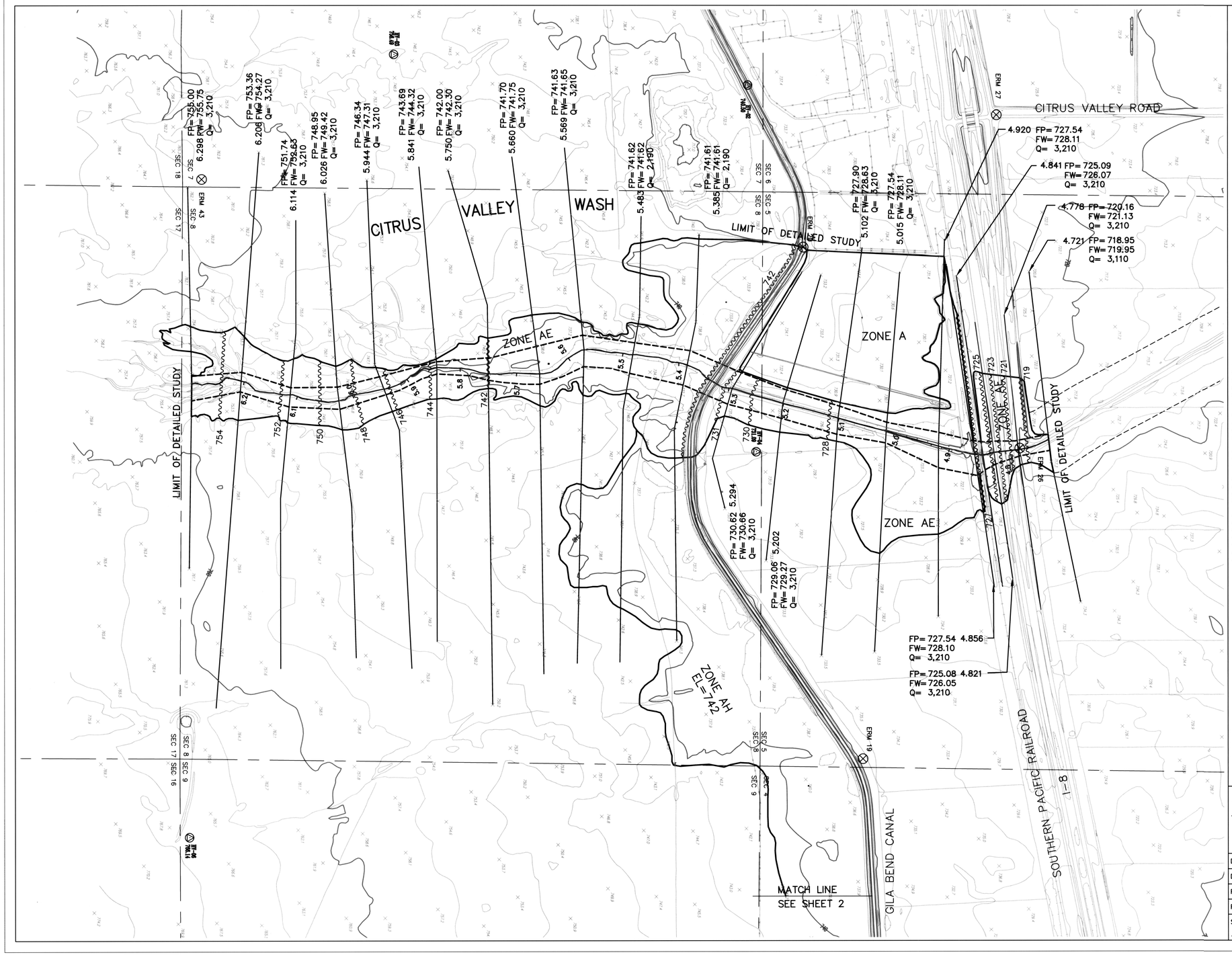
COOPER AERIAL SURVEYS CO.
11402 N. CAVE CREEK ROAD
PHOENIX, ARIZONA 85020
FLIGHT DATE: 9–7–99 & 9–30–99
CONTOUR INTERVAL: 2' & 4'

GROUND CONTROL

SURVNET INC.
150 N. STAPLEY DRIVE
MESA, ARIZONA 85203

HYDRAULICS

ENGINEERING AND ENVIRONMENTAL CONSULTANTS
3003 N. CENTRAL AVENUE, SUITE 600
PHOENIX, AZ. 85012–2905 602–248–7702



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF CITRUS VALLEY WASH

F.C.D. CONTRACT NO. 99-18

GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
CROSS SECTION	FP=100 Yr WSEL FW=Floodway WSEL 5.519 Q=100 Yr Flow
ELEVATION REFERENCE MARK	ERM26
BASE FLOOD ELEVATIONS	1770
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION

ERM #19 EL=738.01
Chiseled square at the northeast corner of 9.5' x 9.5' masonry foundation at well site, 3.0 miles west of Highway 85 along the Gila Bend Canal, on the north side of north canal road. Section 5, T 6 S, R 5 W.

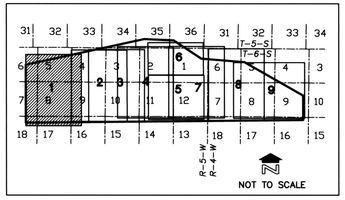
ERM #20 EL=740.09 Chiseled square at the northwest corner of bridge over canal at base of 4" x 4" metal gatepost, 4.0 miles west of Highway 85 along the Gila Bend Canal, on the south side of north canal road. Section 5, T 6 S, R 5 W.

ERM #26 EL=721.20 ADOT Brass Cap marked "4855.71" at centerline of headwall on north side of west bound Interstate 8, +/- 120 feet east of milepost 112. Section 5, T 6 S, R 5 W.

ERM #27 EL=730.88
Brass cap in centerline of headwall on the west end of a cattle guard, on the west side of Citrus Valley Road, 55 feet north of the west bound Interstate 8 off ramp. Section 6, T 6 S, R 5 W.

ERM #43 EL=762.57
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, right at Y then southerly along dirt track 0.95 miles then left 150 feet to the point. Brass cap lies +/-15 feet west of a mesquite tree and +/-145 feet north of 8" high metal post. Section 8, T 6 S, R 5 W.

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

eec
Engineering and Environmental Consultants, Inc.
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Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 15934 MARK T. GAVAN Expires 6/30/03 ARIZONA, U.S.A.

	BY	DATE
DESIGN	LAV	10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01

SUBMITTED BY: DATE:

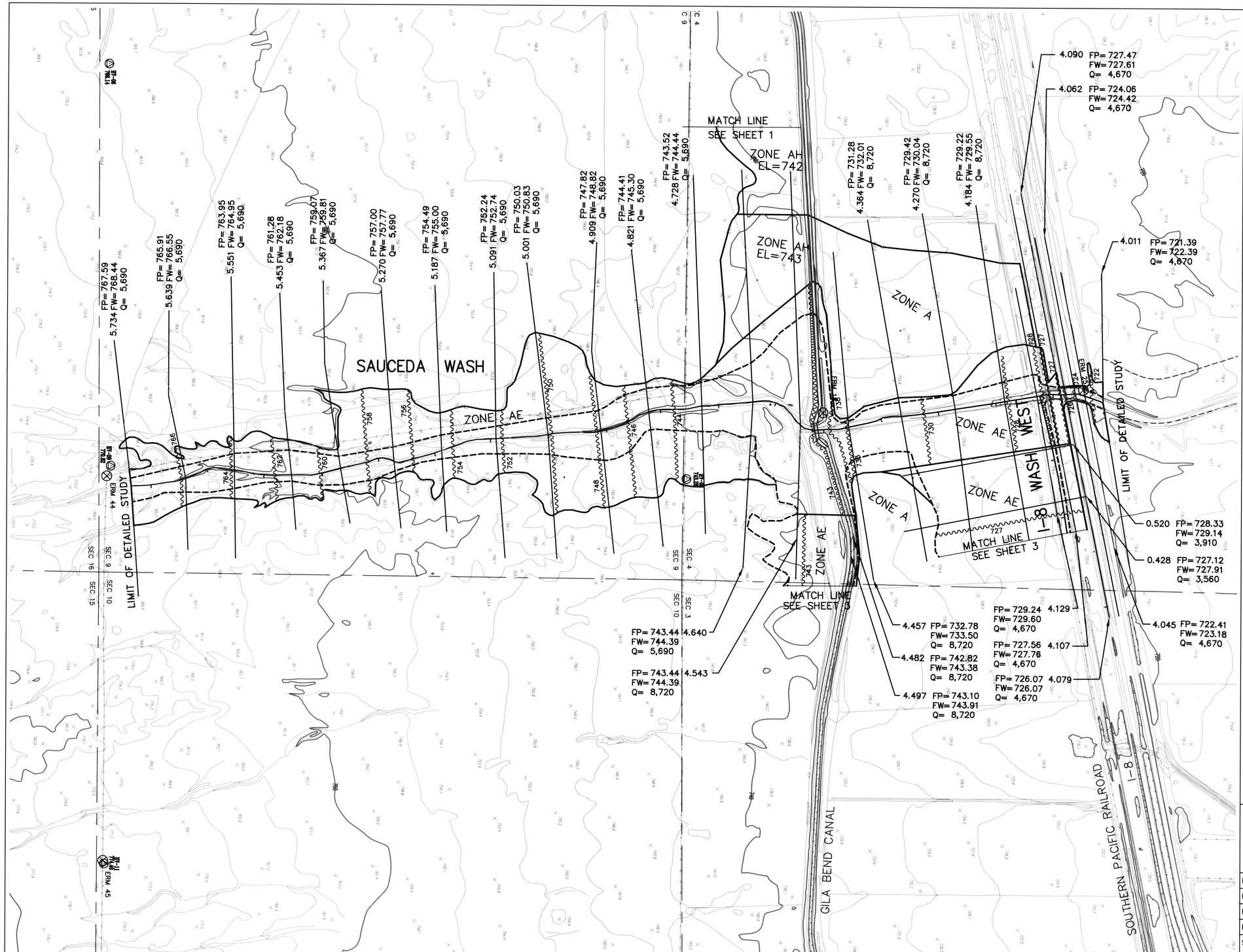
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 1 OF 9



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF SAUCEDA WASH

F.C.D. CONTRACT NO. 99-18

GILA BEND ADMP

LEGEND

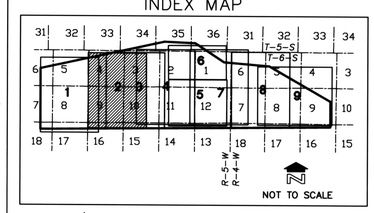
- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
- HYDRAULIC BASE LINE & RIVER MILE — 2.0
- CROSS SECTION — FP=100 Yr WSEL, FW=Floodway WSEL, Q=100 Yr Flow — 5.519
- ELEVATION REFERENCE MARK — ERM26
- BASE FLOOD ELEVATIONS — 1770
- ZONE DESIGNATIONS — ZONE AE
- SECTION LINE

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
ERM #18	EL=742.84	Chiseled square at centerline of headwall at gate valve, north side of canal, +/- 95 feet west of west side of siphon, 2.3 miles west of Highway 85 along Gila Bend Canal, on the south side of north canal road. Section 4, T 6 S, R 5 W.
ERM #25	EL=725.56	Chiseled square on top of headwall at northwest corner of bridge on west bound Interstate 8, 0.25 miles east of milepost 113. Section 4, T 6 S, R 5 W.
ERM #44	EL=766.52	Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, right at Y then southeasterly 0.95 miles to a gate in fence. Station at north end of gate, 2 feet north and 2 feet west of a 6"x8" post. Section 9, T 6 S, R 5 W.
ERM #45	EL=774.62	Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, left at Y and continue easterly 0.85 miles to a line of utility poles running north and south, south along utility line 0.95 miles to a gate in a fence. Station at west end of gate, 2.5' north and 1.5' west of a 6"x8" post. Section 10, T 6 S, R 5 W.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'

CONTOUR INTERVAL = 4 FEET

Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL: (602)248-7702 FAX: (602)248-7851

15594 MARK T. GAVAN 10/01/03 REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A.

	BY	DATE
DESIGN	LAV	10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 2 OF 9

WEST QUILOTOSA WASH

CROSS SECTION	FP	FW	Q
0.239	717.21	718.21	15,200
0.256	717.95	718.63	15,200
0.337	723.04	723.06	15,200
0.355	723.05	723.09	15,200
0.387	726.26	726.25	15,200
0.475	726.24	726.24	10,600
0.563	727.29	727.48	10,600
0.654	730.74	731.08	10,600
0.742	732.66	733.36	10,600
0.832	735.55	736.12	10,600
0.879	742.52	742.94	10,600
0.890	743.33	744.04	10,700
0.926	743.44	744.27	10,700

I-8 WASH WEST

CROSS SECTION	FP	FW	Q
0.332	726.53	727.48	2,640
0.235	726.41	727.41	700
0.163	726.40	727.40	40
0.076	726.40	727.40	40

QUILOTOSA WASH

CROSS SECTION	FP	FW	Q
3.776	717.21	718.21	15,200
3.793	717.95	718.62	15,200
3.874	723.10	723.14	15,200
3.892	723.11	723.17	15,200
3.921	726.37	726.62	15,200
4.013	726.38	726.48	9,170
4.109	728.32	728.88	9,170
4.201	731.91	732.46	9,170
4.290	734.45	734.97	9,170

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF WEST QUILOTOSA WASH

F.C.D. CONTRACT NO. 99-18

GILA BEND ADMP

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
- HYDRAULIC BASE LINE & RIVER MILE — 2.0 — 5.519
- CROSS SECTION — FP=100 Yr WSEL, FW=Floodway WSEL, Q=100 Yr Flow
- ELEVATION REFERENCE MARK — ⊗ ERM26
- BASE FLOOD ELEVATIONS — 1770
- ZONE DESIGNATIONS — ZONE AE
- SECTION LINE

ELEVATION REFERENCE MARKS

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

I.D. NUM. ELEV. (FT) DESCRIPTION/LOCATION

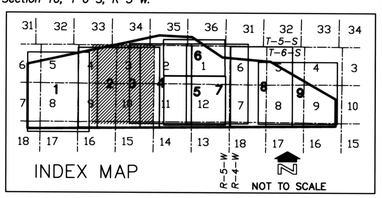
ERM #17 EL=742.46
Chiseled square in north end of headwall, on the west side of canal siphon, 1.15 miles west of Highway 85 along the Gila Bend Canal, on the south side of north canal road.
Section 3, T 6 S, R 5 W.

ERM #24 EL=727.69
NGS Point "TOSA", (PID DA0685) Located West of Gila Bend along the Union Pacific Railroad, 2.1 miles west of Martin Avenue. Point lies 1.6 miles west of the I-8 overpass, 50 feet north of the north rail, and 96.5 feet south of the extended centerline of the I-8 frontage road
Section 3, T 6 S, R 5 W.

ERM #25 EL=725.56
Chiseled square on top of headwall at northwest corner of bridge on west bound Interstate 8, 0.25 miles east of milepost 113.
Section 4, T 6 S, R 5 W.

ERM #44 EL=766.52
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, right at Y then southeasterly 0.95 miles to a gate in fence. Station at north end of gate, 2 feet north and 2 feet west of a 6"x8" post.
Section 9, T 6 S, R 5 W.

ERM #45 EL=774.62
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, left at Y and continue easterly 0.85 miles to a line of utility poles running north and south, south along utility line 0.95 miles to a gate in a fence. Station at west end of gate, 2.5' north and 1.5' west of a 6"x8" post.
Section 10, T 6 S, R 5 W.



400' 0' 400' 800'

SCALE: 1"= 400'

CONTOUR INTERVAL = 4 FEET

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TEL:(602)248-7702 FAX:(602)248-7851

REGISTERED PROFESSIONAL ENGINEER 15594 MARK T. GAVAN DATE OF EXPIRATION 12/31/02 ARIZONA, U.S.A.

	BY	DATE
DESIGN	LAV	10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01

SUBMITTED BY: DATE:

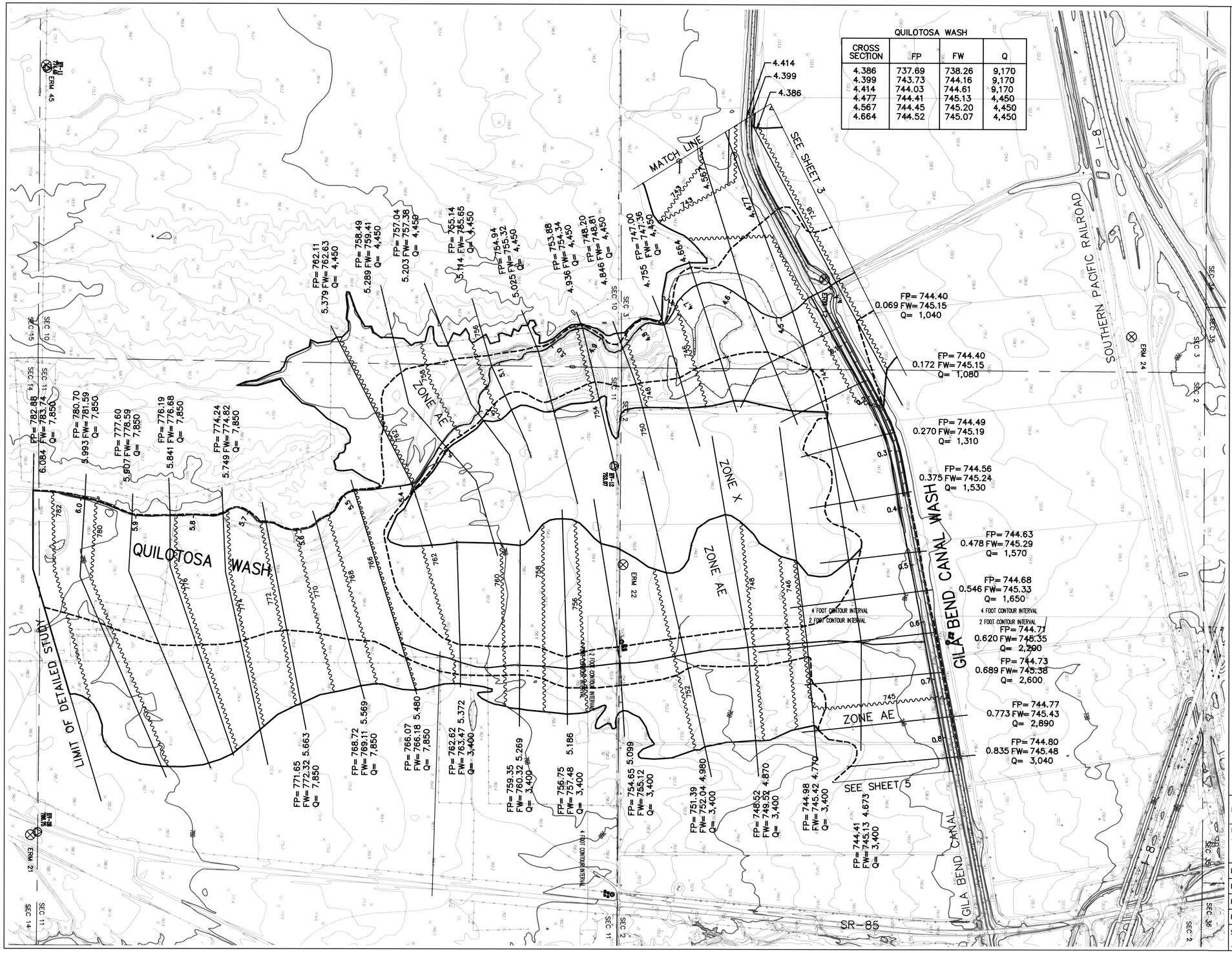
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 3 OF 9



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF QUILOTOSA WASH

F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
- HYDRAULIC BASE LINE & RIVER MILE — 2.0
- CROSS SECTION — FP=100 Yr WSEL, FW=Floodway WSEL, Q=100 Yr Flow — 5.519
- ELEVATION REFERENCE MARK — ERM26
- BASE FLOOD ELEVATIONS — 1770
- ZONE DESIGNATIONS — ZONE AE
- SECTION LINE

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION

ERM #17 EL=742.46
Chiseled square in north end of headwall, on the west side of canal siphon, 1.15 miles west of Highway 85 along the Gila Bend Canal, on the south side of north canal road. Section 3, T 6 S, R 5 W.

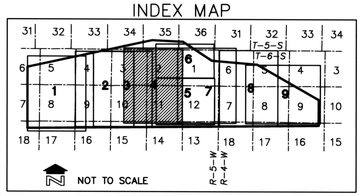
ERM #21 EL=787.94
NGS Point "R-1", (PID DA0499) Located SW of Gila Bend along the E side of SR 85, 1.9 miles S of I-18. Point lies between SR 85 and the Railroad tracks, 66 feet SE of the SR 85 centerline, 90 feet NW rail of the tracks, and 5 feet SE of Railway milepost 3. Section 14, T 6 S, R 5 W.

ERM #22 EL=754.46
Chiseled square on the southwest corner of an electrical equipment pad at pump, 25 feet north of a utility pole, 0.55 miles west of Highway 85 from the intersection of Highway 85 and Thayer Road. Section 2, T 6 S, R 5 W.

ERM #24 EL=727.69
NGS Point "TOSA", (PID DA0685) Located West of Gila Bend along the Union Pacific Railroad, 2.1 miles west of Martin Avenue. Point lies 1.6 miles west of the I-8 overpass, 50 feet north of the north rail, and 96.5 feet south of the extended centerline of the I-8 frontage road Section 3, T 6 S, R 5 W.

ERM #45 EL=774.62
Brass cap in concrete. 4.0 miles west of Highway 85 on the north side of the Gila Bend Canal to a bridge, then southerly across bridge 0.05 miles to a Y, left at Y and south easterly and easterly 1.45 miles to a Y, left at Y and continue easterly 0.85 miles to a line of utility poles running north and south, south along utility line 0.95 miles to a gate in a fence. Station at west end of gate, 2.5' north and 1.5' west of a 6"x8" post. Section 10, T 6 S, R 5 W.

INDEX MAP



400' 0' 400' 800'
SCALE: 1"= 400'
CONTOUR INTERVAL = 4 FEET

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3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
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REGISTERED PROFESSIONAL ENGINEER 15594 MARK T. GAVAN ARIZONA, U.S.A.

	BY	DATE
DESIGN	LAV	10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01

SUBMITTED BY: DATE:

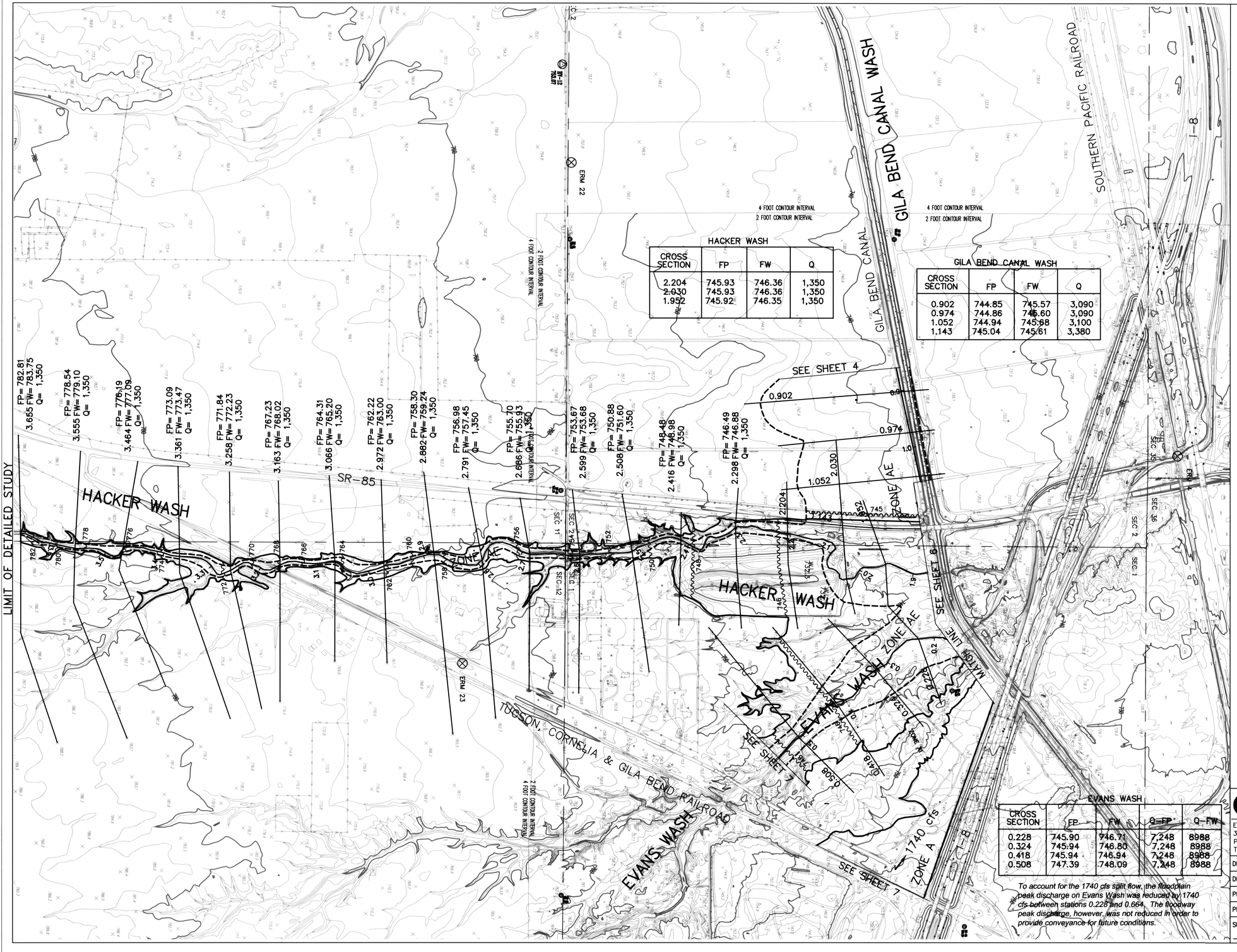
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 4 OF 9



HACKER WASH

CROSS SECTION	FP	FW	Q
2.204	745.93	746.36	1,350
2.030	745.93	746.36	1,350
1.952	745.92	746.35	1,350

GILA BEND CANAL WASH

CROSS SECTION	FP	FW	Q
0.902	744.85	745.57	3,090
0.974	744.86	745.60	3,090
1.052	744.94	745.68	3,100
1.143	745.04	745.61	3,380

EVANS WASH

CROSS SECTION	FP	FW	Q-FP	Q-FW
0.228	745.90	746.71	7,248	8988
0.324	745.94	746.80	7,248	8988
0.418	745.94	746.94	7,248	8988
0.508	747.39	748.09	7,248	8988

To account for the 1740 cfs split flow, the floodplain peak discharge on Evans Wash was reduced by 1740 cfs between stations 0.228 and 0.664. The floodway peak discharge, however, was not reduced in order to provide conveyance for future conditions.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF HACKER WASH F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

EXISTING APPROXIMATE FLOODPLAIN BOUNDARY

HYDRAULIC BASE LINE & RIVER MILE — 2.0

CROSS SECTION — FP=100 Yr WSEL 5.519; FW=Floodway WSEL 100 Yr Flow

ELEVATION REFERENCE MARK — ⊗ ERM26

BASE FLOOD ELEVATIONS — 1770

ZONE DESIGNATIONS — ZONE AE

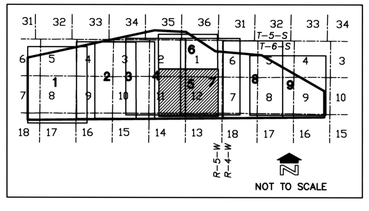
SECTION LINE

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
ERM #4	*EL=727.68*	*1.1 Miles west along the Southern Pacific Railroad from the depot at Gila Bend to a bridge, 8 Feet north of the north rail of the north track set in a drill hole in the top of the northwest concrete abutment and about 5 inches lower than the track. The mark is a brass cap stamped Coast & Geodetic Survey K354*
ERM #22	*EL=754.46*	*Chiseled square on the southwest corner of an electrical equipment pad at pump, 25 feet north of a utility pole, 0.55 miles west of Highway 85 from the intersection of Highway 85 and Thayer Road. Section 2, T 6 S, R 5 W.*
ERM #23	*EL=765.42*	*NGS Point "J-331", (PID DA0498) Located 1.65 mi. SW along the Tucson, Cornelia and Gila Bend Railway from the Martin Avenue crossing in Gila Bend, at the second telegraph pole SW of railway milepole 2, at a dip in the old highway 8, 195,5 feet North of the NW corner of a wooden railway bridge number 21, 95.4 feet NW of the NW rail of the tracks, 46.0 feet SE of the centerline of the old highway, 5.0 feet NE oth the telegraph pole, 2 ft. SW from a witness post, and 1 ft. below the tracks. Section 12 T 6 S, R 5 W.*

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'

CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec

Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL: (602)248-7702 FAX: (602)248-7851

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 15594 MARK T. GAVAN ARIZONA, U.S.A. 10/01/03

	BY	DATE
DESIGN	LAV	10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01

SUBMITTED BY: DATE:

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

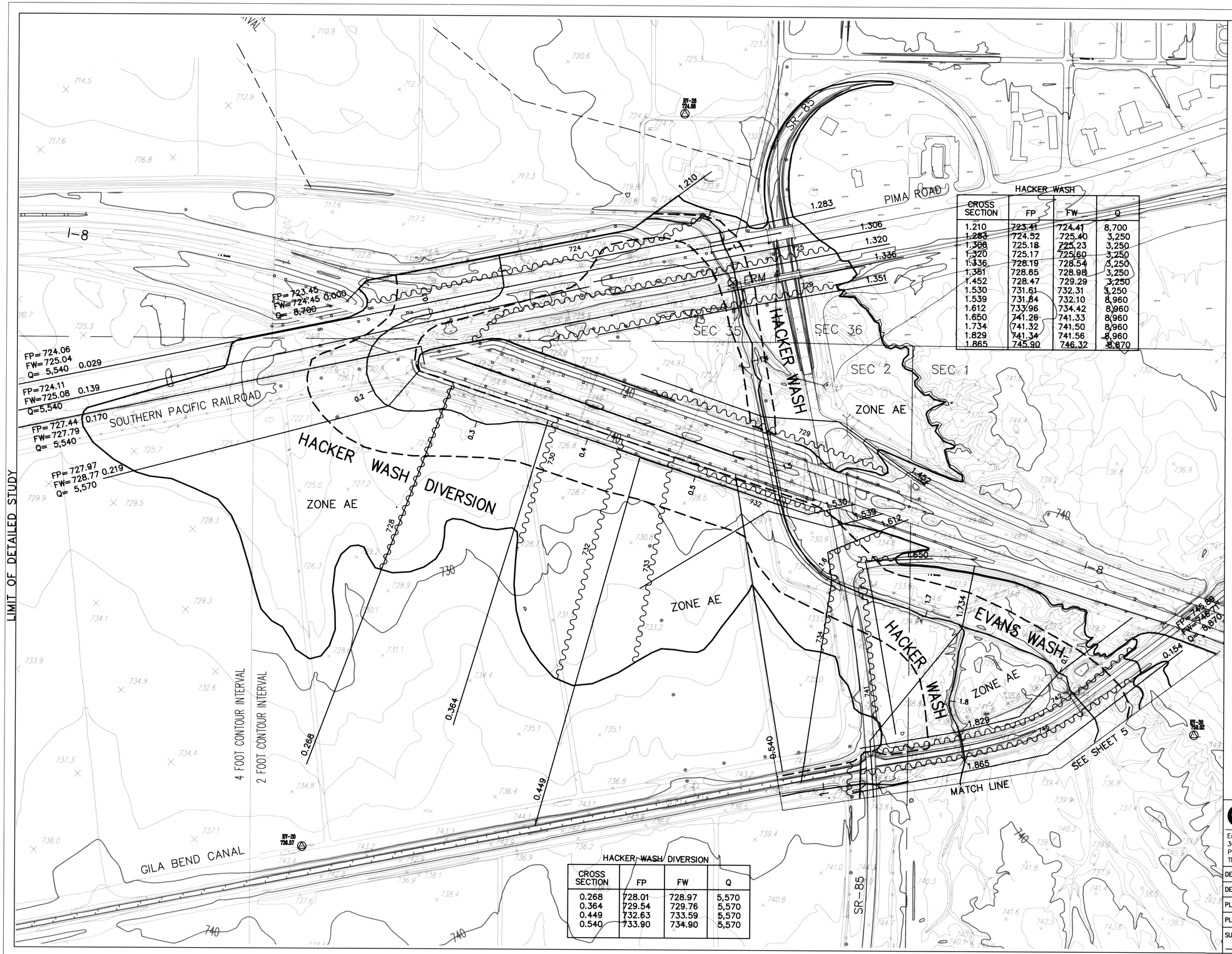
CHIEF ENGINEER AND GENERAL MANAGER

SHEET 5 OF 9

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF HACKER WASH

F.C.D. CONTRACT NO. 99-18
GILA BEND ADMP



HACKER WASH

CROSS SECTION	FP	FW	Q
1.210	723.41	724.41	8,700
1.283	724.52	725.40	3,250
1.306	725.18	725.23	3,250
1.320	725.17	725.60	3,250
1.336	728.19	728.54	3,250
1.351	728.65	728.98	3,250
1.452	728.47	729.29	3,250
1.530	731.61	732.31	3,250
1.539	731.84	732.10	8,960
1.612	733.96	734.42	8,960
1.650	741.26	741.33	8,960
1.734	741.32	741.50	8,960
1.829	741.34	741.56	8,960
1.865	745.90	746.32	8,870

HACKER WASH DIVERSION

CROSS SECTION	FP	FW	Q
0.268	728.01	728.97	5,570
0.364	729.54	729.76	5,570
0.449	732.63	733.59	5,570
0.540	733.90	734.90	5,570

LEGEND

100-YR FLOODPLAIN BOUNDARY	
FLOODWAY BOUNDARY	
EXISTING APPROXIMATE FLOODPLAIN BOUNDARY	
HYDRAULIC BASE LINE & RIVER MILE	2.0
CROSS SECTION	FP=100 Yr WSEL FW=Floodway WSEL 5.519 Q=100 Yr Flow
ELEVATION REFERENCE MARK	⊗ ERM26
BASE FLOOD ELEVATIONS	1770
ZONE DESIGNATIONS	ZONE AE
SECTION LINE	

ELEVATION REFERENCE MARKS

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

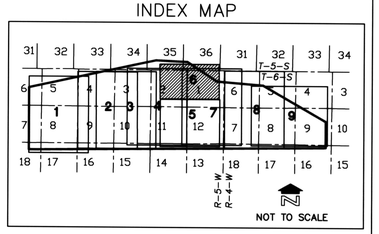
I.D. NUM. ELEV. (FT) DESCRIPTION/LOCATION

ERM #4 EL=727.68
1.1 Miles west along the Southern Pacific Railroad from the depot at Gila Bend to a bridge, 8 Feet north of the north rail of the north track set in a drill hole in the top of the northwest concrete abutment and about 5 inches lower than the track. The mark is a brass cap stamped Coast & Geodetic Survey K354

ERM #22 EL=754.46
Chiseled square on the southwest corner of an electrical equipment pad at pump, 25 feet north of a utility pole, 0.55 miles west of Highway 85 from the intersection of Highway 85 and Thayer Road. Section 2, T 6 S, R 5 W.

ERM #23 EL=765.42
NGS Point "J-331", (PID DA0498) Located 1.65 mi. SW along the Tucson, Cornelia and Gila Bend Railway from the Martin Avenue crossing in Gila Bend, at the second telegraph pole SW of railway milepole 2, at a dip in the old highway 8, 195.5 feet North of the NW corner of a wooden railway bridge number 21, 95.4 feet NW of the NW rail of the tracks, 46.0 feet SE of the centerline of the old highway, 5.0 feet NE oth the telegraph pole, 2 ft. SW from a witness post, and 1 ft. below the tracks. Section 12 T 6 S, R 5 W.

INDEX MAP



200' 0' 200' 400'
SCALE: 1"= 200'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

eec
Engineering and Environmental Consultants, Inc.
3003 N. Central Avenue, Suite 600
Phoenix, Arizona 85012-2905
TEL:(602)248-7702 FAX:(602)248-7851

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 15594 MARK T. GAVAN ARIZONA, U.S.A.

	BY	DATE
DESIGN	LAV	10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01

SUBMITTED BY: DATE:

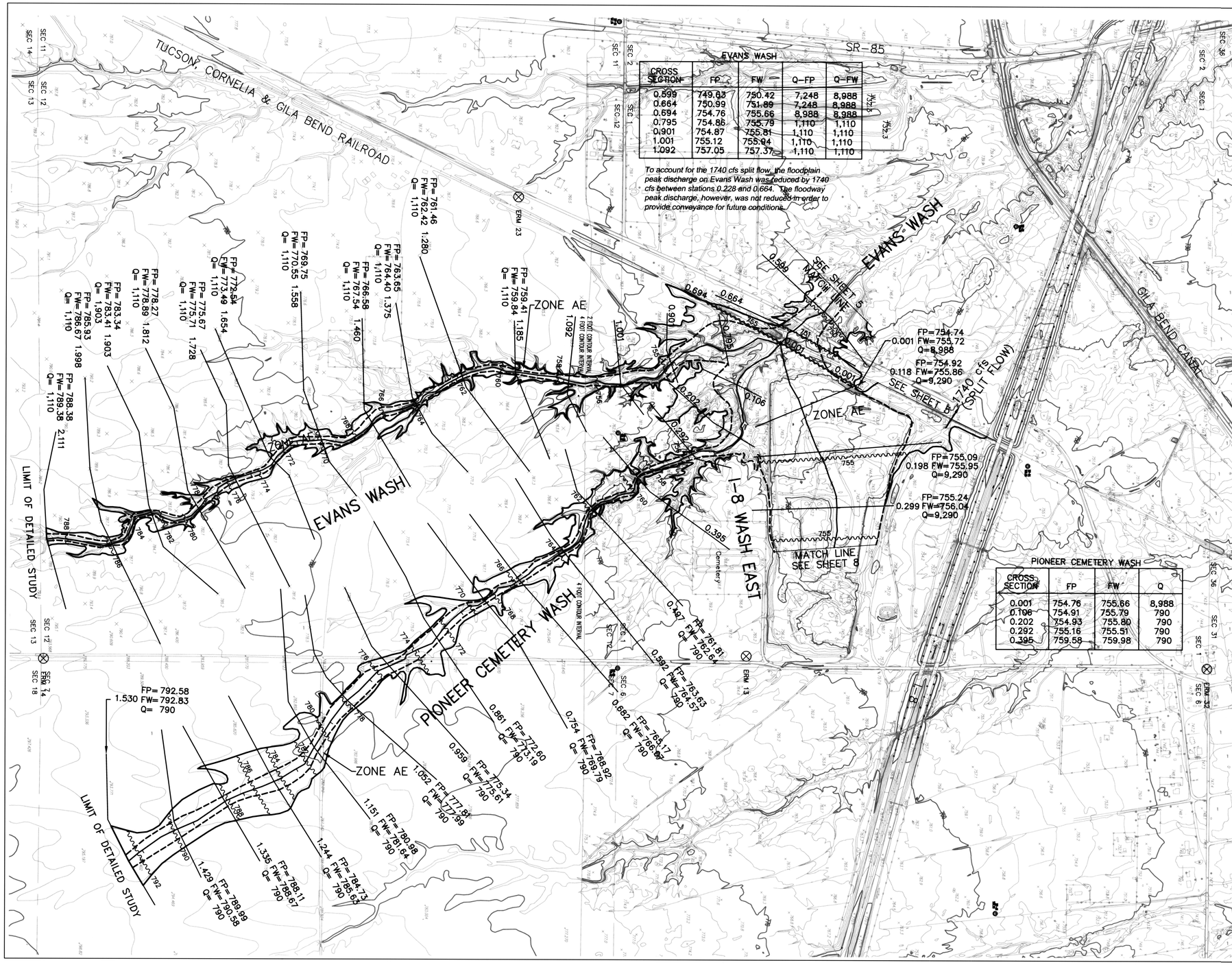
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 6 OF 9



EVANS WASH				
CROSS SECTION	FP	FW	Q-FP	Q-FW
0.599	749.63	750.42	7,248	8,988
0.664	750.99	751.89	7,248	8,988
0.694	754.76	755.66	8,988	8,988
0.795	754.86	755.79	1,110	1,110
0.901	754.87	755.81	1,110	1,110
1.001	755.12	755.94	1,110	1,110
1.092	757.05	757.37	1,110	1,110

To account for the 1740 cfs split flow, the floodplain peak discharge on Evans Wash was reduced by 1740 cfs between stations 0.228 and 0.664. The floodway peak discharge, however, was not reduced in order to provide conveyance for future conditions.

PIONEER CEMETERY WASH			
CROSS SECTION	FP	FW	Q
0.001	754.76	755.66	8,988
0.106	754.91	755.79	790
0.202	754.93	755.80	790
0.292	755.16	755.51	790
0.395	759.58	759.98	790

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF EVANS WASH & CEMETERY WASH

F.C.D. CONTRACT NO. 99-18

GILA BEND ADMP

LEGEND

- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
- HYDRAULIC BASE LINE & RIVER MILE (2.0)
- CROSS SECTION — FP=100 Yr WSEL; FW=Floodway WSEL 5.519; Q=100 Yr Flow
- ELEVATION REFERENCE MARK — ERM26
- BASE FLOOD ELEVATIONS — 1770
- ZONE DESIGNATIONS — ZONE AE
- SECTION LINE

ELEVATION REFERENCE MARKS

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

I.D. NUM. ELEV. (FT) DESCRIPTION/LOCATION

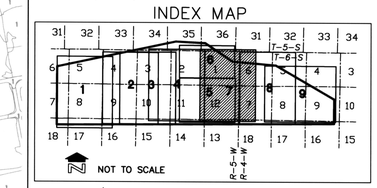
ERM #13 EL=795.60
Located 0.3 miles south along State Highway 85 from the Southern Pacific Company Railroad Station at gila bend, thence 1.9 miles south along graded road at the "T" junction of a graded road leading east of a fence corner, 51 feet north of the centerline of the road east, 45 feet east of the centerline of the centerline of the road south, 36 feet north of the fence corner 2.8 feet north of a witness post 2.4 feet west of a fence, and set in the top of a concrete post projecting 0.6 feet above the ground and level with the road. The mark is a brass cap stamped "U.S. Coast & Geodetic Survey N298"

ERM #14 EL=766.82
Located 0.3 miles south along State Highway 85 from the Southern Pacific Company Railroad Station at Gila Bend. Thence 0.7 mile south along a graded road on a small barren patch, 59 feet south of the centerline of the road, 2.4 feet north of a witness post and set in the top of a concrete post projecting 0.5 foot above the ground and about 1 foot higher than the road. The mark is a brass cap stamped "U.S. Coast and Geodetic Survey M298"

ERM #23 EL=765.42
NGS Point "J-331", (PID DA0498) Located 1.65 mi. SW along the Tucson, Cornelia and Gila Bend Railway from the Martin Avenue crossing in Gila Bend, at the second telegraph pole SW of railway mile pole 2, at a dip in the old highway 8, 195.5 feet North of the NW corner of a wooden railway bridge number 21, 95.4 feet NW of the NW rail of the tracks, 46.0 feet SE of the centerline of the old highway, 5.0 feet NE oth the telegraph pole, 2 ft. SW from a witness post, and 1 ft. below the tracks.
Section 12 T 6 S, R 5 W.

ERM #32 EL=744.75
1" iron pipe, 2.8 feet east and 1.0 foot north of a utility pole and 2.6 feet north of a #4 rebar with cap stamped "LS 9087", +/- 30 feet south of a building corner and +/- 150 feet west of the intersection of Main St. and Martin Ave.
Section 31, T 5 S, R 5 W.

INDEX MAP



400' 0' 400' 800'

SCALE: 1"= 400'
CONTOUR INTERVAL = 2 FEET AND 4 FEET

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15594 MARK T. GAVAN ARIZONA, U.S.A. 11/5/03

DESIGN	BY LAV	DATE 10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01
SUBMITTED BY:		DATE:

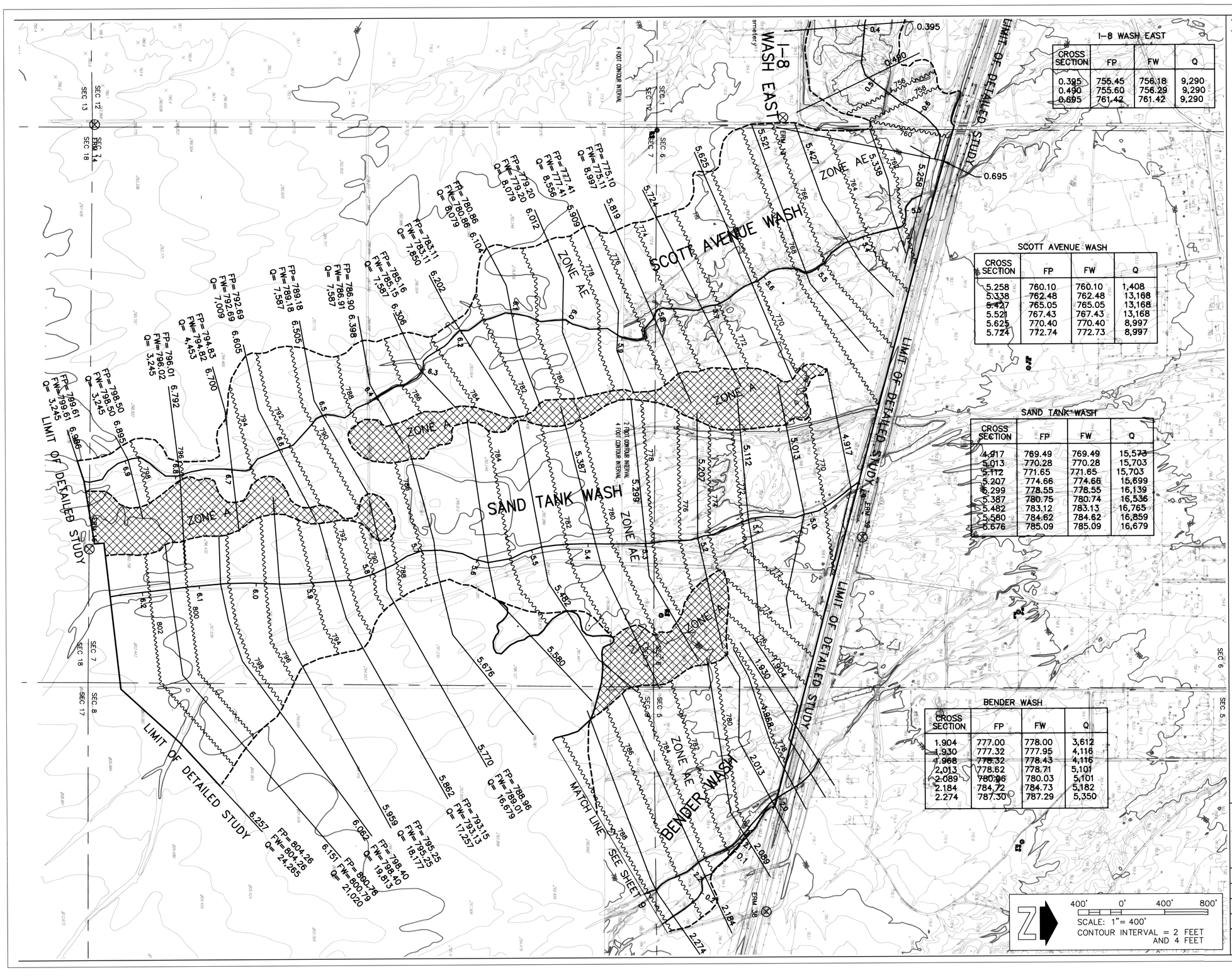
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 7 OF 9



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF SAND TANK WASH & SCOTT AVENUE WASH

F.C.D. CONTRACT NO. 99-18

GILA BEND ADMP

I-8 WASH EAST

CROSS SECTION	FP	FW	Q
0.395	755.45	756.18	9,290
0.490	755.60	756.29	9,290
0.695	761.42	761.42	9,290

SCOTT AVENUE WASH

CROSS SECTION	FP	FW	Q
5.258	760.10	760.10	1,408
5.338	762.48	762.48	13,168
5.427	765.05	765.05	13,168
5.521	767.43	767.43	13,168
5.625	770.40	770.40	8,997
5.724	772.74	772.73	8,997

SAND TANK WASH

CROSS SECTION	FP	FW	Q
4.917	769.49	769.49	15,573
5.013	770.28	770.28	15,703
5.112	771.65	771.65	15,703
5.207	774.66	774.66	15,699
5.299	778.55	778.55	16,139
5.387	780.75	780.74	16,536
5.482	783.12	783.13	16,765
5.580	784.62	784.62	16,859
5.676	785.09	785.09	16,679

BENDER WASH

CROSS SECTION	FP	FW	Q
1.904	777.00	778.00	3,612
1.930	777.32	777.95	4,116
1.968	778.32	778.43	4,116
2.013	778.62	778.71	5,101
2.089	780.96	780.03	5,101
2.184	784.72	784.73	5,182
2.274	787.30	787.29	5,350

LEGEND

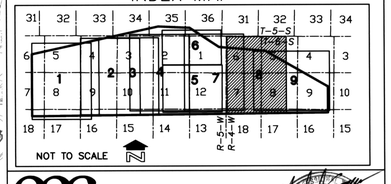
- 100-YR FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- EXISTING APPROXIMATE FLOODPLAIN BOUNDARY
- HYDRAULIC BASE LINE & RIVER MILE — 2.0
- CROSS SECTION — FP=100 Yr WSEL; FW=Floodway WSEL; Q=100 Yr Flow — 5.519
- ELEVATION REFERENCE MARK — ERM26
- BASE FLOOD ELEVATIONS — 1770
- ZONE DESIGNATIONS — ZONE AE
- SECTION LINE
- *ZONE A WITH SPECIAL FLOOD HAZARD AREAS THAT EXPERIENCE SIGNIFICANT LATERAL FLOW BETWEEN WASHES. NO DEVELOPMENT SHALL BE ALLOWED THAT WOULD INHIBIT THE LATERAL CROSS FLOW.*

ELEVATION REFERENCE MARKS

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

I.D. NUM.	ELEV. (FT)	DESCRIPTION/LOCATION
ERM #13	EL=795.60	Located 0.3 miles south along State Highway 85 from the Southern Pacific Company Railroad Station at gila bend, thence 1.9 miles south along graded road at the "T" junction of a graded road leading east of a fence corner, 51 feet north of the centerline of the road east, 45 feet east of the centerline of the centerline of the road south, 36 feet north of the fence corner 2.8 feet north of a witness post 2.4 feet west of a fence, and set in the top of a concrete post projecting 0.6 feet above the ground and level with the road. The mark is a brass cap stamped "U.S. Coast & Geodetic Survey N298"
ERM #14	EL=766.82	Located 0.3 miles south along State Highway 85 from the Southern Pacific Company Railroad Station at Gila Bend. Thence 0.7 mile south along a graded road on a small barren patch, 59 feet south of the centerline of the road, 2.4 feet north of a witness post and set in the top of a concrete post projecting 0.5 foot above the ground and about 1 foot higher than the road. The mark is a brass cap stamped "U.S. Coast and Geodetic Survey M298"
ERM #16	ERM EL=804.28	Located 0.3 mile south along State Highway 85 from the Southern Pacific Railroad Station at Gila Bend. Thence 1.9 miles south along a graded road, thence 0.7 mile east along a graded road at a gravel pit and a large mound of dirt at the junction of a track road leading south along a fence line, 86 feet north of the remains of a fnece corner. 111 feet north of the junction of the tracked road, 18 feet east of the dirt mound, 5.0 feet northwest of a 6 foot high wooden post, 1.6 feet southwest of a witness post, set in the top of a concrete post projecting 0.4 foot above the ground and level with the roads. The mark is a brass cap stamped "U.S. Coast & Geodetic Survey R60"
ERM #38	EL=786.03	ADOT Brass Cap marked "786.19" on headwall on the north side of west bound interstate 8, 0.8 miles west of milepost 119. Section 5, T 6 S, R 4 W.
ERM #39	EL=773.63	ADOT Brass Cap marked "Elev 773.79 MED. STA. 5145+22.66", on headwall on north side of west bound Interstate 8, 0.5 miles west of milepost 118 and 0.1 miles west of bridge over Sand Tank Wash. Section 6, T 6 S, R 4 W.

INDEX MAP



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REGISTERED PROFESSIONAL ENGINEER 15594 MARK T. GAVAN ARIZONA, U.S.A. 10/1/01

	BY	DATE
DESIGN	LAV	10/01
DESIGN CHK.	FCDMC	10/01
PLANS	KLH	10/01
PLANS CHK.	LAV	10/01

SUBMITTED BY: DATE:

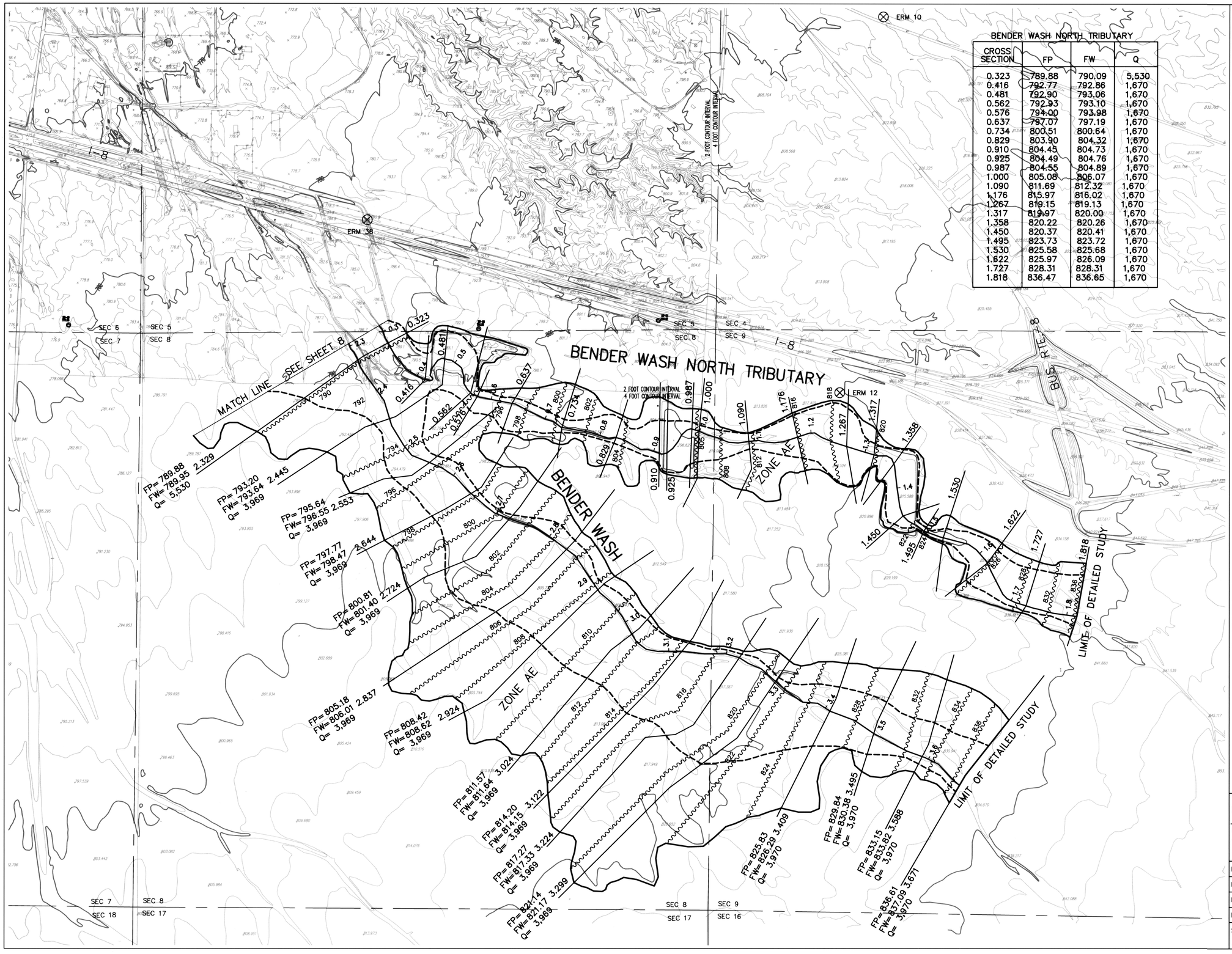
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

RECOMMENDED BY: DATE

APPROVED BY: DATE

CHIEF ENGINEER AND GENERAL MANAGER

SHEET 8 OF 9



BENDER WASH NORTH TRIBUTARY

CROSS SECTION	FP	FW	Q
0.323	789.88	790.09	5,530
0.416	792.77	792.86	1,670
0.481	792.90	793.06	1,670
0.562	792.93	793.10	1,670
0.576	794.00	793.98	1,670
0.637	797.07	797.19	1,670
0.734	800.51	800.64	1,670
0.829	803.90	804.32	1,670
0.910	804.45	804.73	1,670
0.925	804.49	804.76	1,670
0.987	804.55	804.89	1,670
1.000	805.08	806.07	1,670
1.090	811.69	812.32	1,670
1.176	815.97	816.02	1,670
1.267	819.15	819.13	1,670
1.317	819.97	820.00	1,670
1.358	820.22	820.26	1,670
1.450	820.37	820.41	1,670
1.495	823.73	823.72	1,670
1.530	825.58	825.68	1,670
1.622	825.97	826.09	1,670
1.727	828.31	828.31	1,670
1.818	836.47	836.65	1,670

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

FLOOD DELINEATION STUDY OF

BENDER WASH & BENDER WASH NORTH TRIBUTARY F.C.D. CONTRACT NO. 99-18 GILA BEND ADMP

LEGEND

100-YR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY

EXISTING APPROXIMATE FLOODPLAIN BOUNDARY

HYDRAULIC BASE LINE & RIVER MILE — 2.0

CROSS SECTION — FP=100 Yr WSEL, FW=Floodway WSEL, Q=100 Yr Flow — 5.519

ELEVATION REFERENCE MARK — ERM26

BASE FLOOD ELEVATIONS — 1770

ZONE DESIGNATIONS — ZONE AE

SECTION LINE

ELEVATION REFERENCE MARKS

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

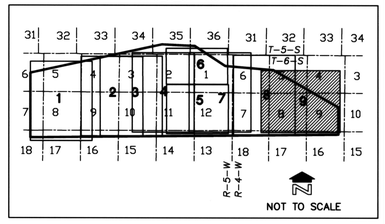
I.D. NUM. ELEV. (FT) DESCRIPTION/LOCATION

ERM # 10: ERM EL = 806.43
This station is located 2.6 miles east along State Highway 84 from the Southern Pacific Company Railroad Station at Gila Bend about 0.3 miles east of a ranch house, 50 feet north of the centerline of the highway, 1 foot north of the highway boundary line, and about 1 foot above the surface of the highway; set in the top of a concrete post projecting 3 inches above ground. The mark is a brass cap stamped "U.S. Coast & Geodetic Survey A84".

ERM#12 EL = 819.24
This station is located 2.5 miles southeast on State Highway 84 from the junction of U.S. Highway 80, 1.0 miles east of Gila Bend, to a gate in right-of-way fence, pass thru gate and go 0.2 miles southerly to the proposed Interstate Route, thence 0.5 miles on the proposed route, 70.19 feet north of F.M. 2, 52.85 feet southwest of R.M.I., 4 feet south of a metal witness post with sign, set in a cylindrical concrete post projecting 4 inches. The mark is a brass cap stamped "Coast & Geodetic Survey GIANT".

ERM #38 EL=786.03
ADOT Brass Cap marked "786.19" on headwall on the north side of west bound Interstate 8, 0.8 miles west of milepost 119.
Section 5, T 6 S, R 4 W.

INDEX MAP



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15594 MARK T. GAVAN 10/31/03 ARIZONA, U.S.A.

	BY	DATE	
DESIGN	LAV	10/01	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
DESIGN CHK.	FCDMC	10/01	RECOMMENDED BY: DATE
PLANS	KLH	10/01	APPROVED BY: DATE
PLANS CHK.	LAV	10/01	CHIEF ENGINEER AND GENERAL MANAGER
SUBMITTED BY: DATE:			SHEET 9 OF 9