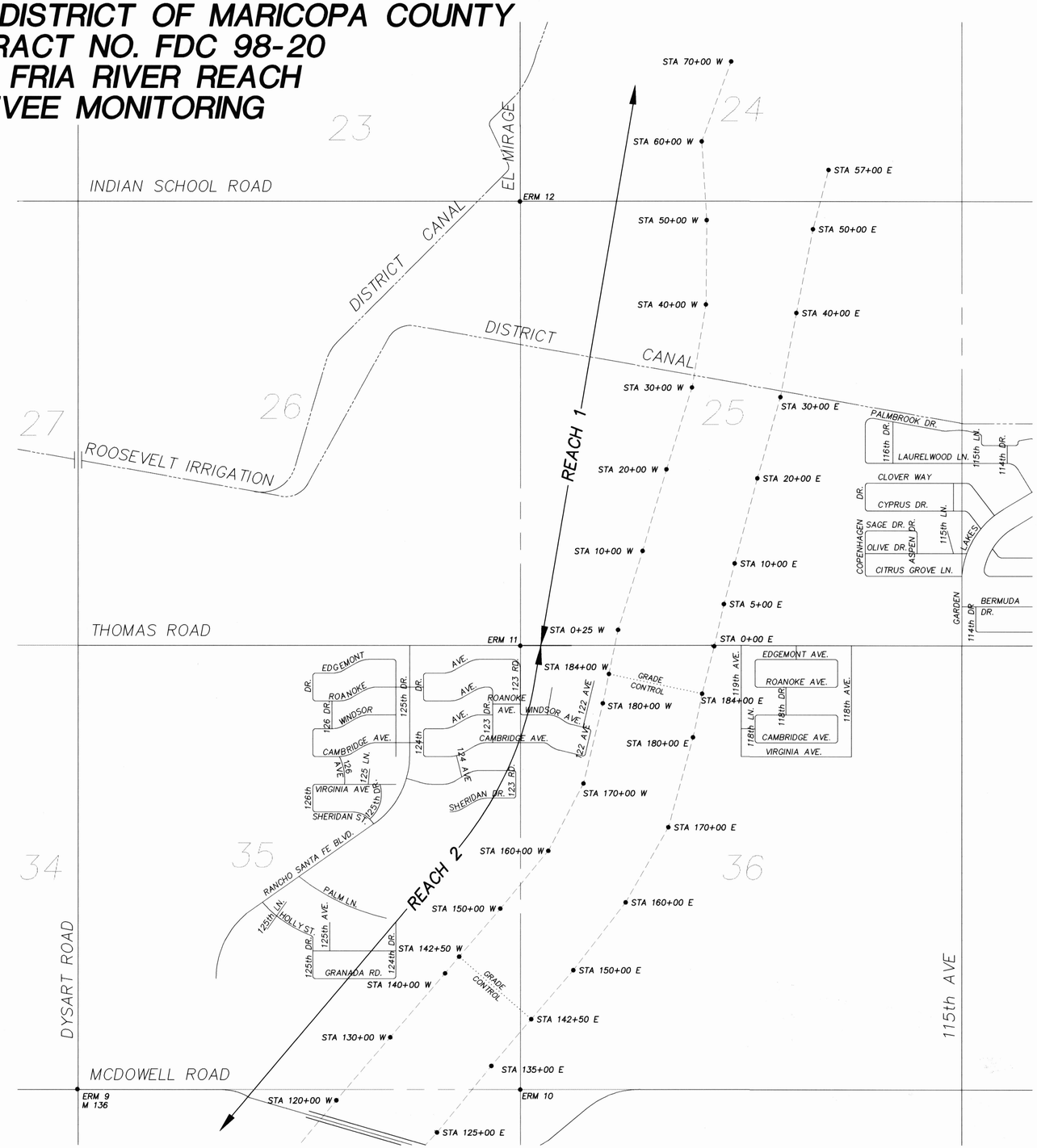
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH
LEVEE MONITORING

	NAD27		NAD83		
POINT	NORTH	EAST	NORTH	EAST	ELEV
M122	912348.717	381318.629	912405.26	581096.87	1038.120
M121	912377.188	376077.728	912433.73	575855.94	1026.710
M136	896667.845	370824.543	896724.32	570602.74	994.150
ERM12	907169.947	376115.437	907226.47	575893.65	1016.080
ERM13	909773.609	376096.170	909830.14	575874.39	1025.350
120+00W	896394.915	373703.130	896451.39	573481.34	988.742
130+00W	897138.721	374342.422	897195.20	574120.63	991.252
140+00W	897896.030	374991.442	897952.51	574769.65	993.773
142+50W	898091.631	375160.060	898148.11	574938.27	993.827
150+00W	898659.432	375647.859	898715.92	575426.07	995.663
160+00W	899340.784	376217.669	899397.27	575995.88	997.845
170+00W	900137.220	376636.092	900193.71	576414.31	1000.00
180+00W	901082.302	376866.146	901138.80	576644.36	1002.197
184+00W	901429.311	376939.289	901485.81	576717.51	1003.197
0+25W	901951.767	377047.119	902008.26	576825.34	1005.314
10+00W	902882.830	377339.039	902939.33	577117.26	1006.029
20+00W	903845.754	377622.226	903902.26	577400.45	1007.275
30+00W	904812.695	377925.185	904869.20	577703.41	1010.508
40+00W	905792.784	378090.946	905849.30	577869.17	1011.993
50+00W	906789.604	378099.971	906846.12	577878.19	1014.891
60+00W	907718.909	378040.267	907775.43	577818.49	1015.244
70+00W	908661.969	378389.916	908718.50	578168.14	1016.058
125+00E	896014.118	374897.168	896070.59	574675.38	990.679
135+00E	896798.947	375542.086	896855.42	575320.30	992.781
142+50E	897352.616	376015.352	897409.09	575793.57	993.715
150+00E	897931.967	376516.643	897988.45	576294.86	996.284
160+00E	898732.153	377138.018	898788.64	576916.24	998.542
170+00E	899618.130	377645.332	899674.62	577423.55	1000.283
180+00E	900680.951	377937.170	900737.44	577715.39	1002.968
184+00E	901195.305	378045.484	901251.80	577823.71	1003.348
0+00E	901756.986	378188.727	901813.48	577966.95	1004.340
5+00E	902255.288	378303.691	902311.79	578081.92	1005.446
10+00E	902734.475	378431.639	902790.98	578209.86	1006.323
20+00E	903742.598	378699.713	903799.10	578477.94	1008.527
30+00E	904702.435	378974.154	904758.94	578752.38	1010.073
40+00E	905696.421	379164.214	905752.93	578942.44	1012.874
50+00E	906686.070	379362.054	906742.59	579140.28	1014.462
57+00E	907385.765	379547.604	907442.29	579325.83	1015.781



NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. TO OBTAIN NAVD 88 ELEVATIONS, ADD 2.061 FEET.

LEVEE STATIONING TAKEN FROM AS-BUILT PLANS 1985

CENTRAL FILES
DRAWER # 319

Agua Fria River
Reaches 1,2, and 3
Levee Monitoring
FCD 98-20 109
JJT

S:\298015\PHASE2\COVER_2.dwg Tue Apr 06 13:19:01 1999

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2, & 3
LEVEE MONITORING

Sheet Title: COVER SHEET
MCDOWELL RD. TO NORTH OF INDIAN SCHOOL RD.

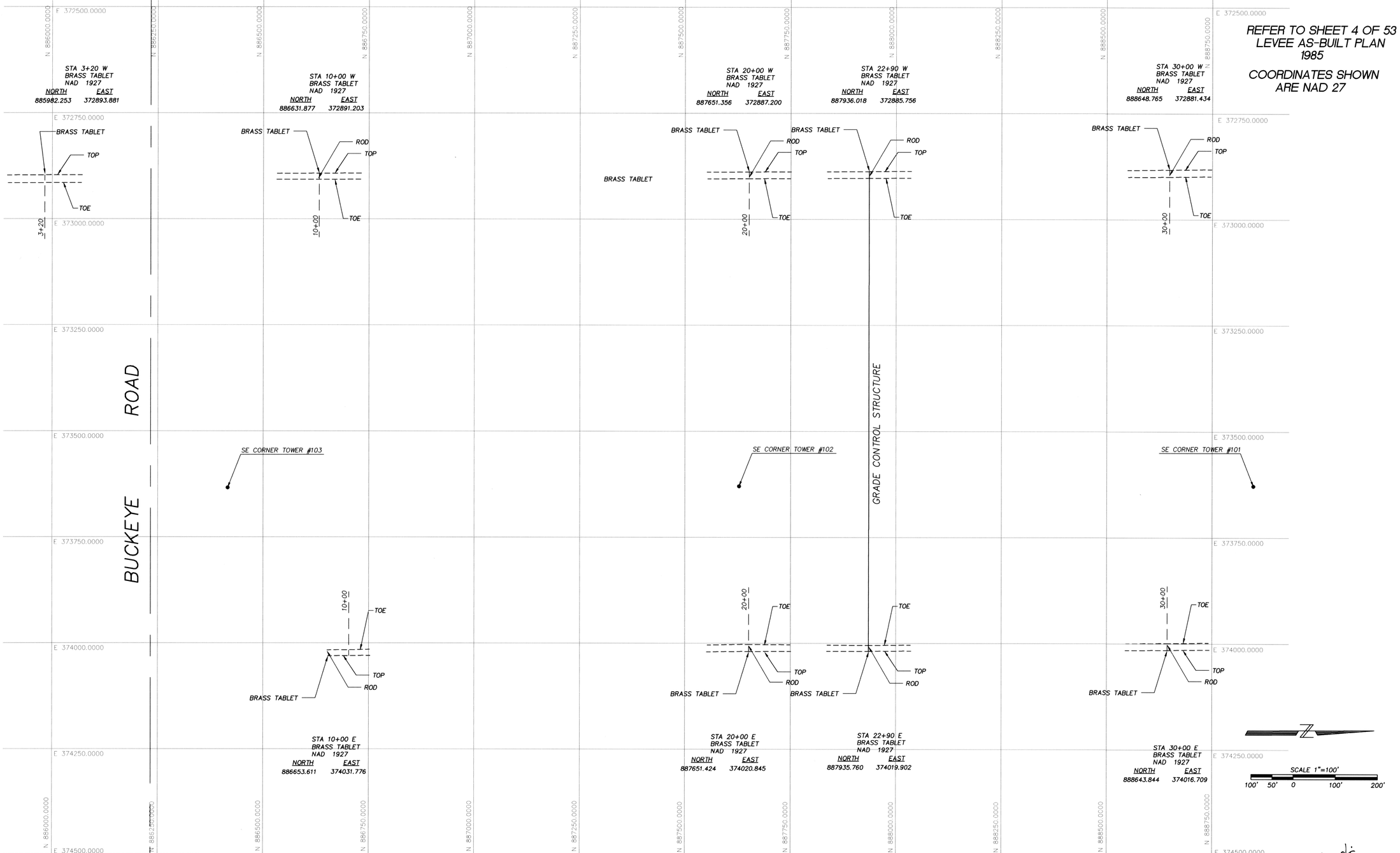
No.	Date	Item

Revisions

Scale
Job No. 298015A002
Date 4-99
Drawn By FRB
Checked By RKL

REGISTERED LAND SURVEYOR 15883 ROBERT K. LANDIS ARIZONA, U.S.A. 4/8/99

Sheet 1 Of 19



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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACHS 12 & 3
LEVEE MONITORING
Project

EAST & WEST LEVEES
STA 3+20 - 30+00
PLAN SHEET
Sheet Title

No.	Date	Item

Revisions

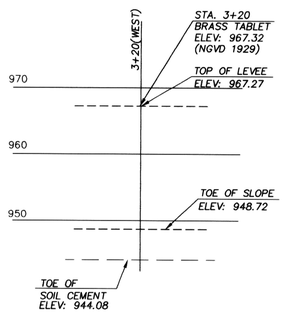
Scale
Job No. 298016A001
Date 1-99
Drawn By FRB
Checked By RKL

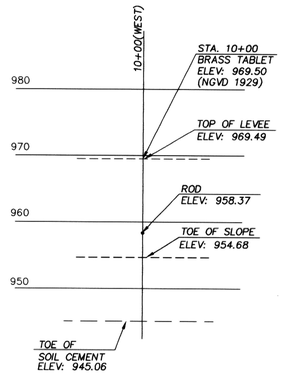
REGISTERED LAND SURVEYOR
15883
ROBERT K. LANDIS
1/8/99
ARIZONA, U.S.A.

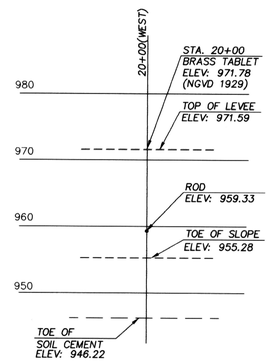
Sheet 2
Of 14

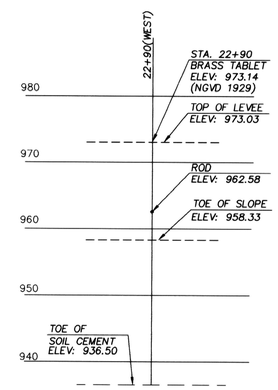
S:\298016\PHASE2\04002_1.dwg Tue Apr 06 13:27:36 1999

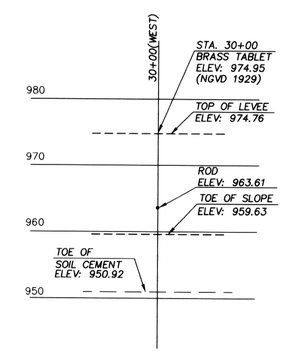
REFER TO SHEET 9 OF 53 (WEST)
LEVEE AS-BUILT PLAN
1985
TOE OF SOIL CEMENT ELEVATIONS
WHERE COMPUTED FROM AS-BUILT PLANS

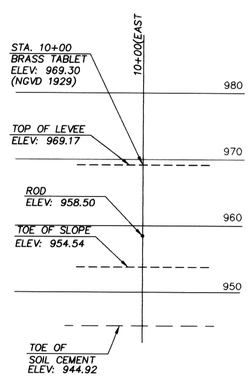


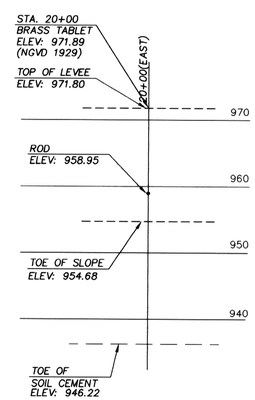


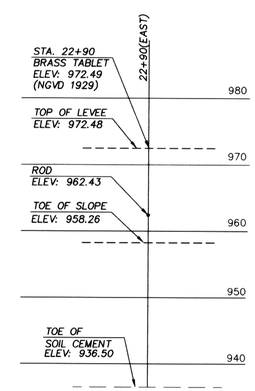


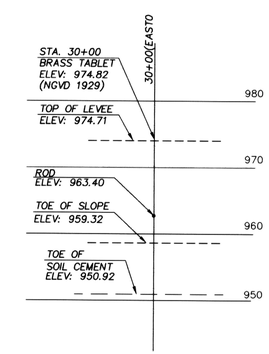












REFER TO SHEET 7 OF 53 (EAST)
LEVEE AS-BUILT PLAN
1985
TOE OF SOIL CEMENT ELEVATIONS
WHERE COMPUTED FROM AS-BUILT PLANS

VERTICAL SCALE 1"= 10'

S:\298016\PhASE2\6A002_1.dwg Tue Mar 30 13:10:33 1999

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACHS 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 3+20 - 30+00
CROSS SECTIONS

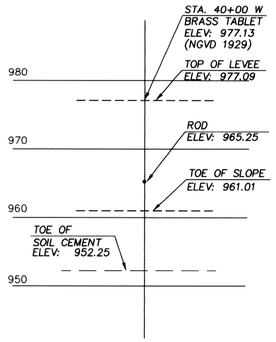
No.	Date	Item

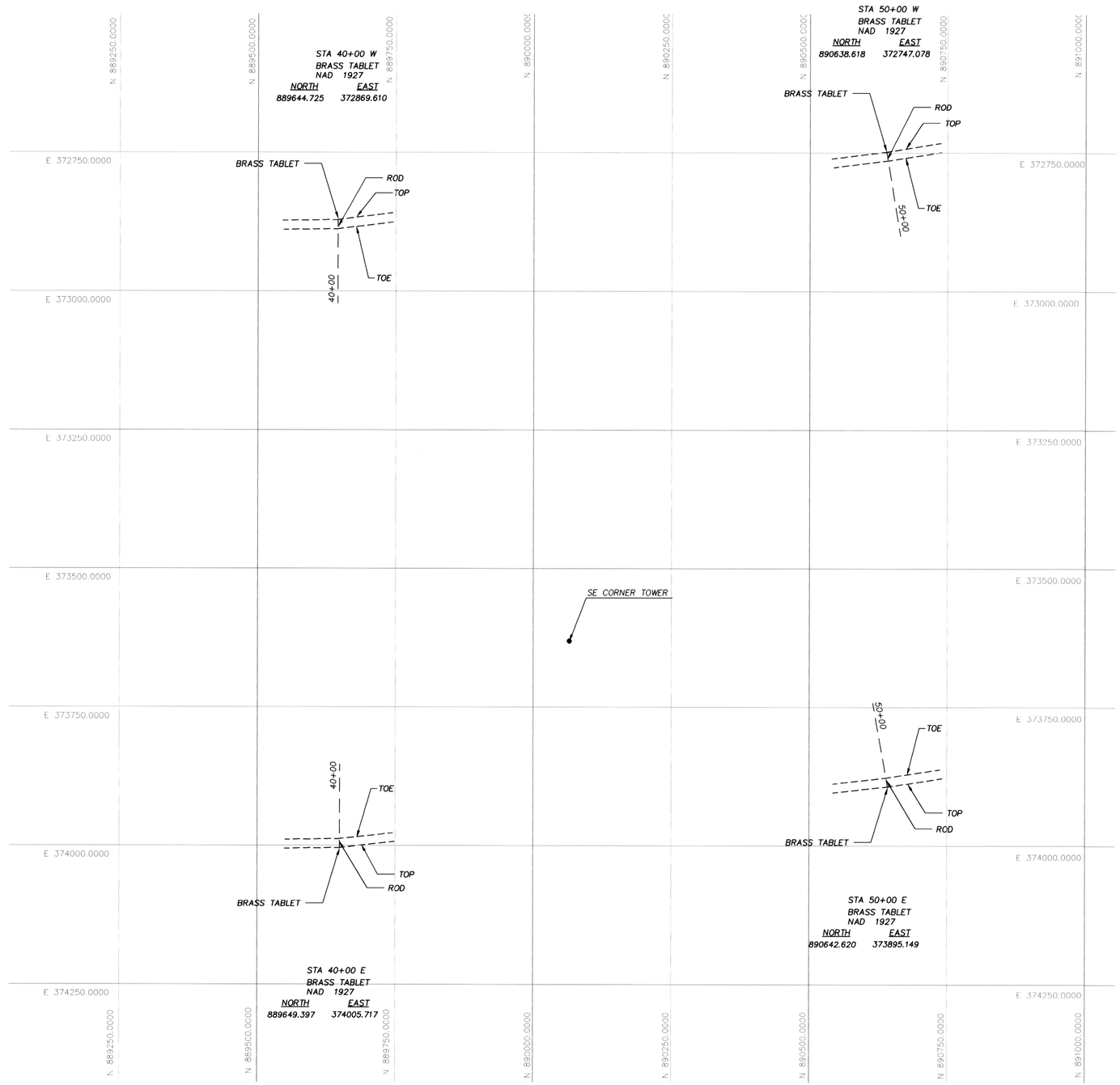
Revisions

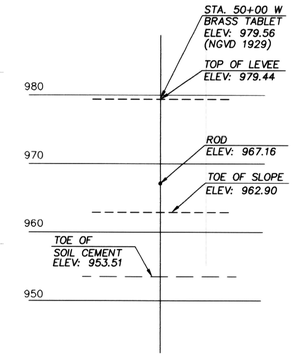
Scale
Job No. 298016A001
Date 1-99
Drawn By FRB
Checked By RKL

Robert K. Landis
REGISTERED PROFESSIONAL ENGINEER
15883
ROBERT K. LANDIS
ARIZONA, U.S.A.
4/1/99

Sheet 3
Of 14







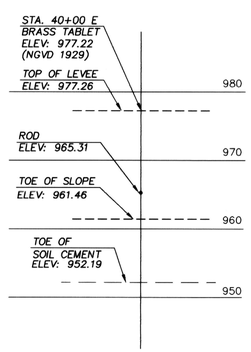
PLAN: REFER TO SHEET 5 OF 53

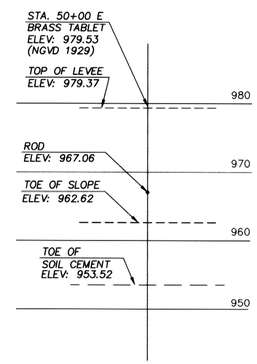
PROFILE: REFER TO SHEET 7 OF 53 (WEST)
REFER TO SHEET 9 OF 53 (EAST)

LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WHERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27





SCALE 1"=100'

100' 50' 0 100' 200'

VERTICAL SCALE 1"= 10'

S:\298016\PHASE2\6A002_1.dwg Tue Mar 30 13:44:31 1999

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACHS 1, 2 & 3
LEVEE MONITORING

Project

EAST & WEST LEVEES
STA 40+00 - 50+00
CROSS SECTION AND PLAN SHEET

Sheet Title

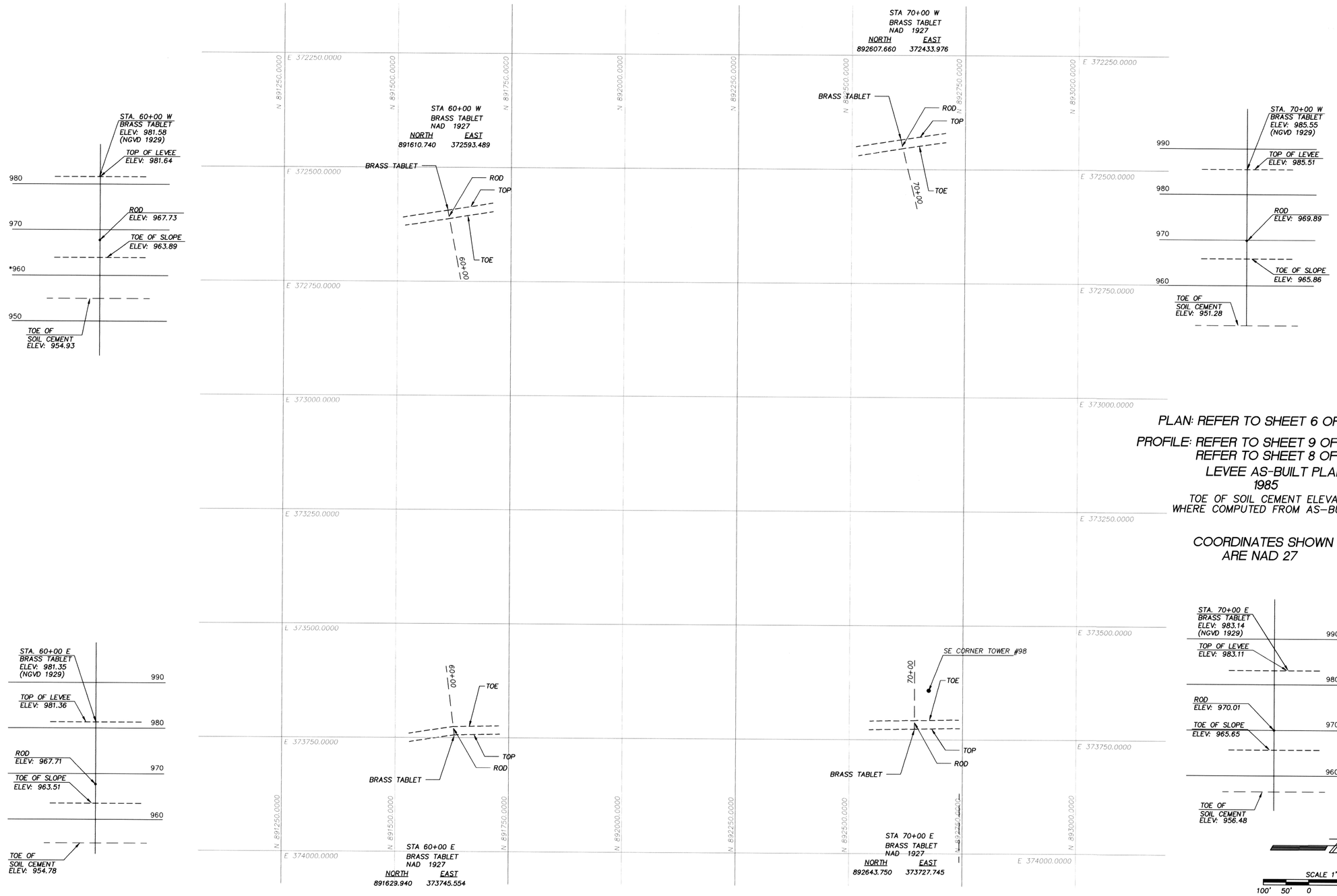
No.	Date	Item

Revisions

Scale
Job No. 298016A001
Date 1-99
Drawn By FRB
Checked By RKL

REGISTERED LAND SURVEYOR
ROBERT K. LANDIS
No. 13983
4/1/99
ARIZONA, U.S.A.

Sheet 4
Of 14



PLAN: REFER TO SHEET 6 OF 53

PROFILE: REFER TO SHEET 9 OF 53 (WEST)
REFER TO SHEET 8 OF 53 (EAST)

LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WHERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27

S:\298016\PHASE2\6A002_1.dwg Tue Mar 30 13:45:21 1999

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACHS 1, 2 & 3
LEVEE MONITORING
Project

EAST & WEST LEVEES
STA 60+00 - 70+00
CROSS SECTION AND PLAN SHEET
Sheet Title

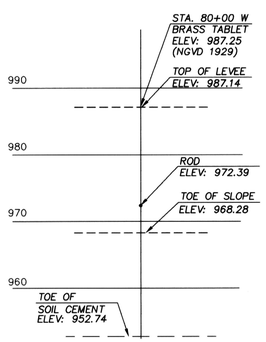
No.	Date	Item

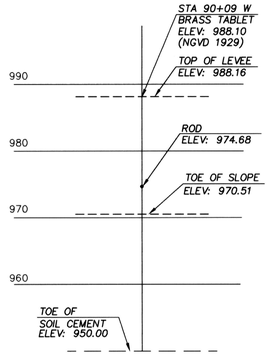
Revisions

Scale
Job No. 298016A001
Date 1-99
Drawn By FRB
Checked By RKL

Robert K. Landis
15883 ROBERT K. LANDIS Date Signed 4/1/99 ARIZONA, U.S.A.

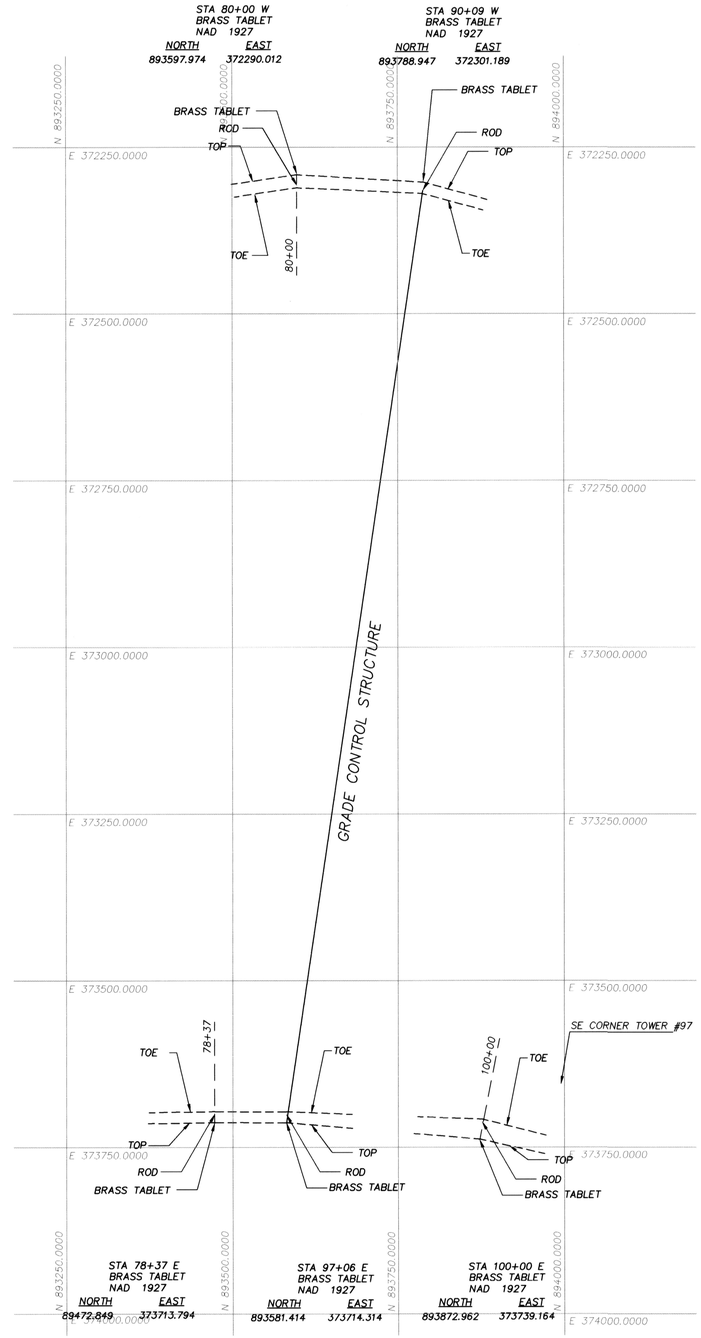
Sheet 5
Of 14



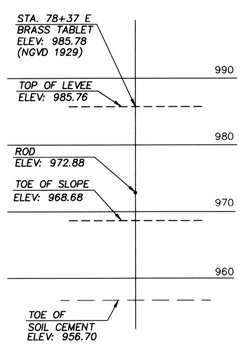


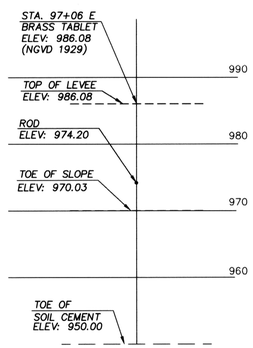
PROFILE: REFER TO SHEET 10 OF 53 (WEST)
REFER TO SHEET 8 OF 53 (EAST)

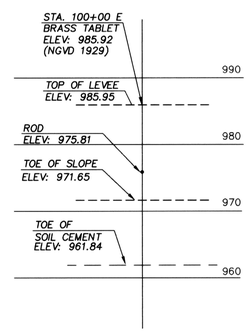
PROFILE: REFER TO SHEET 18 OF 43 (WEST)
REFER TO SHEET 17 OF 43 (EAST)
LEVEE AS-BUILT PLAN
1985
TOE OF SOIL CEMENT ELEVATIONS
WHERE COMPUTED FROM AS-BUILT PLANS



PLAN: REFER TO SHEET 6 OF 53
REFER TO SHEET 10 OF 43
LEVEE AS-BUILT PLAN
1985







SCALE 1"=100'
100' 50' 0 100' 200'
VERTICAL SCALE 1"= 10'

S:\298016\PHASE2\6A002_1.dwg Tue Apr 06 13:28:16 1999

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACHS 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 79+85 - 100+00
CROSS SECTION AND PLAN SHEET

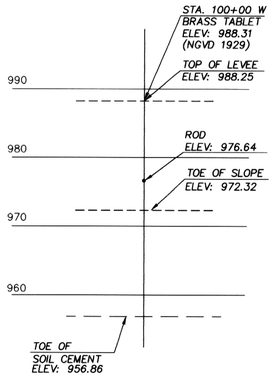
No.	Date	Item

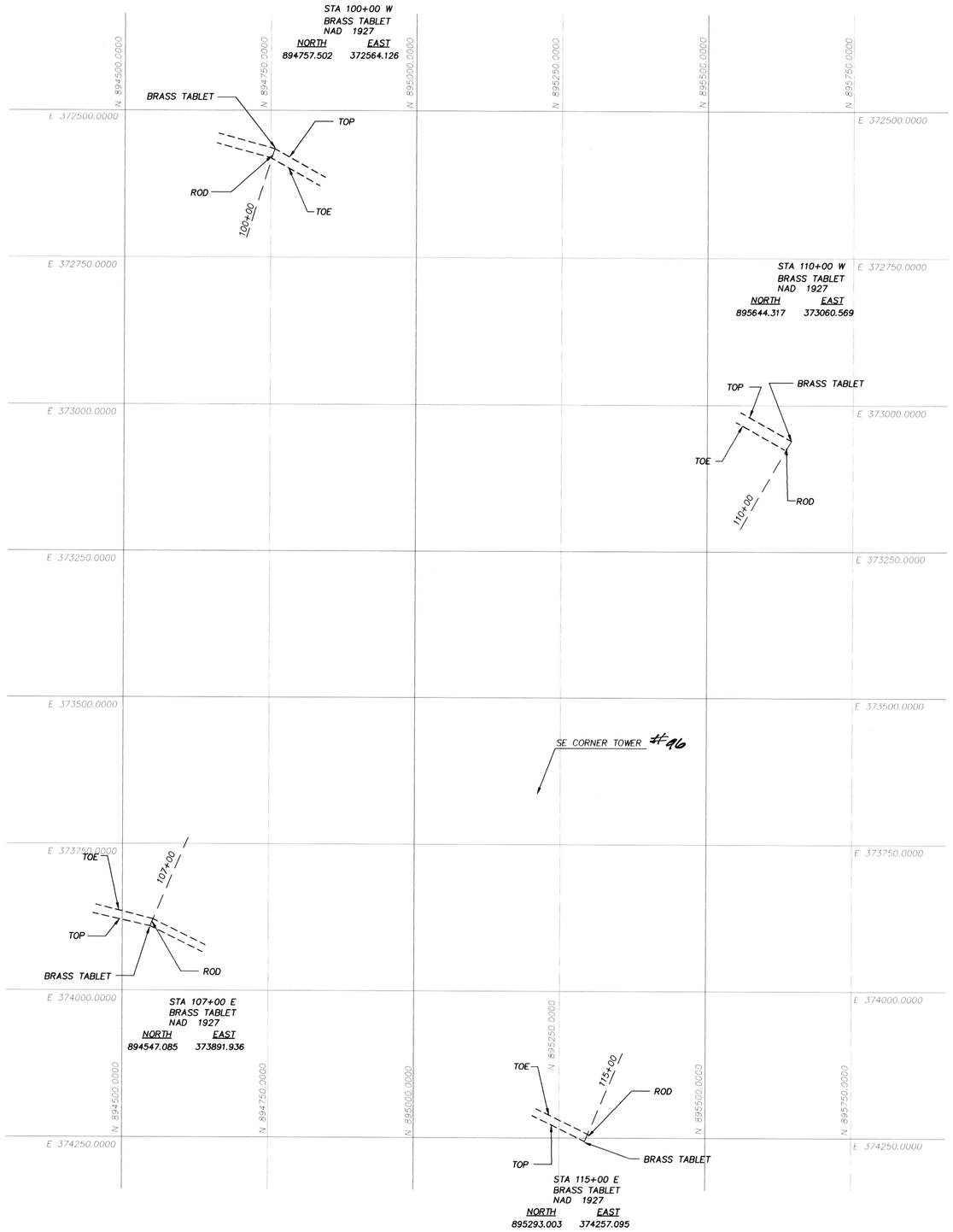
Revisions

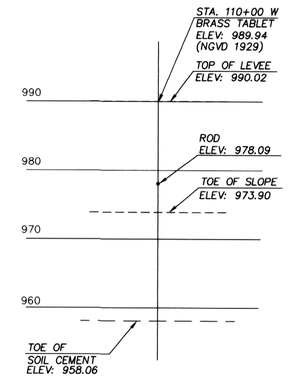
Scale
Job No. 298016A001
Date 1-99
Drawn By FRB
Checked By RKL

REGISTERED LANDSCAPE ARCHITECT
15883
ROBERT K. LANDIS
ARIZONA, U.S.A.
4/8/99

Sheet 6
Of 14







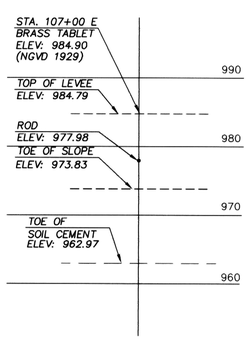
PLAN: REFER TO SHEET 11 OF 43

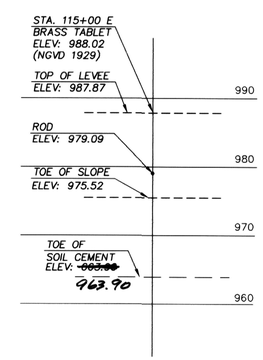
PROFILE: REFER TO SHEET 18 OF 43 (WEST)
REFER TO SHEET 17 OF 43 (EAST)

LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WHERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27





SCALE 1"=100'

100' 50' 0 100' 200'

VERTICAL SCALE 1"= 10'

S:\298016\PHASE2\6A002_1.dwg Tue Mar 30 13:11:40 1999

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Project
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACHS 1,2 & 3
LEVEE MONITORING

Sheet Title
EAST & WEST LEVEES
STA 100+00 - 115+00
CROSS SECTION AND PLAN SHEET

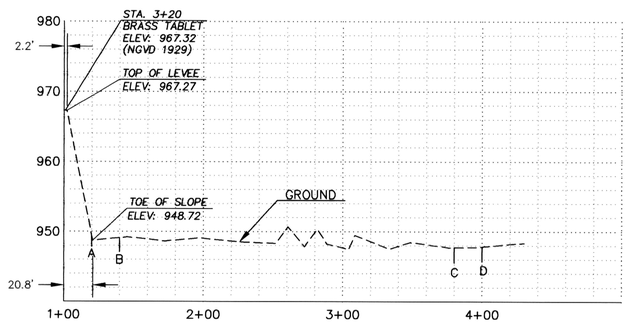
No.	Date	Item

Revisions

Scale
Job No. 298016A001
Date 1-99
Drawn By FRB
Checked By RKL

Robert K. Landis
REGISTERED PROFESSIONAL ENGINEER
ROBERT K. LANDIS
4/1/99
ARIZONA, U.S.A.

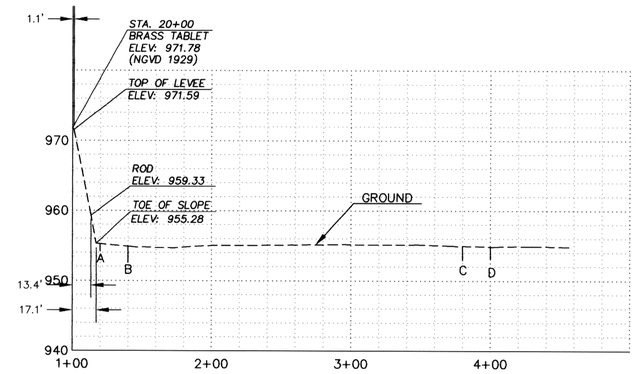
Sheet 7
Of 14



STATION 3+20 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	949.50
B	40.0'	949.10
C	280.0'	947.77
D	300.0'	953.51

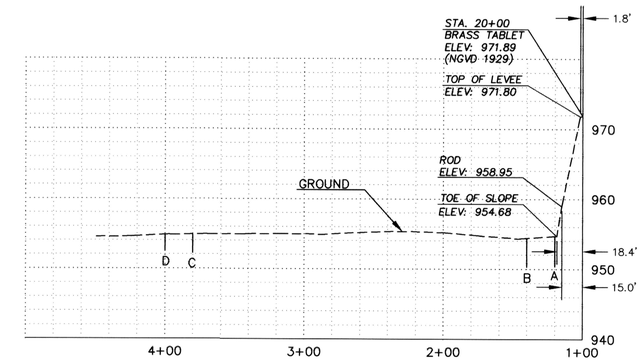
STA 3+20 WEST



STATION 20+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	955.23
B	40.0'	954.86
C	280.0'	954.94
D	300.0'	954.86

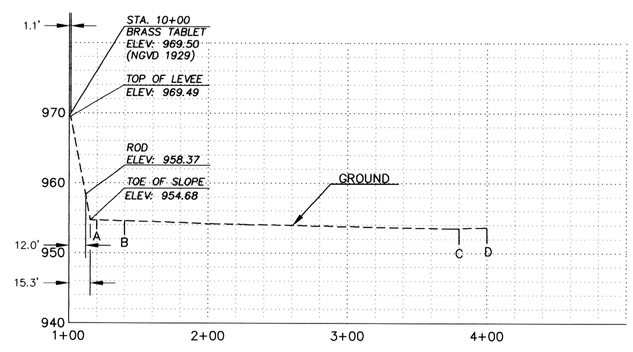
STA 20+00 WEST



STATION 20+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	954.66
B	40.0'	954.39
C	280.0'	954.85
D	300.0'	954.75

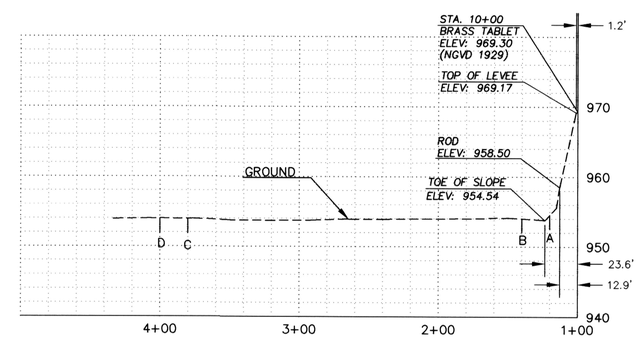
STA 20+00 EAST



STATION 10+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	954.66
B	40.0'	954.56
C	280.0'	953.54
D	300.0'	953.51

STA 10+00 WEST



STATION 10+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	954.54
B	40.0'	953.96
C	280.0'	953.92
D	300.0'	953.94

STA 10+00 EAST

SCALE = HORIZ 1"= 50'
VERT 1"= 100'

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Project

EAST & WEST LEVEES
STA 3+20 - 20+00
PROFILE SHEET

Sheet Title

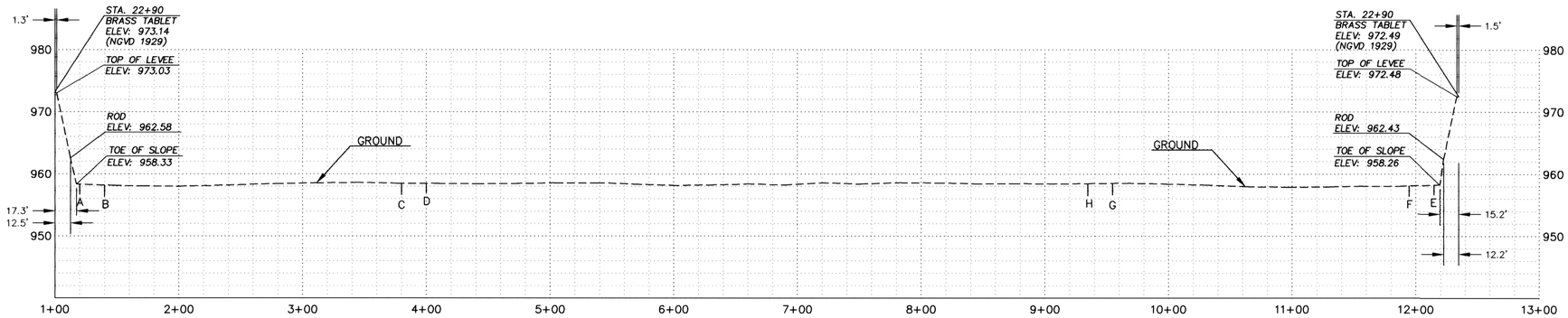
No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A001
Date	3-99
Drawn By	FRB
Checked By	RKL

REGISTERED LAND SURVEYOR
CERTIFICATE NO. 15883
ROBERT K. LANDIS
Date Signed 4/1/99
ARIZONA, U.S.A.

Sheet 8
Of 14



STATION 22+90 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	958.31
B	40.0'	958.18
C	280.0'	958.48
D	300.0'	958.46

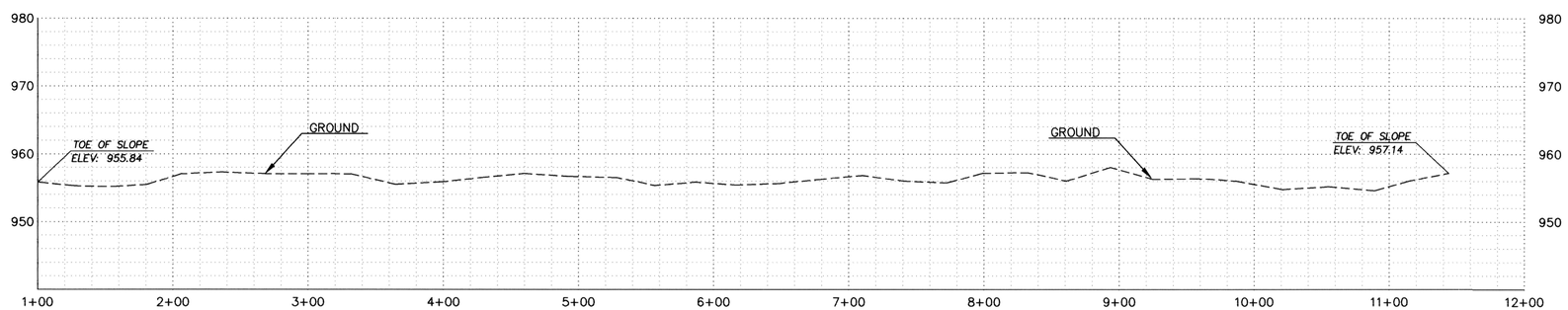
STA 22+90 WEST

STATION 22+90 EAST

PNT.	DIST FROM TABLET	ELEV
E	20.0'	958.25
F	40.0'	958.10
G	280.0'	958.49
H	300.0'	958.45

STA 22+90 EAST

GRADE CONTROL STRUCTURE



GRADE AT 20' DOWN STREAM

SCALE = HORIZ 1"= 50'
VERT 1"= 100'

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING
Project

GRADE CONTROL STRUCTURE
PROFILE SHEET
Sheet Title

No. Date Item
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Job No.	298016A001
Date	3-99
Drawn By	FRB
Checked By	RKL

Robert K. Landis
15883
ROBERT K. LANDIS
4/1/99
Date Signed
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Sheet 9
Of 14

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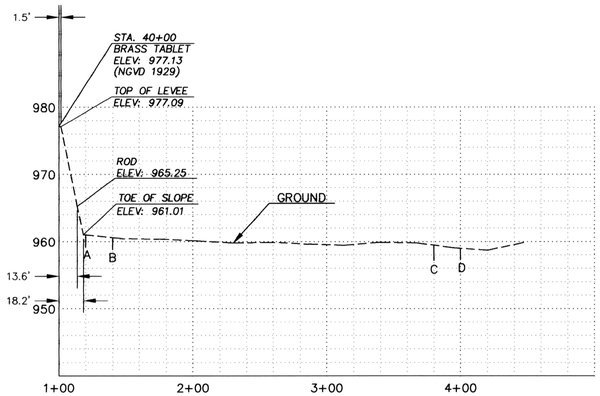
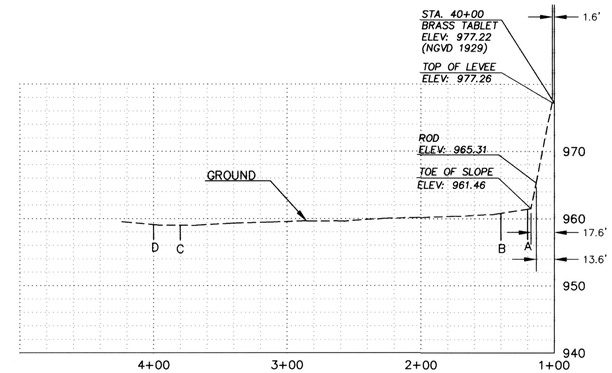


STATION 40+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	960.97
B	40.0'	960.56
C	280.0'	959.42
D	300.0'	958.94

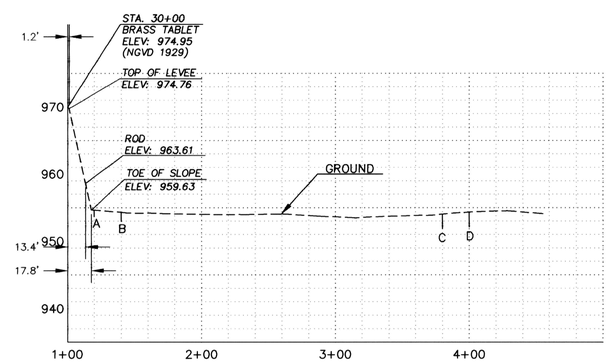
STA 40+00 WEST



STATION 40+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	961.39
B	40.0'	960.77
C	280.0'	958.98
D	300.0'	959.06

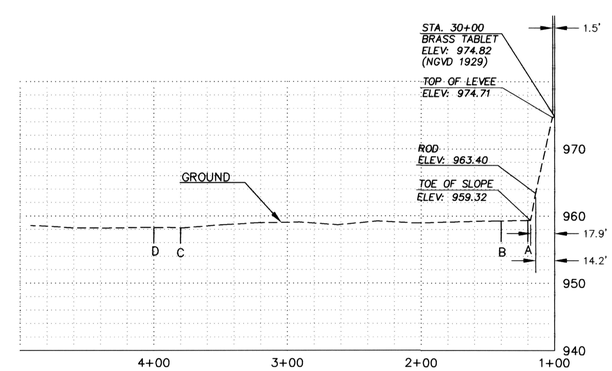
STA 40+00 EAST



STATION 30+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	959.59
B	40.0'	959.26
C	280.0'	959.00
D	300.0'	959.33

STA 30+00 WEST



STATION 30+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	959.32
B	40.0'	959.27
C	280.0'	958.24
D	300.0'	958.29

STA 30+00 EAST

SCALE = HORIZ 1"= 50'
VERT 1"= 100'

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 30+00 - 40+00
PROFILE SHEET

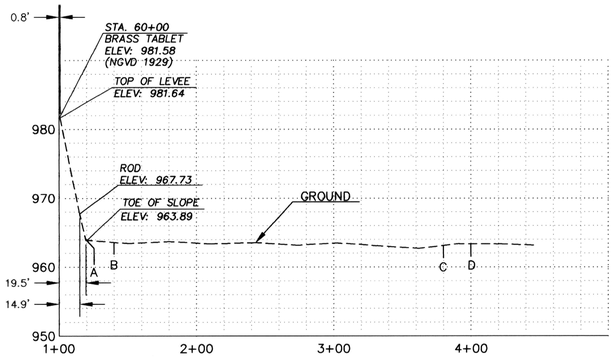
No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A001
Date	1-99
Drawn By	FRB
Checked By	RKL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 15883 ROBERT K. LANDIS ARIZONA, U.S.A. 4/1/99

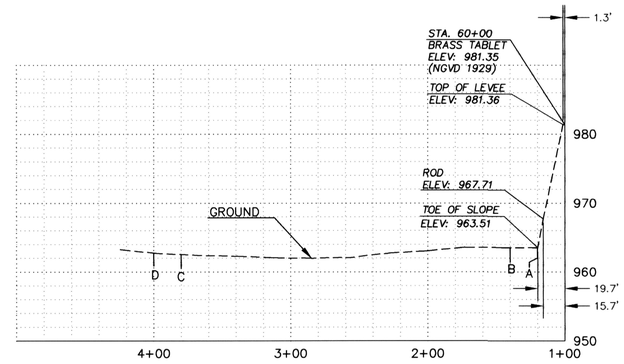
Sheet 10
Of 14



STATION 60+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	963.88
B	40.0'	963.58
C	280.0'	963.09
D	300.0'	963.36

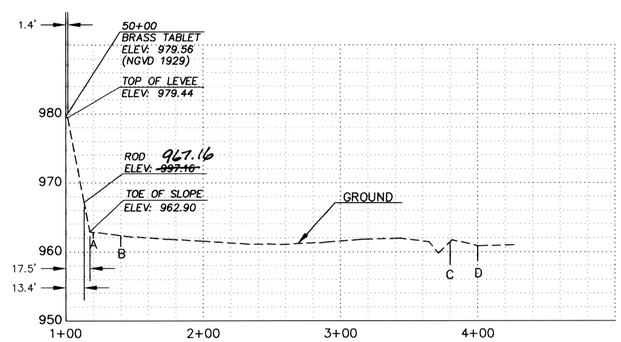
STA 60+00 WEST



STATION 60+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	963.51
B	40.0'	963.53
C	280.0'	962.51
D	300.0'	962.72

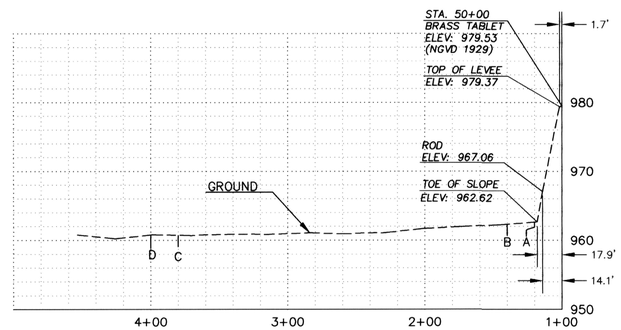
STA 60+00 EAST



STATION 50+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	962.84
B	40.0'	962.34
C	280.0'	961.41
D	300.0'	960.85

STA 50+00 WEST



STATION EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	962.59
B	40.0'	962.28
C	280.0'	960.74
D	300.0'	960.78

STA 50+00 EAST

SCALE = HORIZ 1"= 50'
VERT 1"= 100'

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CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 50+00 - 60+00
PROFILE SHEET

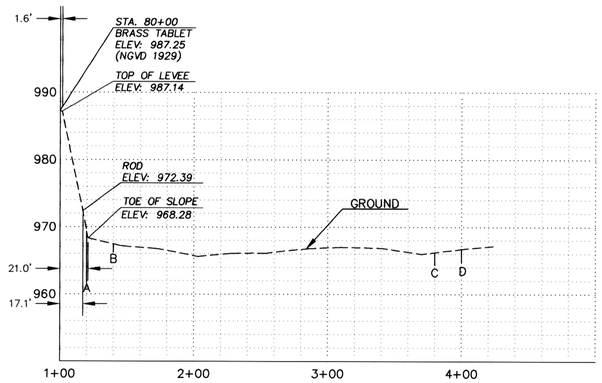
No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A001
Date	1-99
Drawn By	FRB
Checked By	RKL

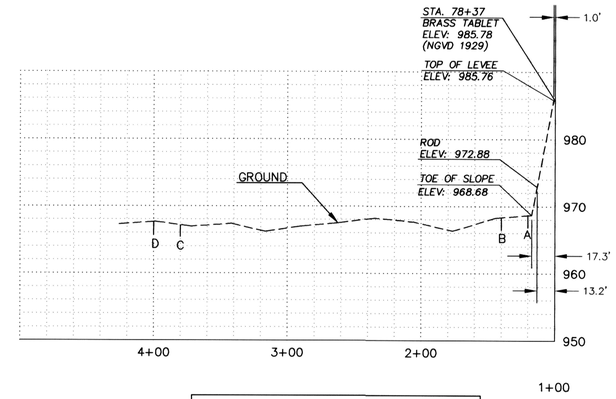
Robert K. Landis
REGISTERED PROFESSIONAL ENGINEER
15883
ROBERT K. LANDIS
4/1/99
ARIZONA, U.S.A.

Sheet 11 Of 14



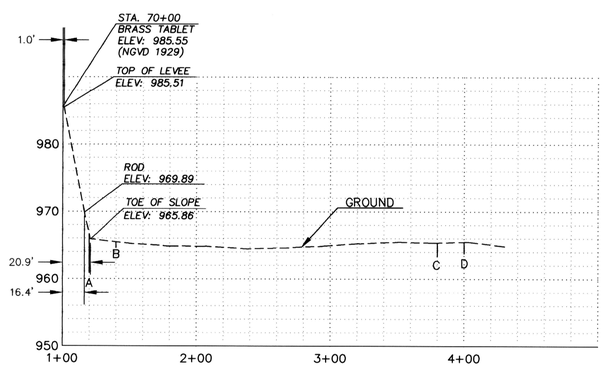
STATION 80+00 WEST		
PNT.	DIST FROM TABLET	ELEV
A	20.0'	969.29
B	40.0'	967.41
C	280.0'	966.19
D	300.0'	966.69

STA 80+00 WEST



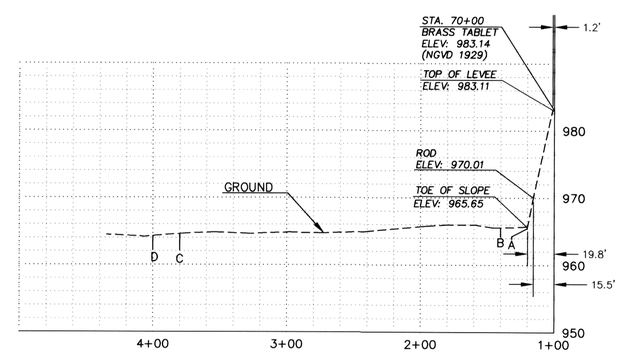
STATION 78+37 EAST		
PNT.	DIST FROM TABLET	ELEV
A	20.0'	968.64
B	40.0'	968.32
C	280.0'	967.14
D	300.0'	967.65

STA 78+37 EAST



STATION 70+00 WEST		
PNT.	DIST FROM TABLET	ELEV
A	20.0'	966.67
B	40.0'	965.44
C	280.0'	965.34
D	300.0'	965.46

STA 70+00 WEST



STATION 70+00 EAST		
PNT.	DIST FROM TABLET	ELEV
A	20.0'	965.65
B	40.0'	965.57
C	280.0'	964.58
D	300.0'	964.28

STA 70+00 EAST

SCALE = HORIZ 1"= 50'
VERT 1"= 100'

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CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 70+00 - 80+00
PROFILE SHEET

No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A001
Date	1-99
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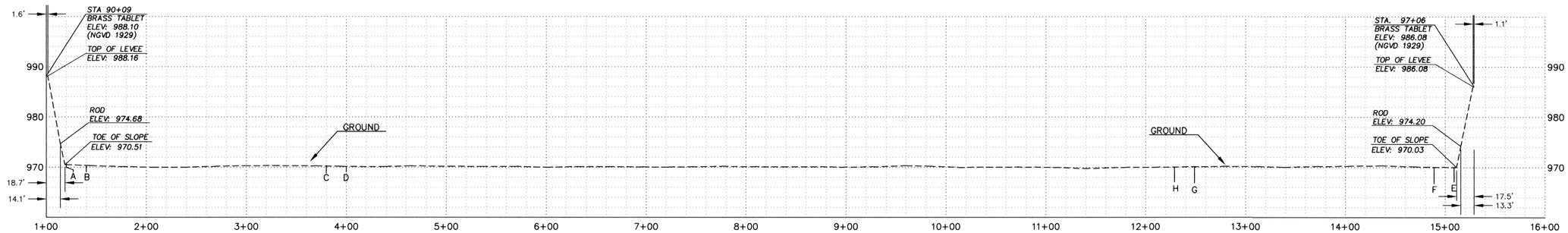
Checked By	RKL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 15883 ROBERT K. LANDIS Date Signed 4/1/99 ARIZONA, U.S.A.

Sheet 12 Of 14



STATION 90+09 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	970.50
B	40.0'	970.33
C	280.0'	970.23
D	300.0'	970.16

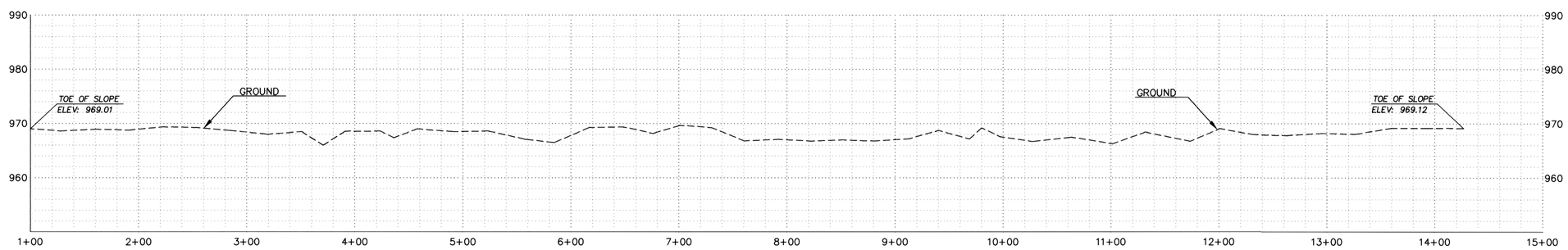
STA 90+09 WEST

STATION 97+06 EAST

PNT.	DIST FROM TABLET	ELEV
E	20.0'	970.03
F	40.0'	970.07
G	280.0'	970.11
H	300.0'	970.06

STA 97+06 EAST

GRADE CONTROL STRUCTURE



GRADE AT 20' DOWN STREAM

SCALE = HORIZ 1"= 50'
VERT 1"= 100'

S:\298016\PHASE2\PROFILE_1.dwg Thu Apr 01 11:04:38 1999

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: GRADE CONTROL STRUCTURE
PROFILE SHEET

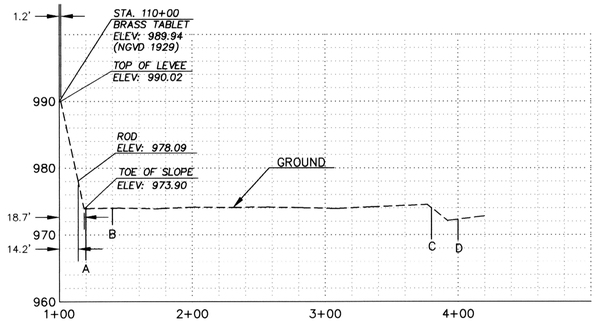
No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A001
Date	3-99
Drawn By	FRB
Checked By	RKL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 13883 ROBERT K. LANDIS DATE 4/1/99 ARIZONA, U.S.A.

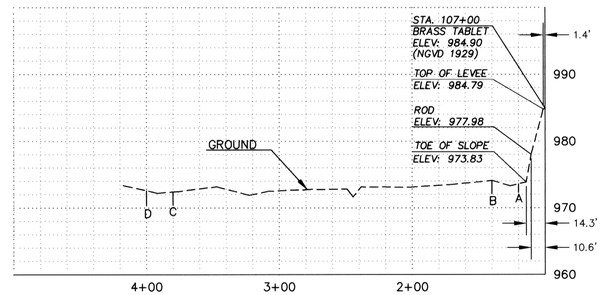
Sheet 13
Of 14



STATION 110+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	973.90
B	40.0'	973.97
C	280.0'	974.04
D	300.0'	972.28

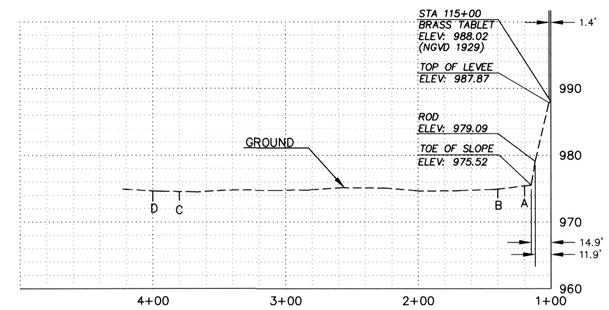
STA 110+00 WEST



STATION 107+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	973.57
B	40.0'	974.05
C	280.0'	972.38
D	300.0'	972.55

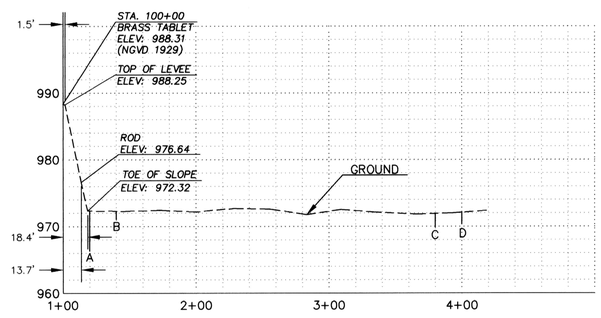
STA 107+00 EAST



STATION 115+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	975.40
B	40.0'	974.93
C	280.0'	974.55
D	300.0'	974.65

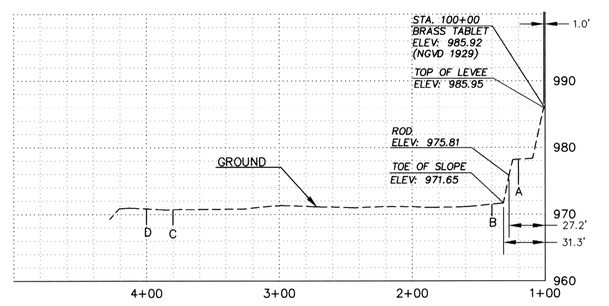
STA 115+00 EAST



STATION 100+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	972.32
B	40.0'	972.27
C	280.0'	971.89
D	300.0'	972.08

STA 100+00 WEST



STATION 100+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	978.21
B	40.0'	971.48
C	280.0'	970.71
D	300.0'	970.83

STA 100+00 EAST

SCALE = HORIZ 1"= 50'
VERT 1"= 100'

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CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 100+00 - 115+00
PROFILE SHEET

No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A001
Date	1-99
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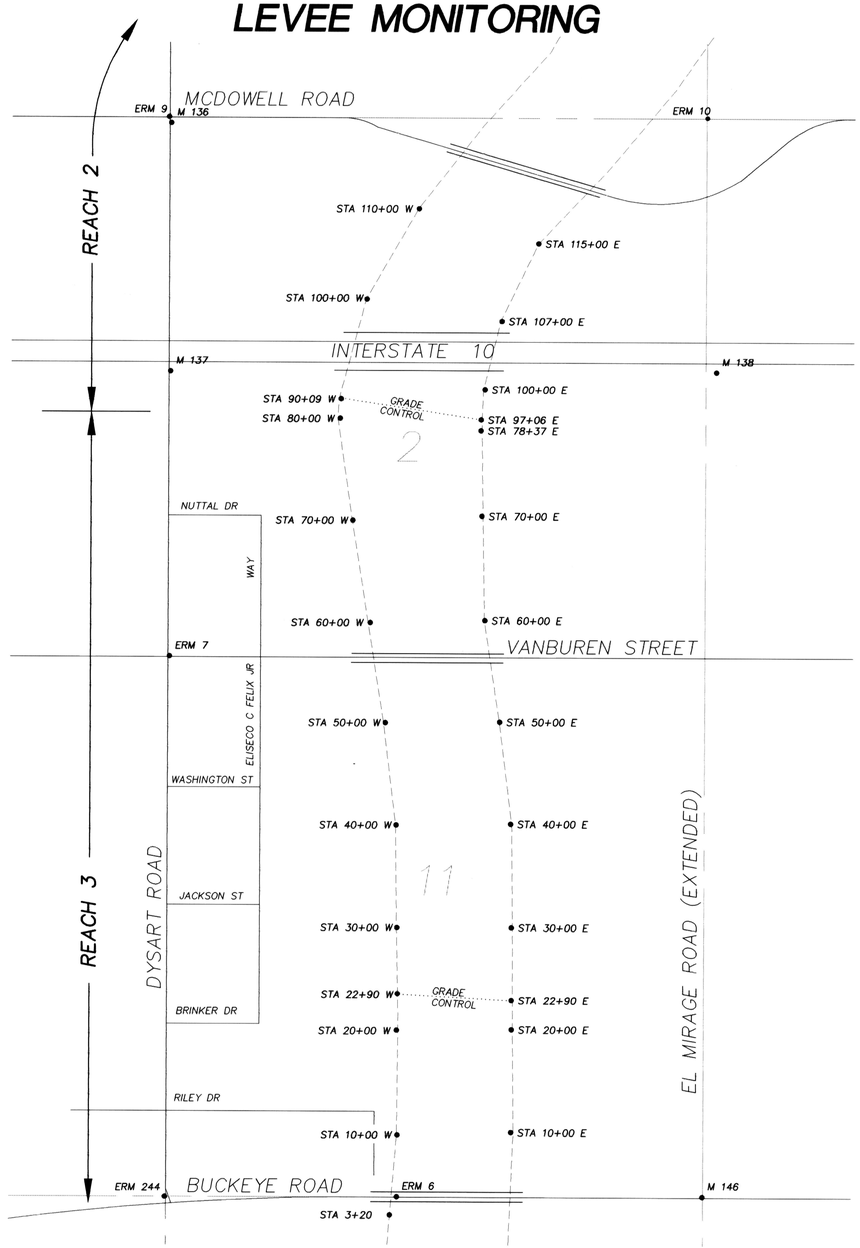
REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 15883 ROBERT K. LANDIS Date 4/8/99 ARIZONA, U.S.A.

Sheet 14 Of 14

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH
LEVEE MONITORING



NOTE: ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929. TO OBTAIN NAVD 88 ELEVATIONS, ADD 2.061 FEET.

LEVEE STATIONING TAKEN FROM AS-BUILT PLANS 1985

	NAD27		NAD83		
POINT	NORTH	EAST	NORTH	EAST	ELEV
ERM4	875472.83	370881.67	875529.215	570659.852	933.58
ERM5	880845.56	370894.37	880901.963	570672.561	944.24
ERM6	886052.02	372856.55	886108.447	572634.745	973.58
ERM7	891427.117	370753.897	891483.57	570532.09	982.26
ERM12	907169.947	376115.437	907226.47	575893.65	1016.08
ERM13	909773.609	376096.170	909830.14	575874.39	1025.35
ERM244	886136.350	370753.680	886192.78	570531.87	965.70
M136	896667.845	370824.543	896724.32	570602.74	994.15
M137	894060.746	370792.925	894117.21	570571.12	987.90
M138	893948.599	376036.332	894005.06	575814.55	979.14
M146	886123.089	376038.723	886179.52	575816.94	968.77
3+20W	885982.253	372893.881	886038.68	572672.08	967.32
10+00W	886631.877	372891.203	886688.31	572669.40	969.50
10+00E	886653.611	374031.776	886710.04	573809.98	969.30
20+00W	887651.356	372887.200	887707.79	572665.40	971.78
20+00E	887651.424	374020.845	887707.86	573799.05	971.89
22+90W	887936.018	372885.756	887992.46	572663.96	973.14
22+90E	887935.760	374019.902	887992.20	573798.11	972.49
30+00W	888648.765	372881.434	888705.21	572659.64	974.95
30+00E	888643.844	374016.709	888700.28	573794.92	974.82
40+00W	889644.725	372869.610	889701.17	572647.81	977.13
40+00E	889649.397	374005.717	889705.84	573783.92	977.22
50+00W	890638.618	372747.079	890695.07	572525.28	979.56
50+00E	890642.620	373895.149	890699.07	573673.35	979.53
60+00W	891610.740	372593.489	891667.19	572371.69	981.58
60+00E	891629.940	373745.554	891686.39	573523.76	981.35
70+00W	892607.660	372433.976	892664.12	572212.18	985.55
70+00E	892643.750	373727.745	892700.21	573505.95	983.14
78+37E	893472.849	373713.794	893529.31	573492.00	985.78
80+00W	893597.974	372290.012	893654.44	572068.21	987.25
90+09W	893788.947	372301.189	893845.41	572079.39	988.10
97+06E	893581.414	373714.314	893637.88	573492.52	986.08
100+00W	894757.502	372564.126	894813.97	572342.33	988.31
100+00E	893872.962	373739.164	893929.43	573517.37	985.92
107+00E	894547.085	373891.935	894603.55	573670.14	984.90
110+00W	895644.317	373060.569	895700.79	572838.77	989.94
115+00E	895292.976	374257.062	895349.45	574035.27	988.02

CENTRAL FILES
DRAWER # 11

Agua Fria River Levees
Monitoring
As Built 1,2,3
FCD 98-20
HSM 109

S:\298016\PHASE2\COVER.dwg Tue Mar 30 13:46:36 1999

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACHS 1, 2 & 3
LEVEE MONITORING

Sheet Title: COVER SHEET

No.	Date	Item

Revisions

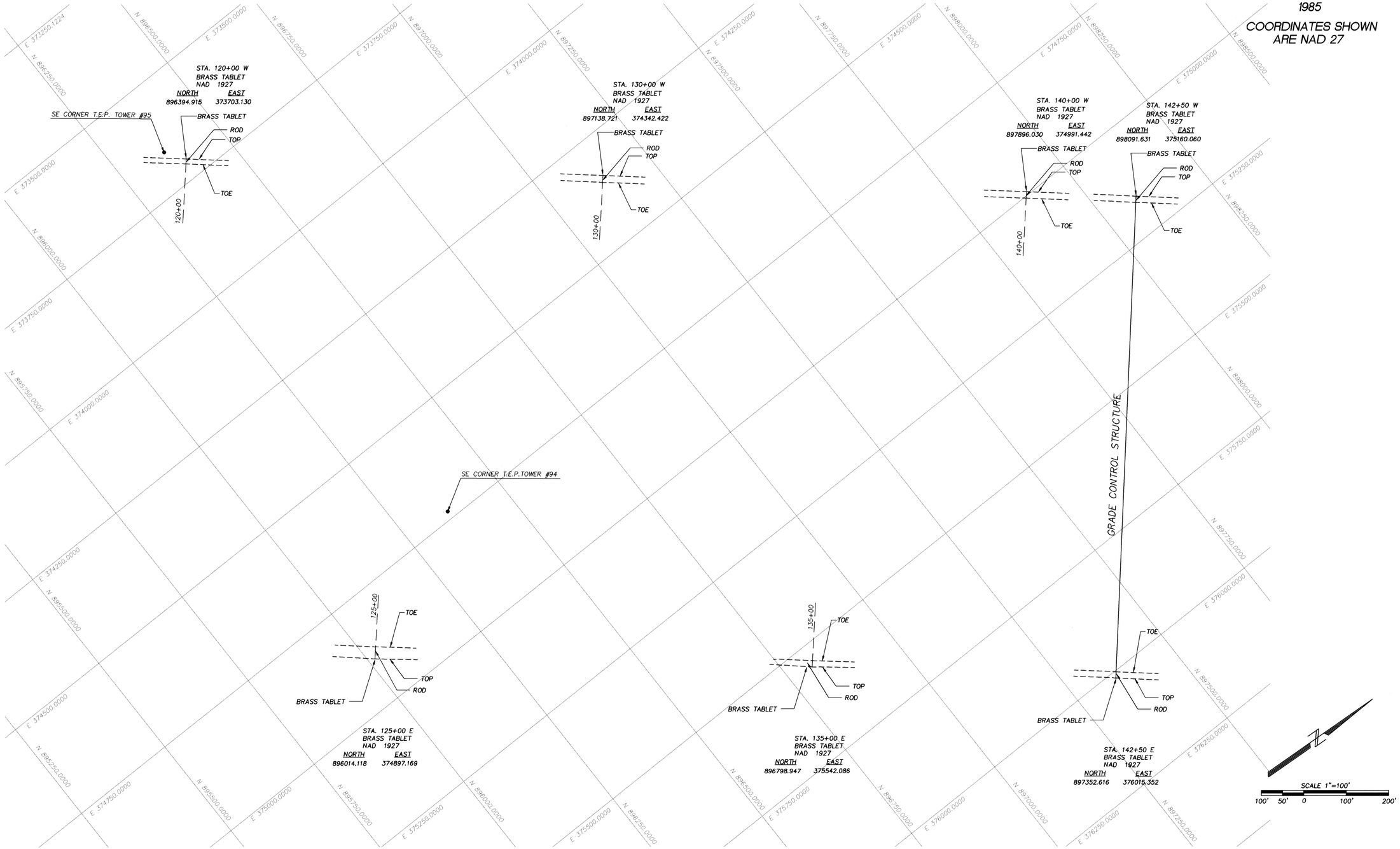
Scale
Job No. 298016A002
Date 3-99
Drawn By FRB
Checked By RKL

ROBERT K. LANDIS 15883 REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A. 4/1/99

Sheet 1
Of 14

REFER TO SHEET 14 OF 43
LEVEE AS-BUILT PLAN
1985

COORDINATES SHOWN
ARE NAD 27



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Project
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title
EAST & WEST LEVEES
STA 120+00 - 142+50
PLAN SHEET

No.	Date	Item

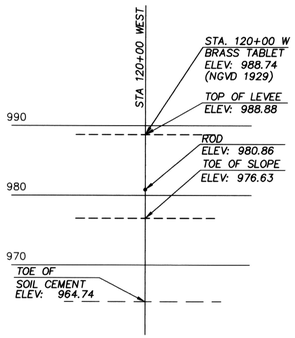
Revisions

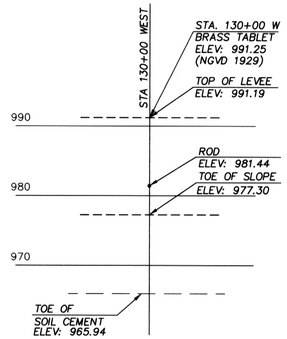
Scale
Job No. 298016A002
Date 4-99
Drawn By FRB
Checked By RKL

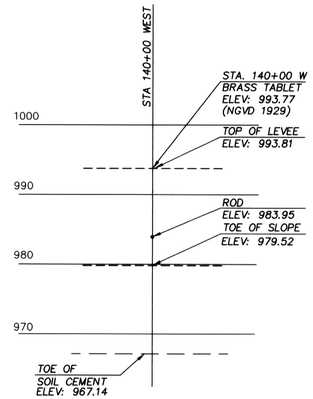
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
15883
ROBERT K. LANDIS
4/8/99
ARIZONA, U.S.A.

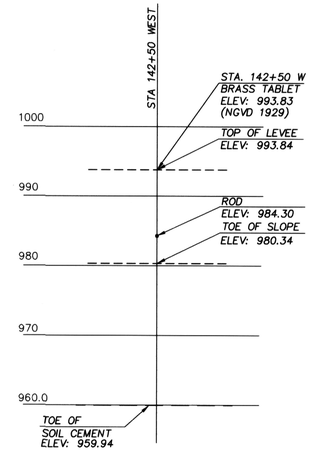
Sheet 2
Of 19

S:\298016\PHASE2\6A002_2.dwg Tue Apr 06 13:19:49 1999

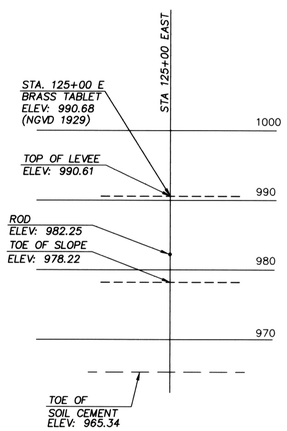


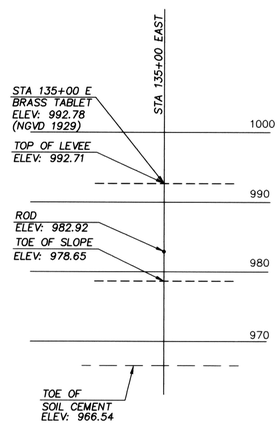


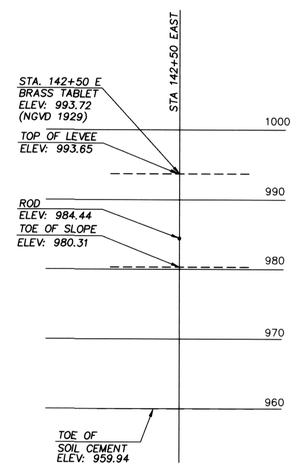




PROFILE: REFER TO SHEET 19 OF 43
PROFILE: REFER TO SHEET 20 OF 43
LEVEE AS-BUILT PLAN
1985
TOE OF SOIL CEMENT ELEVATIONS
WERE COMPUTED FROM AS-BUILT PLANS







VERTICAL SCALE 1"= 10'

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 120+00 - 142+50
CROSS SECTION SHEET

No.	Date	Item

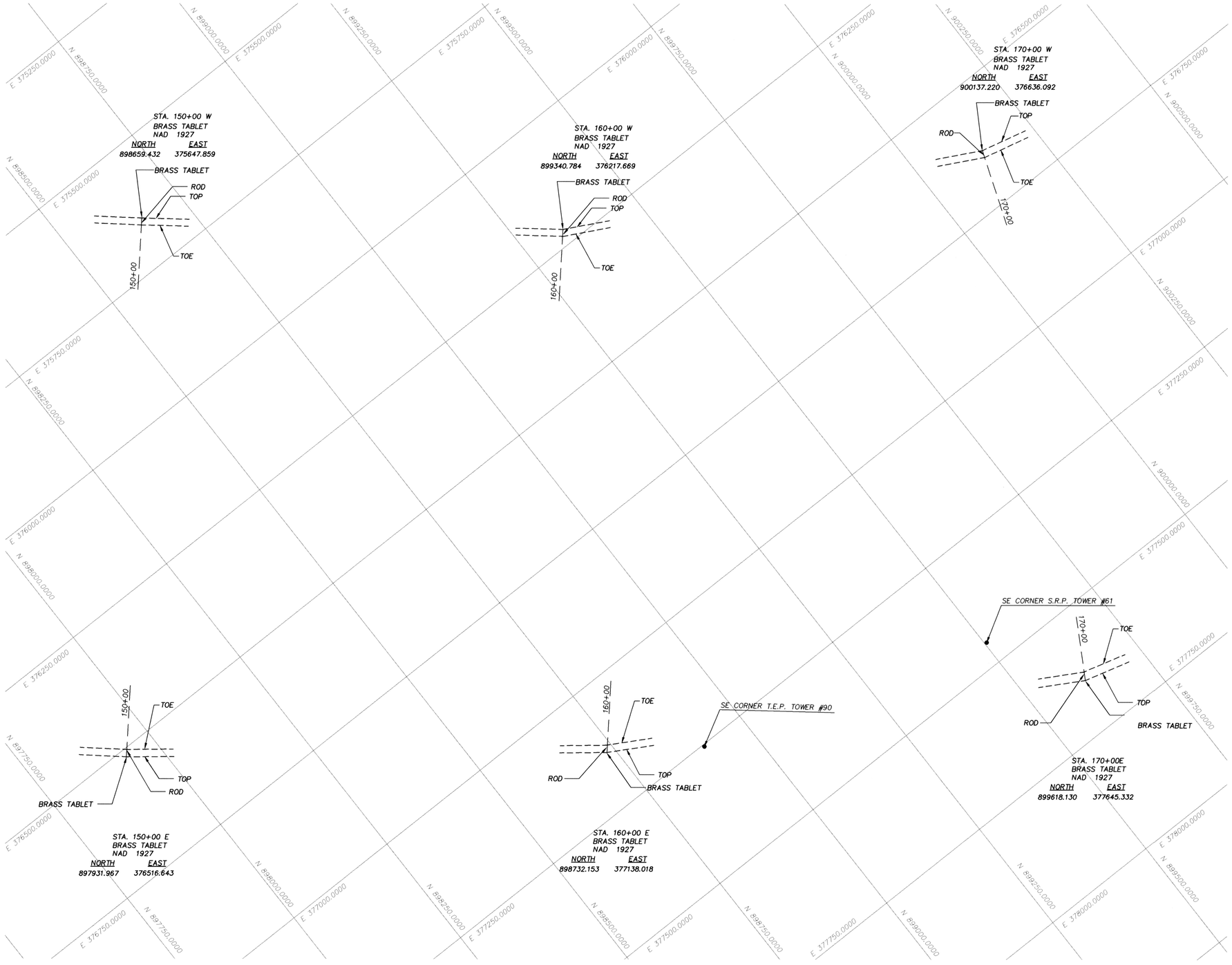
Revisions

Scale
Job No. 298016A001
Date 1-99
Drawn By FRB
Checked By RKL

REGISTERED LAND SURVEYOR
No. 15883
ROBERT C. LANDIS
ARIZONA, U.S.A.
4/8/99

Sheet 3
Of 19

S:\298016\PHASE2\6A002_2.dwg Tue Apr 06 13:20:13 1999



REFER TO SHEET 15 OF 43
LEVEE AS-BUILT PLAN
1985

COORDINATES SHOWN
ARE NAD 27

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING
Project

EAST & WEST LEVEES
STA 150+00 - 170+00
PLAN SHEET
Sheet Title

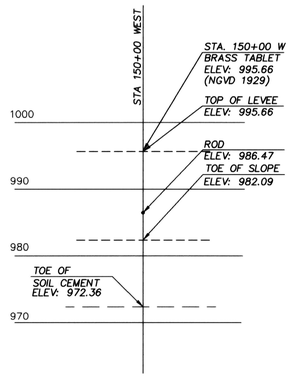
No.	Date	Item

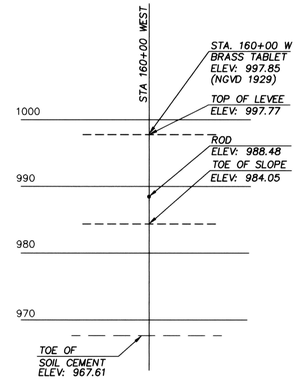
Revisions

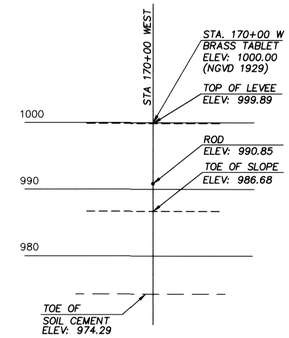
Scale
Job No. 298016A002
Date 4-99
Drawn By FRB
Checked By RKL

Robert K. Landis
REGISTERED PROFESSIONAL ENGINEER
15883
ROBERT K. LANDIS
ARIZONA
4/8/99

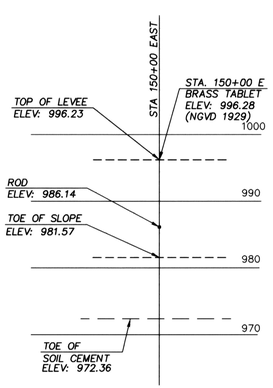
Sheet 4
Of 19

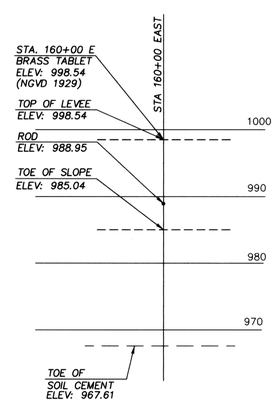


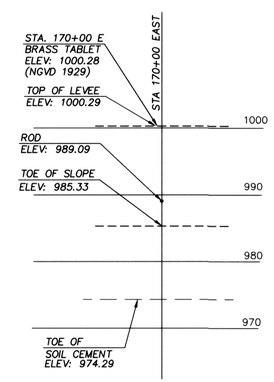




PROFILE: REFER TO SHEET 20 OF 43
LEVEE AS-BUILT PLAN
1985
TOE OF SOIL CEMENT ELEVATIONS
WERE COMPUTED FROM AS-BUILT PLANS







VERTICAL SCALE 1"= 10'

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING
Project

EAST & WEST LEVEES
STA 150+00 - 170+00
CROSS SECTION SHEET
Sheet Title

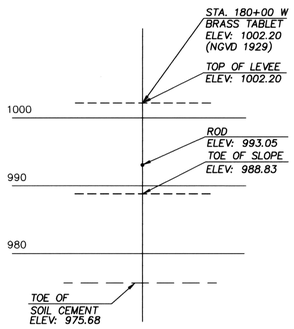
No.	Date	Item

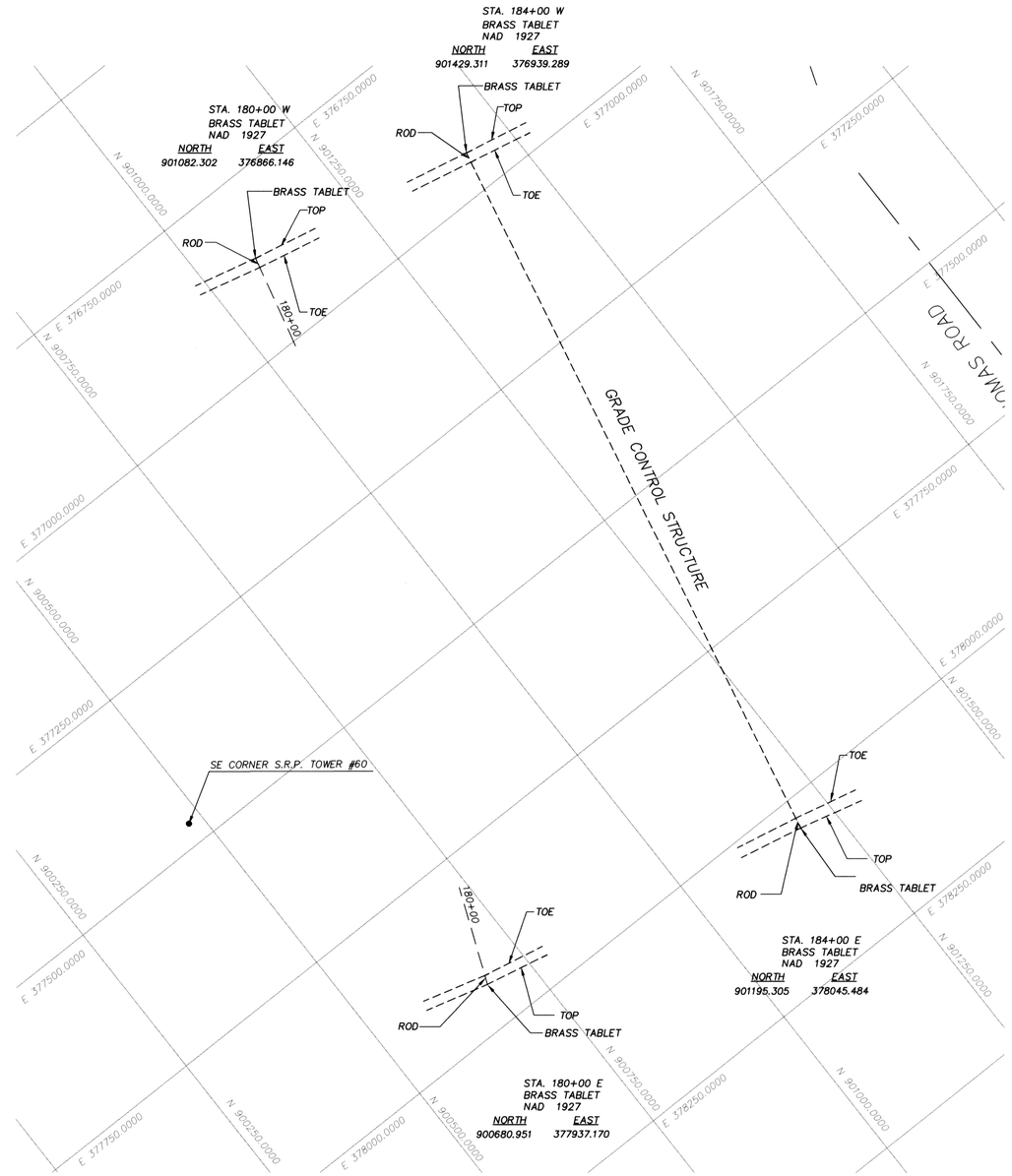
Revisions

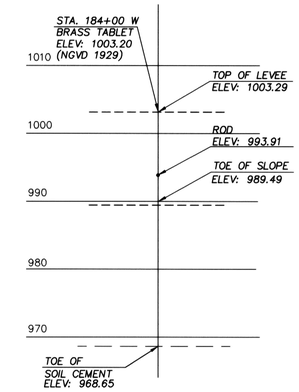
Scale
Job No. 298016A002
Date 4-99
Drawn By FRB
Checked By RKL

REGISTERED LAND SURVEYOR
15883
ROBERT K. LANDIS
4/8/99
ARIZONA U.S.A.

Sheet 5
Of 19





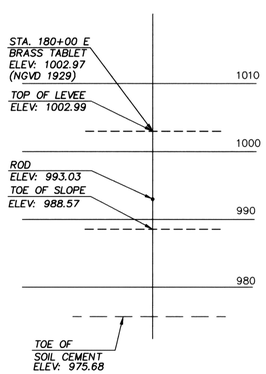


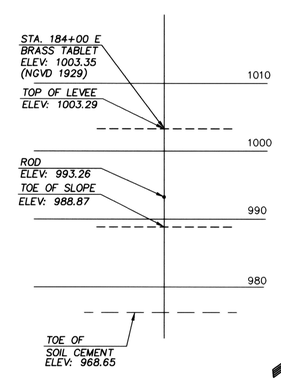
PLAN: REFER TO SHEET 16 OF 43
PROFILE: REFER TO SHEET 20 OF 43

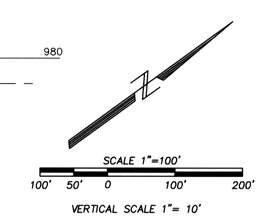
LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27







S:\298016\PHASE2\6A002_2.dwg Tue Apr 06 13:20:49 1999

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING
Project

EAST & WEST LEVEES
STA 180+00 - 184+00
CROSS SECTION & PLAN SHEET
Sheet Title

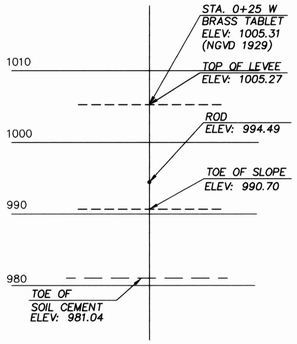
No.	Date	Item

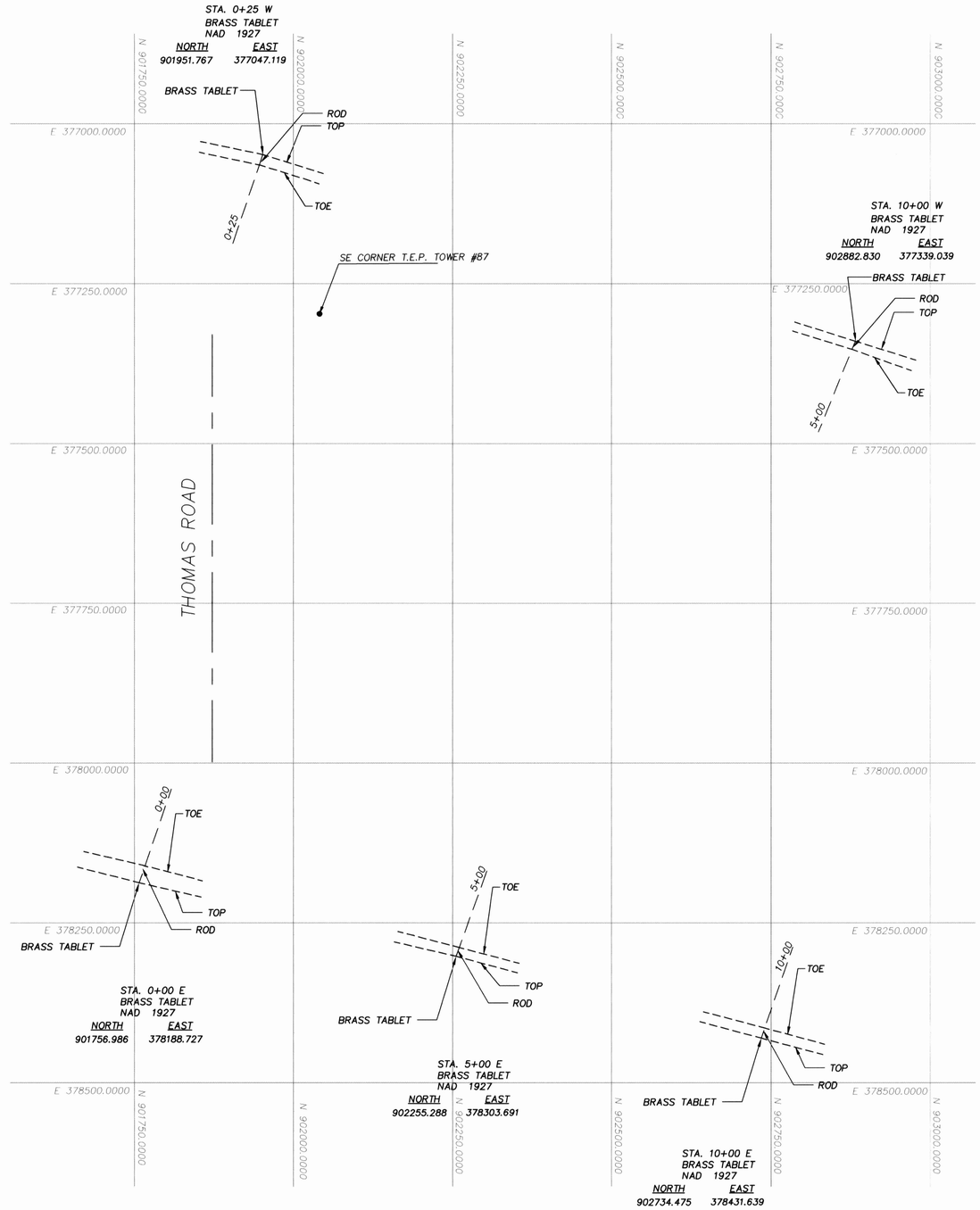
Revisions

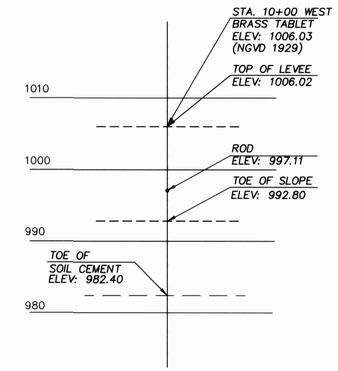
Scale
Job No. 298016A002
Date 4-99
Drawn By FRB
Checked By RKL

Robert K. Landis
4/8/99

Sheet 6
Of 19





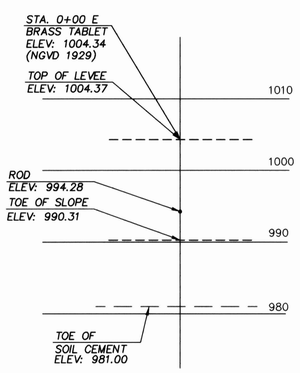


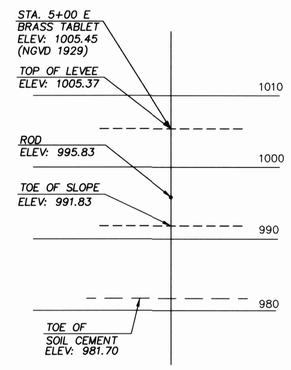
PLAN: REFER TO SHEET 33 OF 62
PROFILE: REFER TO SHEET 38A OF 62

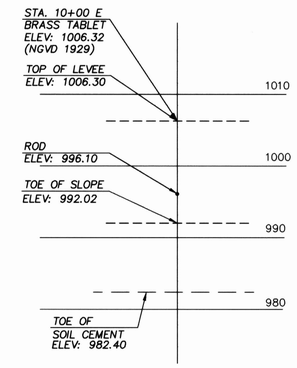
LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27







SCALE 1"=100'
100' 50' 0 100' 200'
VERTICAL SCALE 1"= 10'

S:\298016\PHASE2\6A002_2.dwg Tue Apr 06 13:21:06 1999

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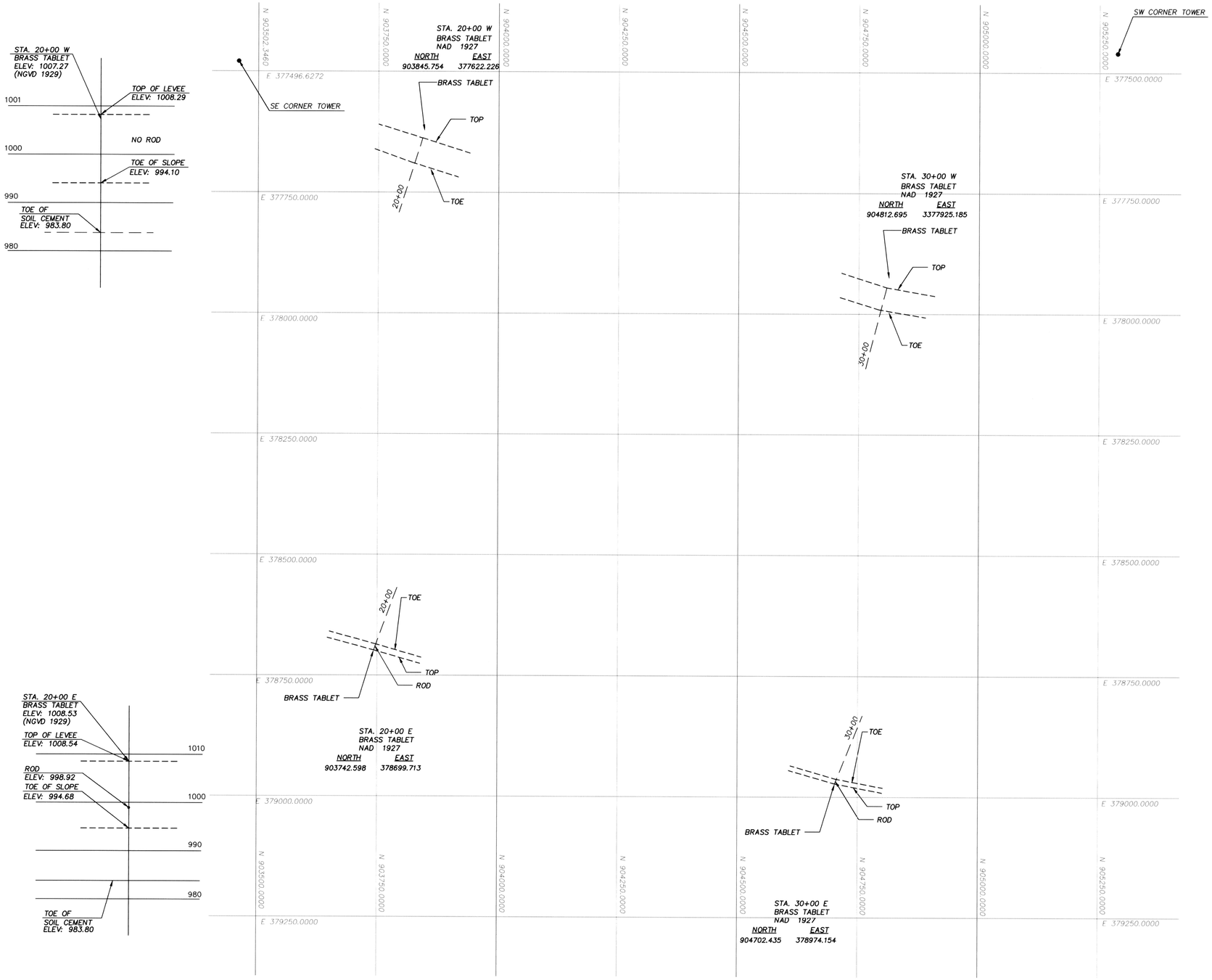
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY	EAST & WEST LEVEES	No. Date Item	Scale
CONTRACT NO. FDC 98-20	STA 0+00 - 10+00		Job No. 298016A002
AGUA FRIA RIVER REACH 1, 2 & 3	CROSS SECTION & PLAN SHEET		Date 4-99
LEVEE MONITORING			Drawn By FRB
Project	Sheet Title	Revisions	Checked By RKL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 15883 ROBERT K. LANDIS Date 4/6/99 ARIZONA, U.S.A.

Sheet 7
Of 19



PLAN: REFER TO SHEET 34 OF 62
PROFILE: REFER TO SHEET 38A OF 62

LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27

SCALE 1"=100'
100' 50' 0 100' 200'
VERTICAL SCALE 1"= 10'

S:\298016\PHASE2\6A002_2.dwg Tue Apr 06 13:21:36 1999

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Project
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title
EAST & WEST LEVEES
STA 20+00 - 30+00
CROSS SECTION & PLAN SHEET

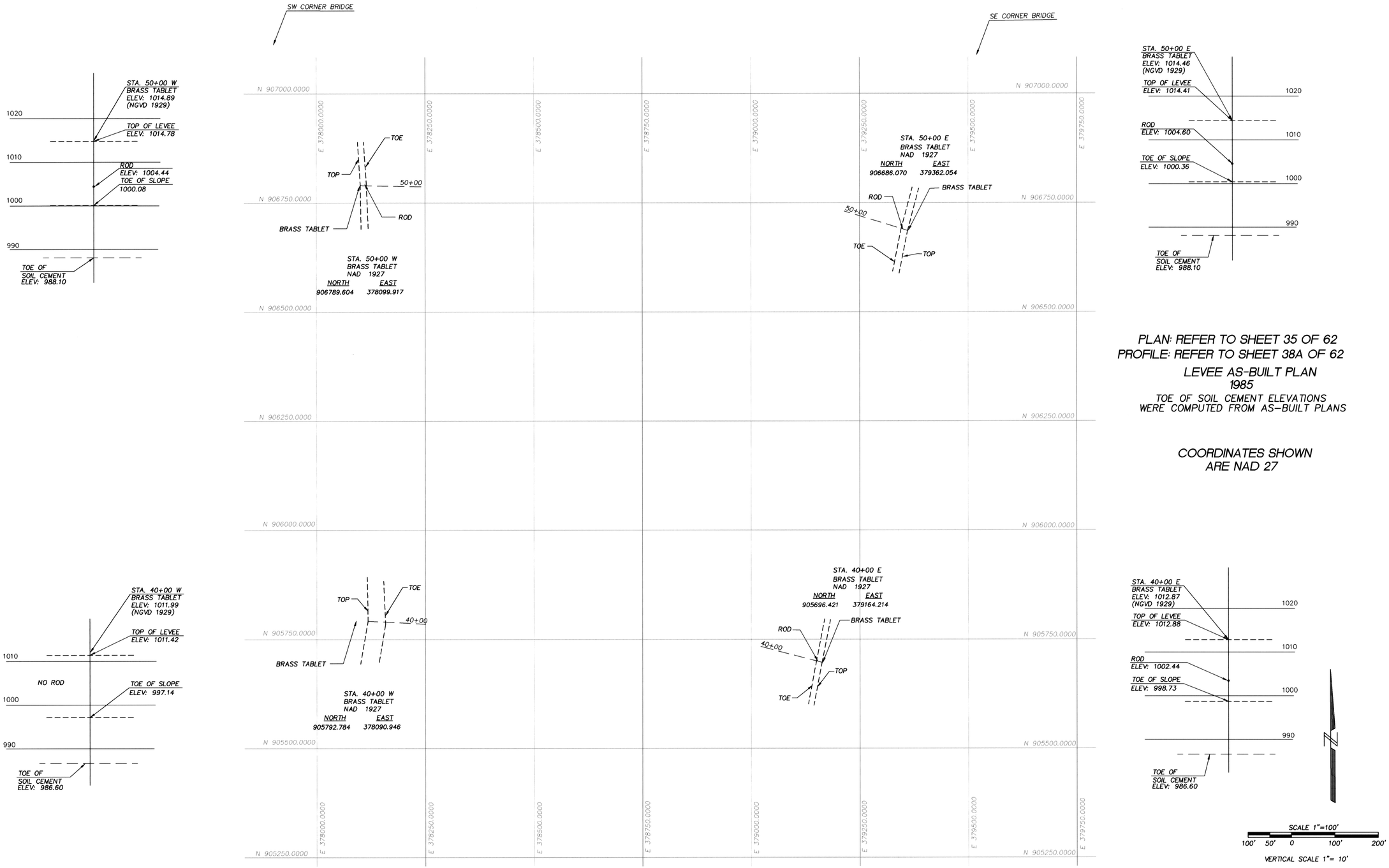
No.	Date	Item

Revisions

Scale
Job No. 298016A002
Date 4-99
Drawn By FRB
Checked By RKL

REGISTERED LAND SURVEYOR 15883 ROBERT S. LANDIS ARIZONA, U.S.A. 4/8/99

Sheet 8
Of 19



PLAN: REFER TO SHEET 35 OF 62
PROFILE: REFER TO SHEET 38A OF 62

LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27

S:\298016\PHASE2\6A002_2.dwg Tue Apr 06 13:21:50 1999

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Project
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title
EAST & WEST LEVEES
STA 40+00 - 50+00
CROSS SECTION & PLAN SHEET

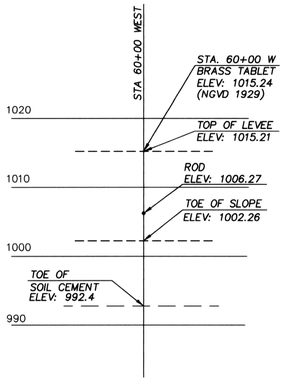
No.	Date	Item

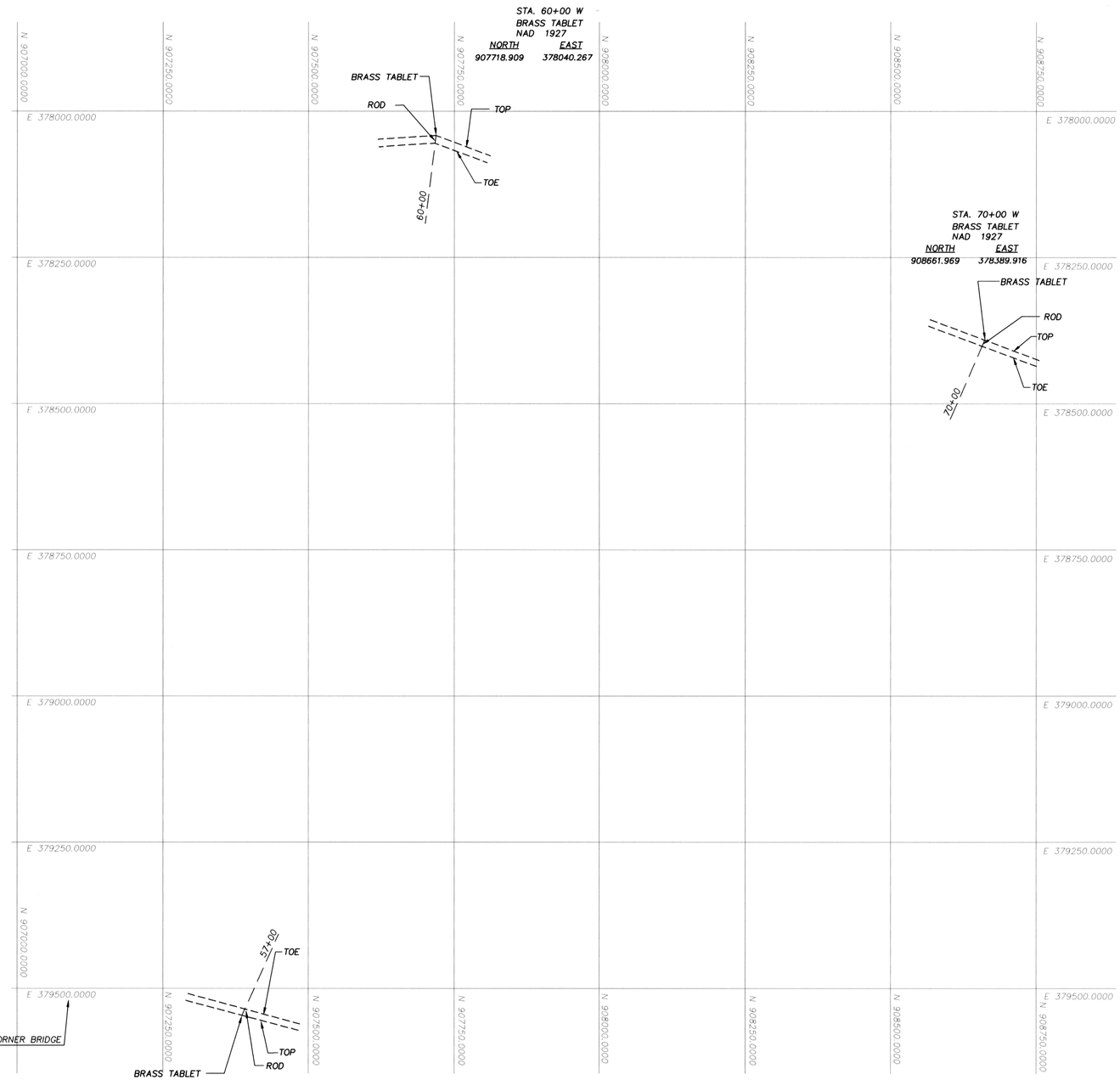
Revisions

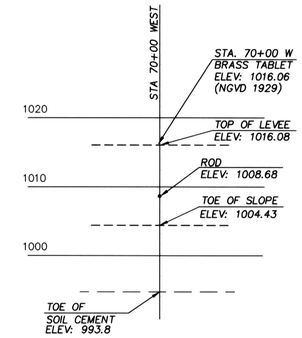
Scale
Job No. 298016A002
Date 4-99
Drawn By FRB
Checked By RKL

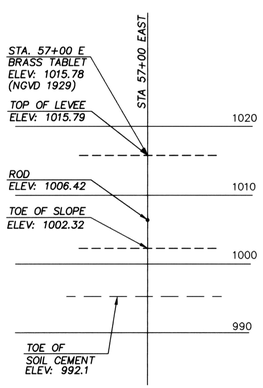
REGISTERED PROFESSIONAL ENGINEER
15883
ROBERT K. LANDIS
ARIZONA, U.S.A.
Robert K. Landis
4/8/99

Sheet 9
Of 19









PLAN: REFER TO SHEET 36 OF 62
PROFILE: REFER TO SHEET 39A OF 62

LEVEE AS-BUILT PLAN
1985

TOE OF SOIL CEMENT ELEVATIONS
WERE COMPUTED FROM AS-BUILT PLANS

COORDINATES SHOWN
ARE NAD 27

SCALE 1"=100'
100' 50' 0 100' 200'
VERTICAL SCALE 1"= 10'

S:\298016\PHASE2\6A002_2.dwg Tue Apr 06 13:22:05 1999

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST & WEST LEVEES
STA 57+00 - 70+00
CROSS SECTION & PLAN SHEET

No.	Date	Item

Revisions

Scale
Job No. 298016A002
Date 4-99
Drawn By FRB
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ROBERT K. LANDIS 15883 ARIZONA, U.S.A. 4/8/99

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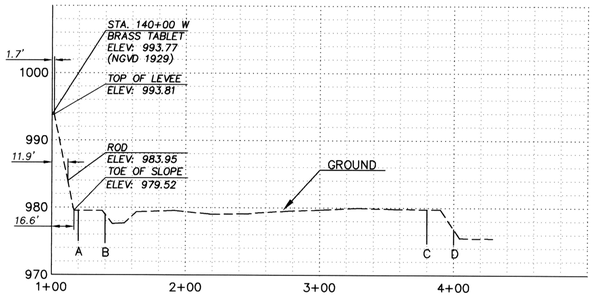
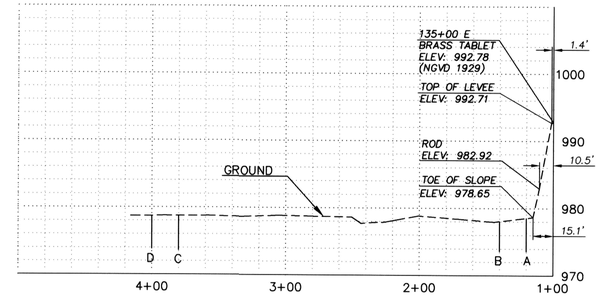


STATION 140+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	979.52
B	40.0'	978.91
C	280.0'	979.76
D	300.0'	976.80

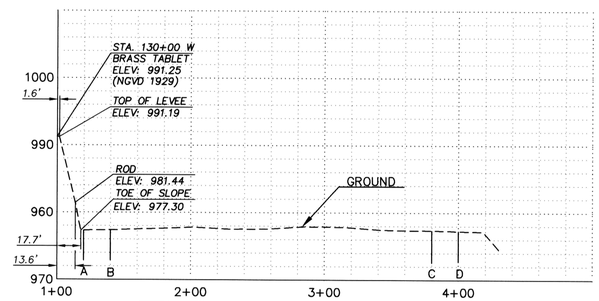
STA 140+00 WEST



STATION 135+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	978.53
B	40.0'	978.04
C	280.0'	978.74
D	300.0'	978.72

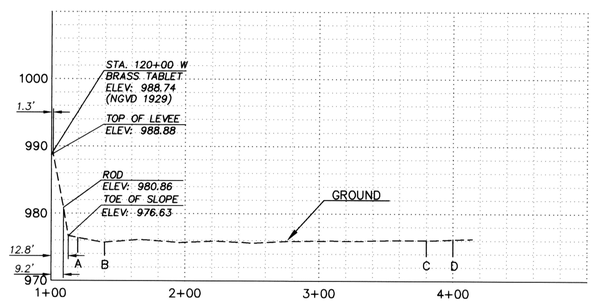
STA 135+00 EAST



STATION 130+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	977.31
B	40.0'	977.39
C	280.0'	977.33
D	300.0'	977.25

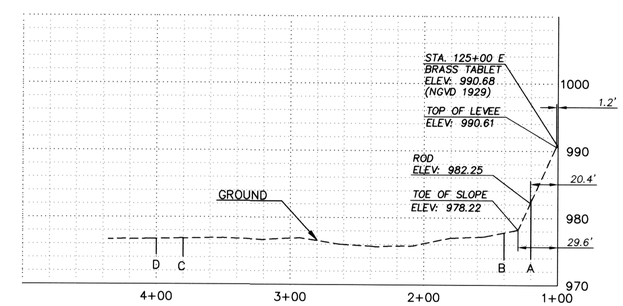
STA 130+00 WEST



STATION 120+00 WEST+

PNT.	DIST FROM TABLET	ELEV
A	20.0'	976.36
B	40.0'	975.68
C	280.0'	976.07
D	300.0'	976.17

STA 120+00 WEST



STATION 125+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	982.42
B	40.0'	977.79
C	280.0'	976.81
D	300.0'	976.76

STA 125+00 EAST

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING
Project

EAST AND WEST LEVEES
STA 120+00 - 140+00
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Checked By	RKL

REGISTERED LAND SURVEYOR 15883 ROBERT K. LANDIS ARIZONA, U.S.A. 4/8/99

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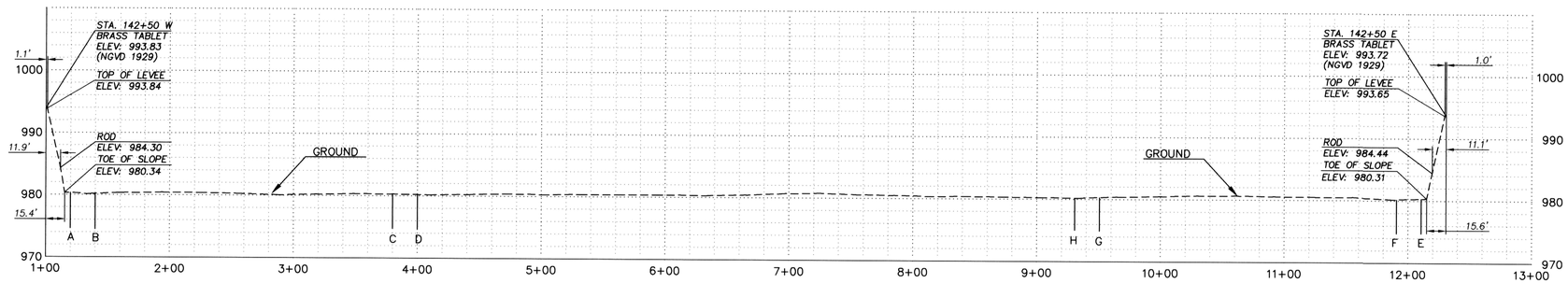


STATION 140+50 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	980.28
B	40.0'	980.15
C	280.0'	980.26
D	300.0'	980.18

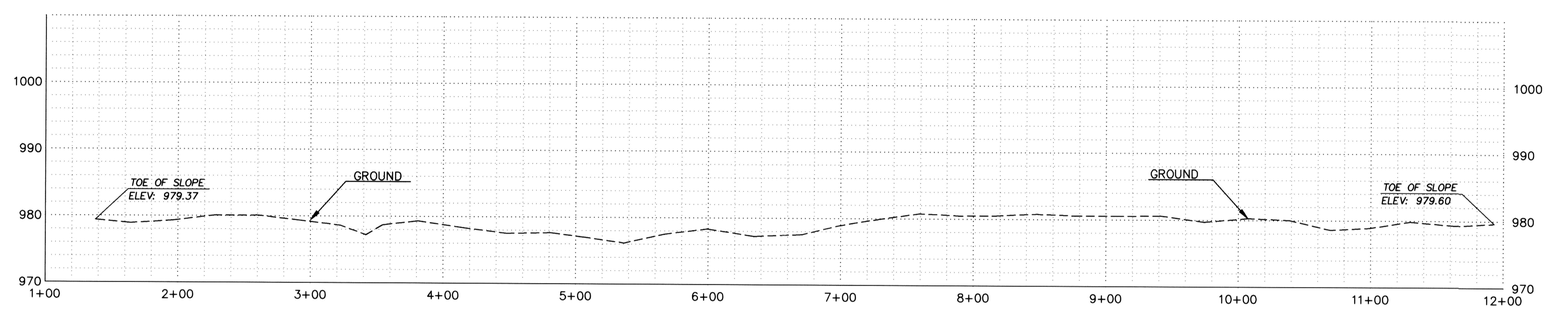
STA 142+50 WEST

STATION 142+50 EAST

PNT.	DIST FROM TABLET	ELEV
E	20.0'	980.29
F	40.0'	980.18
G	280.0'	980.26
H	300.0'	980.17

STA 142+50 EAST

GRADE CONTROL STRUCTURE



GRADE AT 20' DOWN STREAM

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
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LEVEE MONITORING

Sheet Title
GRADE CONTROL STRUCTURE
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REGISTERED LAND SURVEYOR
15883
ROBERT K. LANDIS
4/6/99
ARIZONA, U.S.A.

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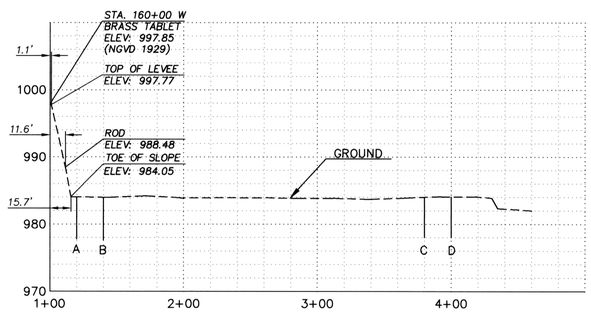
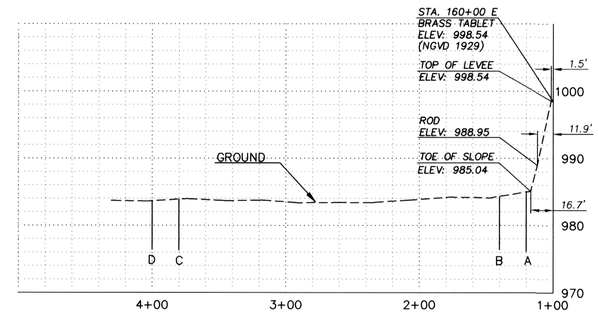


STATION 160+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	984.03
B	40.0'	983.95
C	280.0'	983.98
D	300.0'	984.07

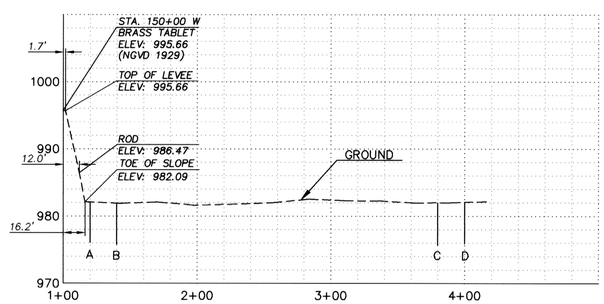
STA 160+00 WEST



STATION 160+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	984.94
B	40.0'	984.29
C	280.0'	983.86
D	300.0'	983.61

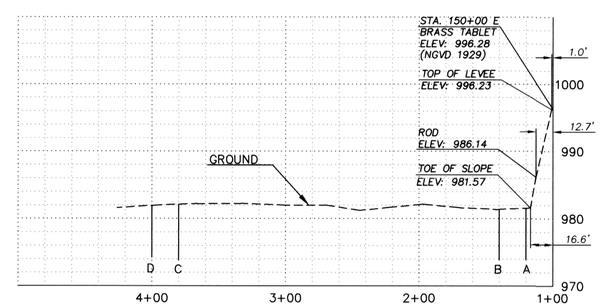
STA. 160+00 EAST



STATION 150+00 W

PNT.	DIST FROM TABLET	ELEV
A	20.0'	982.06
B	40.0'	981.89
C	280.0'	982.00
D	300.0'	982.06

STA 150+00 WEST



STATION 150+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	981.54
B	40.0'	981.37
C	280.0'	982.09
D	300.0'	981.92

STA 150+00 EAST

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
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Sheet Title
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REGISTERED LAND SURVEYOR 15883 ROBERT K. LANDIS ARIZONA, U.S.A. 4/8/99

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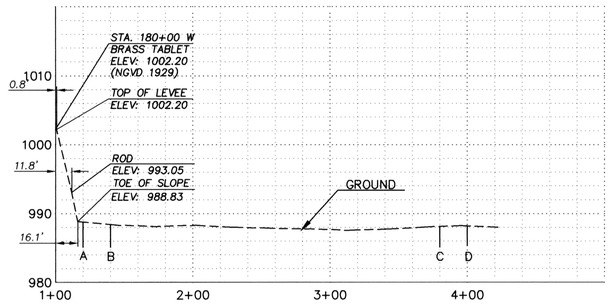
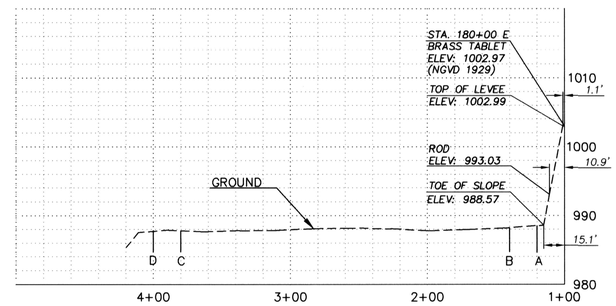


STATION 180+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	986.76
B	40.0'	988.39
C	280.0'	988.10
D	300.0'	988.17

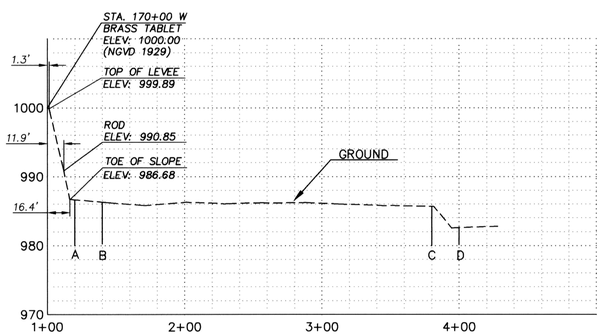
STA 180+00 WEST



STATION 180+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	988.50
B	40.0'	988.21
C	280.0'	987.77
D	300.0'	987.69

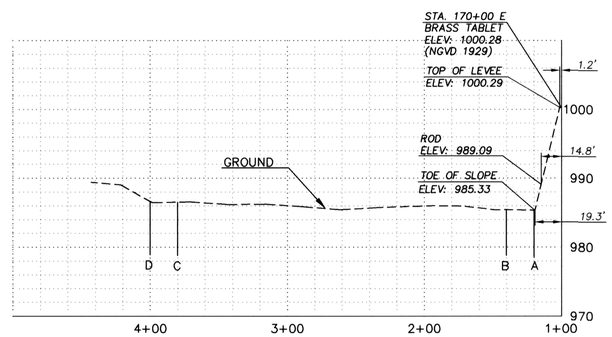
STA 180+00 EAST



STATION 170+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	986.61
B	40.0'	986.27
C	280.0'	985.69
D	300.0'	982.57

STA 170+00 WEST



STATION 170+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	985.33
B	40.0'	985.40
C	280.0'	986.52
D	300.0'	986.62

STA 170+00 EAST

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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CONTRACT NO. FDC 98-20
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EAST AND WEST LEVEES
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Checked By	RKL

Robert L. Landis
ROBERT L. LANDIS
4/8/99
ARIZONA, U.S.A.

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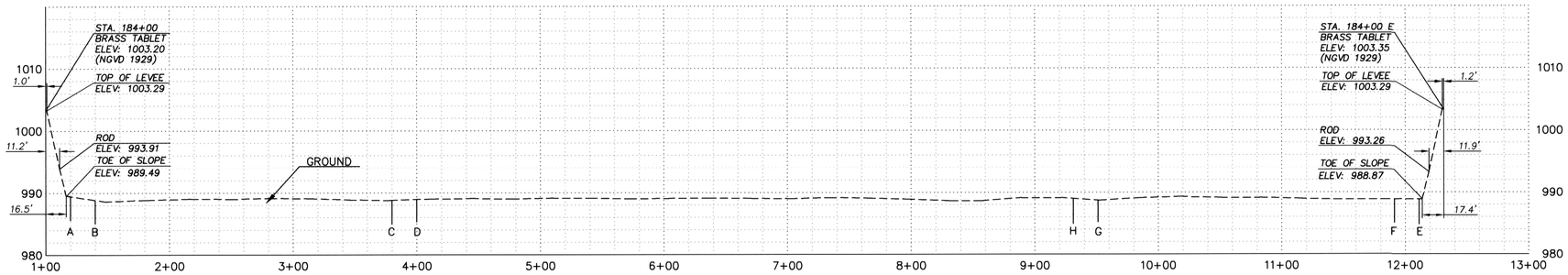


STATION 184+00

PNT.	DIST FROM TABLET	ELEV
A	20.0'	989.39
B	40.0'	988.80
C	280.0'	988.77
D	300.0'	988.90

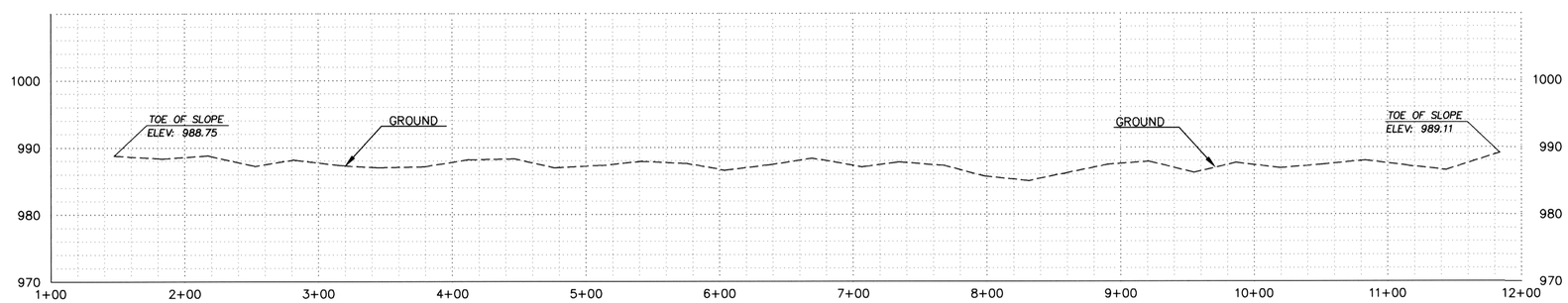
STA 184+00 WEST

STATION 184+00 EAST

PNT.	DIST FROM TABLET	ELEV
E	20.0'	988.87
F	40.0'	988.84
G	280.0'	988.68
H	300.0'	988.95

STA 184+00 EAST

GRADE CONTROL STRUCTURE



GRADE AT 20' DOWN STREAM

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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Project
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
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REGISTERED LAND SURVEYOR
15883
ROBERT K. LANDIS
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4/2/99

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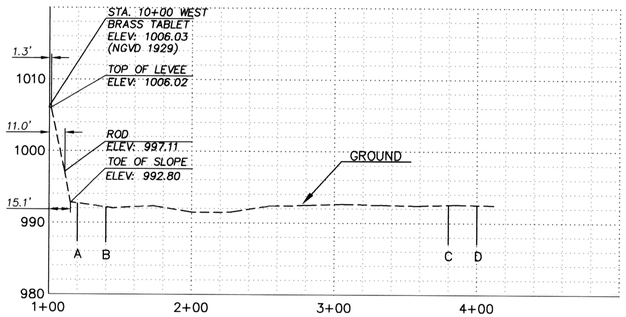
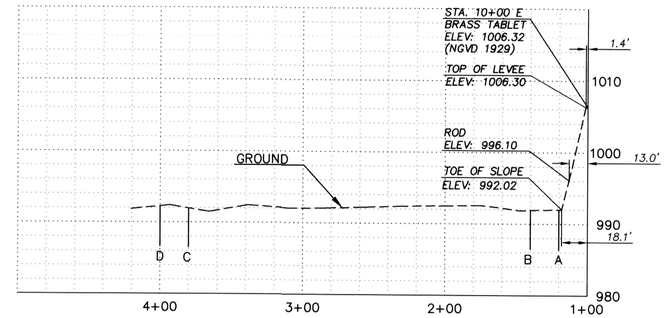


STATION 10+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	992.67
B	40.0'	992.15
C	280.0'	992.55
D	300.0'	992.53

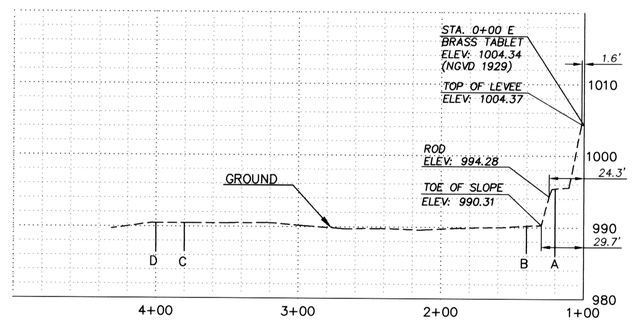
STA 10+00 WEST



STATION 10+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	992.01
B	40.0'	991.90
C	280.0'	991.94
D	300.0'	992.23

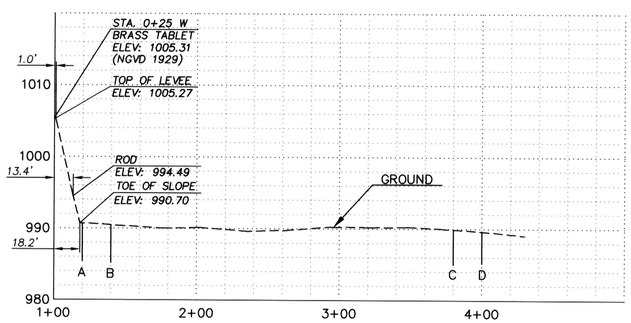
STA 10+00 EAST



STATION 0+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	995.38
B	40.0'	990.20
C	280.0'	990.48
D	300.0'	990.48

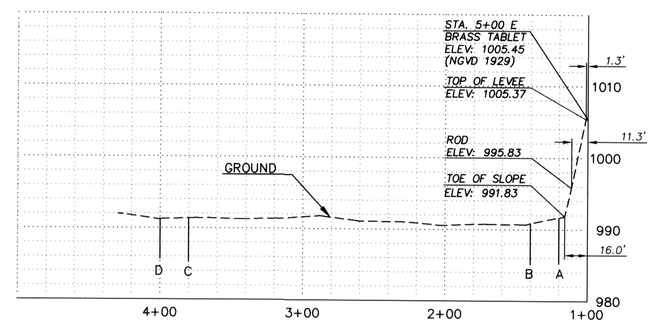
STA 0+00 EAST



STATION 0+25 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	990.68
B	40.0'	990.44
C	280.0'	989.87
D	300.0'	989.61

STA 0+25 WEST



STATION 5+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	991.66
B	40.0'	990.84
C	280.0'	991.34
D	300.0'	991.22

STA 5+00 EAST

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST AND WEST LEVEES
STA 0+00 - 10+00
PROFILE SHEET

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Checked By	RKL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 15883 ROBERT K. LANDIS Date Signed 4/6/99 ARIZONA, U.S.A.

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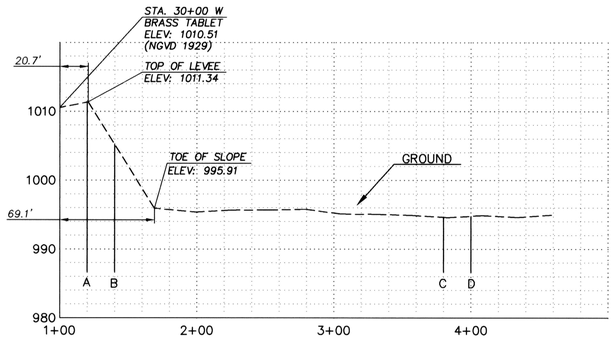
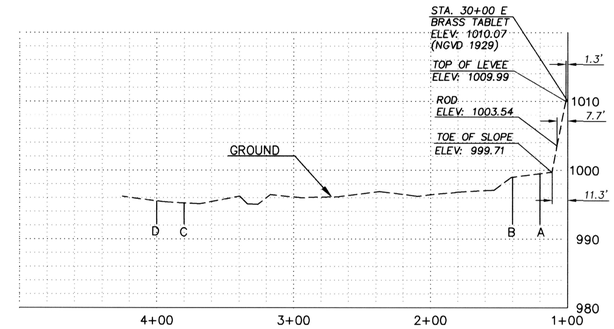


STATION 30+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	1011.32
B	40.0'	1005.18
C	280.0'	994.60
D	300.0'	994.76

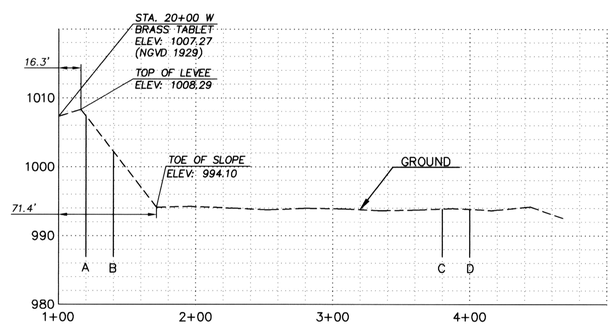
STA 30+00 WEST



STATION 30+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	999.48
B	40.0'	998.97
C	280.0'	995.23
D	300.0'	995.52

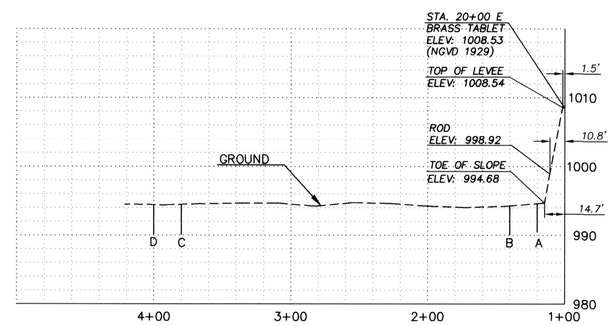
STA 30+00 EAST



STATION 20+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	1007.33
B	40.0'	1002.18
C	280.0'	993.85
D	300.0'	993.80

STA 20+00 WEST



STATION 20+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	994.59
B	40.0'	994.25
C	280.0'	994.47
D	300.0'	994.42

STA 20+00 EAST

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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CONTRACT NO. FDC 98-20
AQUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST AND WEST LEVEES
STA 20+00 - 30+00
PROFILE SHEET

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REGISTERED LAND SURVEYOR 13881 ROBERT K. LANDIS ARIZONA, U.S.A. 4/8/99

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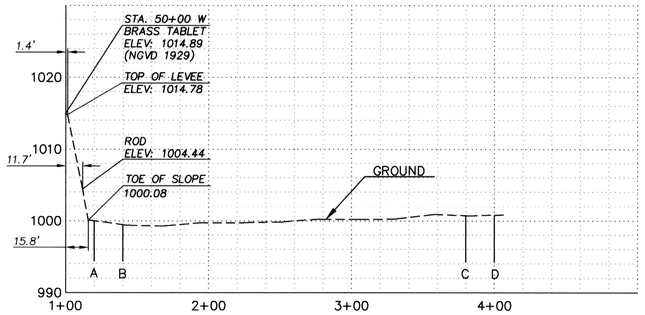
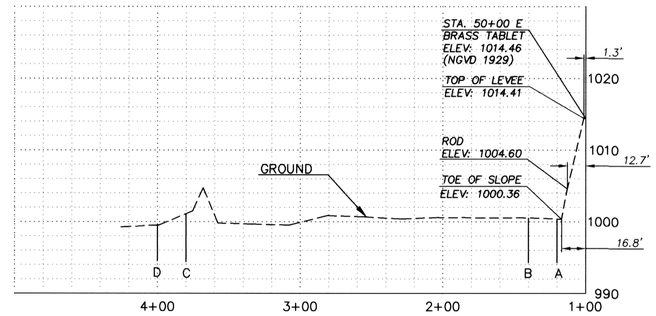


STATION 50+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	999.96
B	40.0'	999.41
C	280.0'	1000.71
D	300.0'	1000.79

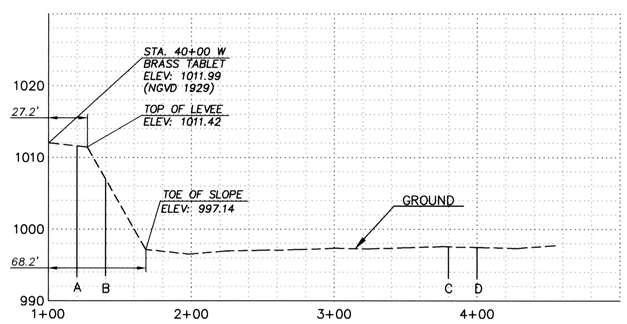
STA 50+00 WEST



STATION 50+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	1000.38
B	40.0'	1000.52
C	280.0'	1001.09
D	300.0'	999.50

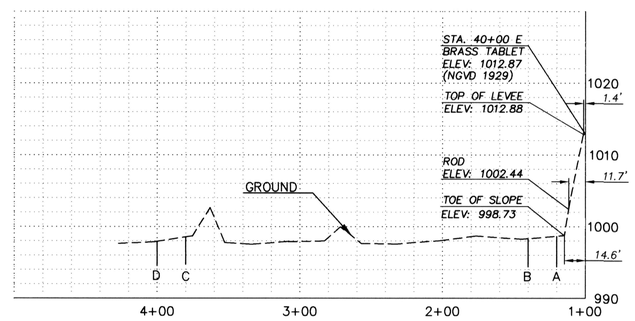
STA 50+00 EAST



STATION 40+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	1011.57
B	40.0'	1006.95
C	280.0'	997.55
D	300.0'	997.46

STA 40+00 WEST



STATION 40+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	998.64
B	40.0'	998.31
C	280.0'	998.55
D	300.0'	997.92

STA 40+00 EAST

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

S:\298016\PHASE2\PROFILE_2.dwg Tue Apr 06 13:25:52 1999

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Project
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title
EAST AND WEST LEVEES
STA 40+00 - 50+00
PROFILE SHEET

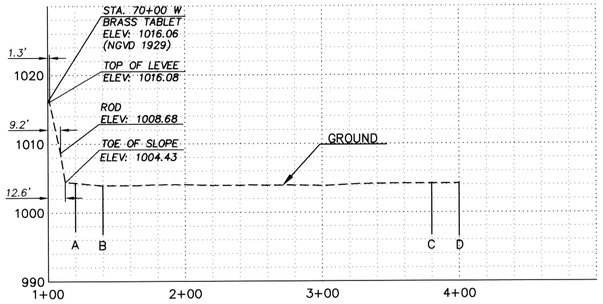
No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A002
Date	4-99
Drawn By	FRB
Checked By	RKL

REGISTERED LAND SURVEYOR 15883 ROBERT K. LANDIS ARIZONA U.S.A. 4/8/99

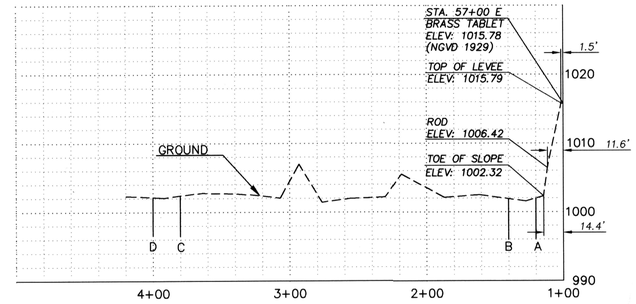
Sheet	18
Of	19



STATION 70+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	
B	40.0'	
C	280.0'	
D	300.0'	

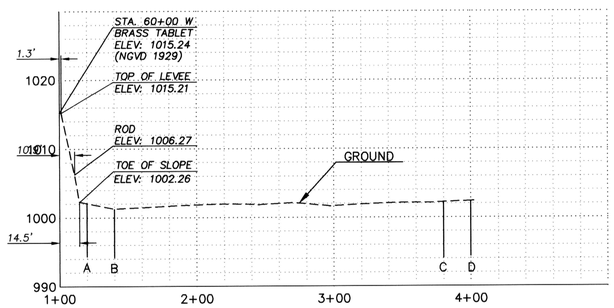
STA 70+00 WEST



STATION 57+00 EAST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	1001.97
B	40.0'	1001.88
C	280.0'	1002.38
D	300.0'	1002.15

STA 57+00 EAST



STATION 60+00 WEST

PNT.	DIST FROM TABLET	ELEV
A	20.0'	1002.04
B	40.0'	1001.24
C	280.0'	1002.18
D	300.0'	1002.35

STA 60+00 WEST

SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 10'

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Project: FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
CONTRACT NO. FDC 98-20
AGUA FRIA RIVER REACH 1, 2 & 3
LEVEE MONITORING

Sheet Title: EAST AND WEST LEVEES
STA 57+00 - 70+00
PROFILE SHEET

No.	Date	Item

Revisions

Scale	AS SHOWN
Job No.	298016A002
Date	4-99
Drawn By	FRB
Checked By	RKL

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