A.G. CONTRACT NO. 80-99

INTERGOVERNMENTAL AGREEMENT

BETWEEN
THE STATE OF ARIZONA
AND
THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Agreement No._____

Project No. S-585-501

Project No. S-580-501

PARTIES

THIS AGREEMENT, entered into this 15 day of December, 1980, 1980, pursuant to Arizona Revised Statutes, Section 11-951 through 11-954, as amended, by and between the STATE OF ARIZONA, acting by and through the ARIZONA DEPARTMENT OF TRANSPORTATION, hereinafter called "STATE", and the FLOOD CONTROL DISTRICT OF MARICOPA COUNTY, a municipal corporation and a political subdivision of the State of Arizona, hereinafter called "DISTRICT".

STATUTORY AUTHORIZATION

WHEREAS, STATE is empowered by A.R.S. Section 28-108 to enter into this Agreement, and by Section 45-2365 to grant right-of-way in, under, along or across State highway right-of-way for flood control purposes, and the Director of the ARIZONA DEPARTMENT OF TRANSPORTATION has delegated to the undersigned his authorization to execute this Agreement on behalf of STATE: and

WHEREAS, DISTRICT is empowered by A.R.S. Section 45-2358 and 45-2360 to enter into this Agreement, and acting by and through its governing body, has by that certain resolution attached hereto and incorporated herein as Exhibit "A" resolved to enter into this Agreement and has authorized the undersigned as its representative to execute the same on behalf of DISTRICT; and

PURPOSE

WHEREAS, DISTRICT'S flood control channel, when built, will cross STATE'S right-of-way for S.R. 93 (Jct. I-10 - Chandler Highway) in Sections 15 and 16, Township 3 South, Range 5 East, Gila and Salt River Base and Meridian, Final County, Arizona; and States right-of-way for S.R. 87

NO. 6929
FILED WITH SECRETARY OF STATE
Date Filed 1-6-81
Secretary of State

shall be borne solely by DISTRICT. Each party shall bear the costs of its operation and maintenance responsbility as set forth above.

FILING WITH SECRETARY OF STATE

This Agreement shall become effective on the date it is filed with the Secretary of State.

All parties are hereby put on notice that this Agreement is subject to cancellation by the Governor, pursuant to A.R.S. Section 38-511.

Attached to this Agreement and incorporated herein by reference is Exhibit "C" which is the written determination of General Counsel for DISTRICT that DISTRICT is authorized under the laws of this State to enter into this Agreement and that it is in proper form.

FLOOD CONTROL DISTRICT OF
MARICOPA COUNTY, ARIZONA

By: Fred Koory, Jr.
Chairman, Board of Directors

ATTEST:

R. W. Woodside
Clerk of the Board

RECOMMENDED FOR APPROVAL:

W. D. Mathews
Chief Engineer and General Manager

STATE OF ARIZONA
ARIZONA DEPARTMENT
OF TRANSPORTATION

By: J. B. Mertz
Chief Deputy State Engineer
1/5/81

OFFICE OF THE
Attorney General
1801 WEST JEFFERSON STREET
FOURTH FLOOR
PHOENIX, ARIZONA 85007

ROBERT K. CORBIN
ATTORNEY GENERAL

INTERGOVERNMENTAL AGREEMENT

DETERMINATION

A. G. Contract No. 80-899, which is an agreement between public agencies, has been reviewed pursuant to A.R.S. § 11-952, as amended, by the undersigned Assistant Attorney General who has determined that it is in proper form and is within the powers and authority granted to the State or its agencies under the laws of the State of Arizona.

No opinion is expressed as to the authority of the remaining parties, other than the State or its agencies, to enter into said agreement.

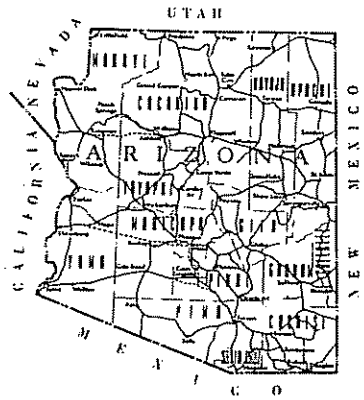
DATED this 5 day of January, 1981.

ROBERT K. CORBIN
Attorney General

Richard L

Assistant Attorney General
Transportation Division

11/65



STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

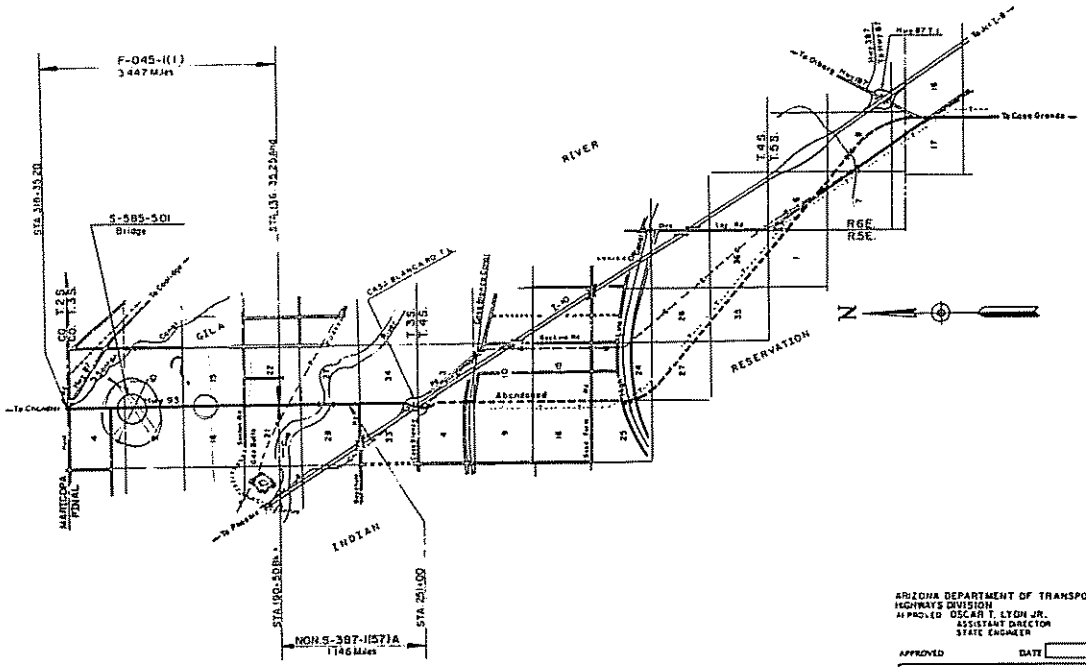
PLAN AND PROFILE OF PROPOSED

STATE HIGHWAY

CASA GRANDE-CHANDLER

PINAL COUNTY

S-585-501



REDUCED SIZE
DO NOT SCALE

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
APPROVED OSCAR T. LYON JR.
ASSISTANT DIRECTOR
STATE ENGINEER

APPROVED DATE
CHIEF DEPUTY STATE ENGINEER

APPROVED DATE
DEPUTY STATE ENGINEER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED DATE
DIVISION ENGINEER

Orig Plate
A-11-T-395-A
D-11-T-410

FHWA REGION	STATE	PROJECT NO	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	S-585-501	26	15	

CASA GRANDE-CHANDLER HIGHWAY
RWCD FLOOD CONTROL (BRIDGE)
PINAL COUNTY

A.D.O.T. STANDARD DRAWINGS - CONSTRUCTION DETAILS

PREVIOUS REVISION DATE	CURRENT REVISION DATE	STANDARD NO.	SUBJECT
6/74	11/74	C-1.01	Plans Symbols, Exist. Topog.
		C-1.02	Plans Symbols, New Construction
8/76	12/76	C-2.01	Slopes, Interstate & Class A-A Roadways
8/76	12/76	C-2.02	Slopes, Class A & B Roadways
8/76	12/76	C-2.03	Slopes, Class C & D Roadways
	12/68	C-2.04	Pavement Crown, Parabolic
5/72	6/74	C-3.01	Ditches and Dykes
		C-3.02	Channels & Dykes, Typ. Parallel Installations
5/72	6/74	C-4.01	Spillway, Embankment
5/72	6/74	C-4.02	Downdrain, Embankment
3/71	5/72	C-4.03	Spillway, Embankment, Length Table
3/71	6/74	C-4.04	Downdrain, Embankment, Length Table
	6/74	C-5.01	Curb, Gutter, Sidewalk, & Driveway Details
		C-5.02	Geometrics, Street Intersection
6/74	11/74	C-6.01	Turnout and Driveway Layout
5/72	6/74	C-6.02	Geometrics, Detour
6/74	11/74	C-7.01	Pavement, Concrete, Transverse Joints
6/74	11/74	C-7.02	Pavement, Concrete, Longitudinal Joints
5/72	6/74	C-7.03	Pavement, Cut & Replacement
6/74	7/75	C-8.01	Geometrics, Exit Ramp
6/74	7/75	C-8.02	Geometrics, Entrance Ramp
	8/78	C-9.10	Shoulder Grooving
11/74	5/77	C-10.01	Guard Rail Single Face Details
	5/78	C-10.01.1	Guard Rail, Emb. Curb & Pvmt. Widening Details-Section
		C-10.01.2	Guard Rail, Emb. Curb & Pvmt. Widening Details-Plan
2/73	6/74	C-10.02	Guard Rail, Misc. Details
4/73	6/74	C-10.03	Guard Rail, Approach End Treatment
4/73	6/74	C-10.04	Guard Rail-Steel Bridge Approach Details
4/73	6/74	C-10.05	Guard Rail Flare To Median
5/72	6/74	C-10.06	Guard Rail Typical Installations

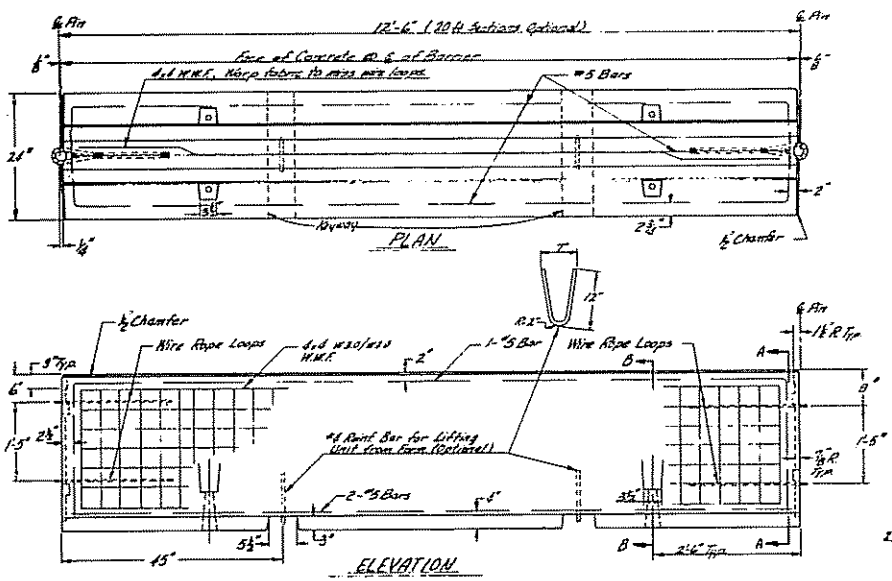
PREVIOUS REVISION DATE	CURRENT REVISION DATE	STANDARD NO.	SUBJECT
6/74	2/78	C-10.08	Barrier, Median, Cast In Place, Slip Form
6/74	2/78	C-10.08.1	Barrier, Median, Cast In Place, Fixed Form
6/74	2/78	C-10.08.2	Barrier, Median, Precast
	6/74	C-10.09	Barrier, Median, C.I.P. Conc. Transition Details
2/73	6/74	C-10.10	Glare Screen, Double Face Guard Rail
		C-10.10.1	Glare Screen, Type "P", Conc. Median Barrier
		C-10.10.2	Glare Screen, Type "O", Conc. Median Barrier
	3/71	C-10.11	Barrier, Fence, Chain Link & Cable
	9/78	C-10.12	Breakdway Cable Terminal, Installation Details
	12/76	C-10.13	Breakaway Cable Terminal, Hardware Details
6/74	11/74	C-11.01	Cattle Guard, Roadway
6/74	11/74	C-11.03	Cattle Guard, Railroad
	12/68	C-11.04	Cattle Guard, Drainage
6/74	11/74	C-12.01	Fence & Gates, Line, Steel Posts
6/74	3/78	C-12.02	Fence, Line, Supplementary Details
5/72	7/75	C-12.03	Fence & Gate, Chain Link
3/71	5/72	C-12.04	Fence & Gate, Indust. Type, Fab. Wire
5/72	6/74	C-12.05	Fence, Barrier, Wood Posts
6/74	6/79	C-13.01	Pipe Culvert Installation
2/73	6/74	C-13.02	Pipe Culvert, Placement
		C-13.03	Pipe, Reinf. Conc., Fill Heights
		C-13.03.1	Pipe, Non-Reinforced, Fill Heights
		C-13.04	Pipe, Reinf. Conc. End Section
4/70	6/74	C-13.05	Pipe, Corr. Metal, End Section
2/73	4/73	C-13.06	Pipe, Corr. Metal, Fill Heights
	12/68	C-13.07	Pipe, Corr. Metal, Fill Height Design Data
	1/71	C-13.08	Pipe, Corr. Metal Arch, Fill Heights
	12/68	C-13.09	Pipe, Corr. Metal Arch, Fill Height Design Data
6/74	11/74	C-13.10	Pipe & Pipe Arch, Corr. Metal, Conc. Inv. Paving
5/72	6/74	C-13.11	Struc. Exc. Payment Limits Pipes, Culverts & Headwalls
		C-13.12	Struc. Exc. Payment Limits Spec. Backfill Placement
5/72	2/73	C-13.13	Special Backfill Placement Pipes, Culverts & Headwalls

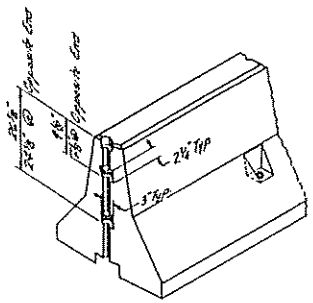
Revised by M. Tardy 12-76, 5-77 Revised by P. Liliba 5-79
Revised by M. Tardy Checked by T. Schack Date 9-5-78

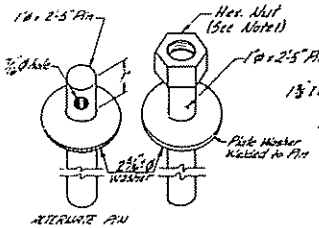
CASA GRANDE-CHANDLER HIGHWAY
RWCD FLOOD CONTROL (BRIDGE)
PINAL COUNTY

TEMPORARY CONCRETE BARRIER

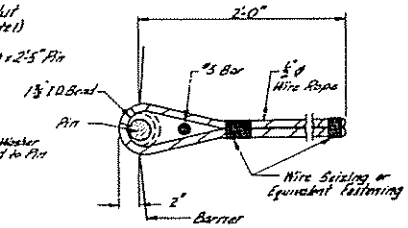
FIGURE NUMBER	STATE	PROJECT NO.			
9		S-585-501	2C	15	



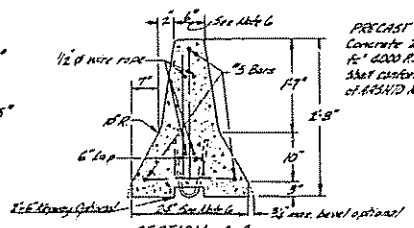




CONNECTING PIN
(See Note 5)



WIRE ROPE DETAIL
(See Note 5)

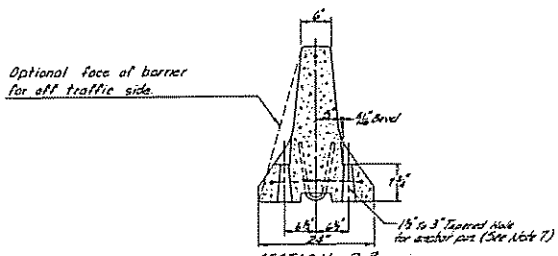


SECTION A-A

PRECAST NOTES:
Concrete 28 Day Design Strength-fc' 4000 P.S.I. Welded Wire Fabric Shall conform to the requirements of AASHTO M55 (ASTM A 82.66 + A 185.69).

NOTE:

1. To facilitate Pin removal, thread Hex. Nut half way onto the Pin and tack weld, or provide a Coupling Nut, tightened sufficiently to prevent loosening. Fill nut with grease to exclude ice or other contaminants.
2. Place concrete barrier on 1" Styrofoam pad when barrier is placed on concrete pavement. Pad shall be 2'x32" centered on joints.
3. Install Type BM-1 or BM-2 barrier delineator at 25 ft spacing. See Std. 4-M-10.01.
4. The connecting pin, washer and nut shall be 1040 steel, heat treated according to A.S.T.M. A-449 and hot dipped galvanized according to A.S.T.M. A-153.
5. The wire rope shall be 1½"Ø - 6x19 I.P.S. wire core with independently wound wire core.
6. Alternate cross-section design with an 8" top width and a 26" bottom width is acceptable.
7. Anchor pins shall be the same as the connecting pin or an approved equal. Four anchor pins shall be used on each barrier end section.



SECTION B-B

REDUCED SIZE
DO NOT SCALE

ROADWAY		
DESIGN		
DRAWN	MXO	6-77
CHECKED		
APPROVED BRIDGE DESIGN ENGR.	9-1-77	
APPROVED ASST. TRAFFIC ENGR.	6-21-77	
REVISIONS		
9-77 ADC 1-79	RDC	6-77

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC DESIGN SERVICES

DESCRIPTION
TEMPORARY CONCRETE BARRIER

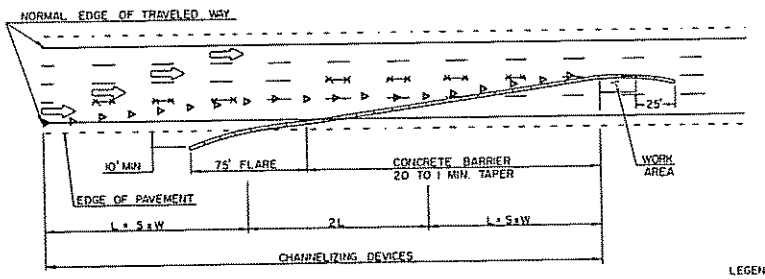
TRAFFIC ENGINEER

SHEET 1 OF 4

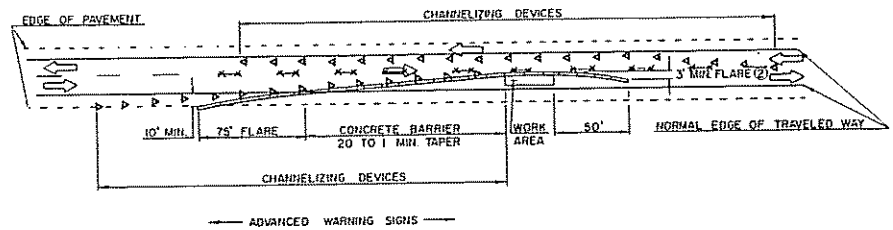
FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	REVISIONS
9		S-585-501	2E	15	

CASA GRANDE-CHANDLER HIGHWAY
RWCD FLOOD CONTROL (BRIDGE)
PINAL COUNTY

CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY



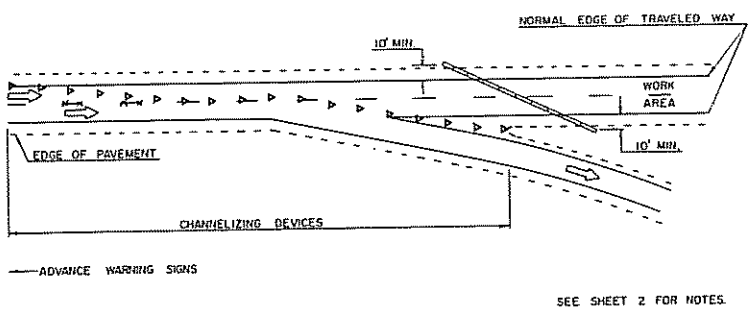
TWO LANE HIGHWAY WITH ONE LANE CLOSED



LEGEND

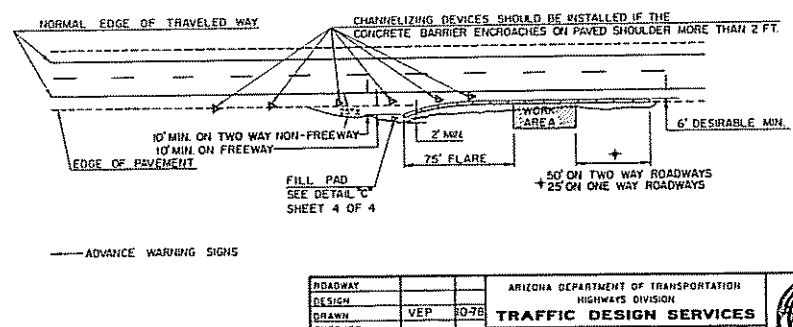
- ▲ CHANNELIZING DEVICES – CONES, BARICADES, VERTICAL PANELS
- TEMPORARY CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- EXISTING STRIPING TO BE REMOVED SEE NOTE 7, PAGE 2 (3)

FOUR LANE DIVIDED HIGHWAY WITH DETOUR OR RAMP



NOT TO SCALE

WORK AREA ADJACENT TO SHOULDER



SEE SHEET 2 FOR NOTES.

REDUCED SIZE DO NOT SCALE

ROADWAY		
DESIGN		
DRAWN	VEP	10-78
CHECKED		
APPROVED SIGNING PROJ ENGR		
APPROVED ASST TRAFFIC ENGR	10-25-78	
REVISIONS	(1) TCB	5-79
(2) RDC 3-79	(3) RDC	2-79

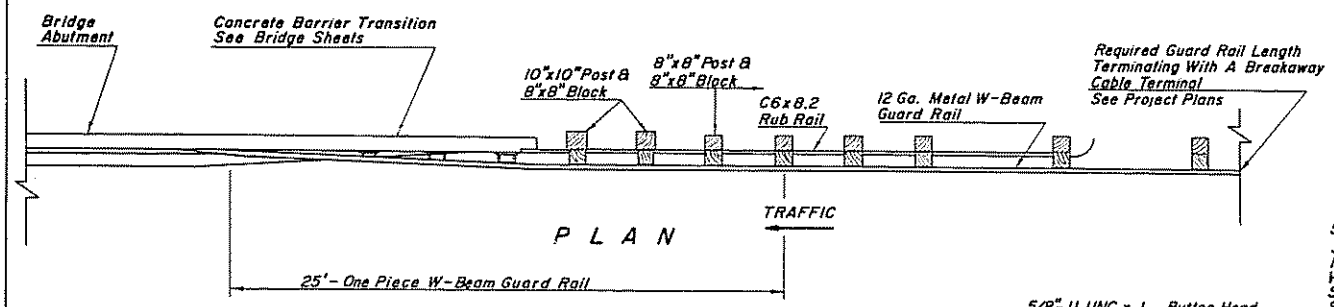
ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC DESIGN SERVICES

DESCRIPTION
TYPICAL APPLICATION OF TEMPORARY CONCRETE BARRIER

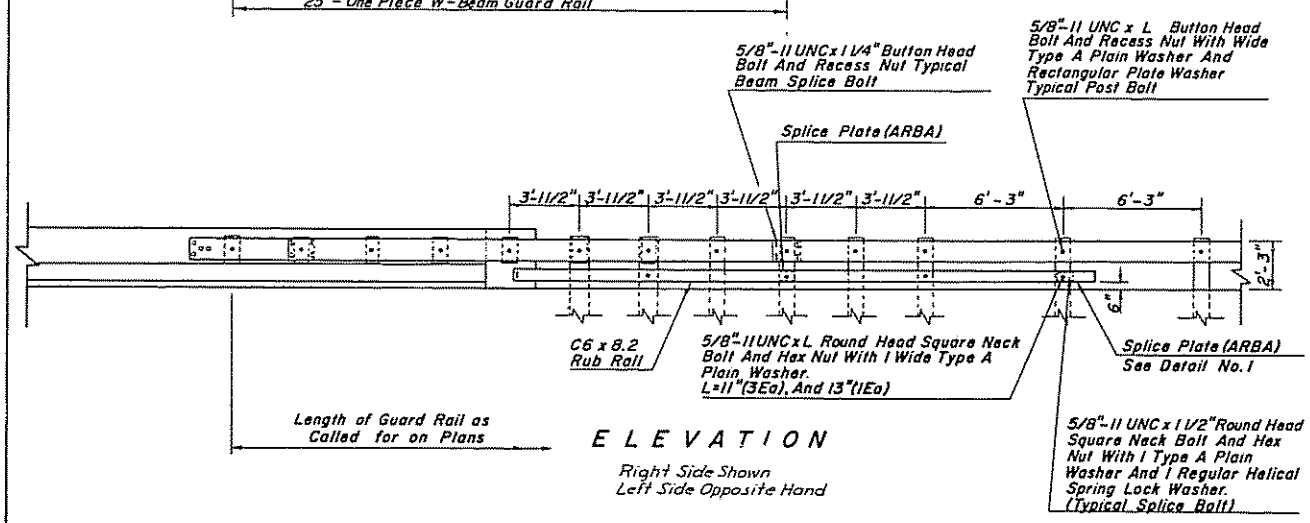
TRAFFIC ENGINEER

CASA GRANDE-CHANDLER HIGHWAY
RWCD FLOOD CONTROL (BRIDGE)
PINAL COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	S-585-501	3	15	

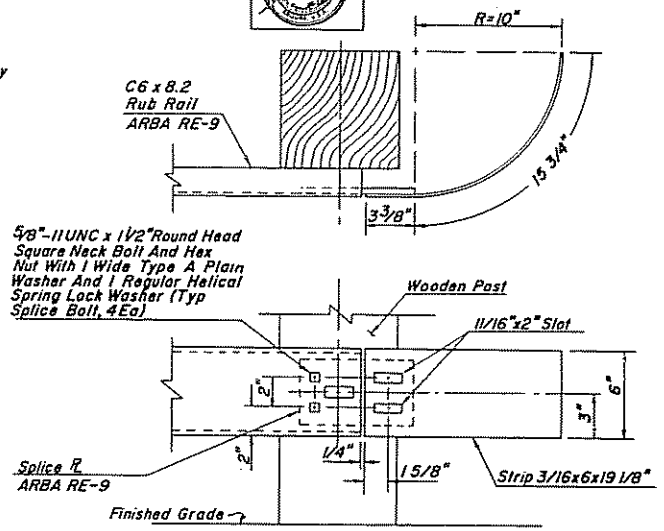


PLAN



ELEVATION

Right Side Shown
Left Side Opposite Hand



DETAIL NO. 1
Rub Rail Detail

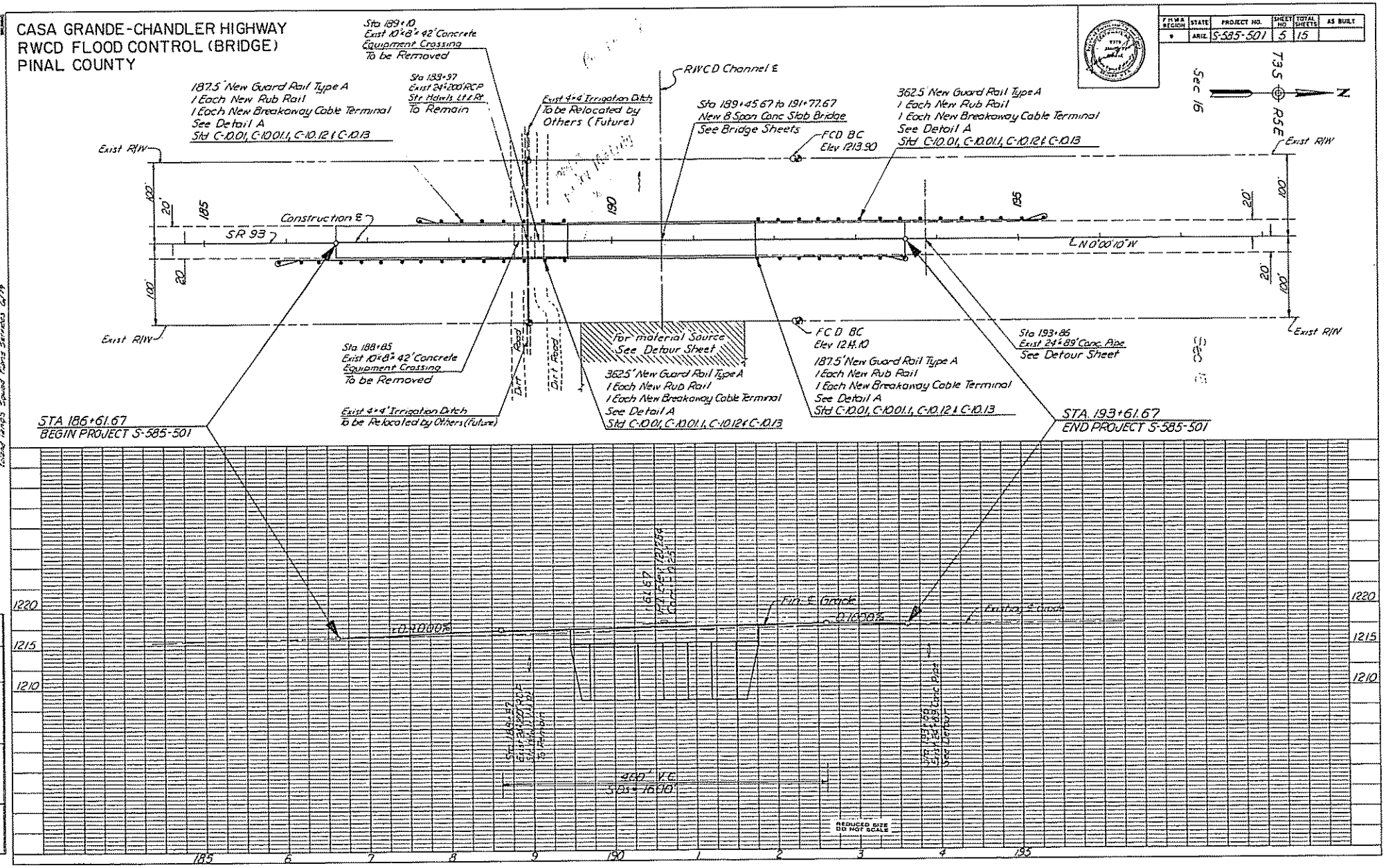
REDUCED SIZE DO NOT SCALE

APPROACH GUARD RAIL TO BRIDGE ABUTMENT INSTALLATION DETAIL

DETAIL **A**

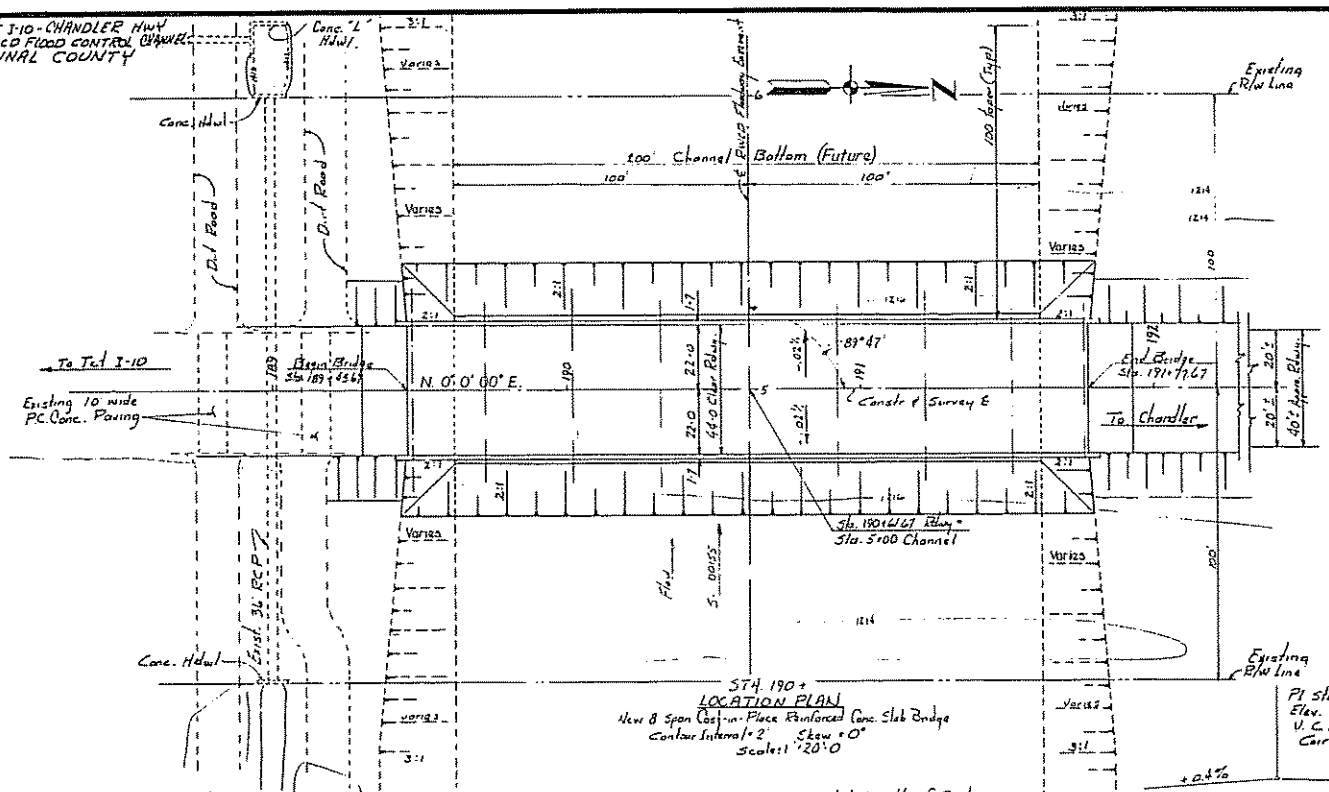
FHWA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	S-585-501	5	15	

CASA GRANDE-CHANDLER HIGHWAY
RWCD FLOOD CONTROL (BRIDGE)
PINAL COUNTY



JCT I-10 - CHANDLER HWY
PWCD FLOOD CONTROL CHANNEL
PINAL COUNTY

FEDERAL AID NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	REVISED
4	ARIZONA	S-585-501	7	13	



GENERAL NOTES -

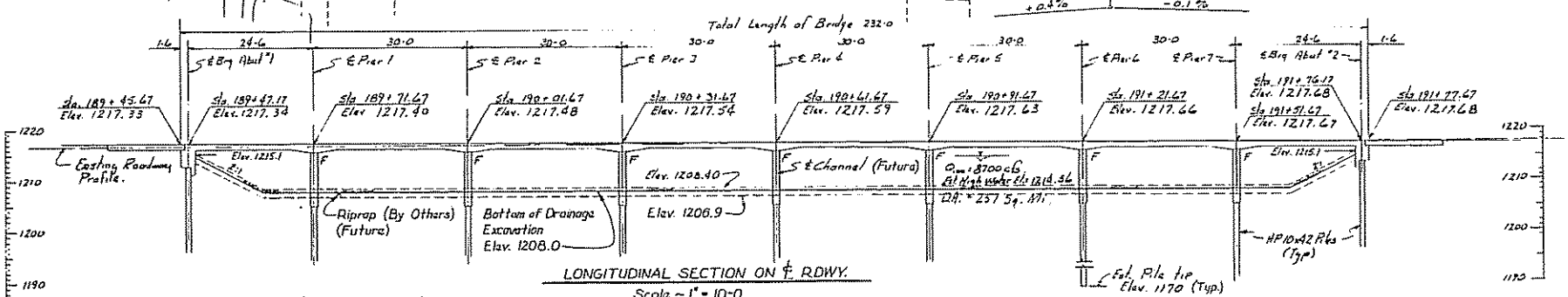
Construction - Std. Specs. Arizona Highway Department Edition of 1969, revised to date.
Design - AASHTO Std. Specs. for Highway Bridges 1977.
Dead Load - Dead load includes allowance of 25 pounds per square foot for future wearing surface.
Loading Class - HS 20-44
Stresses - f_c = 4500 psi - Superstructure, except barriers. (Deck f_c = 1400 psi)
f'_c = 3000 psi - All other Class 'S' Concrete.
f_s = 20,000 psi - Grade 40 reinforcing steel.
f_s = 24,000 psi - Grade 60 reinforcing steel.
All concrete shall be Class S unless noted otherwise.
Reinforcing steel shall conform to ASTM Spec. A 615. Bar sizes #7 and smaller shall be Grade 40. Bar sizes #8 and larger shall be Grade 60.
All reinforcing steel dimensions shall be to center of bars unless noted otherwise.
All reinforcing steel shall have 2" clear cover unless noted otherwise.
Barriers shall be constructed after spans have taken slab dead load deflection.
Dimensions shall not be scaled from drawings.

PILE NOTES:

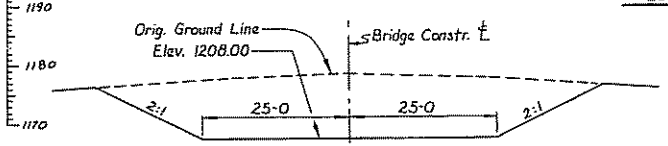
Piles shall be HP 10x42. Pile steel shall conform to ASTM Spec. A 36.
Minimum bearing shall be 55 tons.
Estimated pile tip elevation shall be 1170.0 at Abutments and 1170.0 at Piers. Estimated length at Abutments 48' and at Piers 48'
Excavation for Abutment concrete shall be made to top of pile elevation before piles are driven. Final excavation shall be completed after piles are in place.
Any pile which is driven to a bearing of 1½ times the bearing given on the plans and which reaches a tip elevation within 3' of the estimated tip elevation shall be considered acceptable.

NOTE ~ See Sheet 4 of 9 for Quantities.

PI Sta. 190+61.67
Elev. 1217.84
V.C. 400'
Corr. -0.25'



LONGITUDINAL SECTION ON ℄ RDWY.
Scale ~ 1" = 10'-0



SECTION THRU BRIDGE EXCAVATION

REDUCED SIZE DO NOT SCALE

		DATE
LAYOUT	J. Ryng	4-78
DETAIL		
DESIGNED		
DRAWN	L.C.G.	4-78
CHECKED		
APPROVED		1-79

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STRUCTURES SECTION

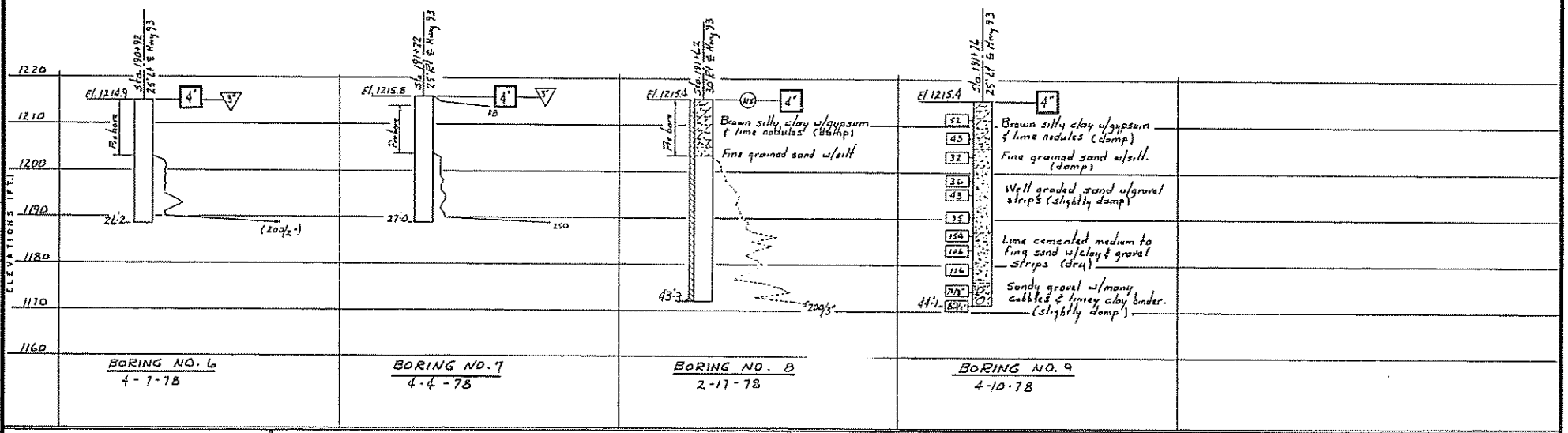
STA 190+
PWCD FLOOD CHANNEL BRIDGE
LOCATION PLAN

SHEET NO.	OF	ROUTE	STATE	STRUCTURE NO.	PROJECT NUMBER
1	9	5833	Final	1806	S-585-501

BRIDGE ENGINEER

JCT I-10-CHANDLER HWY
PWCD FLOOD CONTROL CHANNEL
PINAL COUNTY

FEDERAL AID PROJECT	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	REMARKS
	ARIZONA	S-585-501	9	15	

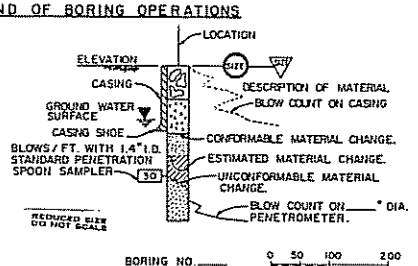


LEGEND OF SOIL SYMBOLS

- COBBLES OR BOULDERS
- GRAVEL
- SAND
- SILT
- CLAY
- VOLCANIC CINDERS, ASH OR TUFF
- LIME
- FILL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- NX CASING
- 3" DIA. PENETROMETER
- AUGER BORING (DRY)
- ____" DIA. BLUE DEMON ROTARY BORING (WET)
- AX CORE BORING (WET)
- ____" DIA. TRICONE ROTARY BORING (WET)
- TEST PIT



NOTES

INFORMATION CONTAINED ON THIS SHEET IS MADE AVAILABLE TO PROSPECTIVE BIDDERS FOR INFORMATION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A PART OF THE CONTRACT PAPERS.
CLASSIFICATION OF MATERIALS IS IN ACCORDANCE WITH AASHTO "MANUAL ON FOUNDATION INVESTIGATIONS."
CLASSIFICATION OF EARTH MATERIALS IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.
THE ABSENCE OF A GROUND WATER INDICATION DOES NOT CONSTITUTE A REPRESENTATION THAT THE GROUND WATER WILL NOT BE PRESENT DURING CONSTRUCTION. GROUND WATER IS INDICATED HEREIN ONLY WHEN FOUND DURING THE FOUNDATION INVESTIGATION AND REPRESENTS THAT CONDITION ONLY ON THE DATE OF THE INVESTIGATION.
INFORMATION IS DEVELOPED AS ACCURATELY AS POSSIBLE BY THE METHODS UTILIZED, HOWEVER, THE STATE ACCEPTS NO RESPONSIBILITY FOR ANY CONDITIONS ENCOUNTERED WHICH MAY BE AT VARIANCE FROM INFORMATION CONTAINED HEREIN.
NX CASING AND THE 3" DIA. PENETROMETER ARE DRIVEN WITH 342 POUND HAMMER, WITH 30" FREE FALL, NO CUSHION.
STANDARD PENETRATION SPOON SAMPLER AND THE 2" DIAMETER PENETROMETER ARE DRIVEN WITH 140 POUND HAMMER, WITH 30" FREE FALL, NO CUSHION.

		DATE
LAYOUT		
DESIGN		
DESIGNED		
DRAWN		4-78
CHECKED		4-78
APPROVED		5-79

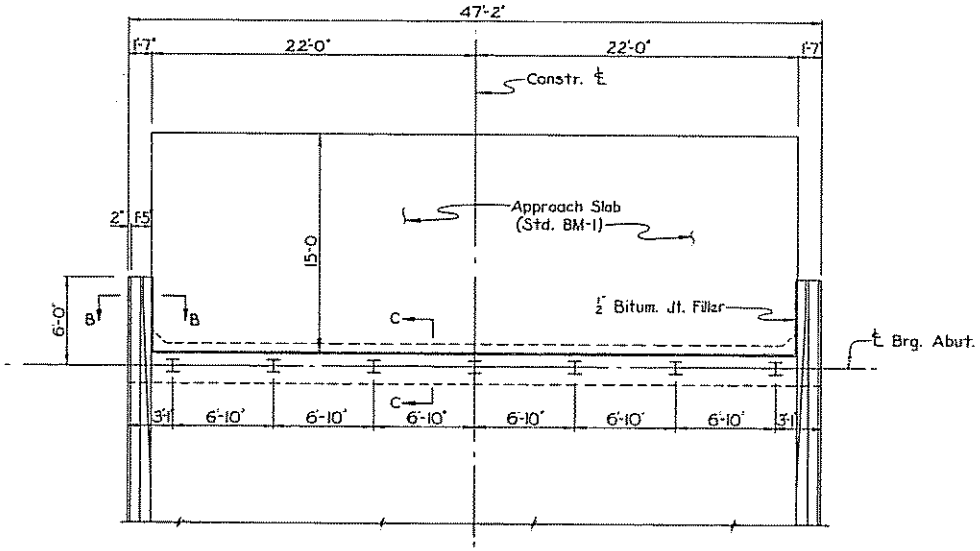
ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STRUCTURES SECTION
STH 190 +
PWCD FLOOD CHANNEL BRIDGE
FOUNDATION DATA SHEET

SHEET NO.	OF	STATE	FEDERAL PROJECT NO.	PROJECT NUMBER
3	9	5793	Pinal 1806	S-585-501

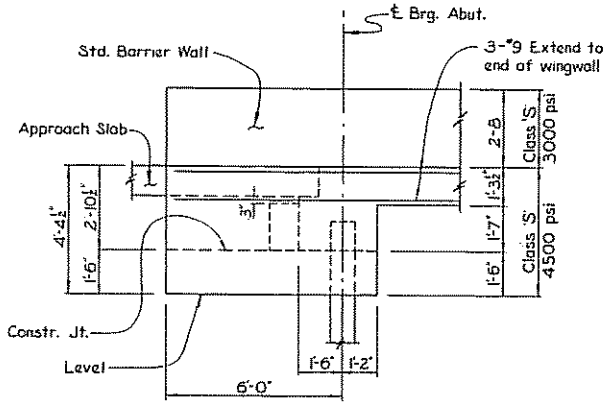
BRIDGE ENGINEER

JCT. I-10 - CHANDLER HWY.
RWCD FLOOD CONTROL CHANNEL
PINAL COUNTY

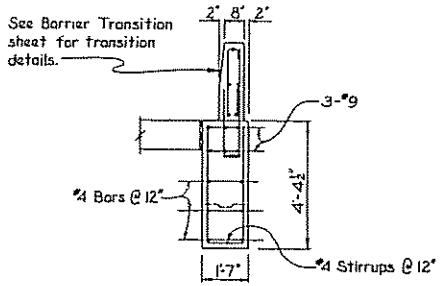
9	ARIZONA	S-585-501	11	15	



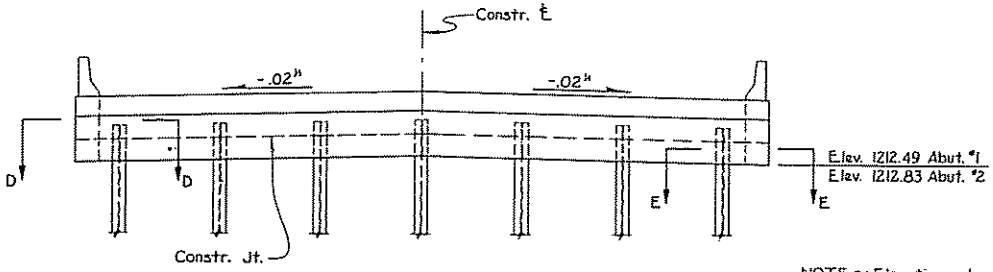
PLAN



WING WALL ELEVATION



SECTION B-B



ELEVATION

NOTE ~ Elevations shown are on ℄ Brg.

REDUCED SIZE DO NOT SCALE

		DATE
LAYOUT		
DESIGN	C.G.W.	12-78
DESIGN CK'D		
DRAWN	RWY	1-79
CHECK'D		
APPROVED	W.J. Jackson	3-79

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STRUCTURES SECTION

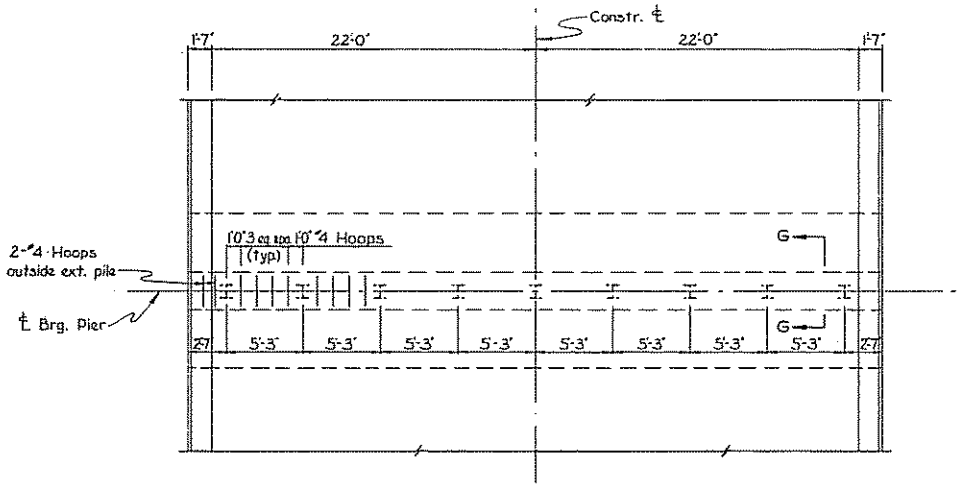
STA. 190+
RWCD FLOOD CHANNEL BRIDGE
ABUTMENT DETAILS

SHEET NO.		ROUTE	COUNTY	STRUCTURE NO.	PROJECT NUMBER
5	of 9	SR.93	Pinal	1806	S-585-501

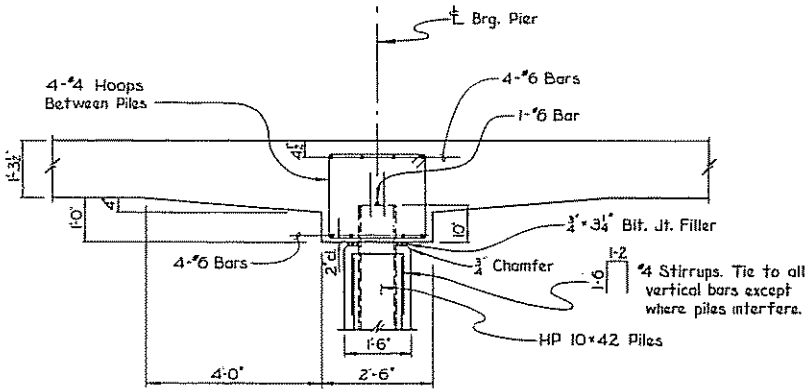
BRIDGE ENGINEER

JCT. I-10 – CHANDLER HWY.
RWCD FLOOD CONTROL CHANNEL
PINAL COUNTY

FED. RD. DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	REFERENCE
9	ARIZONA	S-585-501	13	15	

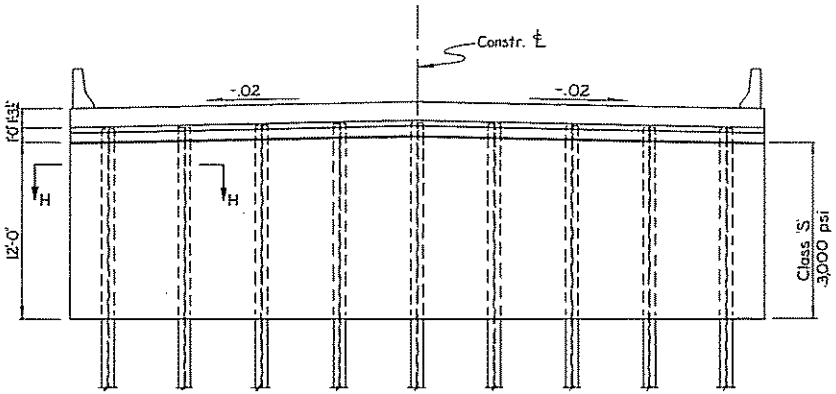


PLAN



SECTION G-G

SECTION H-H



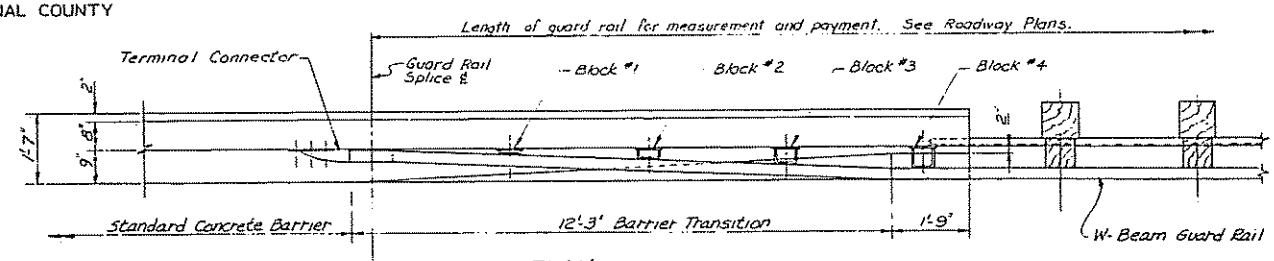
ELEVATION

REDUCED SIZE DO NOT SCALE

		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STRUCTURES SECTION
LAYOUT			
DESIGN	C.G.W.	12-78	STA. 190+ RWCD FLOOD CHANNEL BRIDGE PIER DETAILS
DESIGN CHK'D			
DRAWN	R.W.Y.	1-79	
CHECKED			
APPROVED		2-79	
SHEET NO. 7 OF 9		SR93	Pinal 1806 S-585-501

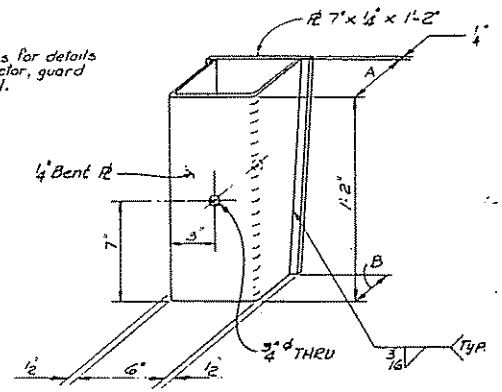
JCT. I-10 — CHANDLER HWY.
RWCD FLOOD CONTROL CHANNEL
PINAL COUNTY

FISCAL YEAR	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZONA	S-585-501	15	15	

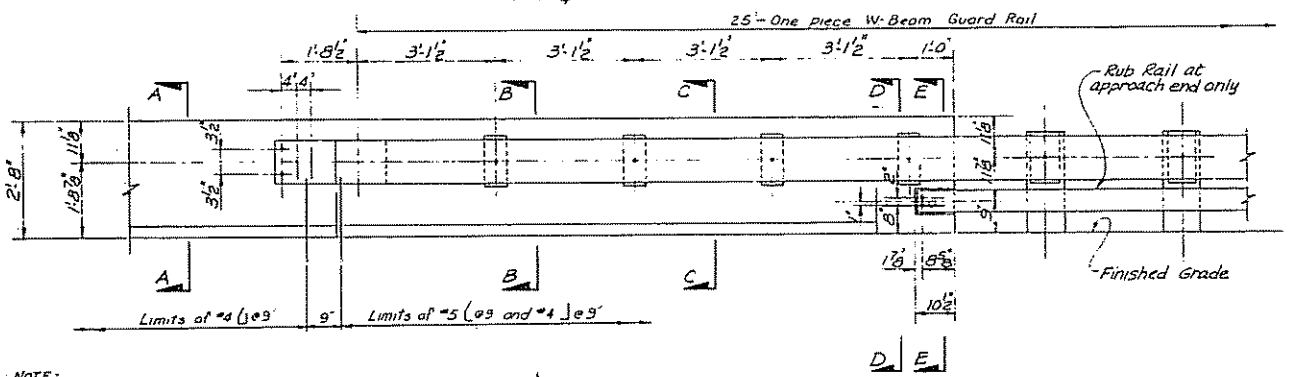


PLAN
Scale: 3/4" = 1'-0"

NOTE:
See Roadway Plans for details of terminal connector, guard rail, and rub rail.



BLOCK DETAILS
No Scale

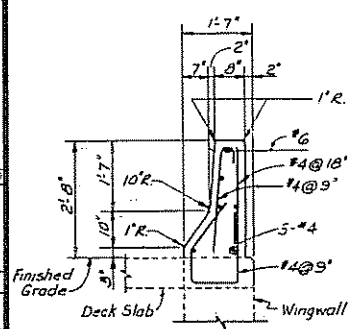


NOTE:
For any rustication treatment of exterior face of barrier see Bridge Plans.

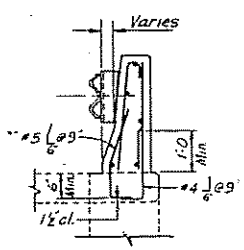
ROADWAY ELEVATION
Scale: 3/4" = 1'-0"

BLOCK #	DIMENSION A	DIMENSION B
1	7/8"	5/8"
2	2 3/8"	1 3/4"
3	3 15/16"	2 15/16"
4	5 5/16"	3 15/16"

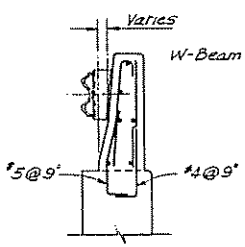
NOTE:
Block #1 may be a solid 6"x14" plate tapered in thickness from 1 1/8" to 7/8".



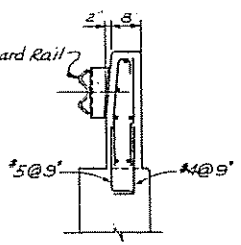
SECTION A-A
Scale: 3/4" = 1'-0"



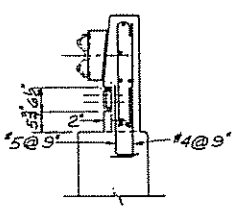
SECTION B-B
Scale: 3/4" = 1'-0"



SECTION C-C
Scale: 3/4" = 1'-0"



SECTION D-D
Scale: 3/4" = 1'-0"



SECTION E-E
Scale: 3/4" = 1'-0"

NOTE: For details not shown in Sections B-B, C-C, D-D & E-E, see Section A-A.

REDUCED SIZE DO NOT SCALE

GENERAL NOTES:

Ends of all Concrete barriers shall be provided with Guard Rail connections.
Ends of barrier at approach end only shall be provided with Rub Rail connection.
Terminal Connectors, Blocks and Blocking Plates shall be furnished and installed with roadway approach guard rail.
Connect Terminal Connectors with 4-7/8" ϕ high strength bolts set in internally threaded tubular expansion anchors having an externally slit expansion ~~element~~ and a single cone expander. Tensile proof test load in 3000psi concrete shall be 7,800 lbs. or more.
Connect Rub Rail and blocks to barrier with 5/8" ϕ high strength bolts set in internally threaded tubular expansion anchors having an externally slit expansion element and a single cone expander. Tensile proof test load in 3000psi concrete shall be 5,100 lbs. or more.
The Terminal Connectors, Blocks, and Block Plates shall be galvanized after fabrication in accordance with A.S.T.M. Specs. A123.
All high strength bolts shall be galvanized in accordance with A.S.T.M. Specs. A153.
Structural steel shall conform to A.S.T.M. Specs. A36 unless noted otherwise.
ARBA-RE4 Back up plates required behind rail at metal blocks.

		DATE
LAYOUT		
DESIGN	K.W.	9-78
DESIGN CHK		
DRAWN	R.L.W.	9-78
TRACED		
APPROVED	R. Powell	9-78
SHEET NO. 9 - 9	S.R.93	

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STRUCTURES SECTION

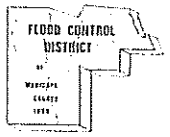
STA. 190+
RWCD FLOOD CHANNEL BRIDGE
CONCRETE BARRIER TRANSITION

Pinal | 1806 | S-585-501

MASTER

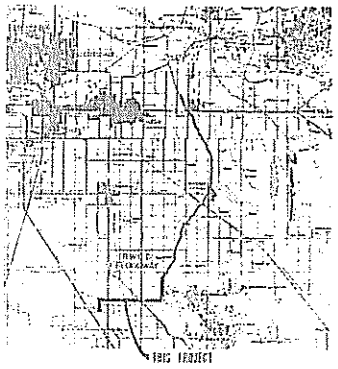
ROOSEVELT WATER CONSERVATION DISTRICT FLOODWAY

FLOOD CONTROL DISTRICT of Maricopa County

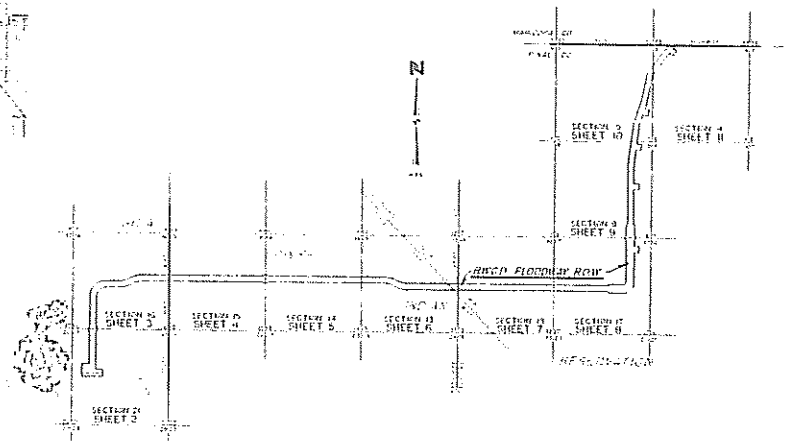


RIGHT-OF-WAY PLANS

REACH 1 & REACH 2



VICINITY MAP



SHEET INDEX MAP

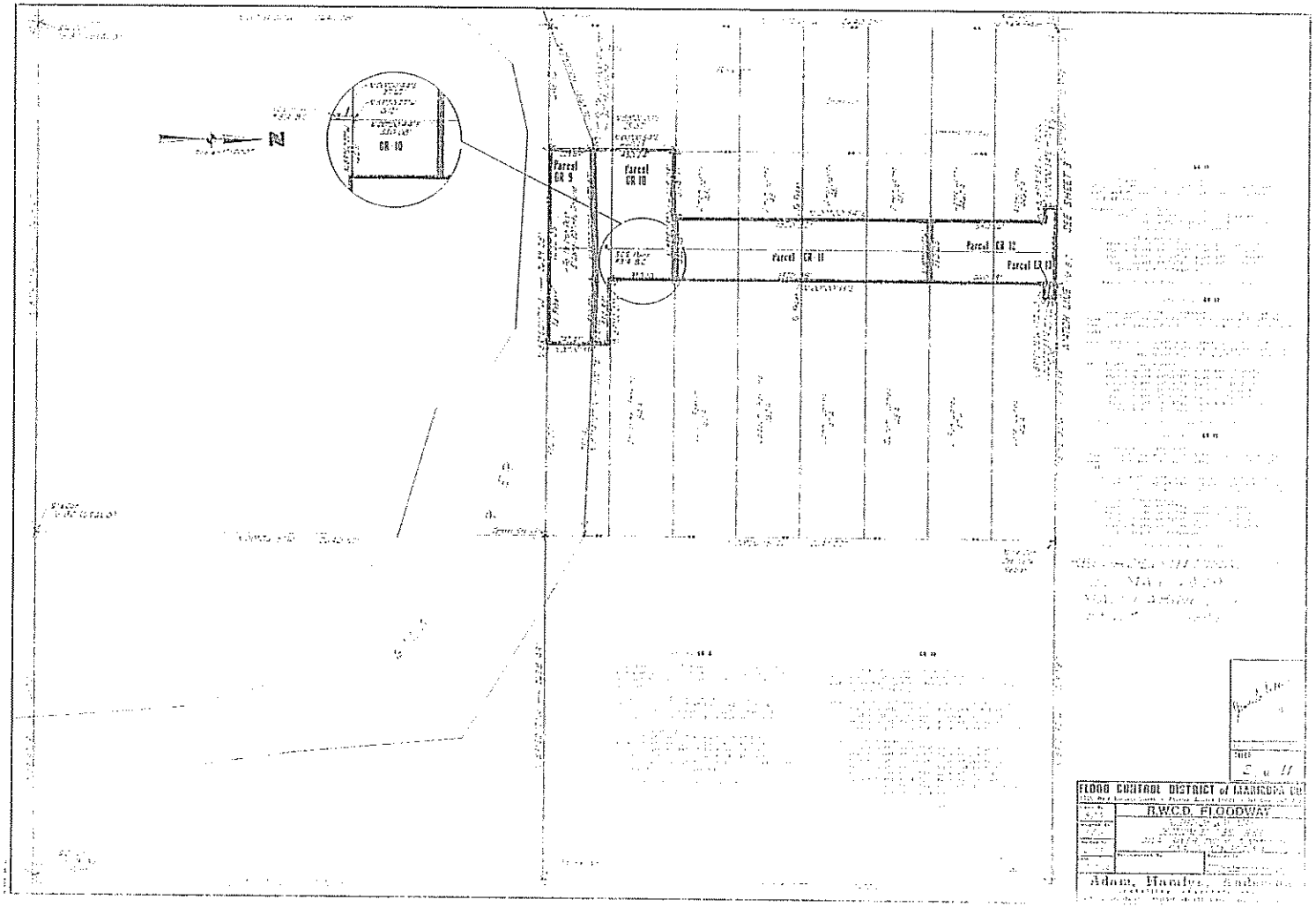
LEGEND

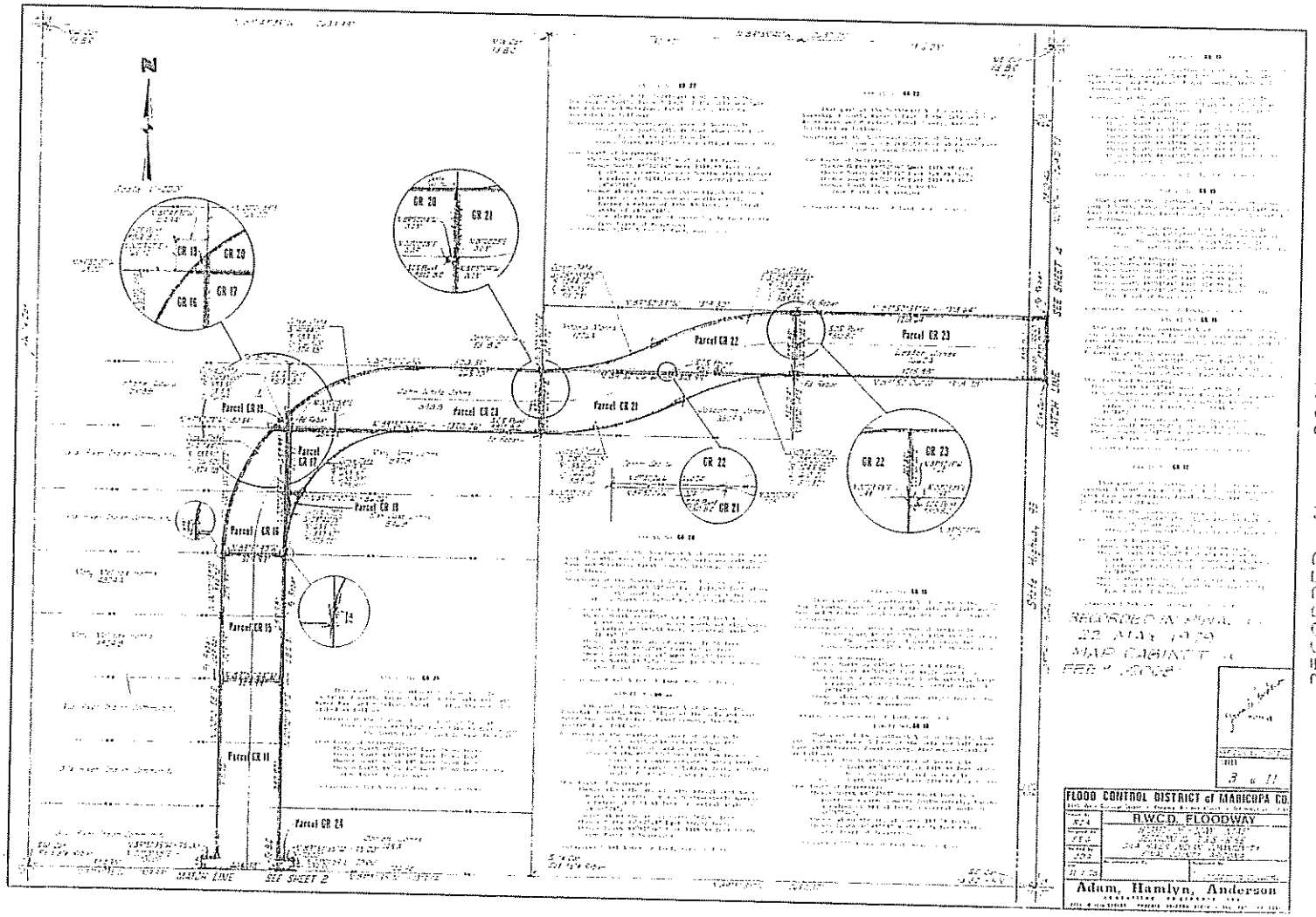
APPROVALS

APPROVED BY

REVIEWED BY

Adam, Hamlyn, Anderson


N
CR 10
Parcel CR 9
Parcel CR 10
Parcel CR 11
Parcel CR 12
Parcel CR 13
FLOOD CONTROL DISTRICT of MARICOPA CO
R.W.C.D. FLOODWAY
Adam Hamilton



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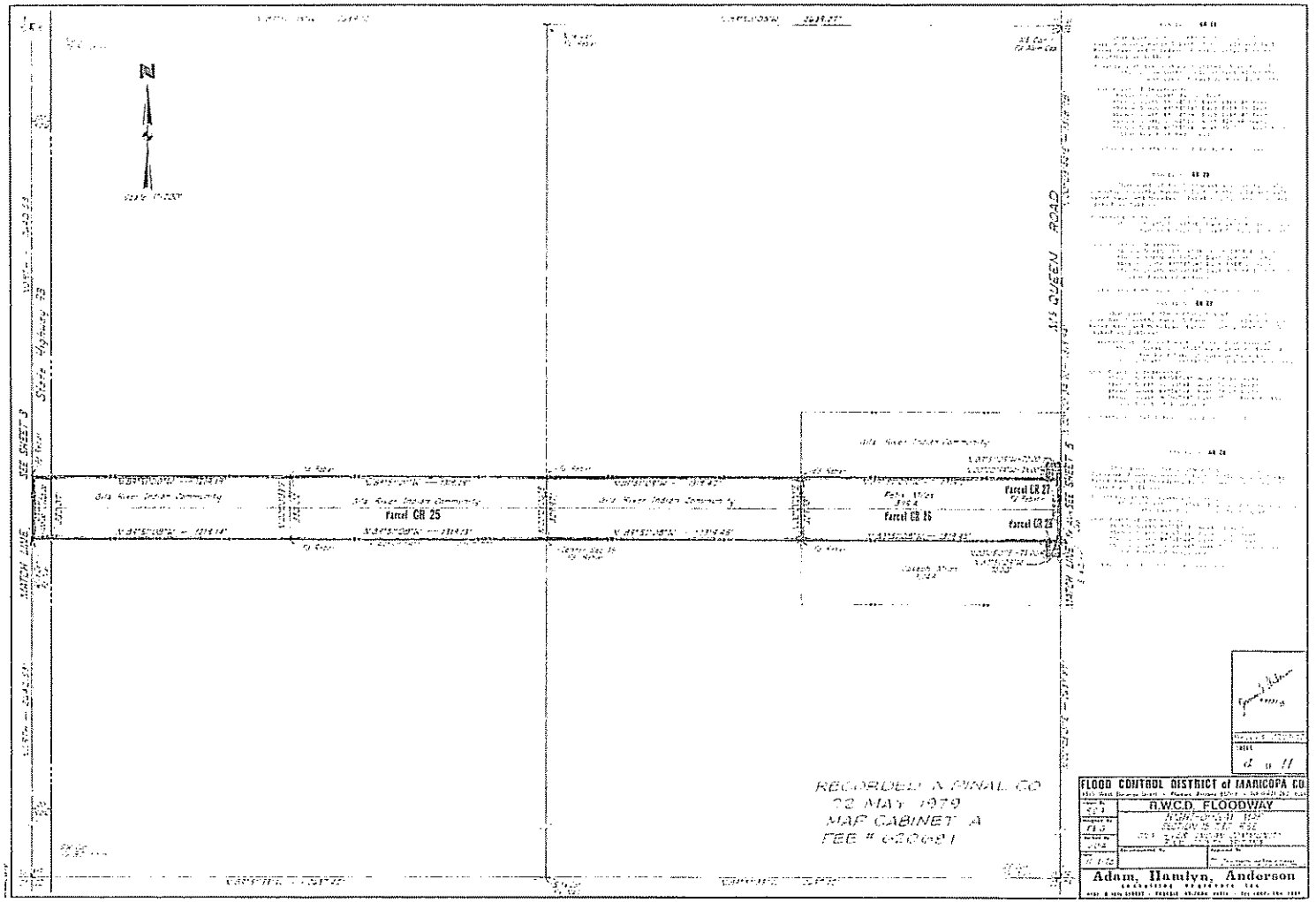
MARICOPA COUNTY
BOOK 209
PAGE 42



BOOK 209
PAGE 42

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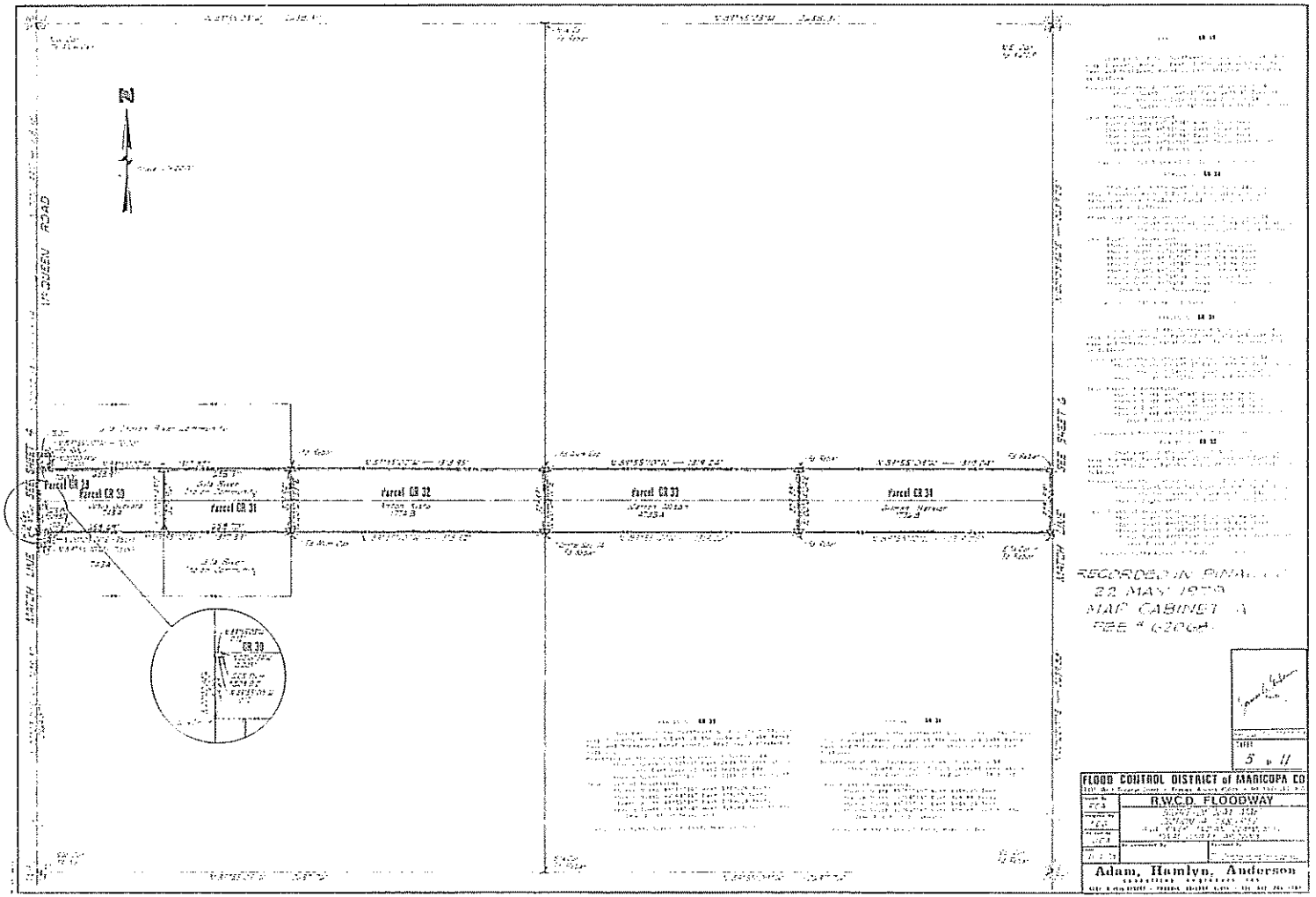
MARICOPA COUNTY



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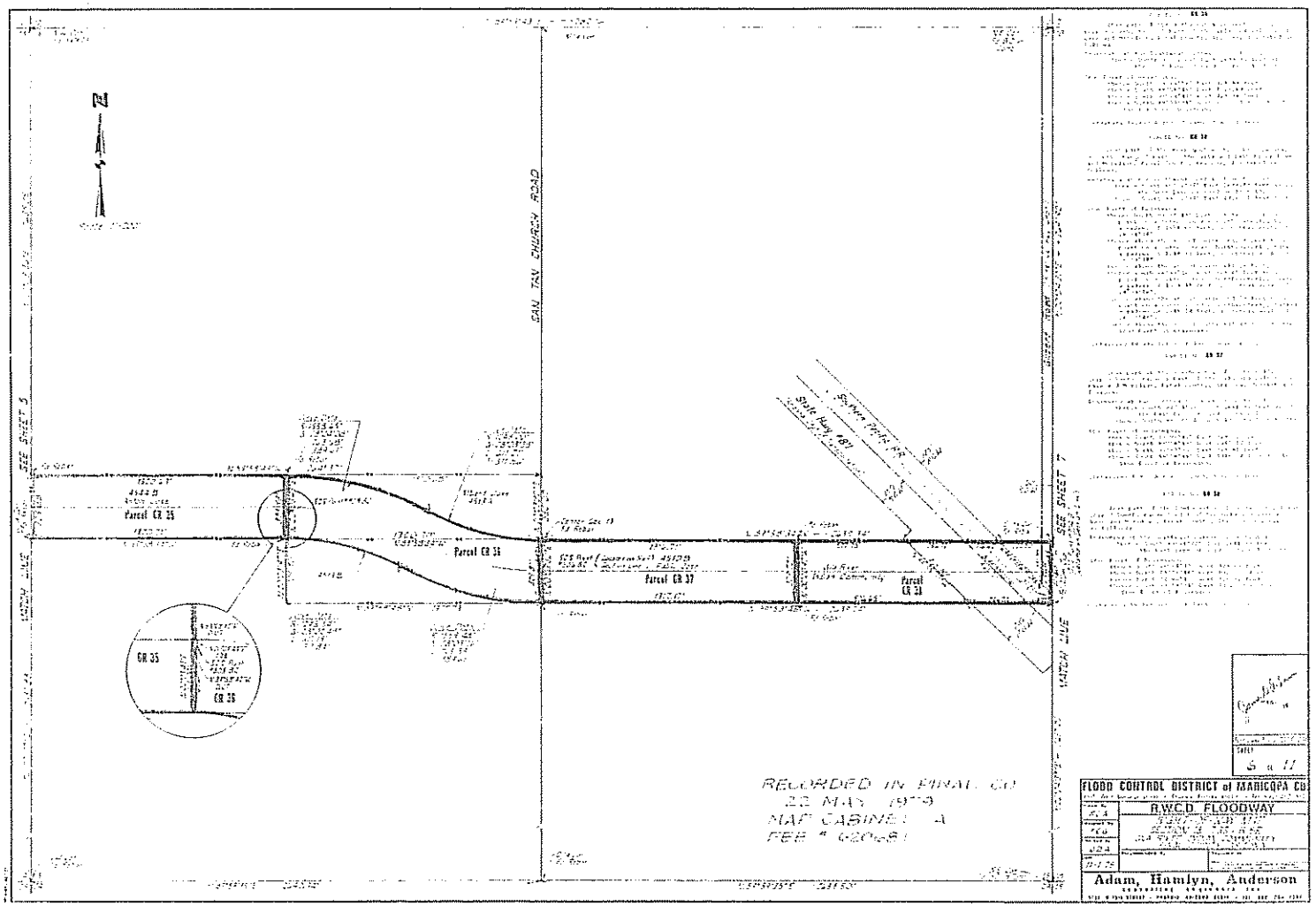
MARICOPA COUNTY PAGE 42



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BOOK 209
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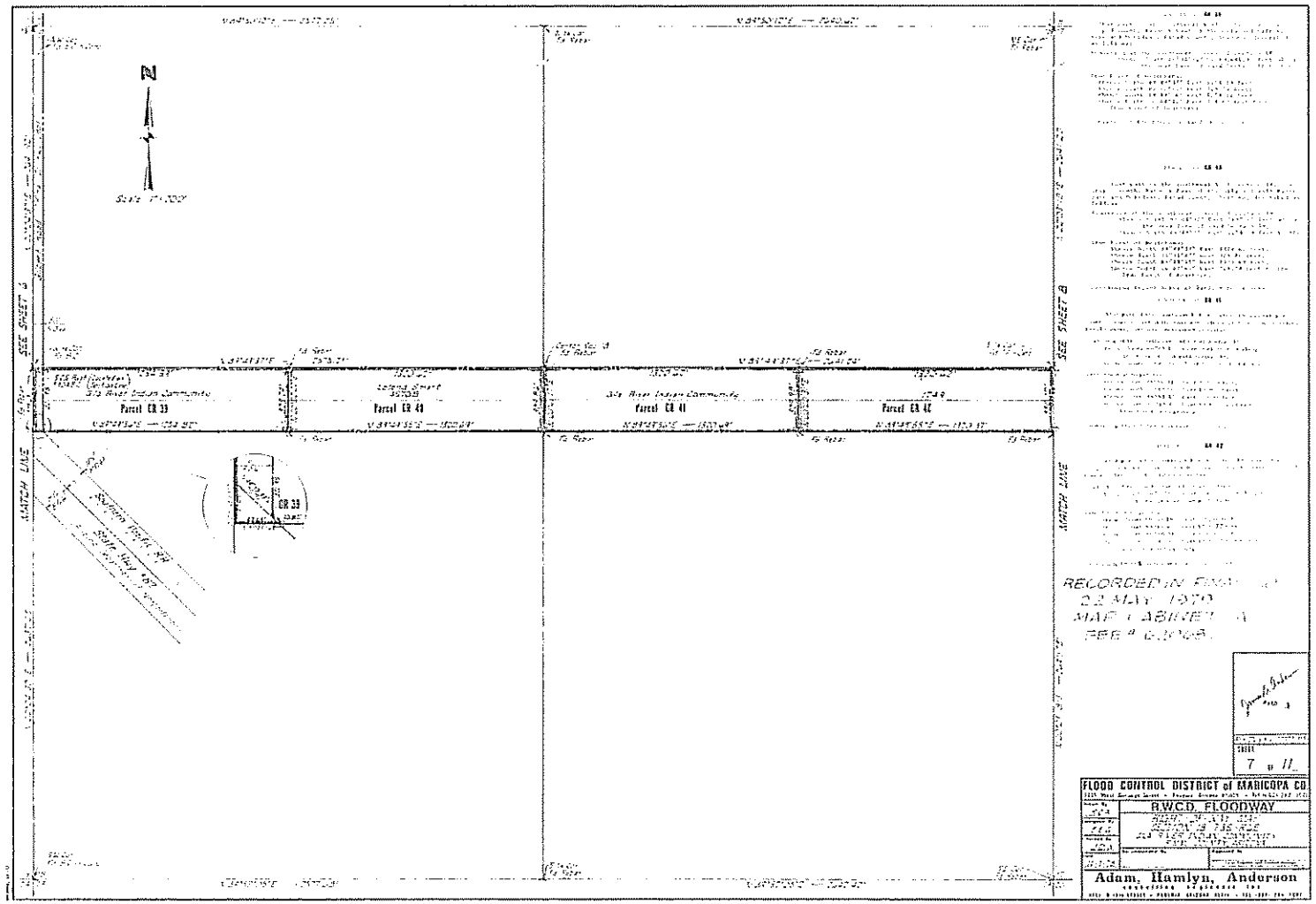

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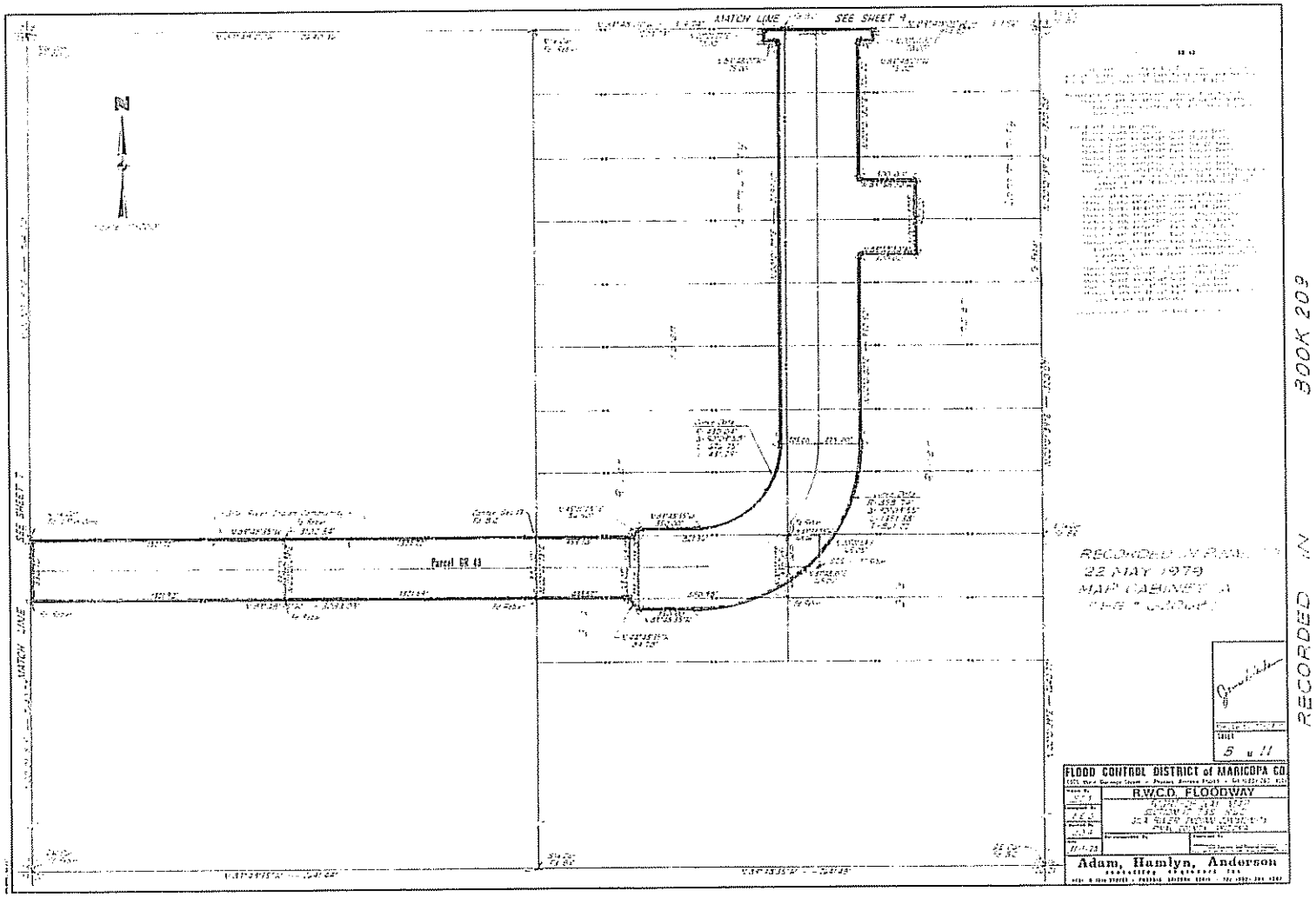

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PAGE 42

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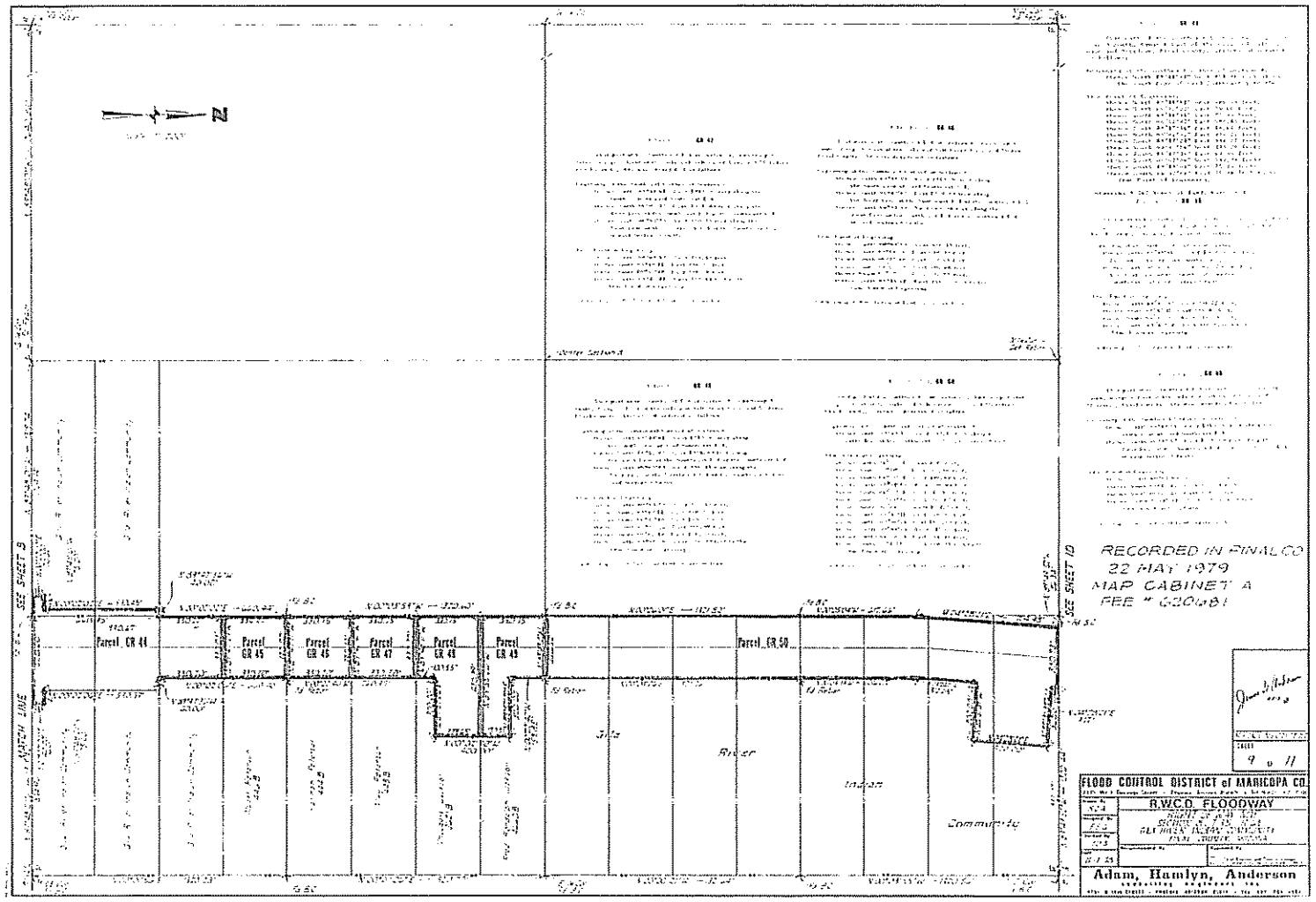

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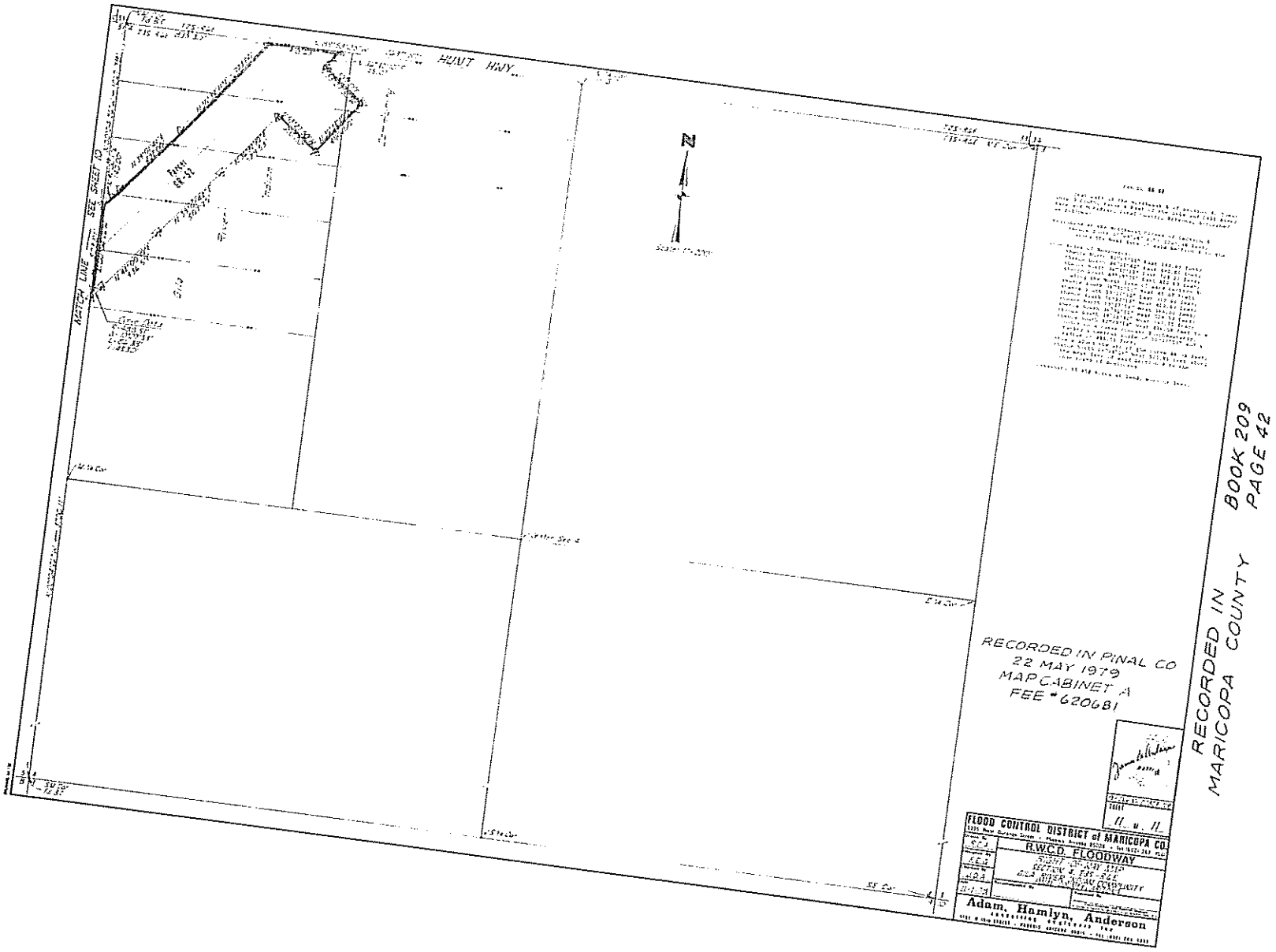

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PAGE 42