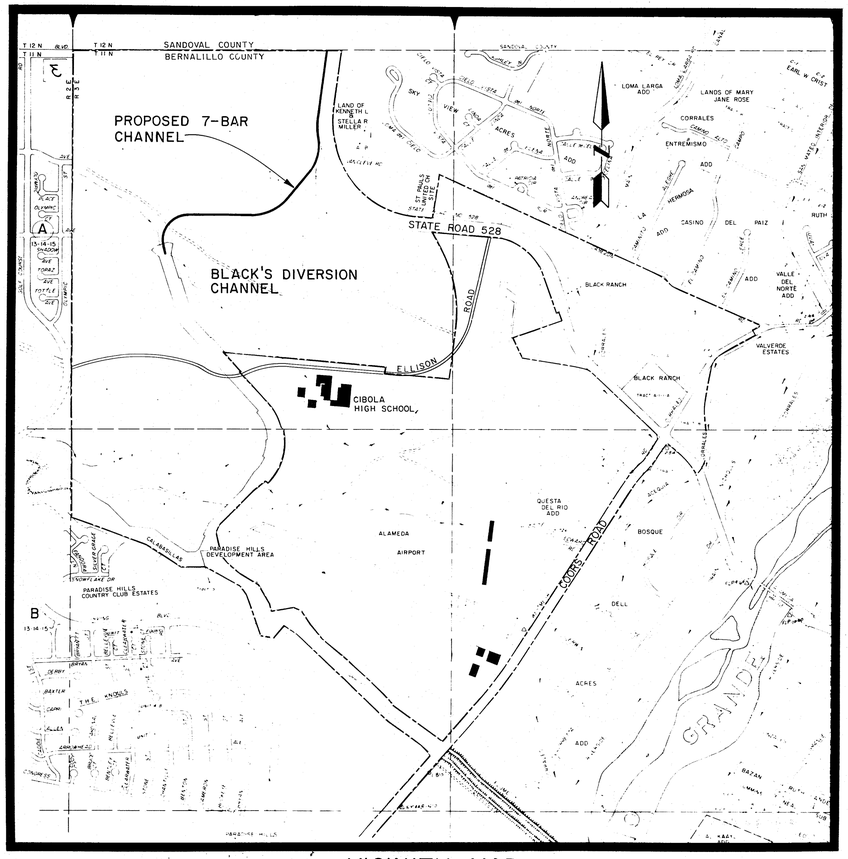
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

CONSTRUCTION PLANS FOR 7-BAR CHANNEL

BOHANNAN HUSTON INC.



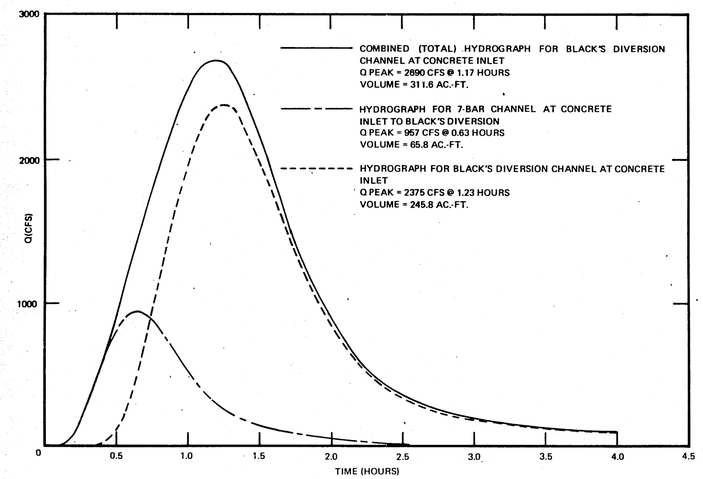
VICINITY MAP

SCALE: 1" = 1000'

GENERAL NOTES

1. THE REFERENCE SPECIFICATIONS IS THE NEW MEXICO STATE HIGHWAY DEPARTMENT, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, "EDITION OF 1976, AND ALL MODIFICATIONS THERETO.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING STRUCTURES AND OBSTRUCTIONS, RIPRAP, BROKEN CONCRETE, AND OTHER LIKE MATERIAL NOT PERMITTED TO REMAIN AS DESIGNATED ON THE PLANS OR BY THE ENGINEER. THIS WORK SHALL BE PAID FOR UNDER THE BID ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS."
3. THE CONTRACTOR WILL BE EXPECTED TO PRESERVE ALL SURVEY CONTROL POINTS INCLUDING CUT STAKES, MONUMENTS, REFERENCE POINTS, ETC. DELAYS ARISING OUT OF INADVERTENT DISTURBANCE OF SUCH POINTS WILL NOT SERVE AS JUSTIFICATION FOR TIME EXTENSIONS.
4. FROM STA. –1+29.09 TO STA. 1+75.00 THE CONCRETE SHALL BE 4000 PSI 28 DAY STRENGTH. EVERYWHERE ELSE THE CONCRETE SHALL BE 3000 PSI 28 DAY STRENGTH. ALL CONCRETE SHALL HAVE FLY ASH ADDED, SEE SECTION 503 OF THE TECHNICAL SPECIFICATIONS.
5. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS UNLESS SHOWN OTHERWISE.
6. THE SIX INCHES OF GRAVEL FOR THE MAINTENANCE ROAD SHALL BE CLASS I BASE COURSE.
7. THE FOLLOWING ITEMS SHALL BE INCIDENTAL AND WILL BE SUBSIDIARY OBLIGATION OF THE CONTRACTOR UNDER OTHER CONTRACT ITEMS: ETERNAFLEX SEALANT; SPONGE RUBBER FILLER; EXPANSION JOINT FILLER; SUBGRADE PREPARATION; EXCAVATION AND BACKFILL FOR CULVERTS AND MINOR STRUCTURES; MYLAR SHEETING; PVC PIPE; EXPANSION CAPS; AND STEEL SUPPORT CHAIRS.
8. THE PORTLAND CEMENT CONCRETE AND BAR REINFORCEMENT WILL BE PAID UNDER SECTIONS 509 AND 515 OF THE STANDARD SPECIFICATIONS.
9. REMOVAL OF PART OF THE EXISTING BLACK'S DIVERSION INLET STRUCTURE FROM STA. –1+29.09 TO STA. 1+50.65 CAN BE DONE ONLY FROM THE MONTHS OCTOBER THROUGH JUNE AND MUST NOT BE OUT OF SERVICE FOR A PERIOD GREATER THAN 60 DAYS. THE BERM AT STA. 1+45.65 CANNOT BE CONSTRUCTED UNTIL AFTER THE PROPOSED CONFLUENCE STRUCTURE IS FUNCTIONAL. THIS CONTRACT SHALL BE COMPLETED BY NO LATER THAN JUNE 30, 1983.
10. PRIOR TO CHANNEL CONSTRUCTION, THE BARBED WIRE FENCE TO BE LOCATED ON THE SOUTH OR EAST TEMPORARY CONSTRUCTION EASEMENT, MUST BE INSTALLED AND THE BLACK FAMILY CONTACTED SO THEIR CATTLE CAN BE MOVED SOUTH OF THE NEW BARBED WIRE FENCE.
11. THE EXISTING STATE ROAD 528 RIGHT-OF-WAY FENCE IN THE TEMPORARY CONSTRUCTION EASEMENT, CAN BE REMOVED AFTER THE BARBED WIRE FENCE (SEE NOTE 10) IS CONSTRUCTED. THIS FENCE MUST BE REBUILT IN ITS ORIGINAL LOCATION AT COMPLETION OF THE PROJECT.
12. BAR CLEAR DISTANCE BETWEEN SURFACE OF BAR AND FACE OF CONCRETE SHALL BE TWO INCHES FOR FORMED ON TOP SURFACES AND THREE INCHES WHEN CONCRETE IS POURED AGAINST EARTH.
13. CONTRACTOR SHALL SUPPLY SHOP DRAWINGS TO THE ENGINEER FOR ALL FABRICATED MATERIALS TO BE FURNISHED AND INSTALLED IN THIS PROJECT.

INDEX



HYDROGRAPHS AT BLACK'S DIVERSION INLET

THE 7-BAR CHANNEL IS DESIGNED TO CARRY THE 100-YEAR STORM RUNOFF FROM THE 2.2 SQ. MI. RIO RANCHO AREA TO THE BLACK'S DIVERSION. THE ABOVE FIGURE GIVES THE HYDROGRAPHS AT THE CONFLUENCE OF THE 7-BAR CHANNEL AND THE BLACK'S DIVERSION. THE DESIGN DISCHARGE FOR THE 7-BAR CHANNEL IS 1000 CFS. FOR A-BREAKDOWN OF THE HYDROLOGY, SEE "DESIGN MEMORANDUM FOR 7-BAR CHANNEL," BY BOHANNAN–HUSTON, INC.

RECORD DRAWINGS
DATE

1	2	3	4	5	6	7	8	9	10	11	12
0	8	0	0	1		0	2	8	6		

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

PREPARED UNDER THE DIRECTION OF
8-25-82

JOB NO. 11791

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7-BAR CHANNEL
VICINITY MAP & INDEX

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO.

SHEET 2 OF 22

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

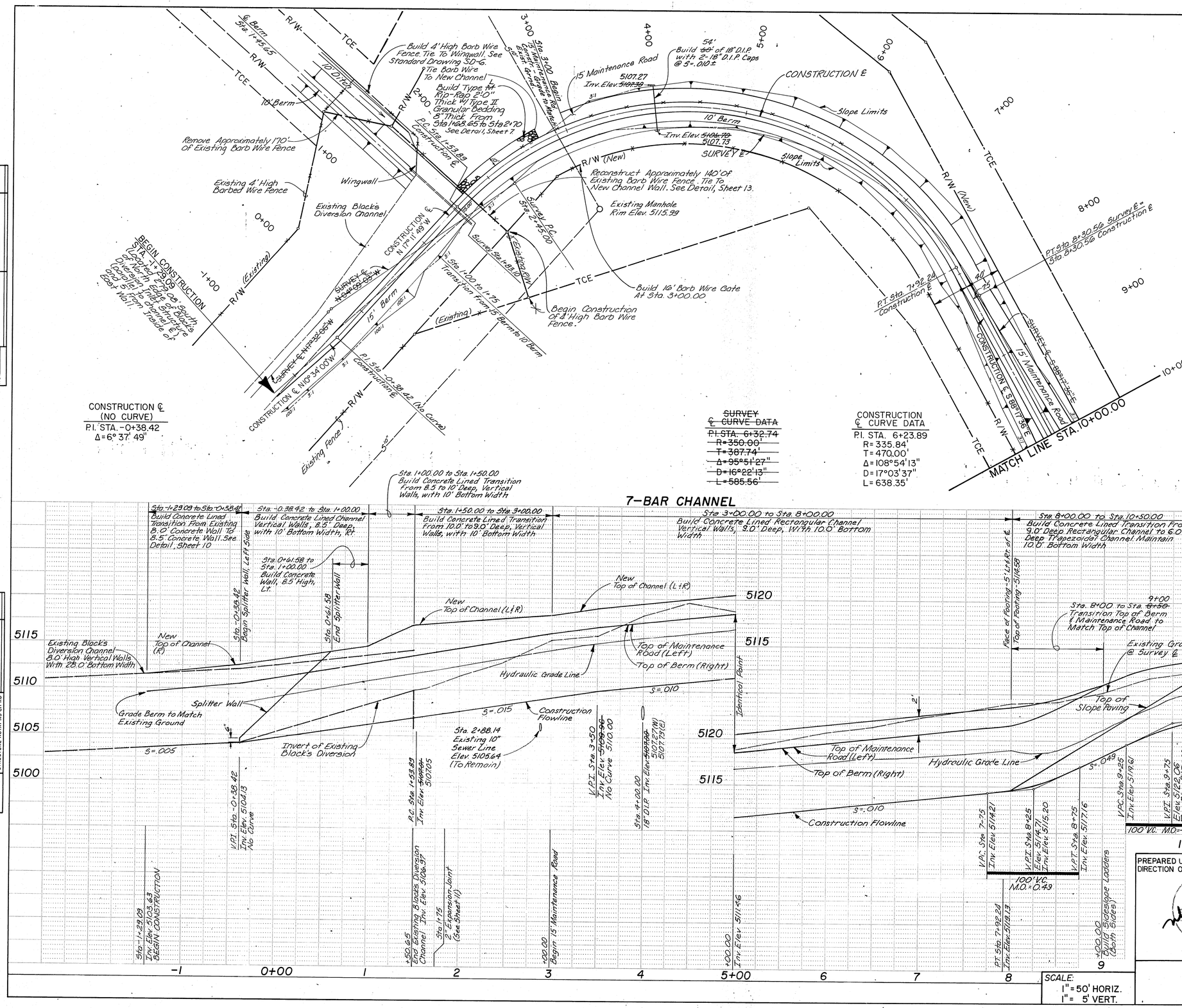
BENCH MARKS

SURVEY INFORMATION
NO. | BY | DATE

REFERENCES
MAP NO.
EST. NO. | W.O. NO.

NO.	DATE	REMARKS	BY

REVISIONS
DESIGN
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82



NOTES:

1. For berm grading plan, see sheet 7.
2. For confluence details, see sheet 10.
3. For berm headwall and wingwall, see sheet 11.
4. From Sta. 2+50.00 to Sta. ~~7+86.00~~ 10+50.00 build 4' high barb wire fence, left side, next to vertical wall.
5. At Sta. 1+50.65 build 4' high breakaway barb wire fence, see sheet 13 for details.
6. If the Specific Gravity of the rip-rap is greater than 2.5 then Type M may be replaced with Type L of 18" thick. Type L was installed on this project.
7. Concrete slope paving in transition area, Sta 8+00.00 to Sta. 10+50.00 was poured approximately 1'-0" thick as contractor chose to pour thicker concrete in lieu of adding and compacting fill dirt.

~~SURVEY ℄ CURVE DATA~~
~~P.I. STA. 6+32.74~~
~~R=350.00'~~
~~T=387.74'~~
~~Δ=95°51'27"~~
~~D=16°22'13"~~
~~L=585.56'~~

CONSTRUCTION ℄ CURVE DATA
P.I. STA. 6+23.89
R=335.84'
T=470.00'
Δ=108°54'13"
D=17°03'37"
L=638.35'

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
NOTE BOOK	B. M. NOTED		
NO.	STRUCTURE NOTATNS CH'KD		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	R/W CHECKED		
NOTE BOOK	ALT. R/W CHECKED		
NO.			

REFERENCES					
MAP NO.					
EST. NO.					
W.O. NO.					

SURVEY INFORMATION			
NO.	BY	DATE	

AS-BUILT INFORMATION	
CONTRACTOR	
WORK ORDERED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
T.B.M. No. 205 Elev. 5110.55
Chiseled "□" located approximately 459 feet south of the Black's Diversion inlet structure on the east wall.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82

REDUCED DRAWINGS
DATE

08 001 03896

PREPARED UNDER THE DIRECTION OF
8-25-82

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7-BAR CHANNEL
Sta. -1+29.09 to Sta. 10+00.00
PLAN AND PROFILE

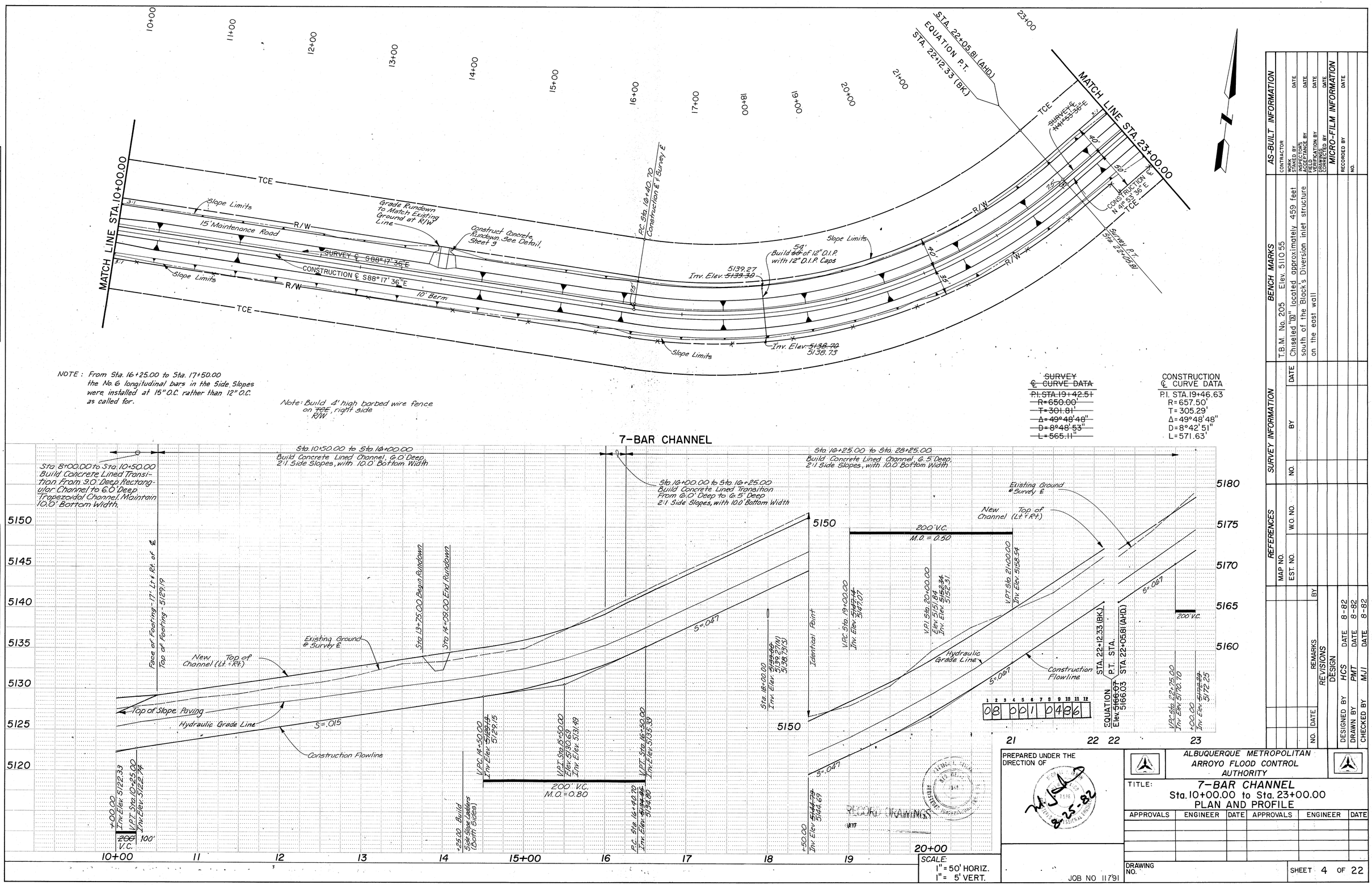
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

JOB NO. 11791

DRAWING NO.

SHEET 3 OF 22



NOTE: From Sta. 16+25.00 to Sta. 17+50.00 the No. 6 longitudinal bars in the Side Slopes were installed at 15" O.C. rather than 12" O.C. as called for.

Note: Build 4' high barbed wire fence on ~~TCE~~, right side R/W

~~SURVEY~~
~~℄ CURVE DATA~~
~~P.I. STA. 19+42.51~~
~~R=650.00'~~
~~T=301.81'~~
~~Δ=49°48'48"~~
~~D=8°48'53"~~
~~L=565.11'~~

CONSTRUCTION
℄ CURVE DATA
P.I. STA. 19+46.63
R=657.50'
T=305.29'
Δ=49°48'48"
D=8°42'51"
L=571.63'

SCALE:
1" = 50' HORIZ.
1" = 5' VERT.

PREPARED UNDER THE DIRECTION OF

8-25-82

JOB NO 11791

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7-BAR CHANNEL
Sta. 10+00.00 to Sta. 23+00.00
PLAN AND PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO.

SHEET 4 OF 22

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE
NOTE BOOK
NO.

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

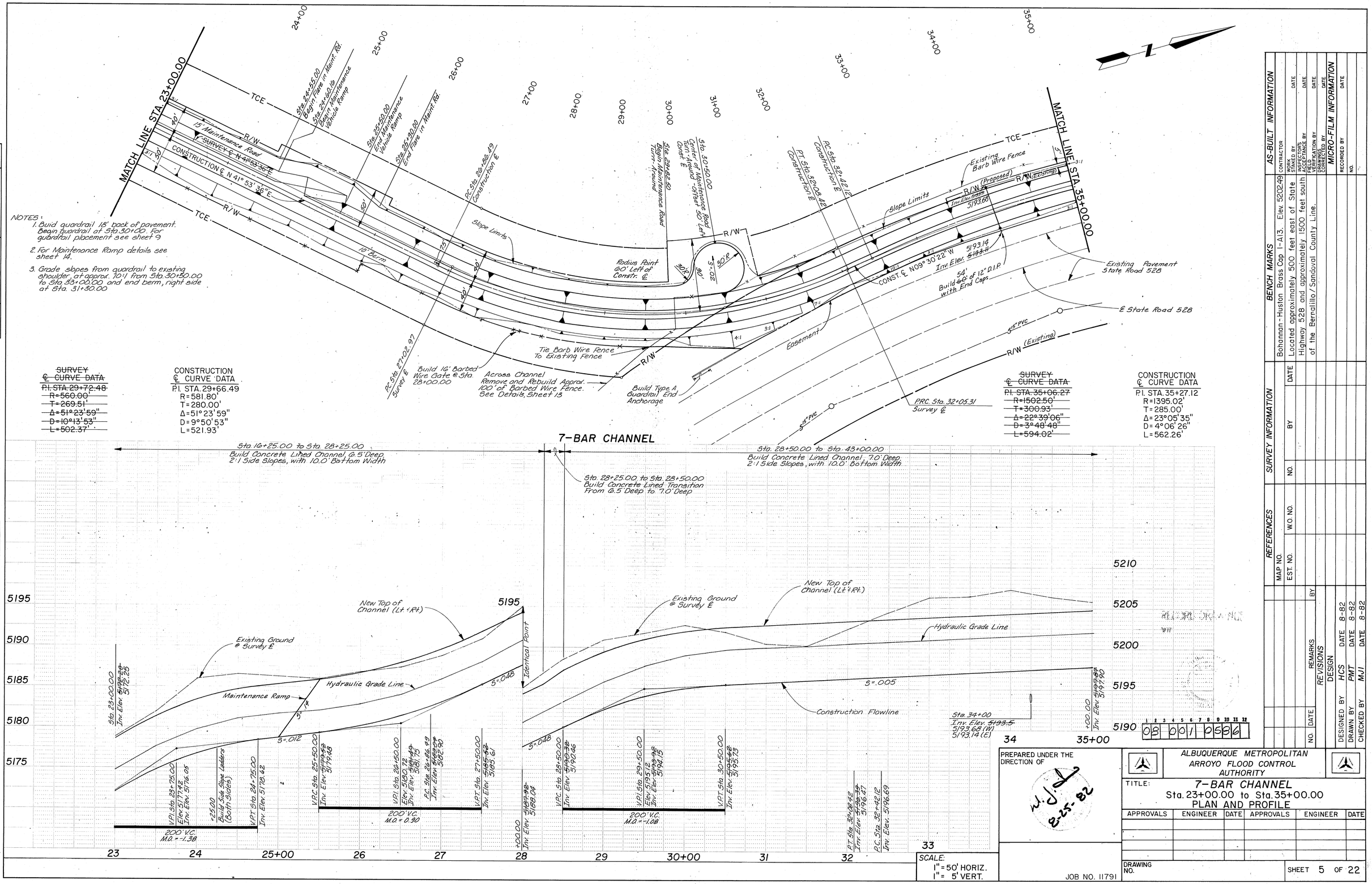
BENCH MARKS
T.B.M. No. 205 Elev. 5110.55
Chiseled "⊠" located approximately 459 feet south of the Black's Diversion inlet structure on the east wall

SURVEY INFORMATION
NO.
BY
DATE

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

REVISIONS
NO.
DATE
REMARKS
BY

DESIGN
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82



NOTES:
1. Build guardrail 18' back of pavement. Begin guardrail at Sta. 30+00. For guardrail placement see sheet 9
2. For Maintenance Ramp details see sheet 14.
3. Grade slopes from guardrail to existing shoulder, at approx. 10:1 from Sta. 30+50.00 to Sta. 33+00.00 and end berm, right side at Sta. 31+30.00

~~SURVEY ℄ CURVE DATA~~	CONSTRUCTION ℄ CURVE DATA
~~P.I. STA. 29+72.48~~	P.I. STA. 29+66.49
~~R=560.00'~~	R=581.80'
~~T=269.51'~~	T=280.00'
~~Δ=51°23'59"~~	Δ=51°23'59"
~~D=10°13'53"~~	D=9°50'53"
~~L=502.37'~~	L=521.93'

~~SURVEY ℄ CURVE DATA~~	CONSTRUCTION ℄ CURVE DATA
~~P.I. STA. 35+06.27~~	P.I. STA. 35+27.12
~~R=1502.50'~~	R=1395.02'
~~T=300.93'~~	T=285.00'
~~Δ=22°39'06"~~	Δ=23°05'35"
~~D=3°48'48"~~	D=4°06'26"
~~L=594.02'~~	L=562.26'

PLAN — SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; NOTE BOOK; NO. — BY — DATE

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; B.M. NOTED; STRUCTURE NOTAT'NS CH'KD; NOTE BOOK; NO. — BY — DATE

AS-BUILT INFORMATION: CONTRACTOR; WORK ED BY; INSPECTORS ACCEPTANCE BY; FIELD VERIFICATION BY; DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION: RECORDED BY — DATE; NO.

BENCH MARKS: Bohannan-Huston Brass Cap 1-A13. Elev. 5202.49. Located approximately 500 feet east of State Highway 528 and approximately 1500 feet south of the Bernalillo/Sandoval County Line.

SURVEY INFORMATION: NO. — BY — DATE

REFERENCES: MAP NO.; EST. NO.; W.O. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN			
DESIGNED BY	HCS	DATE	8-82
DRAWN BY	PMT	DATE	8-82
CHECKED BY	MJI	DATE	8-82

PREPARED UNDER THE DIRECTION OF W. J. 8-25-82

JOB NO. 11791

SCALE: 1" = 50' HORIZ. 1" = 5' VERT.

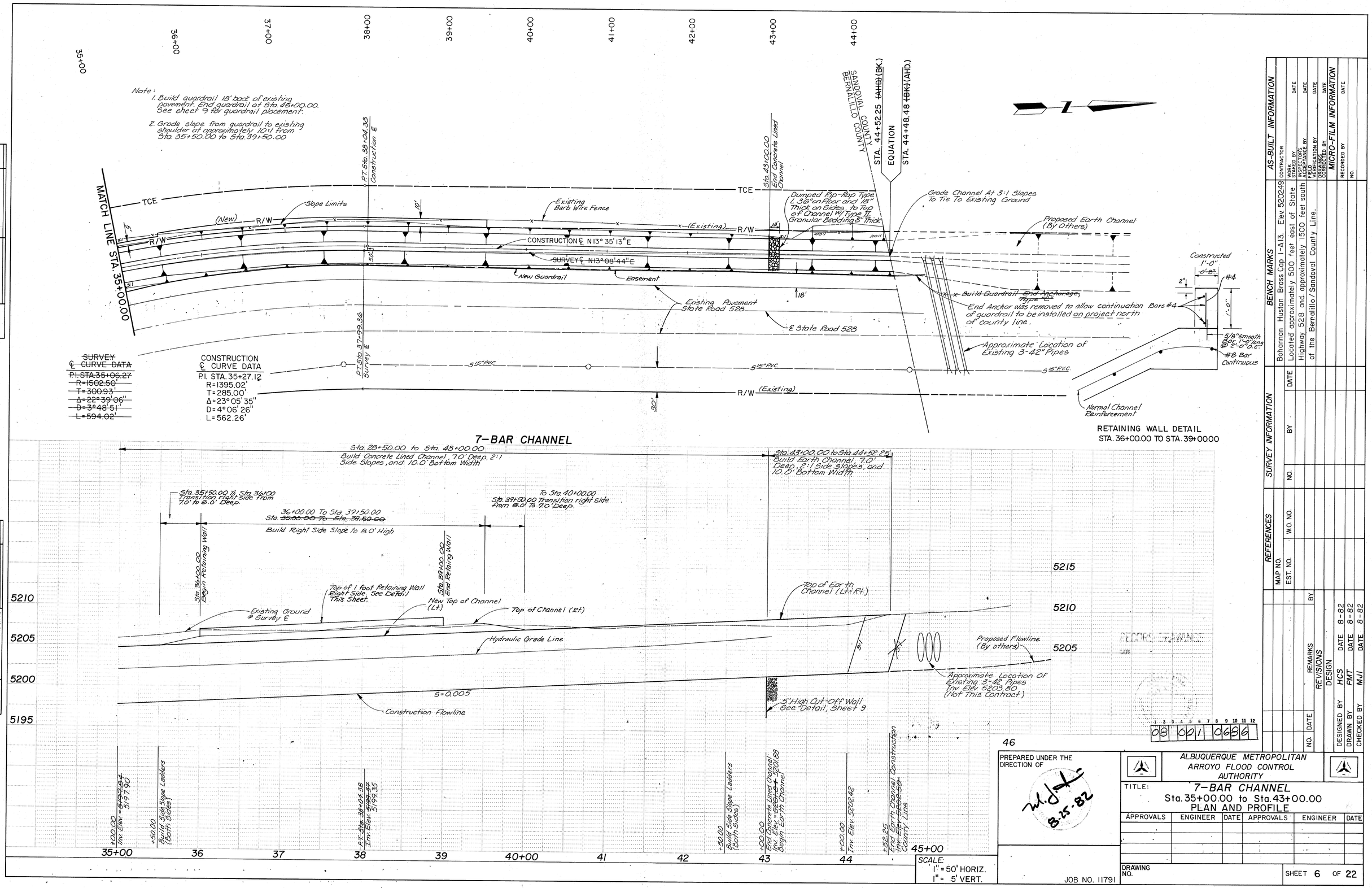
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

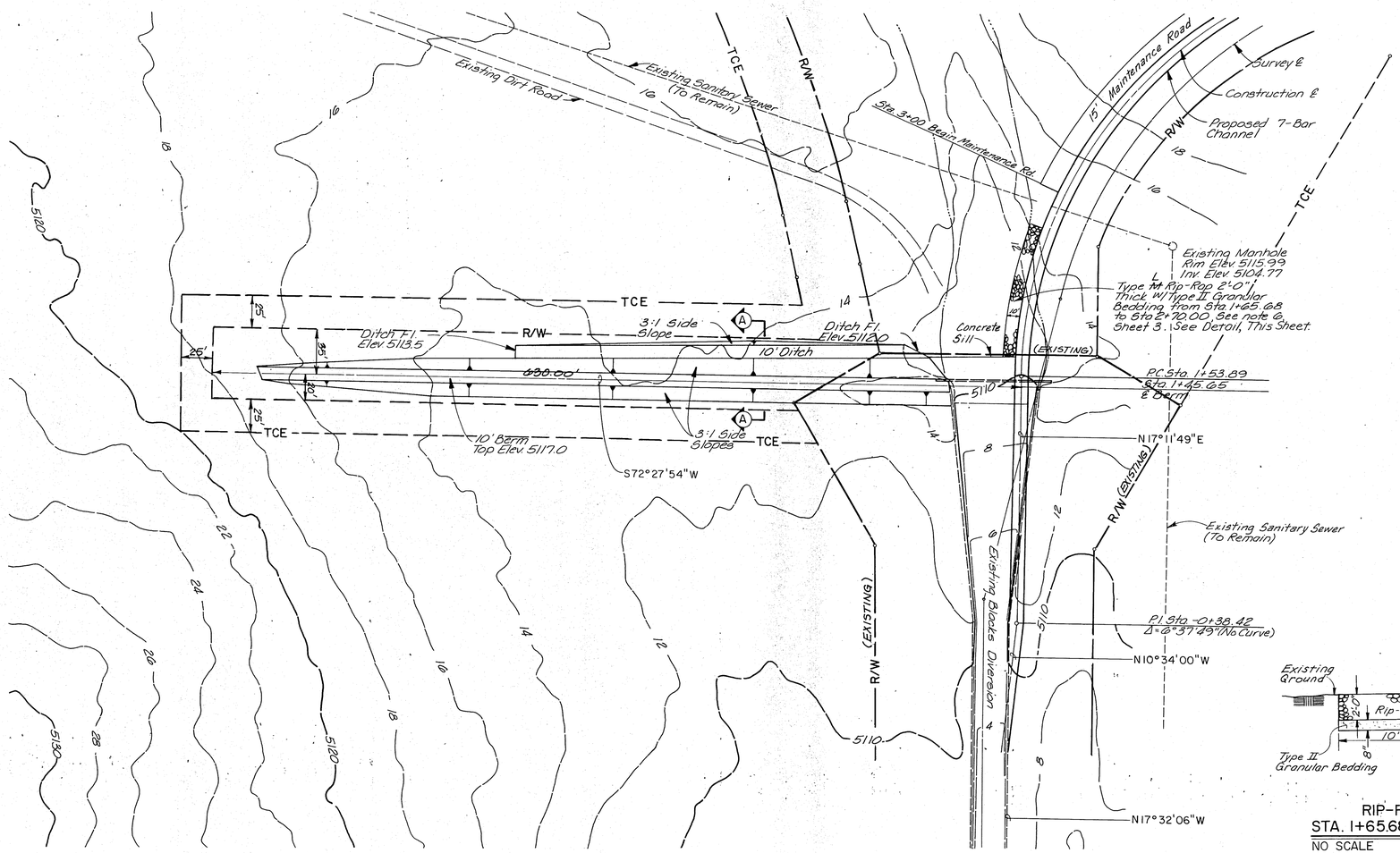
TITLE: 7-BAR CHANNEL Sta. 23+00.00 to Sta. 35+00.00 PLAN AND PROFILE

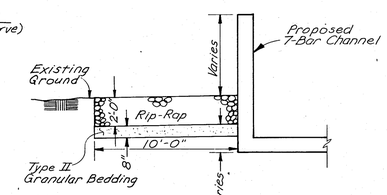
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO.

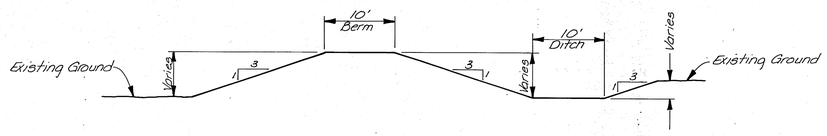
SHEET 5 OF 22


35+00
36+00
37+00
38+00
39+00
40+00
41+00
42+00
43+00
44+00
45+00
Note:
1. Build guardrail 18' back of existing pavement. End guardrail at Sta. 48+00.00. See sheet 9 for guardrail placement.
2. Grade slope from guardrail to existing shoulder at approximately 10:1 from Sta. 35+50.00 to Sta. 39+50.00
MATCH LINE STA. 35+00.00
TCE
(New) R/W
R/W
Slope Limits
PT Sta. 38+04.33 Construction ℄
Existing Barb Wire Fence
(Existing) R/W
CONSTRUCTION ℄ N13° 35' 13" E
~~SURVEY ℄ N13° 08' 44" E~~
New Guardrail
Easement
Existing Pavement State Road 528
℄ State Road 528
Sta. 43+00.00 End Concrete Lined Channel
Dumped Rip-Rap Type L 36" on floor and 18" Thick on Sides, to Top of Channel W/ Type II Granular Bedding 8" Thick
SANDOVAL COUNTY
BERNALILLO COUNTY
STA. 44+52.25 ~~(AHD.)~~ (BK.)
EQUATION
STA. 44+48.48 ~~(BK.)~~ (AHD.)
Grade Channel At 3:1 Slopes To Tie To Existing Ground
Proposed Earth Channel (By Others)
~~Build Guardrail End Anchorage, Type 12A~~
End Anchor Was removed to allow continuation of guardrail to be installed on project north of county line.
Approximate Location of Existing 3-42" Pipes
5 15" P.V.C.
Normal Channel Reinforcement
Constructed 1'-0"
0'-8"
2"
#4
Bars #4
1'-0"
5/8" Smooth Bar, 1'-0" long @ 2'-0" O.C.
#8 Bar Continuous
~~SURVEY ℄ CURVE DATA~~
~~P.I. STA. 35+06.27~~
~~R=1502.50'~~
~~T=300.93'~~
~~Δ=22° 39' 06"~~
~~D=3° 48' 51"~~
~~L=594.02'~~
CONSTRUCTION ℄ CURVE DATA
P.I. STA. 35+27.12
R=1395.02'
T=285.00'
Δ=23° 05' 35"
D=4° 06' 26"
L=562.26'
PT Sta. 37+99.36 Survey ℄
R/W (Existing)
RETAINING WALL DETAIL
STA. 36+00.00 TO STA. 39+00.00
7-BAR CHANNEL
Sta. 28+50.00 to Sta. 43+00.00
Build Concrete Lined Channel, 7.0' Deep, 2:1 Side Slopes, and 10.0' Bottom Width
Sta. 43+00.00 to Sta. 44+52.25
Build Earth Channel, 7.0' Deep, 2:1 Side Slopes, and 10.0' Bottom Width
Sta. 35+50.00 To Sta. 36+00
Transition right side from 7.0' To 8.0' Deep.
36+00.00 To Sta. 39+50.00
~~Sta. 35+00.00 To Sta. 39+50.00~~
Build Right Side Slope To 8.0' High
To Sta. 40+00.00
Sta. 39+50.00 Transition right side from 8.0' To 7.0' Deep.
Sta. 36+00.00 Begin Retaining Wall
Sta. 39+00.00 End Retaining Wall
Top of 1 foot Retaining Wall Right Side, See Detail This Sheet.
New Top of Channel (Lt.)
Top of Channel (Rt.)
Existing Ground @ Survey ℄
Top of Earth Channel (Lt. & Rt.)
Hydraulic Grade Line
Proposed Flowline (By others)
Approximate Location Of Existing 3-42 Pipes Inv. Elev. 5203.80 (Not This Contract)
S=0.005
Construction Flowline
5' High Cut-Off Wall See Detail, Sheet 9
5215
5210
5205
5200
5195
+00.00 Inv. Elev. ~~5197.84~~ 5197.90
-50.00 Build Side Slope Ladders (Both Sides)
P.T. Sta. 38+04.36 Inv. Elev. ~~5199.37~~ 5199.35
+50.00 Build Side Slope Ladders (Both Sides)
+00.00 End Concrete Lined Channel Inv. Elev. ~~5200.24~~ 5201.88 Begin Earth Channel
+00.00 Inv. Elev. 5202.42
+52.25 End Earth Channel Construction Inv. Elev. ~~5202.56~~ County Line
35+00
36
37
38
39
40+00
41
42
43
44
45+00
46
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK NO.
BY
DATE
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTAT'NS CH'KD
NOTE BOOK NO.
BY
DATE
SCALE:
1" = 50' HORIZ.
1" = .5' VERT.
JOB NO. 11791
PREPARED UNDER THE DIRECTION OF
8-25-82
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY
TITLE: 7-BAR CHANNEL
Sta. 35+00.00 to Sta. 43+00.00
PLAN AND PROFILE
APPROVALS
ENGINEER
DATE
APPROVALS
ENGINEER
DATE
DRAWING NO.
SHEET 6 OF 22
AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
WORK STAKE ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.
BENCH MARKS
Bohannan Huston Brass Cap I-A13, Elev. 5202.49
Located approximately 500 feet east of State Highway 528 and approximately 1500 feet south of the Bernalillo / Sandoval County Line.
SURVEY INFORMATION
NO.
BY
DATE
REFERENCES
MAP NO.
EST. NO.
W.O. NO.
NO.
DATE
REMARKS
BY
REVISIONS
DESIGN
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82
08 001 0696





RIP-RAP DETAIL
STA. 1+65.68 to STA. 2+70.00
NO SCALE



SECTION A-A

RECORD DRAWINGS
DATE

1	2	3	4	5	6	7	8	9	10	11	12
0	8	0	0	1	0	7	9	6			

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR ACCEPTANCE — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. | BY | DATE

REFERENCES
MAP NO. | W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82

PREPARED UNDER THE DIRECTION OF
M. J. 8-25-82

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7-BAR CHANNEL
BERM GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

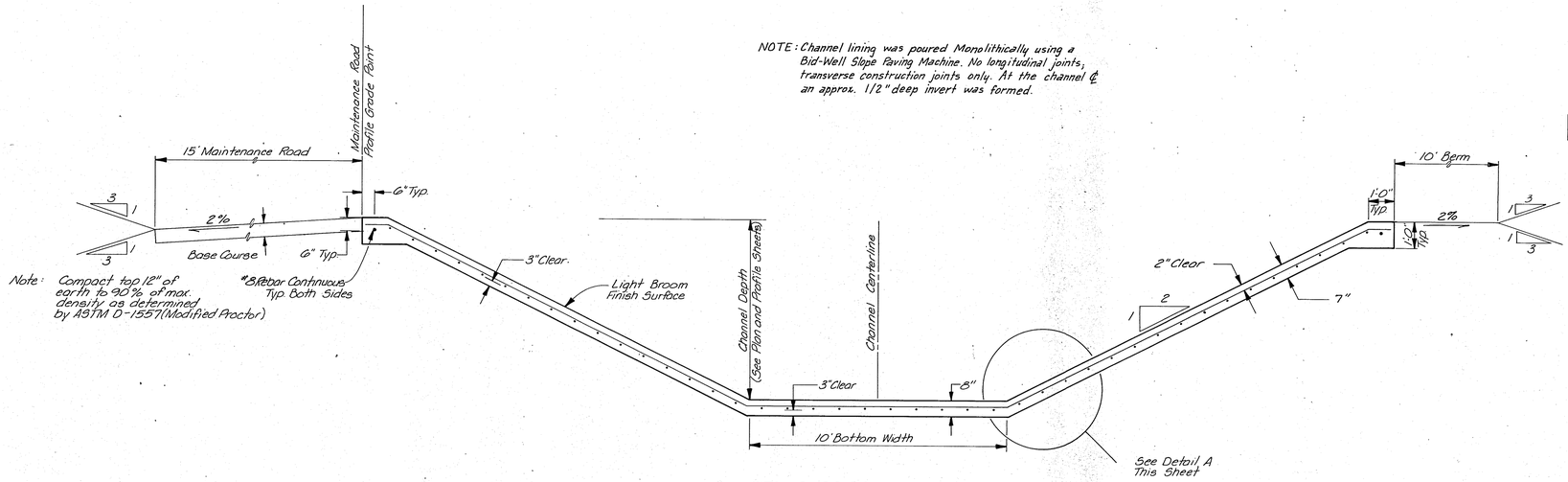
SCALE: 1" = 50'

JOB NO. 11791

DRAWING NO.

SHEET 7 OF 22

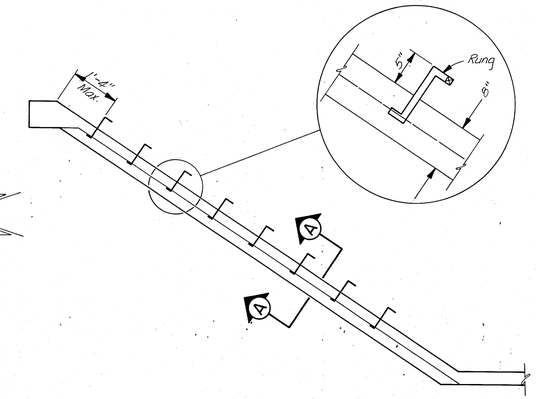
NOTE: Channel lining was poured Monolithically using a Bid-Well Slope Paving Machine. No longitudinal joints, transverse construction joints only. At the channel ℄ an approx. 1/2" deep invert was formed.



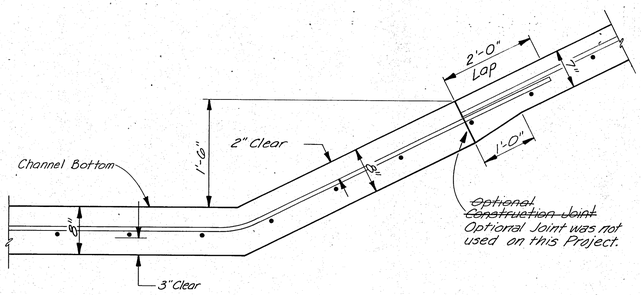
STA. 9+00.00 to STA. 43+00.00

TYPICAL CHANNEL CROSS SECTION

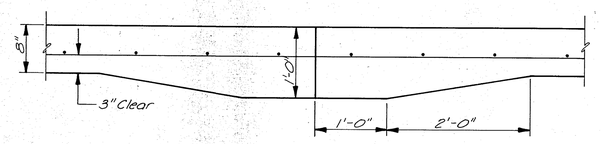
Note: Bottom slab is to be reinforced with No. 5 bars @ 1'-3" o.c. transverse and No. 7 bars @ 1'-3" o.c. longitudinal. The sideslopes are to be reinforced with No. 5 bars @ 1'-3" o.c. transverse and No. 6 bars @ 1'-0" o.c. longitudinal.



CHANNEL SIDESLOPE LADDER DETAILS

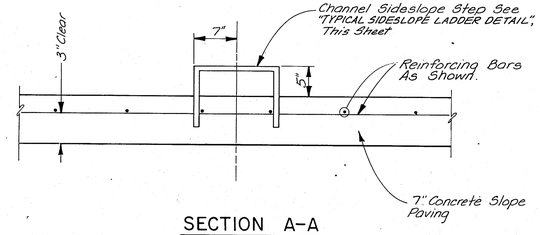


DETAIL A

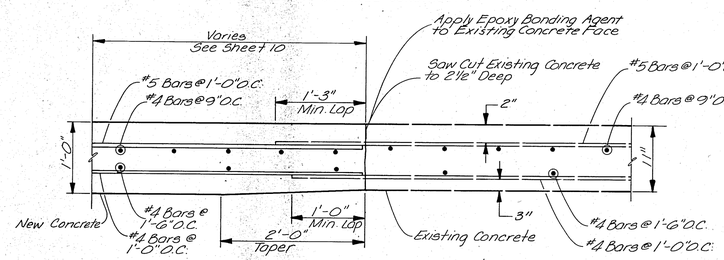


TRANSVERSE CONSTRUCTION JOINT DETAIL

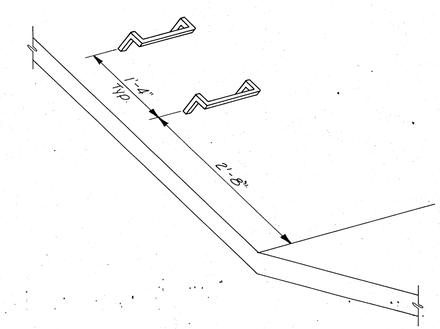
AS REQUIRED BY CHANNEL CONSTRUCTION



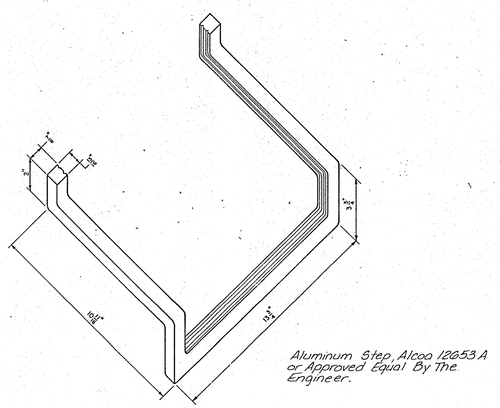
SECTION A-A



TYPICAL JOINT DETAIL
TIE TO EXISTING STRUCTURE



ISOMETRIC VIEW



Aluminum Step, Alcoa 12653 A or Approved Equal By The Engineer.

TYPICAL SIDESLOPE LADDER DETAIL

NOTES:

1. Concrete shall be 3000 p.s.i. 28 day concrete as stated in the specifications.
2. All steel shall be Grade 60 deformed bars unless noted otherwise.
3. Splices in slope paving rebar shall be 1'-6" for No. 5 bars and 2'-0" for No. 7 bars.
4. All steel spacings are given to the centerline of the bar.
5. All exposed edges shall have a 1/2" chamfer.
6. All rebar shall be supported on continuous high chairs running continuous across the channel template, perpendicular to the channel centerline and shall be on five foot centers along the channel centerline, or as approved by the engineer.
7. Place ladder steps on both sides of the channel as shown on the plan & profile sheets.

RECORD DRAWINGS
DATE

PREPARED UNDER THE DIRECTION OF
8-25-82

SCALE: NO SCALE

JOB NO. 11791

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7 BAR CHANNEL
TYPICAL CHANNEL SECTION DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO.

SHEET 8 OF 22

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

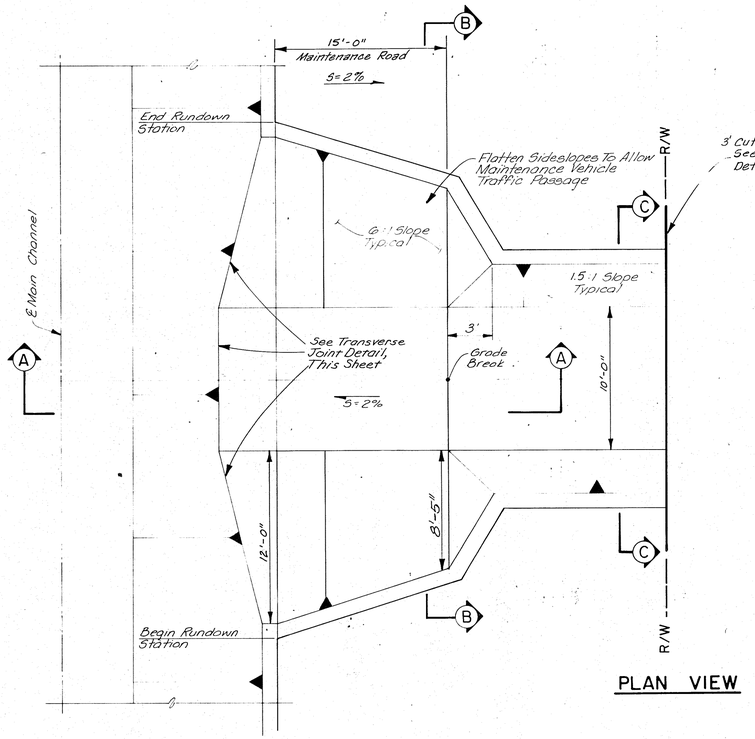
SURVEY INFORMATION
NO. BY DATE

BENCH MARKS

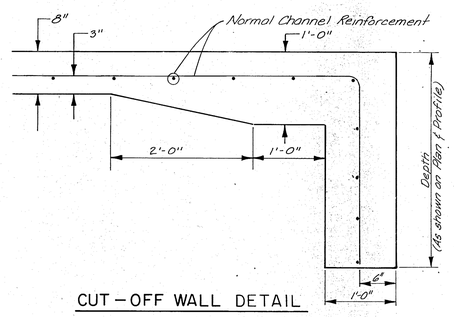
"AS-BUILT" INFORMATION
CONTRACTOR
WORK STAKED BY DATE
INSPECTOR ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

1	2	3	4	5	6	7	8	9	10	11	12
0	8	0	0	1	0	8	8	6			



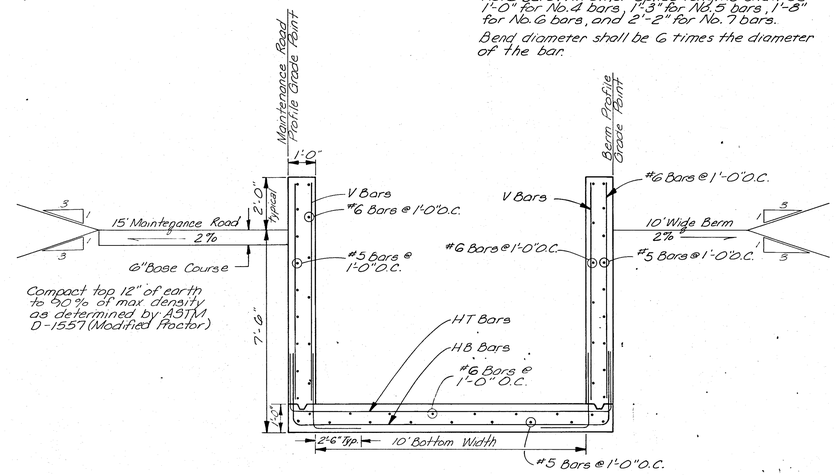
PLAN VIEW



CUT-OFF WALL DETAIL

Note: Bar splices in top of slab shall be 1'-5" for No. 4 bars, 1'-9" for No. 5 bars, and 2'-3" for No. 6 bars. All other splice lengths shall be 1'-0" for No. 4 bars, 1'-3" for No. 5 bars, 1'-8" for No. 6 bars, and 2'-2" for No. 7 bars.

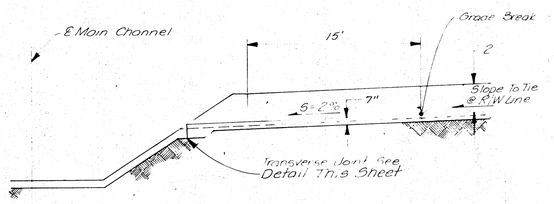
Bend diameter shall be 6 times the diameter of the bar.



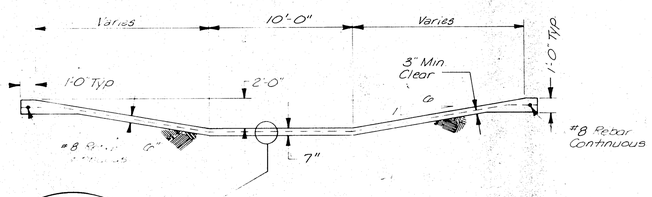
RECTANGULAR CHANNEL SECTION

STA. 1+50.00 to STA. 8+00.00

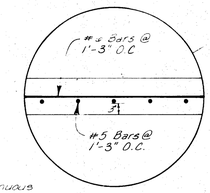
BAR SCHEDULE		
Bar Type	Sta. 1+50 to Sta. 3+50	Sta. 3+50 to Sta. 8+00
V	#6 Bars @ 1'-0" O.C.	#4 Bars @ 1'-6" O.C.
HT	#6 Bars @ 1'-0" O.C.	#4 Bars @ 1'-6" O.C.
HB	#7 Bars @ 1'-0" O.C.	#6 Bars @ 1'-0" O.C.

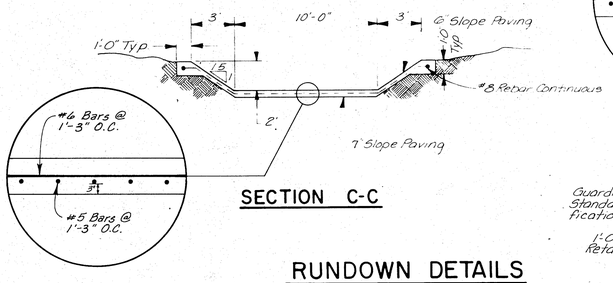


SECTION A-A



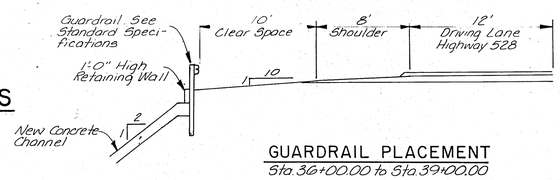
SECTION B-B





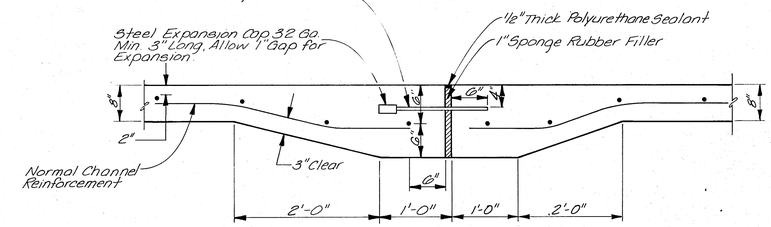
SECTION C-C

RUNDOWN DETAILS



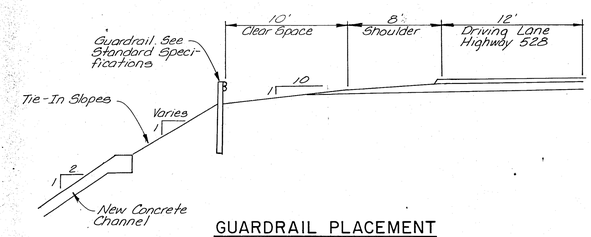
GUARDRAIL PLACEMENT

Sta. 36+00.00 to Sta. 39+00.00



TRANSVERSE JOINT DETAIL

See Section A-A



GUARDRAIL PLACEMENT

Sta. 30+50.00 to Sta. 45+00.00

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
INSPECTOR ACCEPTANCE BY DATE
FIELD REVISION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. BY DATE

REFERENCES
MAP NO. W.O. NO.
EST NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY MJI DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82

1 2 3 4 5 6 7 8 9 10 11 12
08 001 0986

PREPARED UNDER THE DIRECTION OF
8-25-82

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE
7-BAR CHANNEL
RUNDOWN DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

SCALE NO SCALE

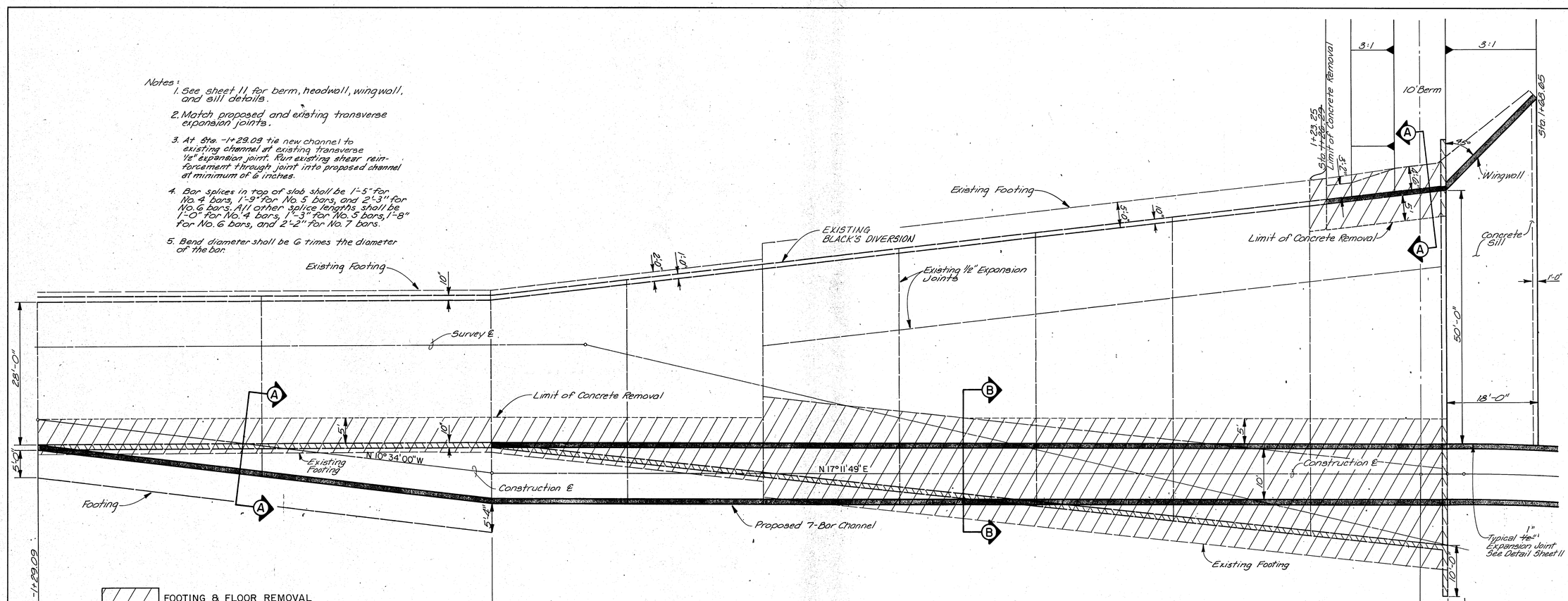
JOB NO. 11791

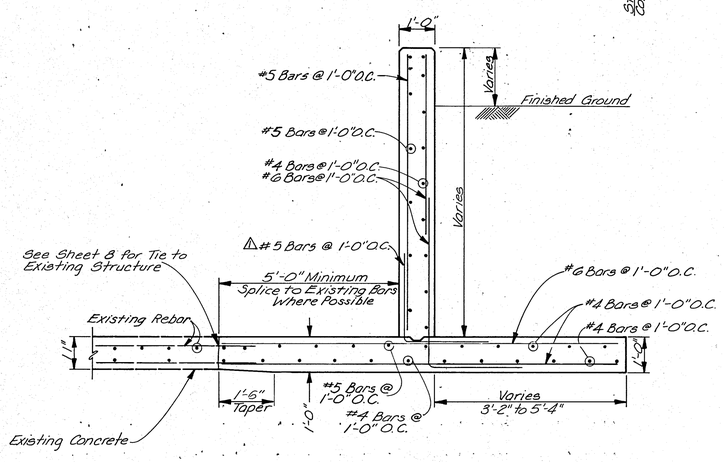
DRAWING NO.

SHEET 9 OF 22

Notes:

1. See sheet 11 for berm, headwall, wingwall, and sill details.
2. Match proposed and existing transverse expansion joints.
3. At Sta. -1+29.09 tie new channel to existing channel at existing transverse 1/2" expansion joint. Run existing shear reinforcement through joint into proposed channel at minimum of 6 inches.
4. Bar splices in top of slab shall be 1'-5" for No. 4 bars, 1'-9" for No. 5 bars, and 2'-3" for No. 6 bars. All other splice lengths shall be 1'-0" for No. 4 bars, 1'-3" for No. 5 bars, 1'-8" for No. 6 bars, and 2'-2" for No. 7 bars.
5. Bend diameter shall be 6 times the diameter of the bar.



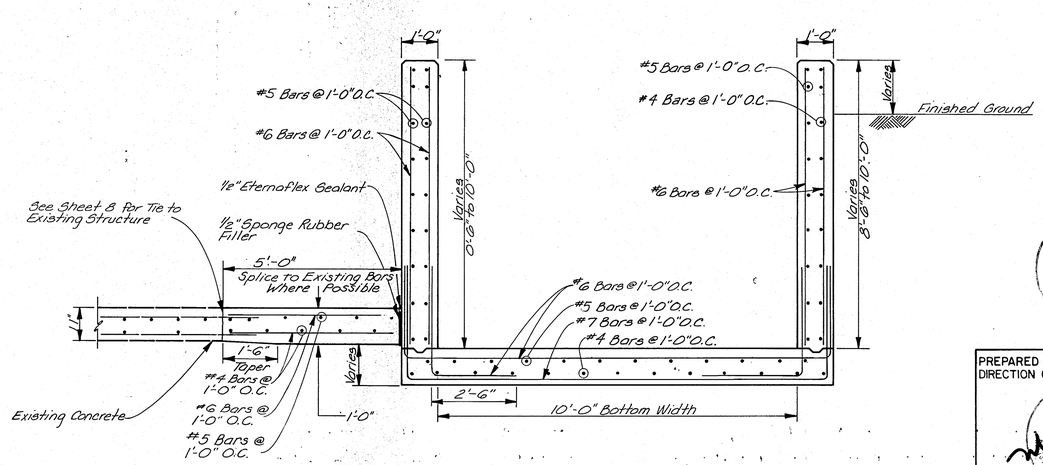


SECTION A-A

No Scale

Sta. -1+29.09 to Sta. -0+38.42

Sta. 1+26.29 to Sta. 1+50.65



SECTION B-B

No Scale

Sta. -0+38.42 to Sta. 1+50.65

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION		
NO.	BY	DATE

REFERENCES		
MAP NO.		
EST. NO.	W.O. NO.	

NO.	DATE	REMARKS	BY
2	2/83	#5 Bar Added	HCS

REVISIONS

DESIGNED BY	HCS	DATE 8-82
DRAWN BY	PMT	DATE 8-82
CHECKED BY	MJI	DATE 8-82

RECORD DRAWINGS

DATE 08-09-1986

PREPARED UNDER THE DIRECTION OF

MICHAEL J. IRWIN 8-25-82

SCALE: 1" = 10'

JOB NO. 11791

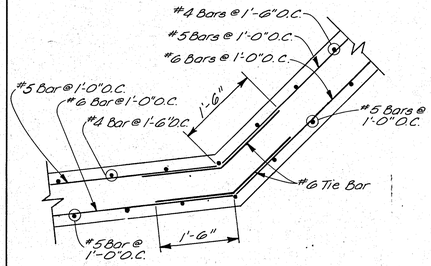
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7-BAR CHANNEL CONFLUENCE DETAILS

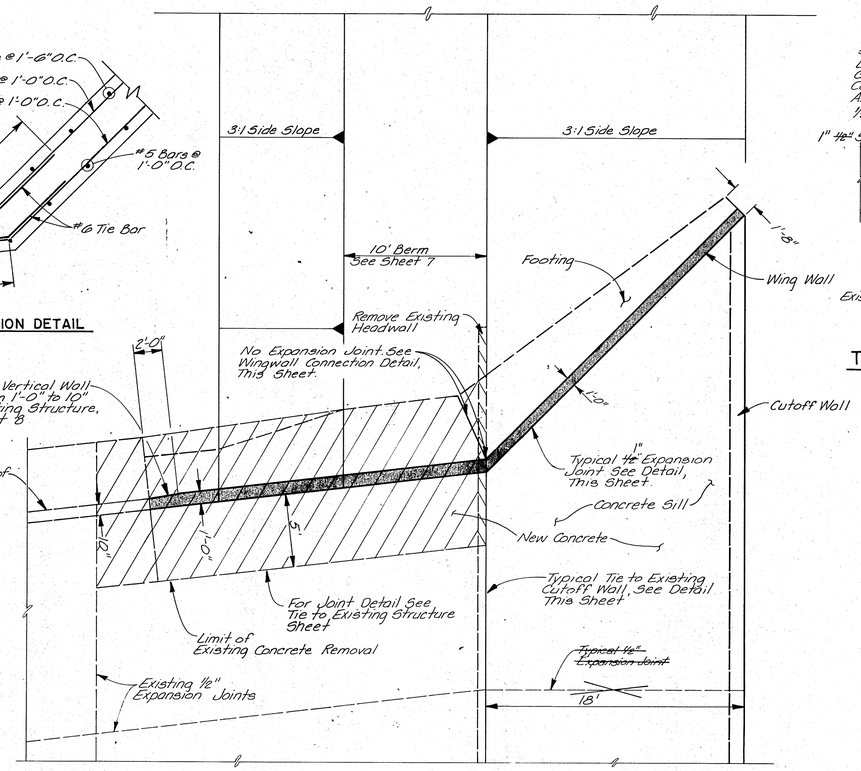
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO.

SHEET 10 OF 22

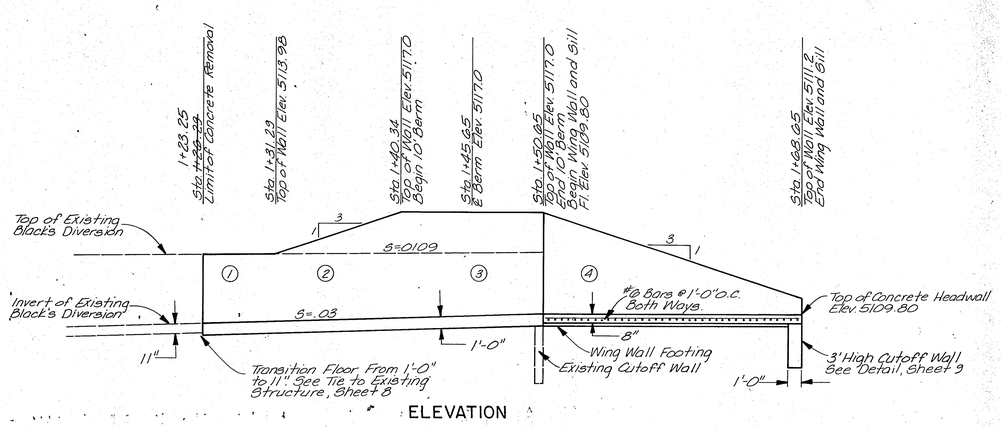


WINGWALL CONNECTION DETAIL
PLAN VIEW



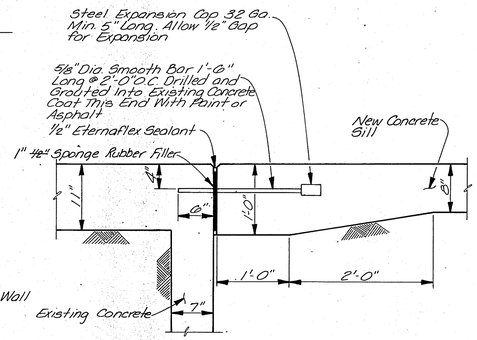
PLAN

Note:
1. For retaining wall or wing wall reinforcement see sheet 12

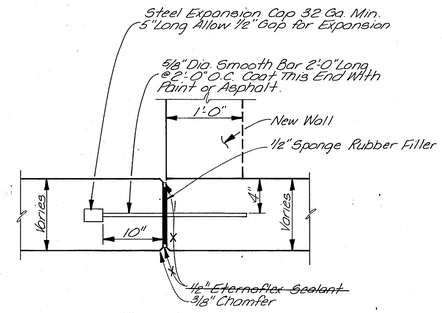


ELEVATION

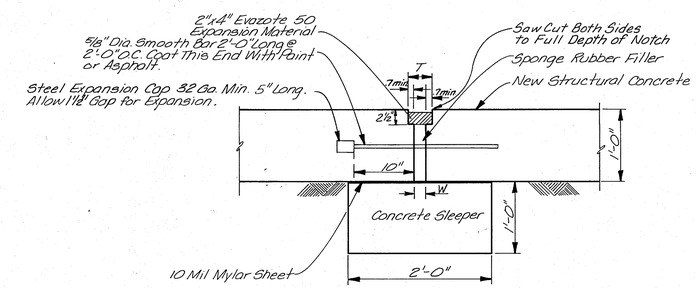
BERM HEADWALL & WINGWALL DETAIL



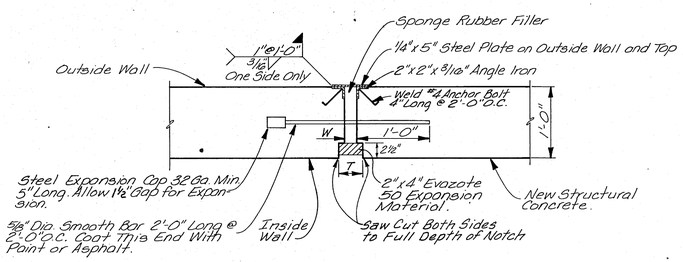
TYPICAL TIE TO EXISTING CUTOFF WALL



TYPICAL 1/2" EXPANSION JOINT



EXPANSION JOINT
(Floor)
Sta. 1+75.00



EXPANSION JOINT
(Walls)
Sta. 1+75.00

Note:
Evasote 50 Material must be placed on the same day that the notch is saw cut using the following table. The Evazote 50 cannot be placed before the concrete has reached 80% of Design Strength

THICKNESS SCHEDULE

Average Daily Maximum Temperature (°F)	W (inches)	T (inches)
90°	1.0	3.0
70°	1.3	3.3
50°	1.5	3.5

Use this table to select proper dimensions. Thickness W should be determined from temperature on day of concrete pour. Thickness T should be based on the ambient temperature at time of saw cut. Temperature in between should be interpolated.

NOTE:
Due to contractor error, dimension "T" was 5.0" rather than the 3.0" to 3.5" as called for.

SCALE:
NO SCALE

PREPARED UNDER THE DIRECTION OF
8-25-82

JOB NO. 11791

RECORD DRAWING
DATE 08 00 1 1 1 96

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7-BAR CHANNEL
MISCELLANEOUS DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO.

SHEET 11 OF 22

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

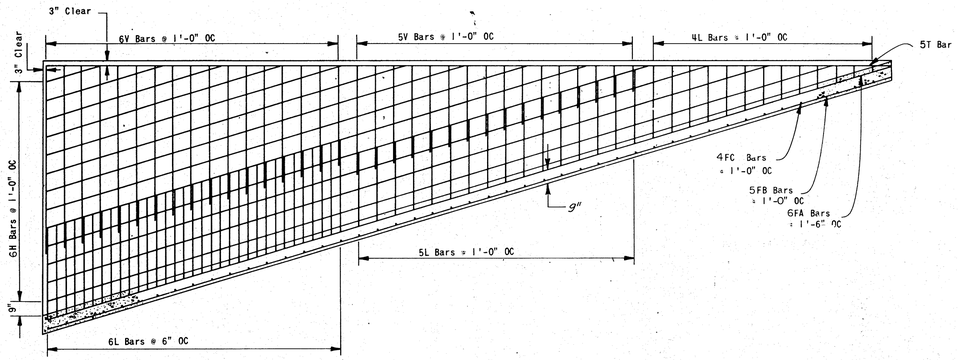
BENCH MARKS

SURVEY INFORMATION
NO. | BY | DATE

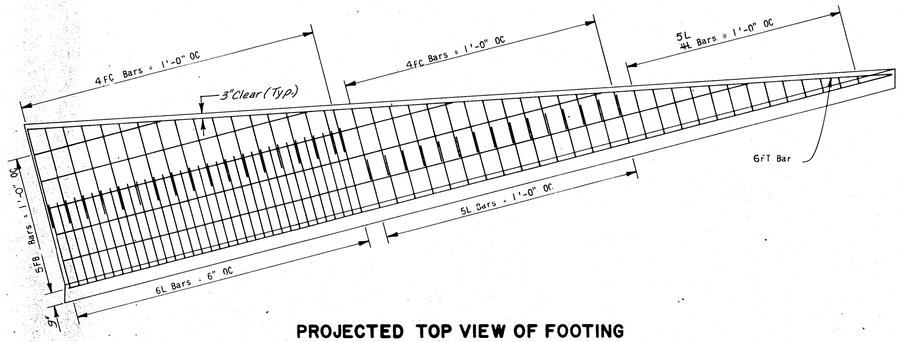
REFERENCES
MAP NO.
EST. NO. | W.O. NO.

NO.	DATE	REVISIONS	BY	REMARKS

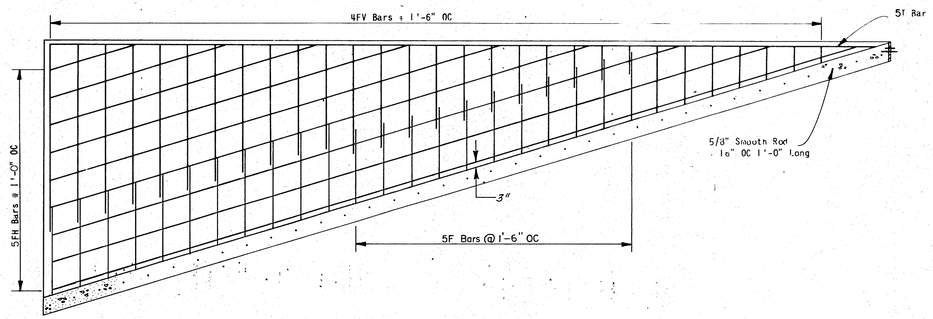
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82



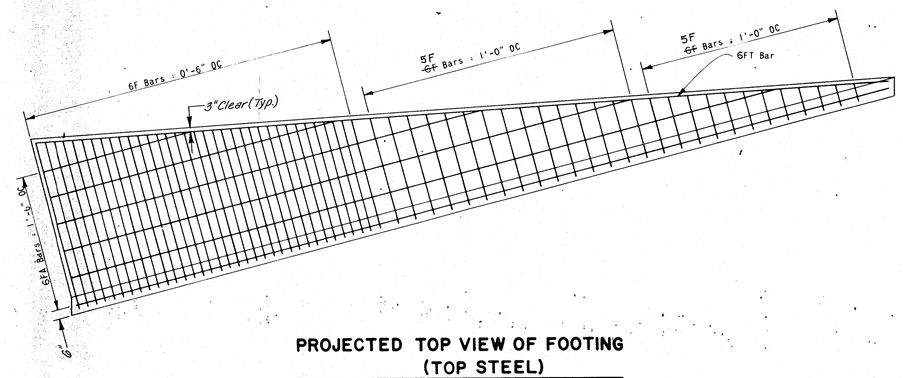
BACK FACE WALL STEEL



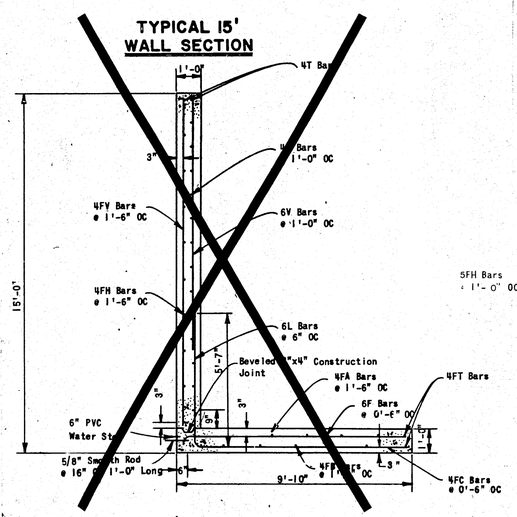
PROJECTED TOP VIEW OF FOOTING (BOTTOM STEEL)



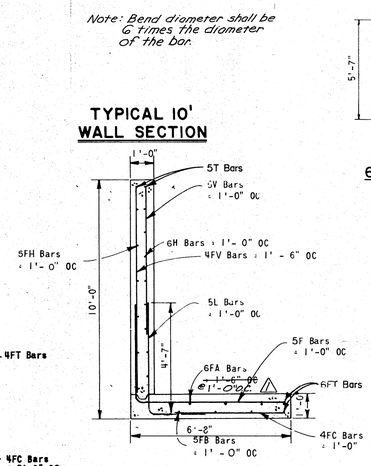
FRONT FACE WALL STEEL

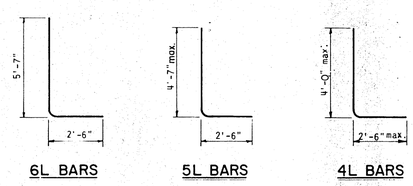


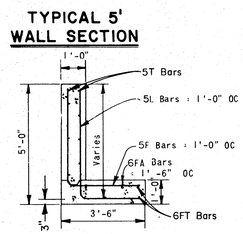
PROJECTED TOP VIEW OF FOOTING (TOP STEEL)

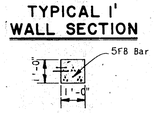


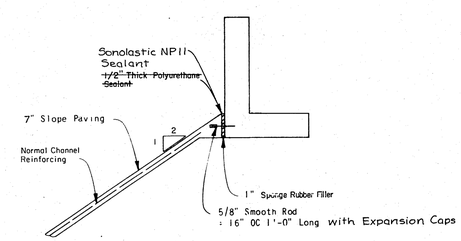
Note: Bend diameter shall be 6 times the diameter of the bar.











SLOPE PAVING CONNECTION DETAIL

Transition From ~~Sta. 6+75.00 to Sta. 9+00.00~~ Sta. 8+00.00 to Sta. 10+50.00

RECORD DRAWINGS
DATE

PATRICIO L. ESTRADA NEW MEXICO 1345 REGISTERED PROFESSIONAL ENGINEER

PREPARED UNDER THE DIRECTION OF
8-25-82

SCALE: NO SCALE

JOB NO. 11791

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NOTE BOOK		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
R/W CHECKED		
NOTE BOOK	STRUCTURE NOTAT'NS CHK'D	
NO.		

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. | BY | DATE

REFERENCES
MAP NO.
EST. NO. | W.O. NO.

NO.	DATE	REMARKS	BY
2	8-82	Bar Spacing Transition Long HCS	

REVISIONS

DESIGN
DESIGNED BY HCS — DATE 8-82
DRAWN BY PMT — DATE 8-82
CHECKED BY MJI — DATE 8-82

1 2 3 4 5 6 7 8 9 10 11 12
08 001 1286

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE
7-BAR CHANNEL VERTICAL WALL STRUCTURAL DETAILS

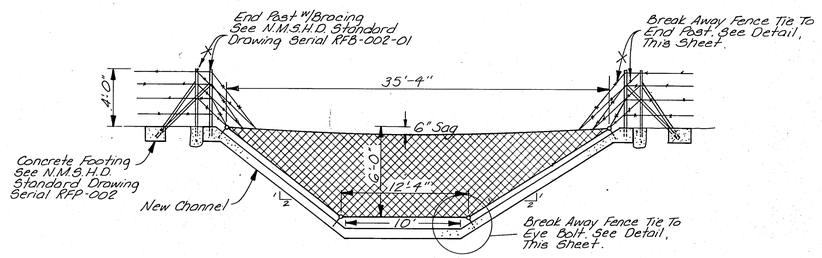
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO.

SHEET 12 OF 22

GEOMETRIC DATA

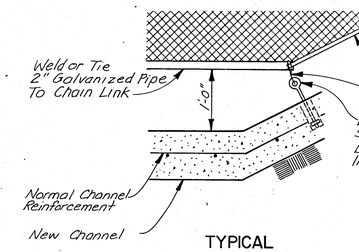
LOCATION	BEGINNING STA.	ELEV. TOP WALL	ELEV. BOTTOM WALL	ENDING STA.	ELEV. TOP WALL	ELEV. BOTTOM WALL		WALL NO.
7-Bar Channel	1+26.29 / 53.23 Lt.	5113.93	5108.08	1+31.29 / 53.78' Lt.	5113.98	5108.23		1
	1+31.29 / 53.78 Lt.	5113.98	5108.23	1+40.34 / 54.84' Lt.	5117.00	5108.50		2
	1+40.34 / 54.84 Lt.	5117.00	5108.50	1+50.65 / 56.00 Lt.	5117.00	5108.80		3
	1+50.65 / 56.00 Lt.	5117.00	5108.80	1+68.65	5111.20	5108.80		4
	~~6+75.00 / 5.00 Lt.~~	~~5123.85~~	~~5114.35~~	~~9+00.00 / 17.00 Lt.~~	~~5127.84~~	~~5126.84~~		~~5~~
	~~6+75.00 / 5.00 Rt.~~	~~5123.85~~	~~5114.35~~	~~9+00.00 / 17.00 Rt.~~	~~5127.84~~	~~5126.84~~		~~6~~
	8+00.00 / 5.00 Lt.	5123.58	5113.58	10+50.00 / 17.00 Lt.	5129.19	5128.19	△	5
	8+00.00 / 5.00 Rt.	5123.58	5113.58	10+50.00 / 17.00 Rt.	5129.19	5128.19	△	6



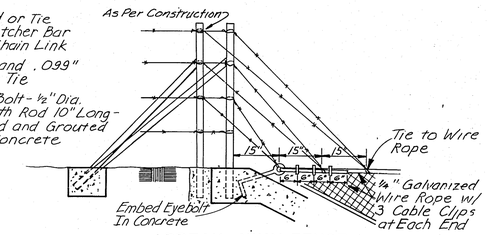
CHAIN LINK & BARBED WIRE FENCE DETAIL
STA. 29+86

REINFORCING DATA

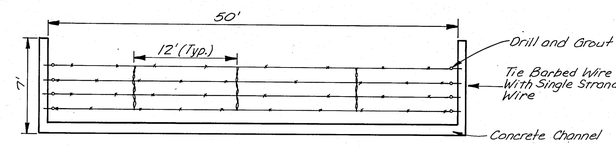
			WALL NUMBER 1	2	3	4	5	6		1 △	2 △	3 △	4 △	5 △	6 △
6L Bars	No. Required		—	—	—	—	—	—		—	—	—	—	—	—
	Length		—	—	—	—	—	—		—	—	—	—	—	—
6V Bars	No. Required		—	—	—	—	—	—		—	—	—	—	—	—
	Length	From	—	—	—	—	—	—		—	—	—	—	—	—
	Varies	To	—	—	—	—	—	—		—	—	—	—	—	—
5F Bars	No. Required		4	7	7	17	151	151		4	9	10	26	250	250
	Hor. Length	From	3'-8"	5'-5"	5'-5"	5'-3"	6'-1"	6'-1"		5'-4"	5'-2"	5'-2"	5'-0"	5'-11"	5'-11"
	Varies	To	3'-7"	3'-7"	5'-3"	1'-4"	0'-5"	0'-5"		5'-3"	3'-4"	5'-0"	1'-3"	0'-5"	0'-5"
	Ver. Length	From	4'-0"	4'-0"	4'-0"	3'-9"	4'-0"	4'-0"		4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
	Varies	To	*	*	*	1'-2"	0'-5"	0'-6"		4'-0"	4'-0"	4'-0"	1'-5"	0'-6"	0'-6"
5V Bars	No. Required		4	9	9	14	[illegible]	119		4	9	10	14	139	139
	Length	From	2'-0"	4'-8"	4'-8"	4'-4"	[illegible]-8"	5'-8"		2'-7"	5'-5"	5'-5"	4'-10"	6'-9"	6'-9"
	Varies	To	1'-11"	1'-11"	4'-4"	1'-3"	[illegible]-3"	1'-3"		2'-6"	2'-9"	4'-10"	1'-9"	1'-9"	1'-9"
5F Bars	No. Required		—	—	—	—	—	—		—	—	—	—	—	—
	Length	From	—	—	—	—	—	—		—	—	—	—	—	—
	Varies	To	—	—	—	—	—	—		—	—	—	—	—	—
4FC Bars	No. Required		4	9	[illegible]	[illegible]	119	119		4	9	10	14	250	250
	Length	From	1'-6"	3'-2"	3'-[illegible]	[illegible]	3'-10"	3'-10"		2'-2"	3'-11"	3'-11"	3'-9"	4'-7"	4'-7"
	Varies	To	1'-6"	1'-4"	3'-0	[illegible]0"	1'-0"	1'-0"		2'-1"	2'-1"	3'-9"	—	1'-9"	1'-9"
5L Bars	No. Required		4	9	9	[illegible]25	226	226		4	9	10	26	250	250
	Hor. Length	From	4'-7"	4'-7"	4'-7"	2'-6"	2'-6"	2'-6"		2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"
	Varies	To	*	*	*	0'-10"	*	*		*	*	*	*	*	*
	Ver. Length	From	2'-4"	2'-4"	2'-[illegible]	[illegible]'-6"	4'-7"	4'-7"		4'-7"	4'-7"	4'-7"	4'-7"	4'-7"	4'-7"
	Varies	To	*	*	*	[illegible]2"	0'-6"	0'-6"		*	*	*	*	*	*
6H Bars	No. Required		4	7	[illegible]	[illegible]	8	8		6	7	7	7	8	8
	Length	From	6'-0"	10'-1"	[illegible]0"	24'-[illegible]"	198'-6"	198'-6"		4'-9"	9'-1"	10'-0"	25'-3"	250'-0"	250'-0"
	Varies	To	6'-0"	1'-5"	[illegible]'-0"	1'-6	13'-0"	13'-0"		4'-9"	2'-1"	10'-0"	1'-6"	16'-3"	16'-3"
4FV Bars	No. Required		4	7	7	10	80	80		3	6	7	10	93	93
	Length	From	2'-0"	4'-8"	4'-8"	4'-4"	5'-8"	5'-8"		2'-7"	5'-5"	5'-5"	4'-10"	6'-9"	6'-9"
	Varies	To	1'-11"	1'-1[illegible]	4'-4"	1'-3"	[illegible]'-3"	1'-3"		2'-6"	2'-9"	4'-10"	1'-9"	1'-9"	1'-9"
5FH Bars	No. Required		4	7	7	7	[illegible]	8		6	7	7	7	8	8
	Length	From	6'-0"	10[illegible]"	11'-0"	24'-11"	19[illegible]'-6"	198'-6"		4'-9"	10'-1"	10'-0"	25'-3"	250'-0"	250'-0"
	Varies	To	6'-0"	[illegible]5"	11'-0"	1'-6"	13[illegible]"	13'-0"		4'-9"	2'-1"	10'-0"	1'-6"	16'-3"	16'-3"
6FA Bars	No. Required		3	[illegible]	4	4	4	4		3	5	5	5	6	6
	Length	From	6'-0"	10'-1"	11'-0"	24'-11"	224'-[illegible]	224'-11"		4'-9"	9'-1"	10'-0"	25'-3"	250'-0"	250'-0"
	Varies	To	6'-0"	1'-10"	11'-0"	1'-8"	45'-6	45'-6"		4'-9"	4'-6"	10'-0"	6'-6"	40'-5"	40'-5"
5FB Bars	No. Required		2	4	4	3	4	4		2	5	5	5	6	6
	Length	From	4'-6	10'-1'	11'-0"	24'-11"	224'-11"	[illegible]4'-11"		4'-9"	9'-1"	10'-0"	25'-3"	250'-0"	250'-0"
	Varies	To	4'-[illegible]	0'-7"	11'-0"	1'-8"	35'-0'	[illegible]-0"		4'-9"	2'-0"	10'-0"	1'-6"	18'-5"	18'-5"
5T Bars	No. Required		[illegible]	2	2	2	2	[illegible]		2	2	2	2	2	2
	Length		[illegible]0"	10'-1"	11'-0"	24'-11"	224'-11"	224'-[illegible]"		4'-9"	9'-1"	10'-0"	25'-3"	250'-0"	250'-0"
6FT Bars	No. Required		2	2	2	2	2	2		2	2	2	2	2	2
	Length		[illegible]'-0"	10'-1"	11'-0"	24'-11"	224'-11"	224'-[illegible]		4'-9"	9'-1"	10'-0"	25'-3"	250'-0"	250'-0"



TYPICAL
BREAK AWAY FENCE
TIE TO EYE BOLT



BREAK AWAY FENCE
TIE TO END POST



BREAK AWAY BARBED WIRE FENCE
STA. 1+50.65

NOTE: Contractor Shall Supply Shop Drawings for the Steel Reinforcement for Approval by the Engineer.

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. | BY | DATE

REFERENCES
MAP NO. | W.O. NO.
EST. NO. | NO.

NO.	DATE	REMARKS	BY
△ 2,568	Steel Schedule		HCS

REVISIONS

DESIGN
DESIGNED BY HCS DATE 8-82
DRAWN BY PMT DATE 8-82
CHECKED BY MJI DATE 8-82

RECORD DRAWINGS
DATE 1 2 3 4 5 6 7 8 9 10 11 12
08 00 1 1 3 9 6

PREPARED UNDER THE DIRECTION OF
8-25-82
JOB NO. 11791

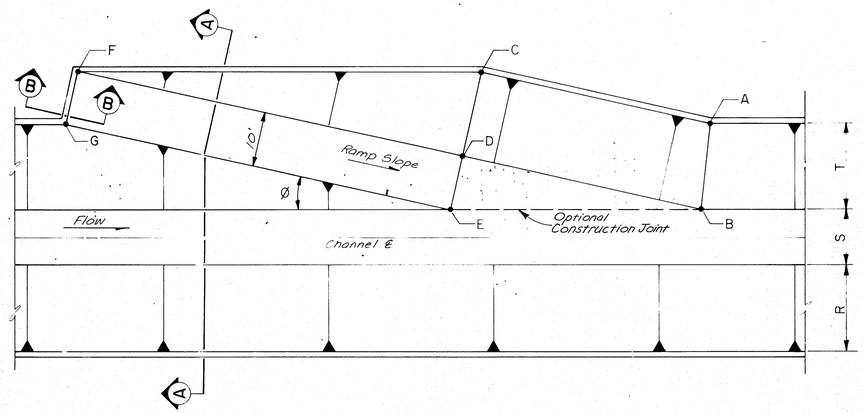
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7-BAR CHANNEL
BAR SCHEDULE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

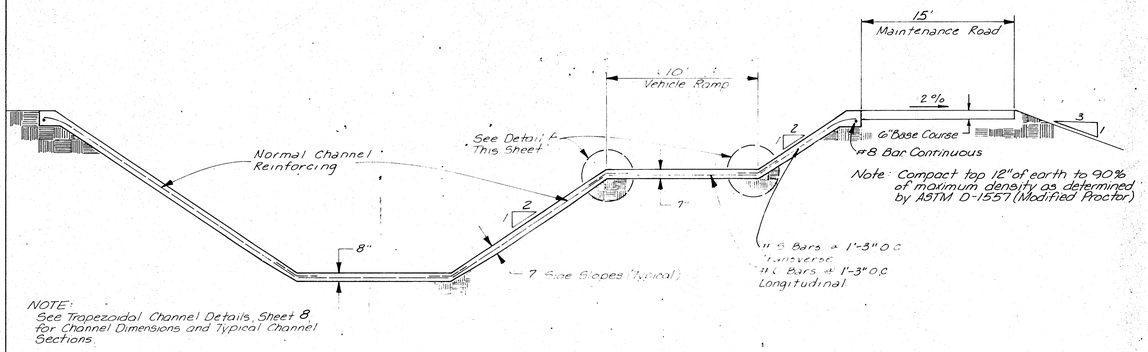
DRAWING NO.
SHEET 13 OF 22

SITE DESCRIPTION	CHANNEL SIDE SLOPE	SLOPE (%)		Ø	DIMENSIONS			POINT							
		CHANNEL	RAMP		R	S	T	DESCRIPTION	A	B	C	D	E	F	G
Sta. 24+60.16 to Sta. 25+50.00	2:1	1.2%	14.0%	14°49'58"	13'	10'	13'	Station	24+60.16	24+61.85	24+96.66	24+98.35	25+00.91	25+47.44	25+50.00
								Elevation	5184.91	5178.44	5185.38	5178.90	5178.93	5185.99	5186.02
								Offset from ℄	18.00	5.00	27.67	14.67	5.00	27.67	18.00



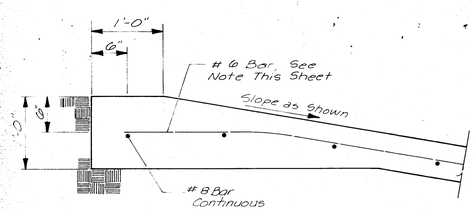
MAINTENANCE VEHICLE RAMP

PLAN VIEW

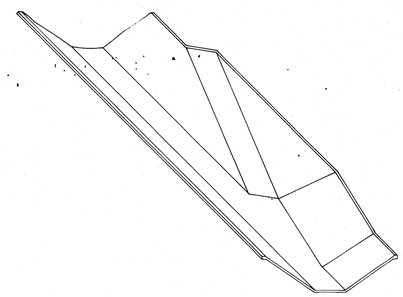


NOTE:
See Trapezoidal Channel Details, Sheet 8 for Channel Dimensions and Typical Channel Sections.

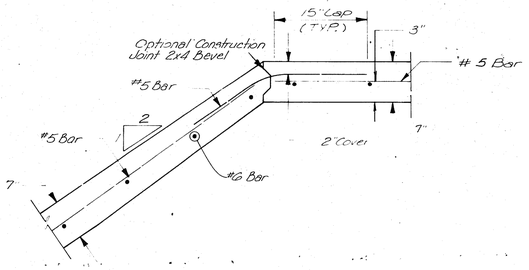
SECTION A–A



SECTION B–B



ISOMETRIC VIEW



DETAIL A

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION

NO.	BY	DATE

REFERENCES
MAP NO.
EST. NO. — W.O. NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY HCS, MJI — DATE 8-82
DRAWN BY PMT — DATE 8-82
CHECKED BY MJI — DATE 8-82

1	2	3	4	5	6	7	8	9	10	11	12
0	8	0	0	1		1	4	8	6		

RECORD DRAWINGS
DATE

PREPARED UNDER THE DIRECTION OF
8-25-82

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: 7 BAR CHANNEL
MAINTENANCE VEHICLE RAMP DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

SCALE: NO SCALE

DRAWING NO.

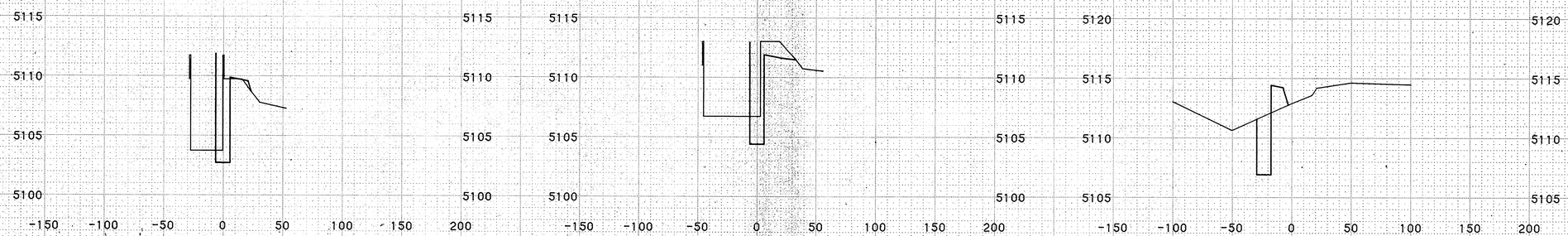
JOB NO. 11791

SHEET 14 OF 22

STATION -0+50.00

STATION 1+00.00

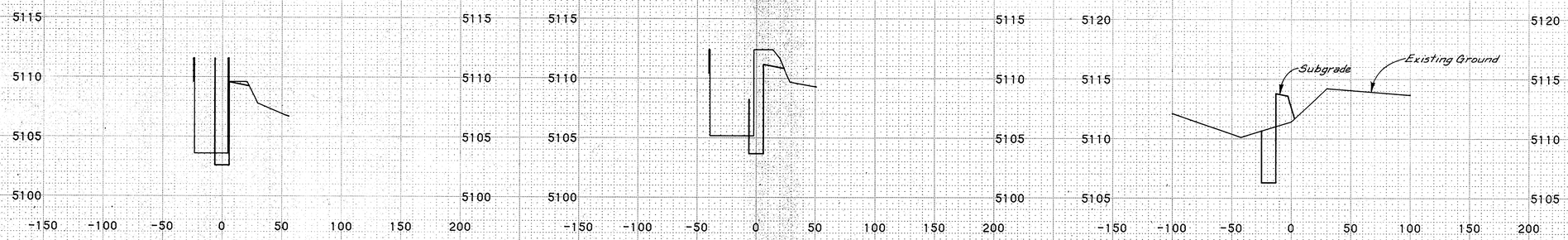
STATION 2+78.59



STATION -1+00.00

STATION 0+50.00

STATION 2+19.83



STATION -1+29.09

STATION 0+00.00

STATION 1+74.57

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

RECORD DRAWING
DATE

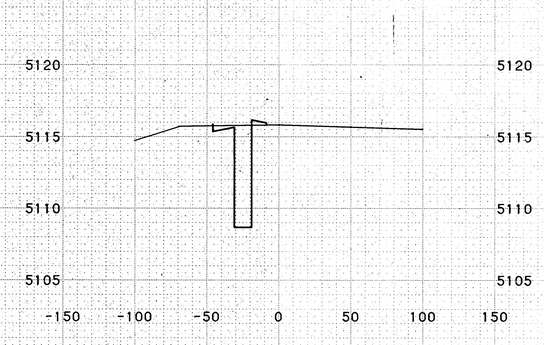
08 001 1586

Sta. -1+29.09 to Sta. 2+78.59
7-BAR CHANNEL

JOB NO. 11791 SHEET 15 OF 22

STATION 4+38.99

STATION 3+85.62



STATION 3+32.12

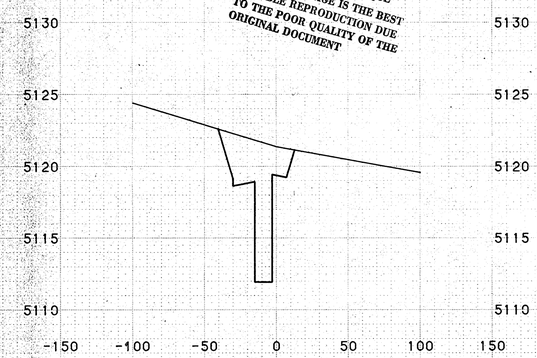
STATION 5+97.26

STATION 5+44.91

STATION 4+92.12

STATION 7+50.79

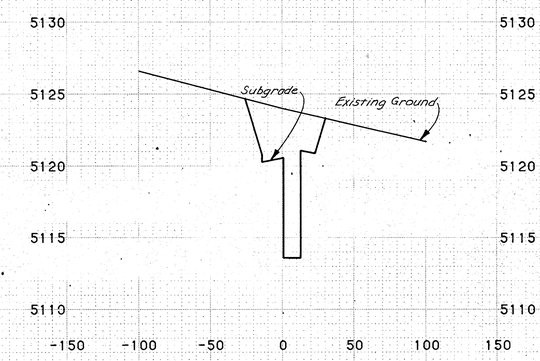
STATION 7+00.27



STATION 6+49.07

STATION 8+50.00

STATION 8+30.56



STATION 8+00.59

1	2	3	4	5	6	7	8	9	10	11	12
0	8	0	0	1	1	6	9	6			

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO	PLOTTED		
	COMPUTE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO	PLOTTED		
	COMPUTE		
	AREAS		
	AREAS CHECKED		

PATRICK L. STONE NEW MEXICO 7016 REGISTERED PROFESSIONAL ENGINEER

RECORD DRAWINGS

DATE

Sta. 3+32.12 to Sta. 8+50.00
7-BAR CHANNEL

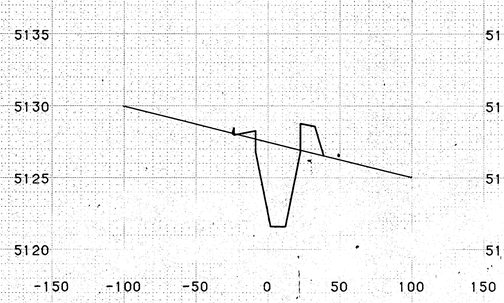
TRANSMERIDIAN INSTITUTE INC.

JOB NO. 11791

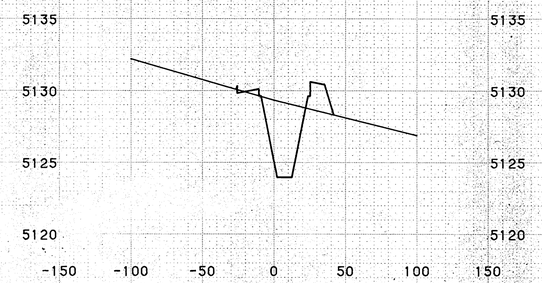
SHEET 16 OF 22

FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

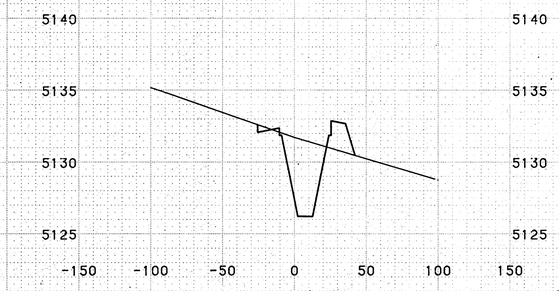
ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



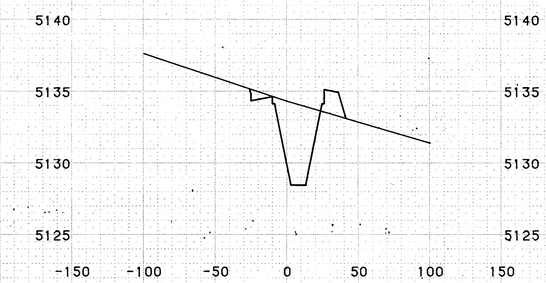
STATION 10+00.00



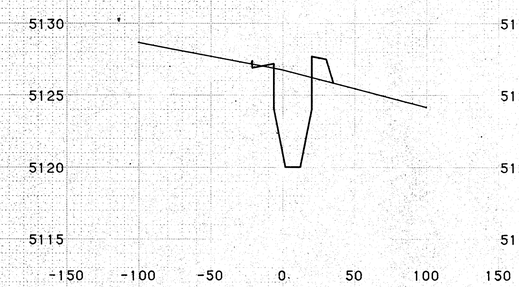
STATION 11+50.00



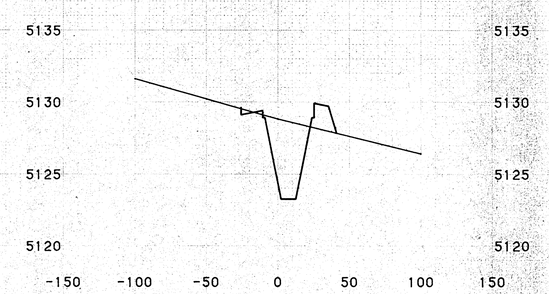
STATION 13+00.00



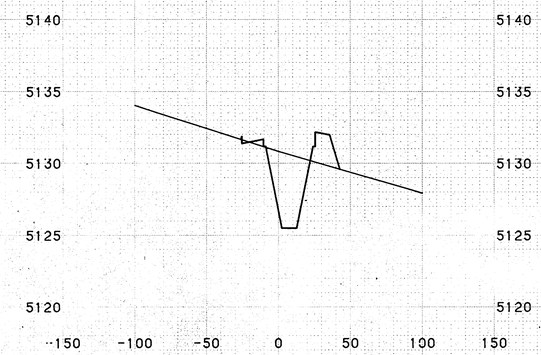
STATION 14+50.00



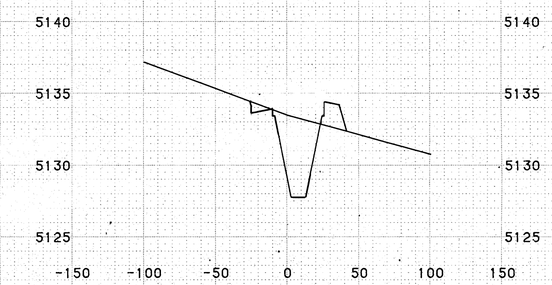
STATION 9+50.00



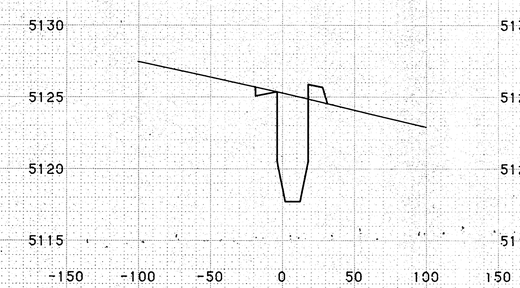
STATION 11+00.00



STATION 12+50.00



STATION 14+00.00



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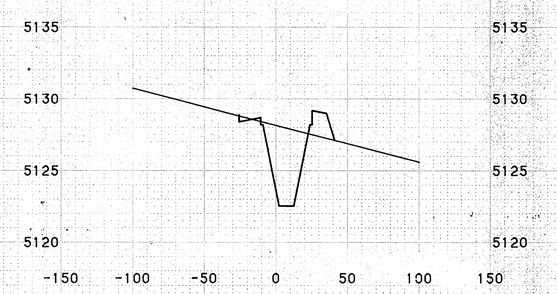

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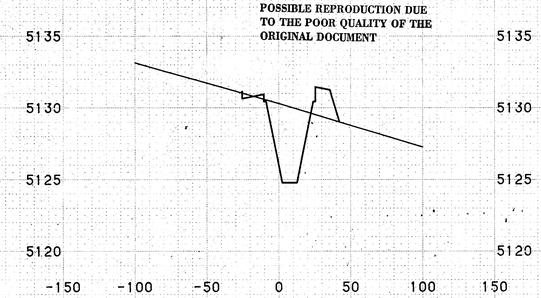
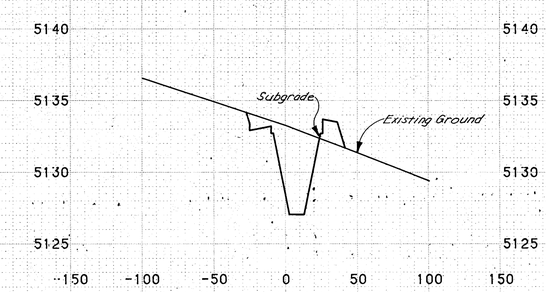


STATION 12+00.00



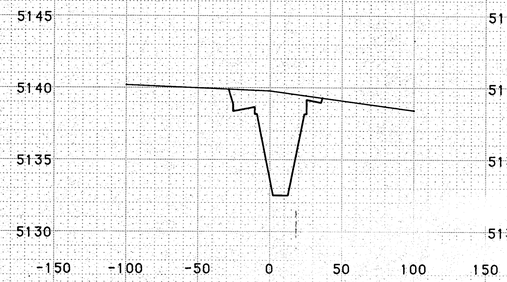
STATION 13+50.00

RECORD DRAWINGS
DATE

1 2 3 4 5 6 7 8 9 10 11 12
09 001 1786

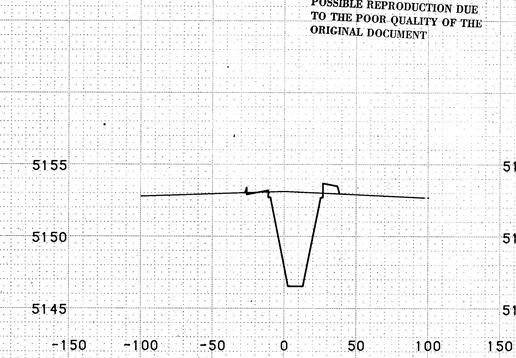
Sta. 9+00.00 to Sta. 14+50.00
7-BAR CHANNEL

JOB NO. 11791 SHEET 17 OF 22



STATION 16+00.00

STATION 17+51.27



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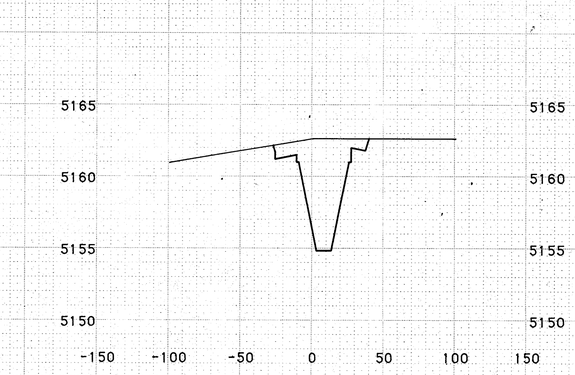

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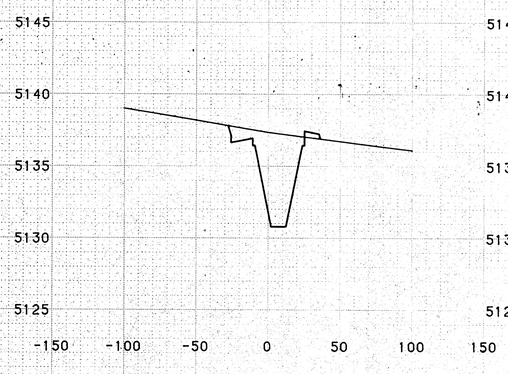
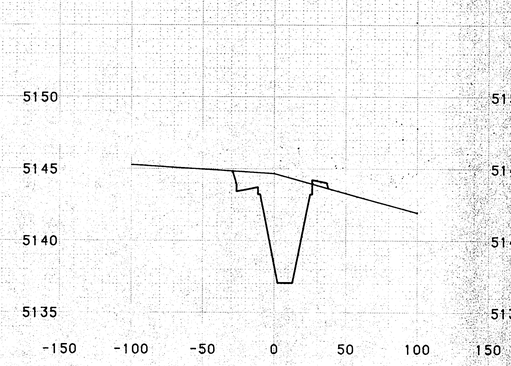
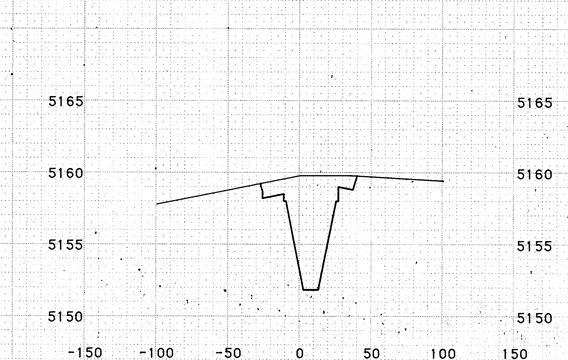


STATION 15+50.00



STATION 17+00.69

STATION 18+52.42



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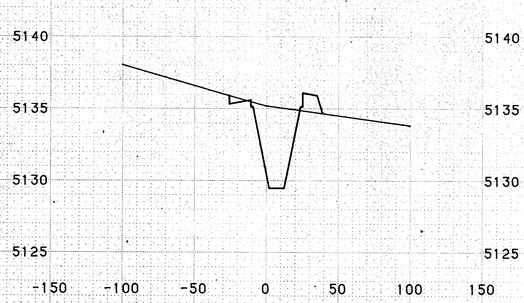

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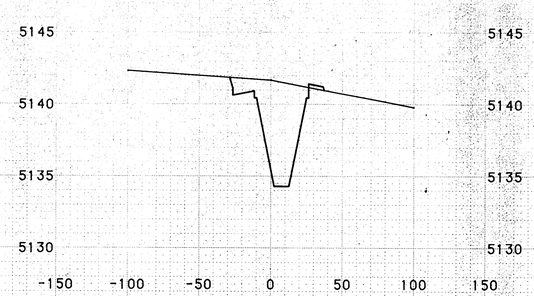

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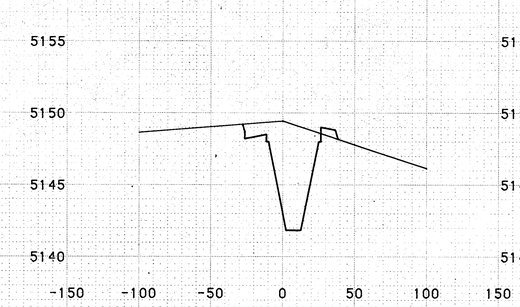
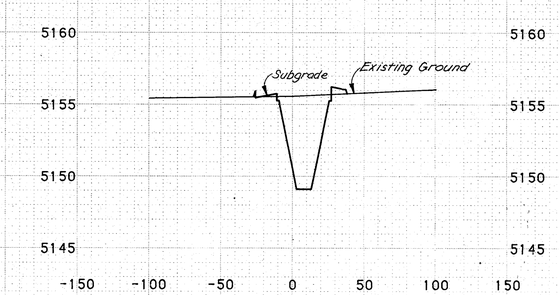


STATION 18+01.84



STATION 19+53.57

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	COMPUTED		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	COMPUTED		
	AREAS		
	AREAS CHECKED		

RECORD DRAWINGS
DATE

08 001 1996

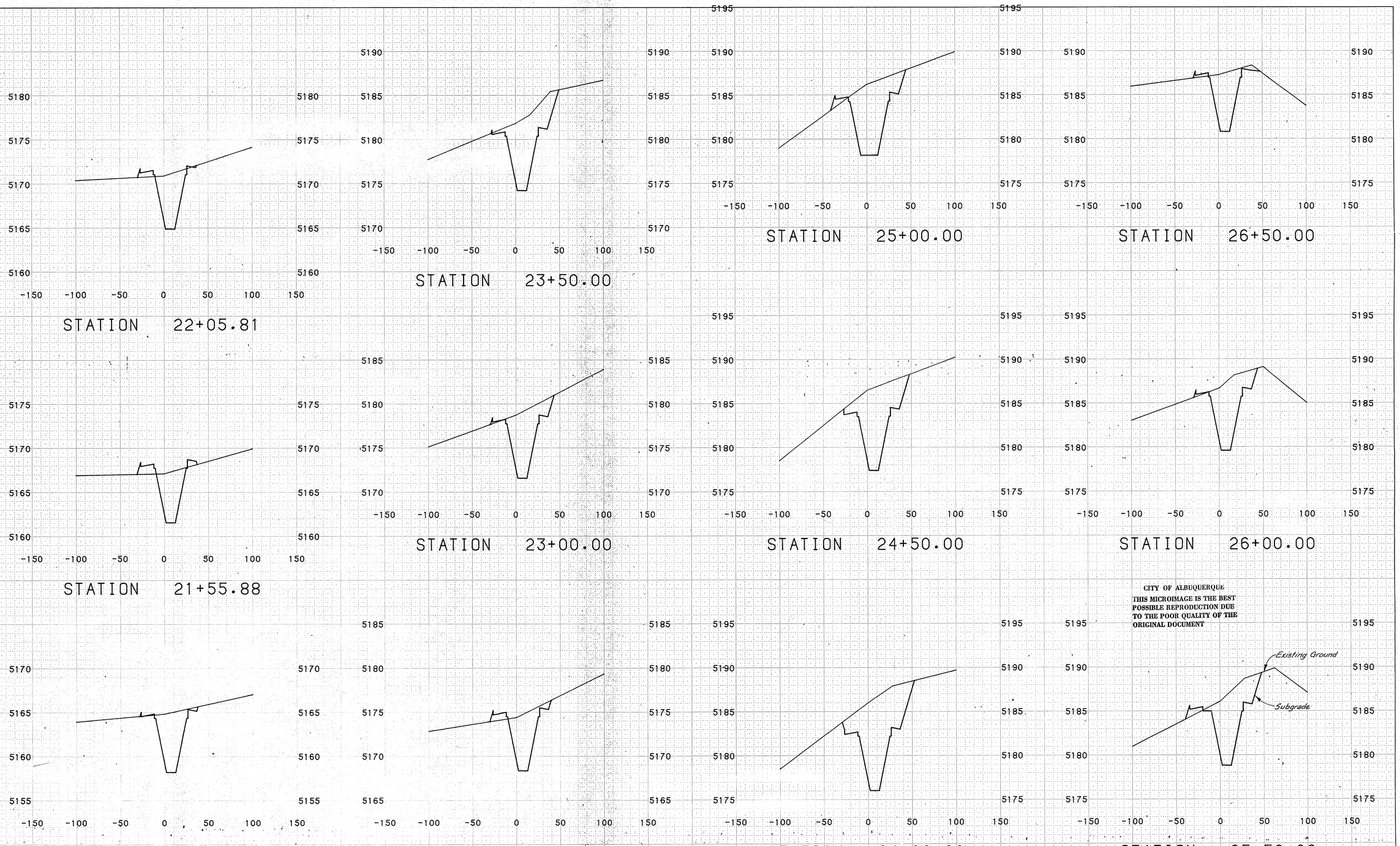
Sta. 15+00.00 to Sta. 20+54.73
7-BAR CHANNEL

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

JOB NO. 11791 SHEET 18 OF 22

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

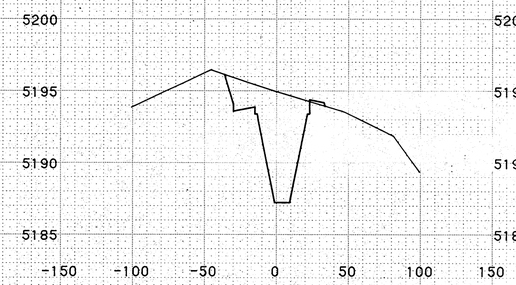


1 2 3 4 5 6 7 8 9 10 11 12
08 001 1986

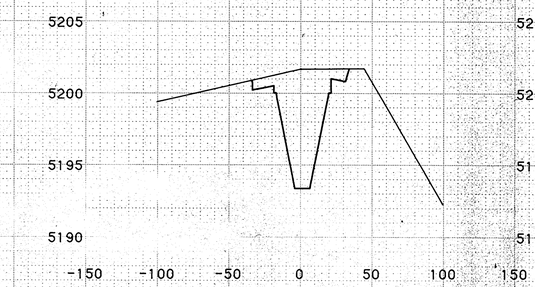
RECORD DRAWINGS
DATE

Sta. 21+05.30 to Sta. 26+50.00
7-BAR CHANNEL

JOB NO. 11791 SHEET 19 OF 22



STATION 28+01.06



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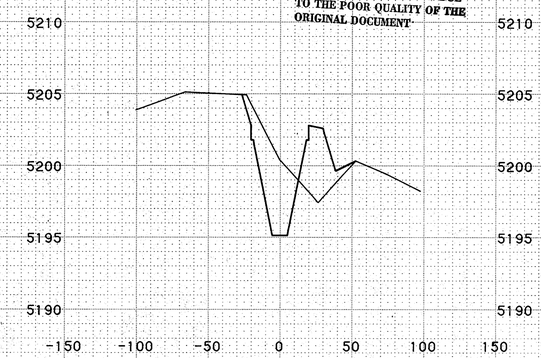

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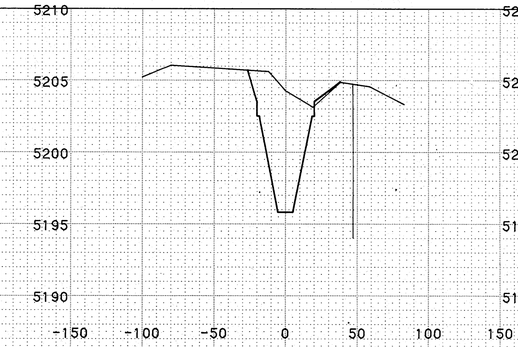
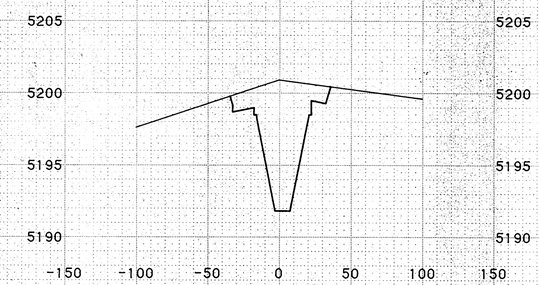


STATION 32+52.20

STATION 27+50.57



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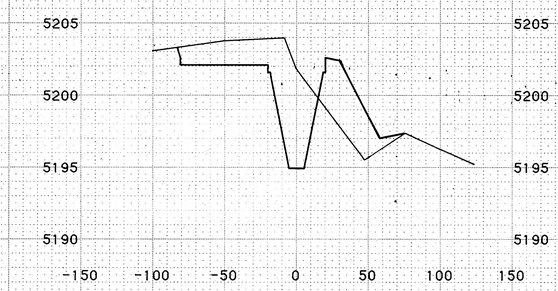
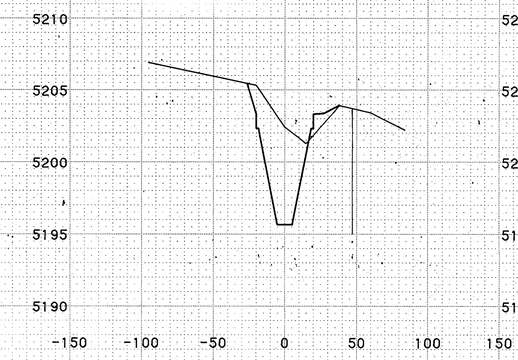


STATION 30+52.14



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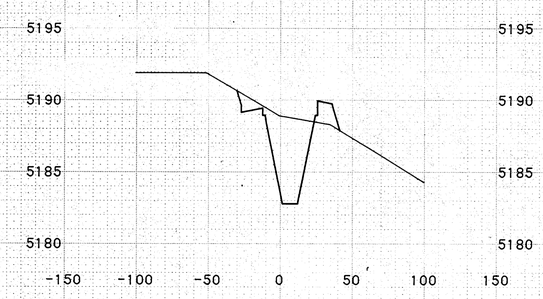

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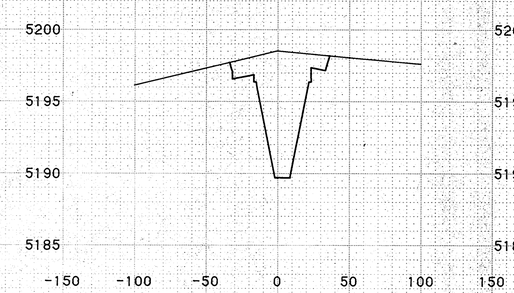

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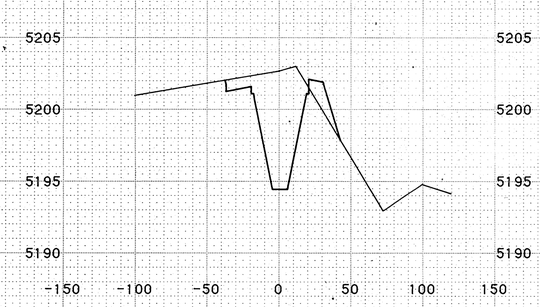

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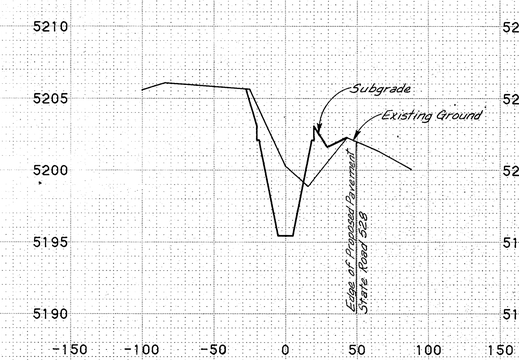


STATION 31+52.18

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NOTE BOOK	AREAS CHECKED		
NO.			

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NOTE BOOK	AREAS CHECKED		
NO.			

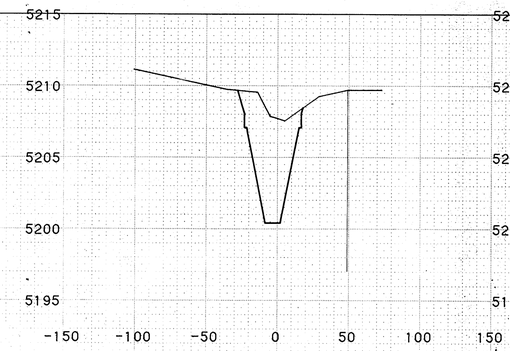
REDAC REVIEWS
DATE

08 09 1996

Sta. 27+02.97 to Sta. 32+52.20
7-BAR CHANNEL

JOB NO. 11791 SHEET 20 OF 22

STATION 40+03.76



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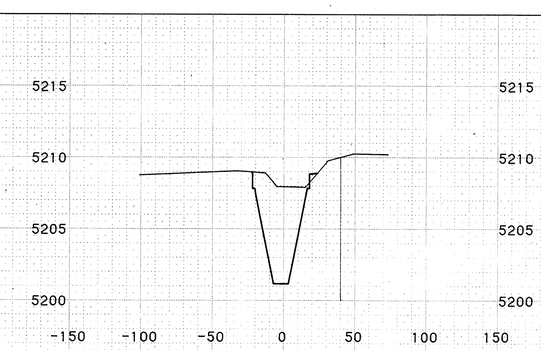
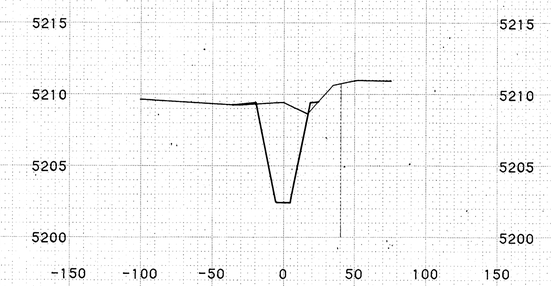


STATION 43+03.77



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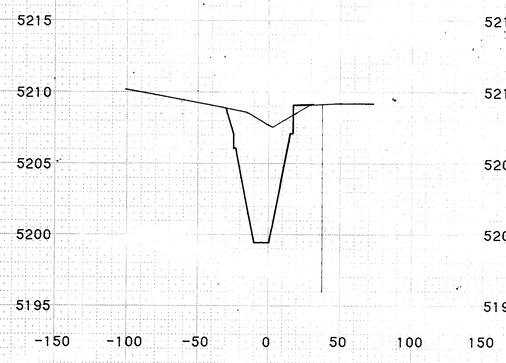

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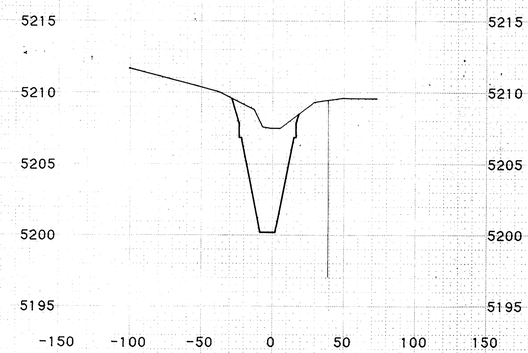
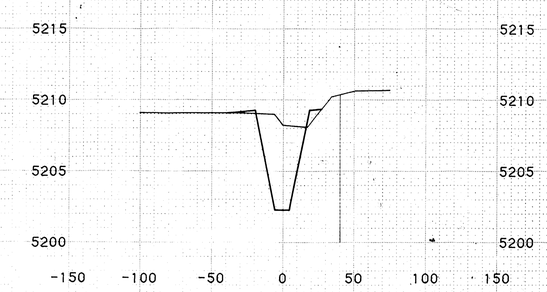
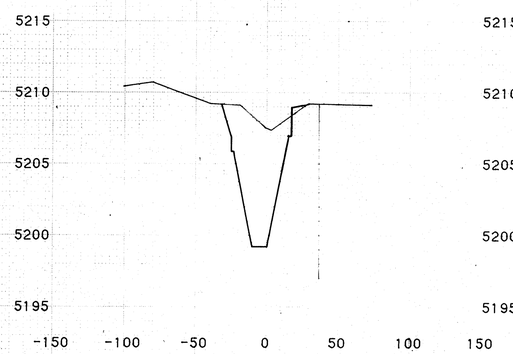


STATION 41+03.76

STATION 42+53.76



STATION 44+03.77



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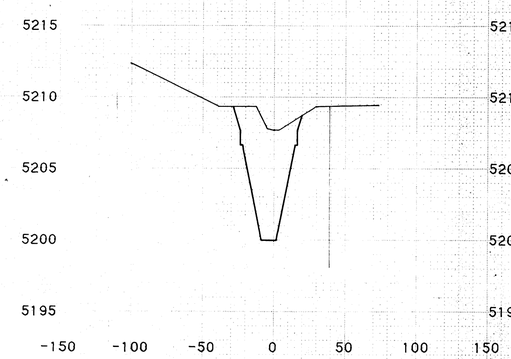

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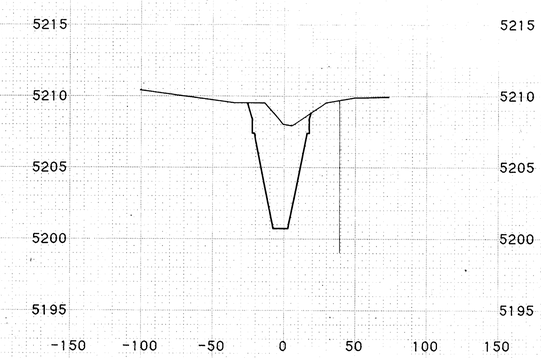

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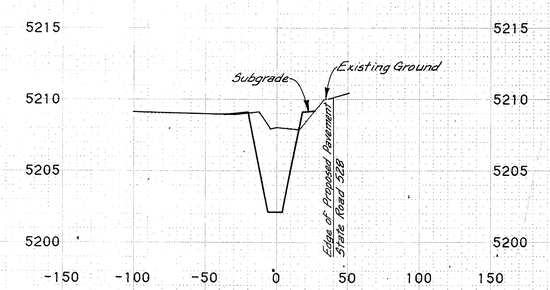


STATION 43+53.77

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

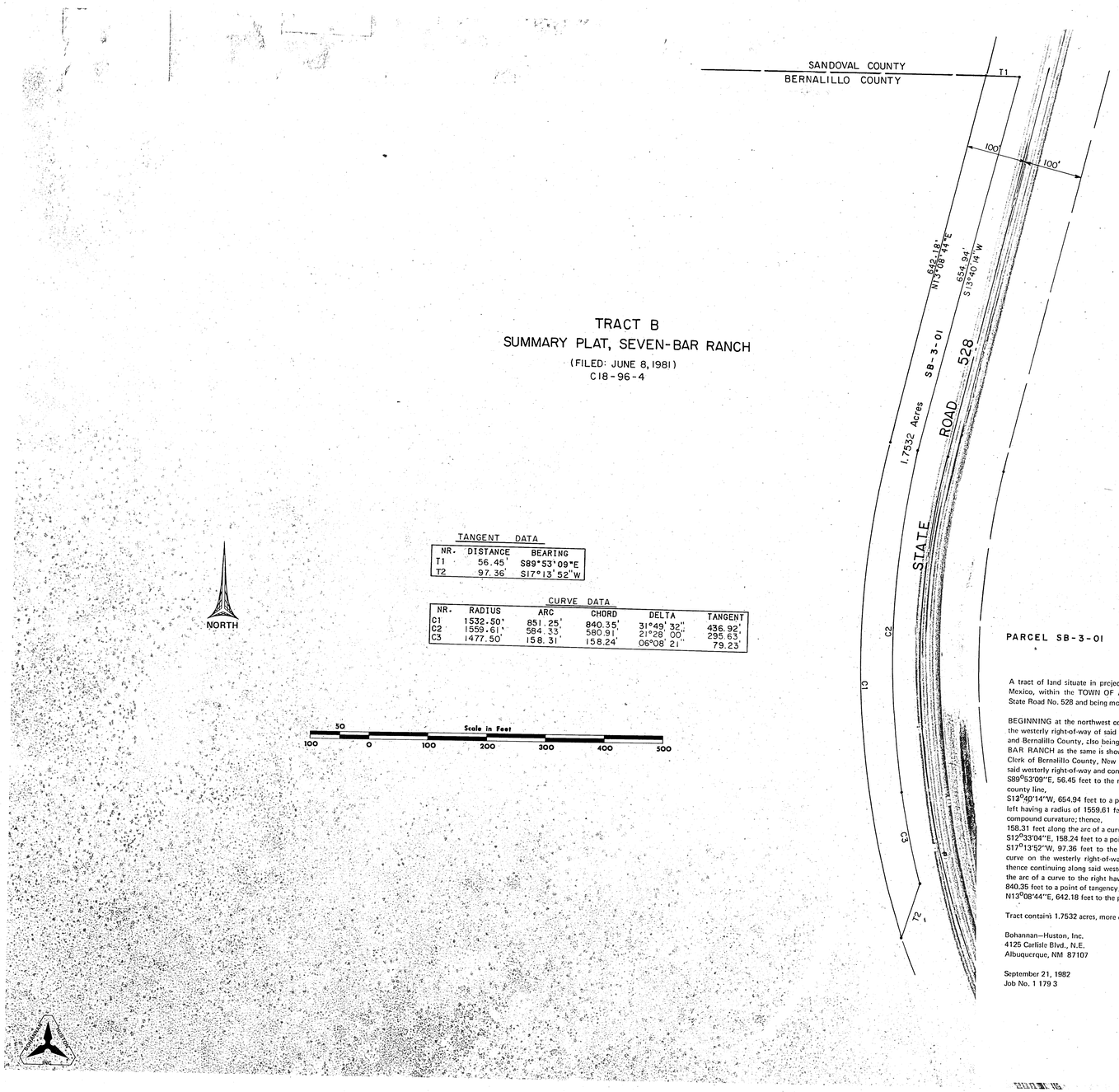
RECORD DRAWING
DATE

98 001 2236

Sta. 39+03.75 to Sta. 44+52.25
7-BAR CHANNEL

JOB NO. 11791

SHEET 22 OF 22



TANGENT DATA

NR.	DISTANCE	BEARING
T1	56.45'	S89°53'09"E
T2	97.36'	S17°13'52"W

CURVE DATA

NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C1	1532.50'	851.25'	840.35'	31°49' 32"	436.92'
C2	1559.61'	584.33'	580.91'	21°28' 00"	295.63'
C3	1477.50'	158.31'	158.24'	06°08' 21"	79.23'

PARCEL SB-3-01

DESCRIPTION
PERMIT EASEMENT

A tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT, being a westerly portion of New Mexico State Road No. 528 and being more particularly described as follows:

BEGINNING at the northwest corner of the tract herein described, said corner being a point on the westerly right-of-way of said State Road and on the county line common to Sandoval County and Bernalillo County, also being the northeast corner of Tract B of SUMMARY PLAT, SEVEN BAR RANCH as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1981, and from said beginning point, leaving said westerly right-of-way and continuing along said county line,
S89°53'09"E, 56.45 feet to the northeast corner of the tract herein described; thence leaving said county line,
S13°40'14"W, 654.94 feet to a point on curve, thence, 584.33 feet along the arc of a curve to the left having a radius of 1559.61 feet and a chord bearing S01°15'06"W, 580.91 feet to a point of compound curvature; thence,
158.31 feet along the arc of a curve to the left having a radius of 1477.50 feet and a chord bearing S12°33'04"E, 158.24 feet to a point; thence,
S17°13'52"W, 97.36 feet to the most southerly point of the tract herein described, a point on curve on the westerly right-of-way of said State Road and easterly boundary of said Tract B; thence continuing along said westerly right-of-way and said easterly boundary, 851.25 feet along the arc of a curve to the right having a radius of 1532.50 feet and a chord bearing N02°46'02"W, 840.35 feet to a point of tangency; thence,
N13°08'44"E, 642.18 feet to the point and place of beginning.

Tract contains 1.7532 acres, more or less.

Bohannan–Huston, Inc.
4125 Carlisle Blvd., N.E.
Albuquerque, NM 87107

September 21, 1982
Job No. 1 179 3

A. Dwain Weaver
A. Dwain Weaver
N.M.P.L.S. No. 6544

1	2	3	4	5	6	7	8	9	10	11	12
0	8		0	0	1	2	3	8	6		

08-001-86

PARCEL SB-1-01 DESCRIPTION PERMANENT EASEMENT

A certain tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a portion of TRACT B of SUMMARY PLAT, SEVEN BAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on June 8, 1981, and being more particularly described by plat bearings and ground distances as follows:

BEGINNING at the southwest corner of the tract herein described, being a point on the northerly boundary of the A.M.A.F.C.A. FLOOD DIVERSION NO. 2 DRAINAGE EASEMENT as the same is shown on said SUMMARY PLAT, SEVEN BAR RANCH, whence the northeast corner of said TRACT B bears, N41°29'33"E, 3616.86 feet and from beginning point leaving said northerly boundary,
N30°34'14"W, 72.07 feet to a point; thence,
N30°32'43"W, 50.00 feet to a point of curvature; thence,
238.15 feet along the arc of a curve to the left having a radius of 783.65 feet and a chord bearing N39°15'05"W, 237.24 feet to a point of tangency; thence,
N47°57'27"W, 47.79 feet to a point; thence,
N89°26'16"E, 507.31 feet to a point; thence,
S88°17'36"E, 1064.19 feet to a point of curvature; thence,
536.86 feet along the arc of a curve to the left having a radius of 617.50 feet and a chord bearing N66°48'00"E, 520.11 feet to a point of tangency; thence,
N41°53'36"E, 244.19 feet to a point; thence,
N48°06'24"W, 10.00 feet to a point; thence,
N41°53'36"E, 150.00 feet to a point; thence,
S48°06'24"E, 10.00 feet to a point; thence,
N41°53'36"E, 86.49 feet to a point of curvature; thence,
275.66 feet along the arc of a curve to the left having a radius of 541.80 feet and a chord bearing N27°19'05"E, 272.70 feet to a point; thence,
N77°15'27"W, 50.00 feet to a point on curve; thence,
99.32 feet along the arc of a curve to the left having a radius of 491.80 feet and a chord bearing N06°57'24"E, 99.15 feet to a point; thence,
S88°49'44"E, 60.00 feet to a point on curve; thence,
102.59 feet along the arc of a curve to the left having a radius of 551.80 feet and a chord bearing N04°09'19"W, 102.44 feet to a point on curve on the easterly boundary of said Tract B and the westerly right-of-way of State Road 528; thence continuing along said easterly boundary and said westerly right-of-way,
246.03 feet along the arc of a curve to the left having a radius of 1532.50 feet and a chord bearing S14°04'51"E, 245.77 feet to a point on curve; thence leaving said easterly boundary and said westerly right-of-way 305.74 feet along the arc of a curve to the right having a radius of 621.80 feet and a chord bearing S27°48'29"W, 302.67 feet to a point of tangency; thence,
S41°53'36"W, 86.49 feet to a point; thence,
S48°06'24"E, 10.00 feet to a point; thence,
S41°53'36"W, 350.00 feet to a point; thence,
N48°06'24"W, 15.00 feet to a point; thence,
S41°53'36"W, 44.19 feet to a point of curvature; thence,
602.06 feet along the arc of a curve to the right having a radius of 692.50 feet and a chord bearing S66°48'00"W, 583.28 feet to a point of tangency; thence,
N88°17'36"W, 640.70 feet to a point; thence,
S01°42'24"W, 5.00 feet to a point; thence,
N88°17'36"W, 207.76 feet to a point of curvature; thence,
457.44 feet along the arc of a curve to the left having a radius of 295.85 feet and a chord bearing S47°24'39"W, 413.21 feet to a point; thence,
S17°28'34"E, 86.05 feet to the southeast corner of the tract herein described, also being a point on the northerly boundary of said A.M.A.F.C.A. drainage easement; thence continuing along said northerly boundary,
S72°31'29"W, 170.00 feet to the point and place of beginning.

Tract contains 7.6181 acres, more or less.

PARCEL SB-1-02 DESCRIPTION PERMANENT EASEMENT

A certain tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a portion of Tract B of SUMMARY PLAT, SEVEN BAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1981, and being more particularly described by plat bearings and ground distances as follows:

BEGINNING at the northeast corner of the tract herein described, whence the northeast corner of said Tract B bears N41°29'43"E, 3613.41 feet and from said beginning point running thence,
S30°34'14"E, 11.24 feet to a point on the northerly boundary of the A.M.A.F.C.A. FLOOD DIVERSION NO. 2 DRAINAGE EASEMENT as the same is shown on said SUMMARY PLAT; thence continuing along said northerly boundary,
S42°31'29"W, 75.00 feet to the northwest corner of said A.M.A.F.C.A. Drainage Easement; thence continuing along the westerly boundary of said A.M.A.F.C.A. Drainage Easement,
S47°28'31"E, 7.24 feet to the southeast corner of the tract herein described; thence leaving said westerly boundary,
S72°48'11"W, 457.70 feet to the southwest corner of the tract herein described; thence,
N17°11'49"W, 55.00 feet to the northwest corner; thence,
N72°48'11"E, 516.22 feet to the point and place of beginning.

Tract contains 0.6176 acre, more or less.

PARCEL SB-1-01(Tb) DESCRIPTION TEMPORARY CONSTRUCTION EASEMENT

A certain tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a portion of Tract B of SUMMARY PLAT, SEVEN BAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on June 8, 1981, and being more particularly described by plat bearings and ground distances as follows:

BEGINNING at the northeast corner of the A.M.A.F.C.A. FLOOD DIVERSION NO. 2 DRAINAGE EASEMENT as the same is shown on said SUMMARY PLAT, whence the northeast corner of said TRACT B bears N38°56'16"E, 3438.28 feet and from said beginning point, continuing along the northerly boundary of said A.M.A.F.C.A. drainage easement,
N72°28'31"W, 75.00 feet to a point; thence leaving said northerly boundary,
N17°28'34"W, 86.05 feet to a point of curvature; thence, 457.44 feet along the arc of a curve to the right having a radius of 295.85 feet and a chord bearing N47°24'39"E, 413.21 feet to a point of tangency; thence,
S88°17'36"E, 207.76 feet to a point; thence,
N01°42'24"E, 5.00 feet to a point; thence,
S88°17'36"E, 640.70 feet to a point of curvature; thence, 602.06 feet along the arc of a curve to the left having a radius of 692.50 feet and a chord bearing N66°48'00"E, 583.28 feet to a point of tangency; thence,
N41°53'36"E, 44.19 feet to a point; thence,
S48°06'24"E, 15.00 feet to a point; thence,
N41°53'36"E, 350.00 feet to a point; thence,
N48°06'24"W, 10.00 feet to a point; thence,
N41°53'36"E, 86.49 feet to a point of curvature; thence,
305.74 feet along the arc of a curve to the left having a radius of 621.80 feet and a chord bearing N27°48'29"E, 302.67 feet to a point on curve on the westerly right-of-way of State Road 528 and the easterly boundary of said Tract B; thence continuing along said westerly right-of-way and easterly boundary, 64.39 feet along the arc of a curve to the left having a radius of 1532.50 feet and a chord bearing S10°53'02"E, 64.38 feet to a point on curve; thence leaving said westerly right-of-way and said easterly boundary, 253.20 feet along the arc of a curve to the right having a radius of 640.00 feet and a chord bearing S30°33'35"W, 251.55 feet to a point of tangency; thence,
S41°53'36"W, 497.16 feet to a point of curvature; thence,536.67 feet along the arc of a curve to the right having a radius of 720.00 feet and a chord bearing S66°48'00"W, 614.86 feet to a point of tangency; thence,
N88°17'36"W, 810.14 feet to a point; thence,
S78°45'03"W, 177.08 feet to a point; thence,
S12°31'29"W, 317.36 feet to the point and place of beginning.

Tract contains 2.6672 acres, more or less.

PARCEL SB-1-02(T) DESCRIPTION TEMPORARY CONSTRUCTION EASEMENT

A certain tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a portion of Tract B of SUMMARY PLAT, SEVEN BAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1981, and being more particularly described by plat bearings and ground distances as follows:

BEGINNING at the most northerly corner of the tract herein described, whence the northeast corner of said Tract B bears N42°27'48"E, 3649.91 feet, and from said beginning point running thence,
S30°34'14"E, 25.70 feet to a point; thence,
S72°48'11"W, 464.83 feet to a point; thence,
S17°11'49"E, 55.00 feet to a point; thence,
N72°48'11"E, 497.70 feet to a point on the westerly boundary of the A.M.A.F.C.A. FLOOD DIVERSION NO. 2 DRAINAGE EASEMENT as the same is shown on said SUMMARY PLAT; thence continuing along said westerly boundary,
S47°28'31"E, 28.95 feet to a point; thence leaving said westerly boundary,
S72°48'11"W, 497.29 feet to a point; thence,
N17°11'49"W, 105.00 feet to a point; thence,
N72°48'11"E, 483.88 feet to the point and place of beginning.

Tract contains 0.5922 acre, more or less.

PARCEL SB-1-01(Ta) DESCRIPTION TEMPORARY CONSTRUCTION EASEMENT

A certain tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a portion of TRACT B of SUMMARY PLAT, SEVEN BAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on June 8, 1981, and being more particularly described by plat bearings and ground distances as follows:

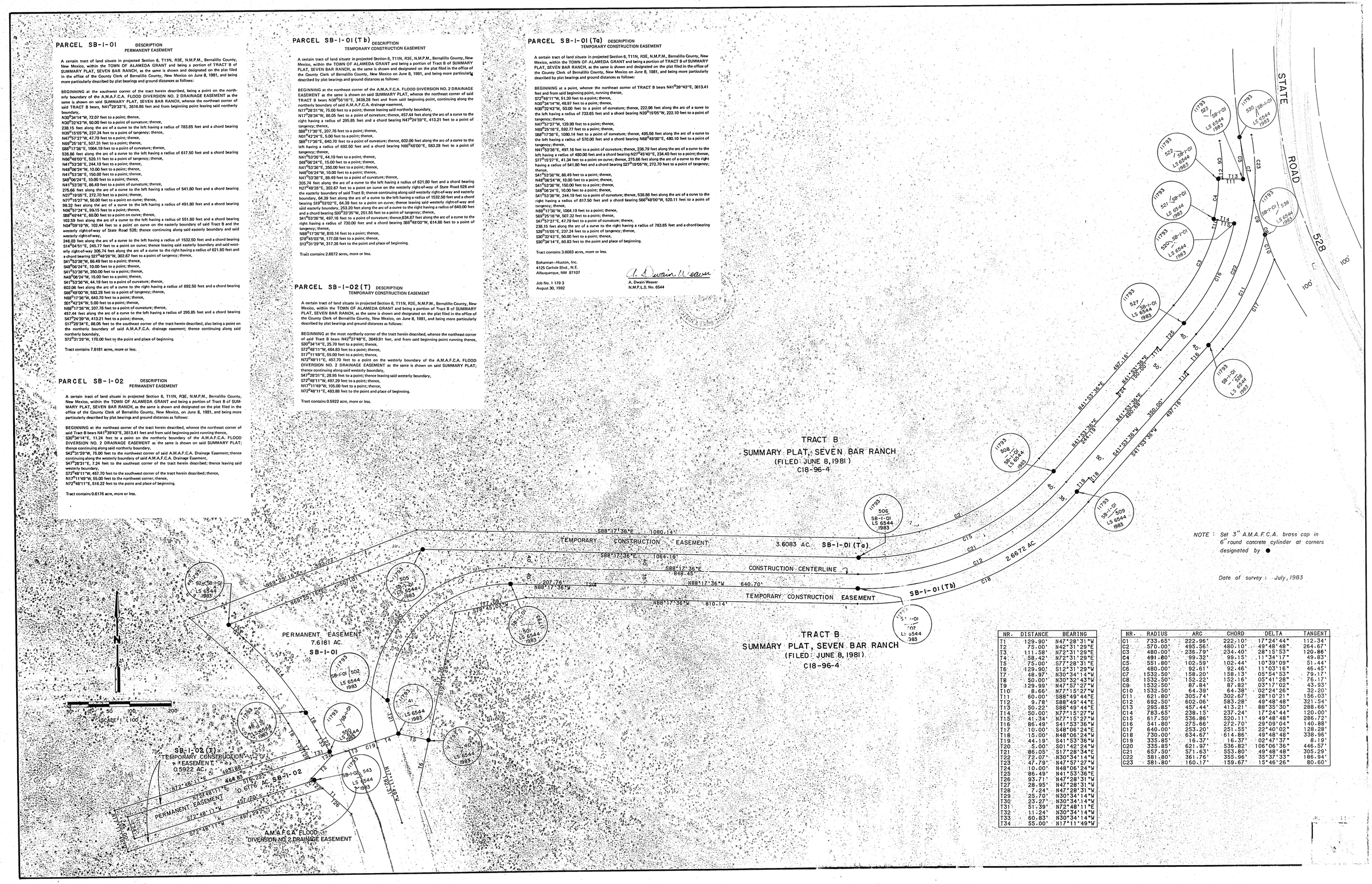
BEGINNING at a point, whence the northeast corner of TRACT B bears N41°39'43"E, 3613.41 feet and from said beginning point, running thence,
S72°48'11"W, 51.39 feet to a point; thence,
N30°34'14"W, 48.97 feet to a point; thence,
N30°32'43"W, 50.00 feet to a point of curvature; thence, 222.96 feet along the arc of a curve to the left having a radius of 733.65 feet and a chord bearing N39°15'05"W, 222.10 feet to a point of tangency; thence,
N47°57'27"W, 129.99 feet to a point; thence,
N89°26'16"E, 592.77 feet to a point; thence,
S88°17'36"E, 1080.14 feet to a point of curvature; thence, 495.56 feet along the arc of a curve to the left having a radius of 570.00 feet and a chord bearing N66°48'00"E, 480.10 feet to a point of tangency; thence,
N41°53'36"E, 497.16 feet to a point of curvature; thence, 236.79 feet along the arc of a curve to the left having a radius of 480.00 feet and a chord bearing N27°46'40"E, 234.40 feet to a point; thence,
S17°15'27"E, 41.34 feet to a point on curve; thence, 275.66 feet along the arc of a curve to the right having a radius of 541.80 feet and a chord bearing S27°19'05"W, 272.70 feet to a point of tangency; thence,
S41°53'36"W, 86.49 feet to a point; thence,
N48°06'24"W, 10.00 feet to a point; thence,
S41°53'36"W, 150.00 feet to a point; thence,
S48°06'24"E, 10.00 feet to a point; thence,
S41°53'36"W, 244.19 feet to a point of curvature; thence, 536.86 feet along the arc of a curve to the right having a radius of 617.50 feet and a chord bearing S66°48'00"W, 520.11 feet to a point of tangency; thence,
N88°17'36"W, 1064.19 feet to a point; thence,
S69°26'16"W, 507.32 feet to a point; thence,
S47°57'27"E, 47.79 feet to a point of curvature; thence,
238.15 feet along the arc of a curve to the right having a radius of 783.65 feet and a chord bearing S39°15'05"E, 237.24 feet to a point of tangency; thence,
S30°32'43"E, 50.00 feet to a point; thence,
S30°34'14"E, 60.83 feet to the point and place of beginning.

Tract contains 3.6083 acres, more or less.

Bohannan–Huston, Inc.
4125 Carlisle Blvd., N.E.
Albuquerque, NM 87107

Job No. 1 179 3
August 30, 1982

A. Dwain Weaver
A. Dwain Weaver
N.M.P.L.S. No. 6544



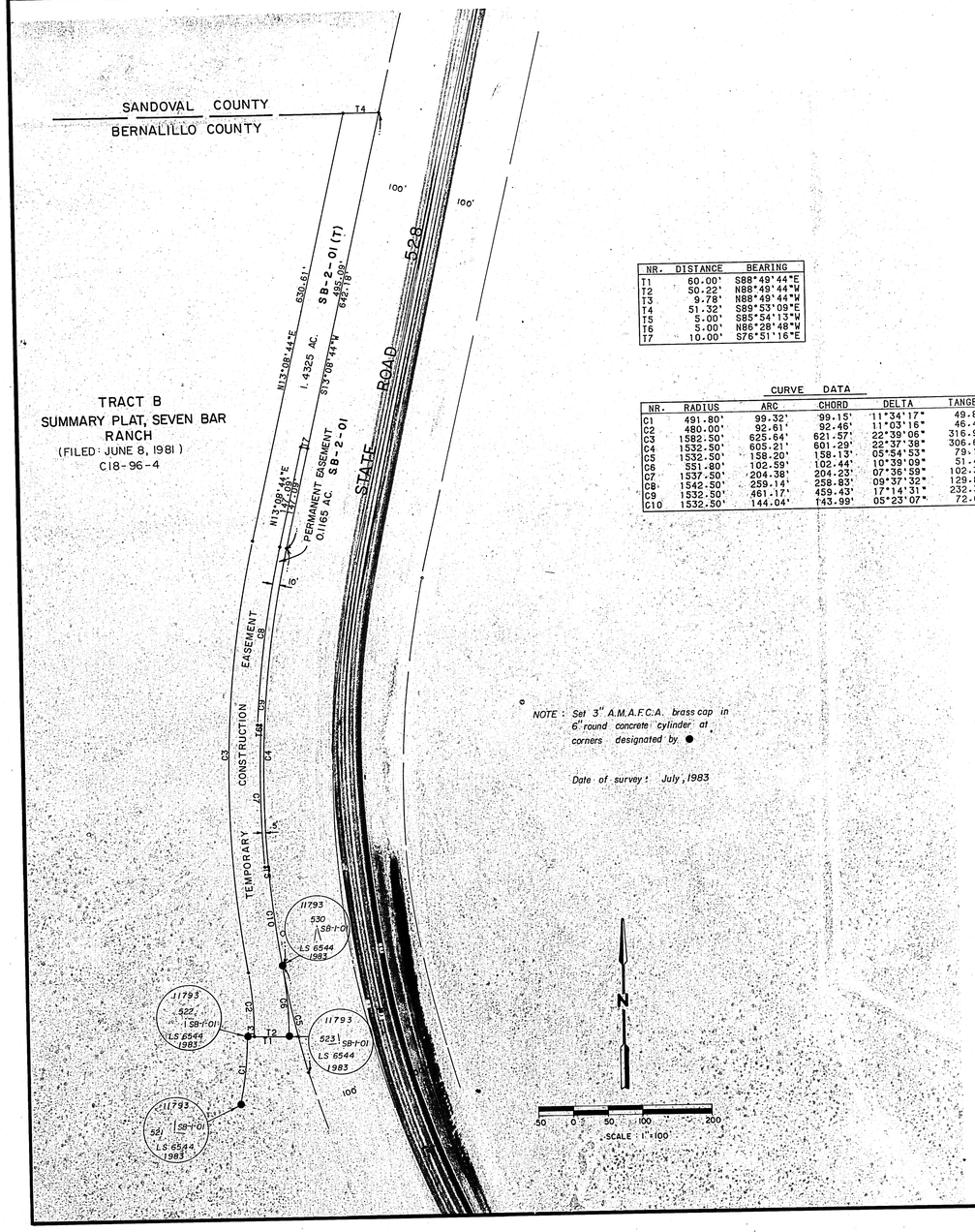
NOTE: Set 3" A.M.A.F.C.A. brass cap in 6" round concrete cylinder at corners designated by ●

Date of survey: July, 1983

NR.	DISTANCE	BEARING
T1	129.90'	N47°28'31"W
T2	75.00'	N42°31'29"E
T3	111.58'	N72°31'29"E
T4	58.42'	N72°31'29"E
T5	75.00'	S77°28'31"E
T6	129.90'	S12°31'29"W
T7	48.97'	N30°34'14"W
T8	50.00'	N30°32'43"W
T9	129.99'	N47°57'27"W
T10	8.66'	N77°15'27"W
T11	60.00'	S88°49'44"E
T12	9.78'	S88°49'44"E
T13	50.22'	S88°49'44"E
T14	50.00'	N77°15'27"W
T15	41.34'	N77°15'27"W
T16	86.49'	S41°53'36"W
T17	10.00'	S48°06'24"E
T18	15.00'	N48°06'24"W
T19	44.19'	S41°53'36"W
T20	5.00'	S01°42'24"W
T21	86.05'	S17°28'34"E
T22	72.07'	N30°34'14"W
T23	47.79'	N47°57'27"W
T24	10.00'	N48°06'24"W
T25	86.49'	N41°53'36"E
T26	93.71'	N47°28'31"W
T27	28.95'	N47°28'31"W
T28	7.24'	N47°28'31"W
T29	25.70'	N30°34'14"W
T30	23.27'	N30°34'14"W
T31	51.39'	N72°48'11"E
T32	11.24'	N30°34'14"W
T33	60.83'	N30°34'14"W
T34	55.00'	N17°11'49"W

NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C1	733.65'	222.96'	222.10'	17°24'44"	112.34'
C2	570.00'	495.56'	480.10'	49°48'48"	264.67'
C3	480.00'	236.79'	234.40'	28°15'53"	120.86'
C4	491.80'	99.32'	99.15'	11°34'17"	49.83'
C5	551.80'	102.59'	102.44'	10°39'09"	51.44'
C6	480.00'	92.61'	92.46'	11°03'16"	46.45'
C7	1532.50'	158.20'	158.13'	05°54'53"	79.17'
C8	1532.50'	152.22'	152.16'	05°41'28"	76.17'
C9	1532.50'	87.84'	87.82'	03°17'02"	43.93'
C10	1532.50'	64.39'	64.38'	02°24'26"	32.20'
C11	621.80'	305.74'	302.67'	28°10'21"	156.03'
C12	692.50'	602.06'	583.28'	49°48'48"	321.54'
C13	295.85'	457.44'	413.21'	88°35'30"	288.66'
C14	783.65'	238.15'	237.24'	17°24'44"	120.00'
C15	617.50'	536.86'	520.11'	49°48'48"	286.72'
C16	541.80'	275.66'	272.70'	29°09'04"	140.88'
C17	640.00'	253.20'	251.55'	22°40'02"	128.28'
C18	730.00'	634.67'	614.86'	49°48'48"	338.96'
C19	335.85'	16.37'	16.37'	02°47'37"	8.19'
C20	335.85'	621.97'	536.82'	106°06'36"	446.57'
C21	657.50'	571.63'	553.80'	49°48'48"	305.29'
C22	581.80'	361.76'	355.96'	35°37'33"	186.94'
C23	581.80'	160.17'	159.67'	15°46'26"	80.60'

8 2 3 4 5 6 7 8 9 10 11 12
08 001 2586



NOTE: Set 3" A.M.A.F.C.A. brass cap in 6" round concrete cylinder at corners designated by ●

Date of survey: July, 1983

NR.	DISTANCE	BEARING
T1	60.00'	S88°49'44"E
T2	50.22'	N88°49'44"W
T3	9.78'	N88°49'44"W
T4	51.32'	S89°53'09"E
T5	5.00'	S85°54'13"W
T6	5.00'	N86°28'48"W
T7	10.00'	S76°51'16"E

CURVE DATA

NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C1	491.80'	99.32'	99.15'	11°34'17"	49.83'
C2	480.00'	92.61'	92.46'	11°03'16"	46.45'
C3	1582.50'	625.64'	621.57'	22°39'06"	316.96'
C4	1532.50'	605.21'	601.29'	22°37'38"	306.60'
C5	1532.50'	158.20'	158.13'	05°54'53"	79.17'
C6	551.80'	102.59'	102.44'	10°39'09"	51.44'
C7	1537.50'	204.38'	204.23'	07°36'59"	102.34'
C8	1542.50'	259.14'	258.83'	09°37'32"	129.87'
C9	1532.50'	461.17'	459.43'	17°14'31"	232.34'
C10	1532.50'	144.04'	143.99'	05°23'07"	72.07'

PARCEL SB-2-01(T) DESCRIPTION
TEMPORARY CONSTRUCTION EASEMENT

A certain tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a portion of Tract B of SUMMARY PLAT, SEVEN BAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on June 8, 1981, and being more particularly described by plat bearings and gound distances as follows:

BEGINNING at the northeast corner of said Tract B, being also a point on the westerly right-of-way of State Road 528, and from said beginning point running thence,
S13°08'44"W, 495.09 feet along the easterly boundary of said Tract B and said westerly right-of-way to a point; thence leaving said easterly boundary and said westerly right-of-way,
N76°51'16"W, 10.00 feet to a point; thence,
S13°08'44"W, 147.09 feet to a point of curvature; thence,
259.14 feet along the arc of a curve to the left having a radius of 1542.50 feet and a chord bearing
S08°19'58"W, 258.83 feet to a point; thence,
S86°28'48"E, 5.00 feet to a point on curve; thence,
204.38 feet along the arc of a curve to the left having a radius of 1537.50 feet and a chord bearing
S00°17'18"E, 204.23 feet to a point; thence,
N85°54'13"E, 5.00 feet to a point on curve on said easterly boundary of Tract B and said westerly right-of-way of State Road 528; thence continuing along said easterly boundary and said westerly right-of-way,
144.04 feet along the arc of a curve to the left having a radius of 1532.50 feet and a chord bearing
S06°47'20"E, 143.99 feet to a point of reverse curvature; thence leaving said easterly boundary and said westerly right-of-way, 102.59 feet along the arc of a curve to the right having a radius of 551.80 feet and a chord bearing S04°09'19"E, 102.44 feet to a point; thence,
N88°49'44"W, 50.22 feet to a point on curve; thence,
92.61 feet along the arc of a curve to the left having a radius of 480.00 feet and a chord bearing
N03°58'45"W, 92.46 feet to a point of reverse curvature; thence,
625.64 feet along the arc of a curve to the right having a radius of 1582.50 feet and a chord bearing
N01°49'11"E, 621.57 feet to a point of tangency; thence,
N13°08'44"E, 630.61 feet to a point on the northerly boundary of said Tract B; thence continuing along said northerly boundary,
S89°53'09"E, 51.32 feet to the point and place of beginning.

Tract contains 1.4325 acres, more or less.

PARCEL SB-2-01 DESCRIPTION
PERMANENT EASEMENT

A certain tract of land situate in projected Section 6, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a portion of Tract B of SUMMARY PLAT, SEVEN BAR RANCH, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1981, and being more particularly described by plat bearings and ground distances as follows:

BEGINNING at the northeast corner of the tract herein described, said corner being a point on the westerly right-of-way of State Road 528 and on the easterly boundary of said Tract B, whence the northeast corner of said Tract B bears N13°08'44"E, 495.09 feet and from said beginning point running thence,
S13°08'44"W, 147.09 feet along said westerly right-of-way and said easterly boundary to a point on a curve; thence,
461.17 feet along the arc of a curve to the left having a radius of 1532.50 feet and a chord bearing
S04°31'29"W, 459.43 feet to the southeast corner of the tract herein described; thence leaving said westerly right-of-way and said easterly boundary,
S85°54'13"W, 5.00 feet to the southwest corner of the tract herein described, a point on curve; thence,
204.38 feet along the arc of a curve to the right having a radius of 1537.50 feet and a chord bearing
N00°17'18"W, 204.23 feet to a point; thence,
N86°28'48"W, 5.00 feet to a point on curve; thence,
259.14 feet along the arc of a curve to the right having a radius of 1542.50 feet and a chord bearing
N08°19'58"E, 258.83 feet to a point of tangency; thence,
N13°08'44"E, 147.09 feet to the northwest corner of the tract herein described; thence,
S76°51'16"E, 10.00 feet to the point and place of beginning.

Tract contains 0.1165 acre, more or less.

Bohannan–Huston, Inc.
4125 Carlisle Blvd., N.E.
Albuquerque, NM 87107

Job No. 1 179 3
August 30, 1982

A. Dwain Weaver
A. Dwain Weaver
N.M.P.L.S. No. 6544

JOB NO. 11793

1 2 3 4 5 6 7 8 9 10 11 12
08 001 2486

NR.	DISTANCE	BEARING
T1	74.63'	S61°05'37"W

NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C3	666.78'	103.51'	103.40'	08°53'39"	51.86'
C4	25.00'	55.06'	44.59'	126°10'51"	49.26'

DESCRIPTION

A certain tract of land situate in projected Section 5, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN OF ALAMEDA GRANT and being a northerly portion of the Corrales Main Canal and TRACT D of SUMMARY PLAT, SEVEN BAR RANCH as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on June 8, 1981, and being more particularly described by plat bearings and ground distances as follows:

BEGINNING at the northwest corner of the tract herein described, said corner being the northeast corner of TRACT C of said SUMMARY PLAT, SEVEN BAR RANCH, a point on the westerly right-of-way of said Corrales Main Canal and from beginning point running thence,

S64°58'18"E, 123.33 feet to the northwest corner of said TRACT D; a point on the easterly right-of-way of the Corrales Main Canal; thence continuing along the northerly boundary of said TRACT D,

S64°58'18"E, 512.56 feet to a point; thence,

S64°56'06"E, 678.76 feet to a point; thence,

S44°06'06"E, 172.50 feet to a point; thence,

S65°05'14"E, 1247.87 feet to the northeast corner of said TRACT D, a point of curvature; thence, leaving the northerly boundary of said TRACT D, 55.06 feet along the arc of a curve to the right having a radius of 25.00 feet and a chord bearing

S01°59'49"E, 44.59 feet to a point of tangency on the westerly right-of-way of Corrales Road; thence,

S61°05'37"W, 74.63 feet along the westerly right-of-way of said Corrales Road to the southeast corner of the tract herein described; thence,

N65°05'14"W, 1242.51 feet to a point; thence,

N44°06'06"W, 172.64 feet to a point; thence,

N64°56'06"W, 660.35 feet to a point; thence,

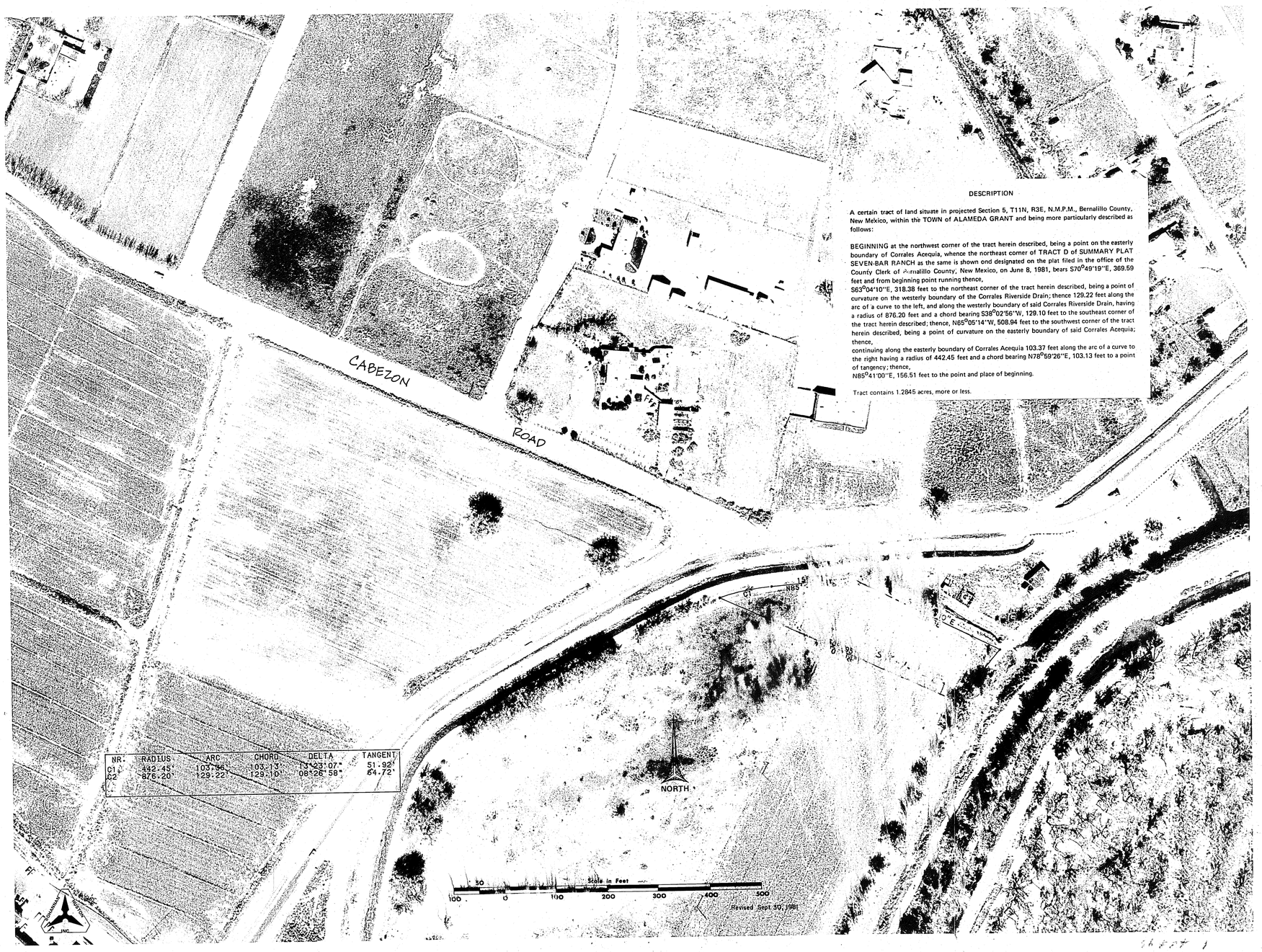
N64°58'18"W, 530.40 feet to a point on the westerly boundary of said TRACT D and on the easterly boundary of said Corrales Main Canal; thence,

N64°58'18"W, 120.53 feet to the southwest corner of the tract herein described, a point on a curve on the easterly boundary of said TRACT C and on the westerly right-of-way of said Corrales Main Canal; thence,

continuing along the westerly boundary of said Corrales Main Canal and the easterly boundary of said TRACT C, 101.20 feet along the arc of a curve to the right, having a radius of 786.78 feet and a chord bearing N33°35'58"E, 101.13 feet to the point and place of beginning.

Tract contains 6.3155 acres, more or less.

Revised Sept. 30, 1981
Revised Oct. 5, 1981



NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C1	442.45'	103.36'	103.13'	13°23'07"	51.92'
C2	876.20'	129.22'	129.10'	08°26'58"	64.72'

DESCRIPTION

A certain tract of land situate in projected Section 5, T11N, R3E, N.M.P.M., Bernalillo County, New Mexico, within the TOWN of ALAMEDA GRANT and being more particularly described as follows:

BEGINNING at the northwest corner of the tract herein described, being a point on the easterly boundary of Corrales Acequia, whence the northeast corner of TRACT D of SUMMARY PLAT SEVEN-BAR RANCH as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico, on June 8, 1981, bears S70°49'19"E, 369.59 feet and from beginning point running thence,

S63°04'10"E, 318.38 feet to the northeast corner of the tract herein described, being a point of curvature on the westerly boundary of the Corrales Riverside Drain; thence 129.22 feet along the arc of a curve to the left, and along the westerly boundary of said Corrales Riverside Drain, having a radius of 876.20 feet and a chord bearing S38°02'56"W, 129.10 feet to the southeast corner of the tract herein described; thence, N65°05'14"W, 508.94 feet to the southwest corner of the tract herein described, being a point of curvature on the easterly boundary of said Corrales Acequia; thence,

continuing along the easterly boundary of Corrales Acequia 103.37 feet along the arc of a curve to the right having a radius of 442.45 feet and a chord bearing N78°59'26"E, 103.13 feet to a point of tangency; thence,

N85°41'00"E, 156.51 feet to the point and place of beginning.

Tract contains 1.2845 acres, more or less.

Sheet 1

1	2	3	4	5	6	7	8	9	10	11	12
0	8	0	0	1	2	7	8	6			