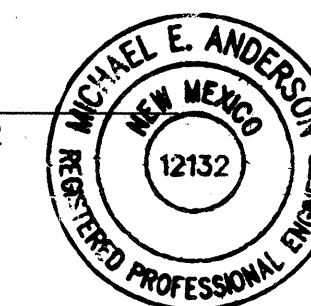


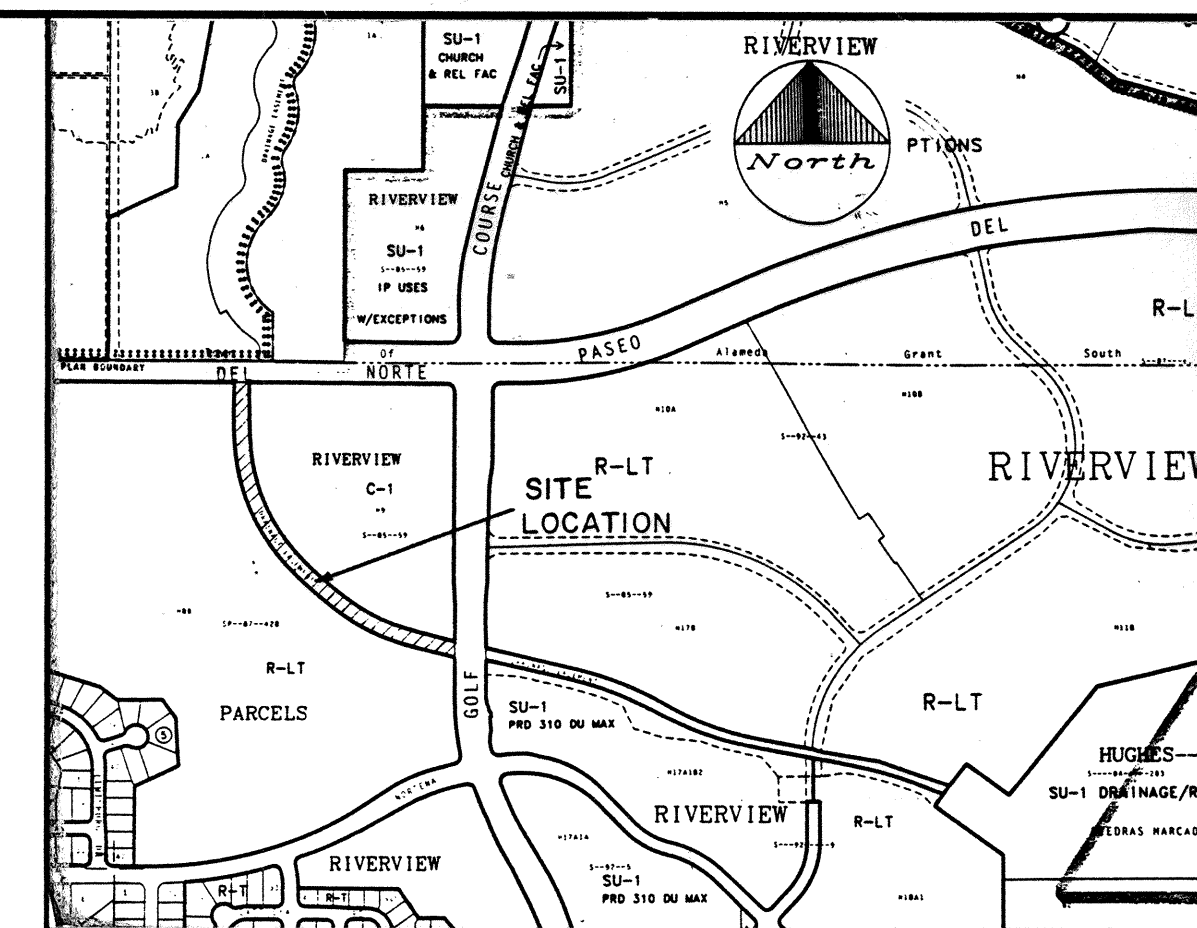
RECORD DRAWINGS - AS BUILT
CONSTRUCTION PLANS
FOR
MIDDLE BRANCH
PIEDRAS MARCADAS ARROYO
GOLF COURSE ROAD
TO PASEO DEL NORTE
ALBUQUERQUE, NEW MEXICO

ENGINEERS CERTIFICATION:
"I, MICHAEL E. ANDERSON, A DULY QUALIFIED REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND "AS-BUILT" SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS ADDED BY ME OR UNDER MY SUPERVISION, AND THAT THIS "AS-BUILT" INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND AM NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORD DRAWINGS."

MICHAEL E. ANDERSON, P.E. NO. 12132



DATE



VICINITY MAP
NOT TO SCALE
C-12

NOTICE TO CONTRACTORS

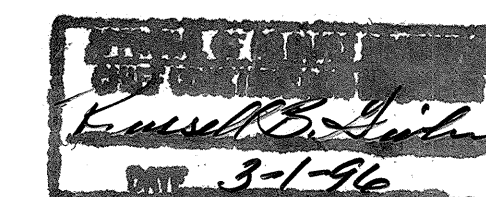
1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. THREE (3) WORKING DAYS PRIOR TO CONST., THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
5. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
6. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEV. OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET / VICINITY MAP
2	PLAN AND PROFILE STA. 29+41.61 TO 37+12.30
3	PLAN AND PROFILE STA. 37+12.30 TO 44+52.21
4	STRUCTURE AT GOLF COURSE RD.
5	STORM SEWER PLAN & PROFILE AND CONFLUENCE PLAN
6	INLET STRUCTURE
7	TYPICAL CROSS SECTIONS
8	GENERAL DETAILS
9	STRUCTURAL DETAILS
10	66" RCP PIPE PENETRATION (STRUCTURAL DETAILS)
10A	24" RCP PIPE PENETRATION (STRUCTURAL DETAILS)
11-13	CHANNEL CROSS SECTIONS

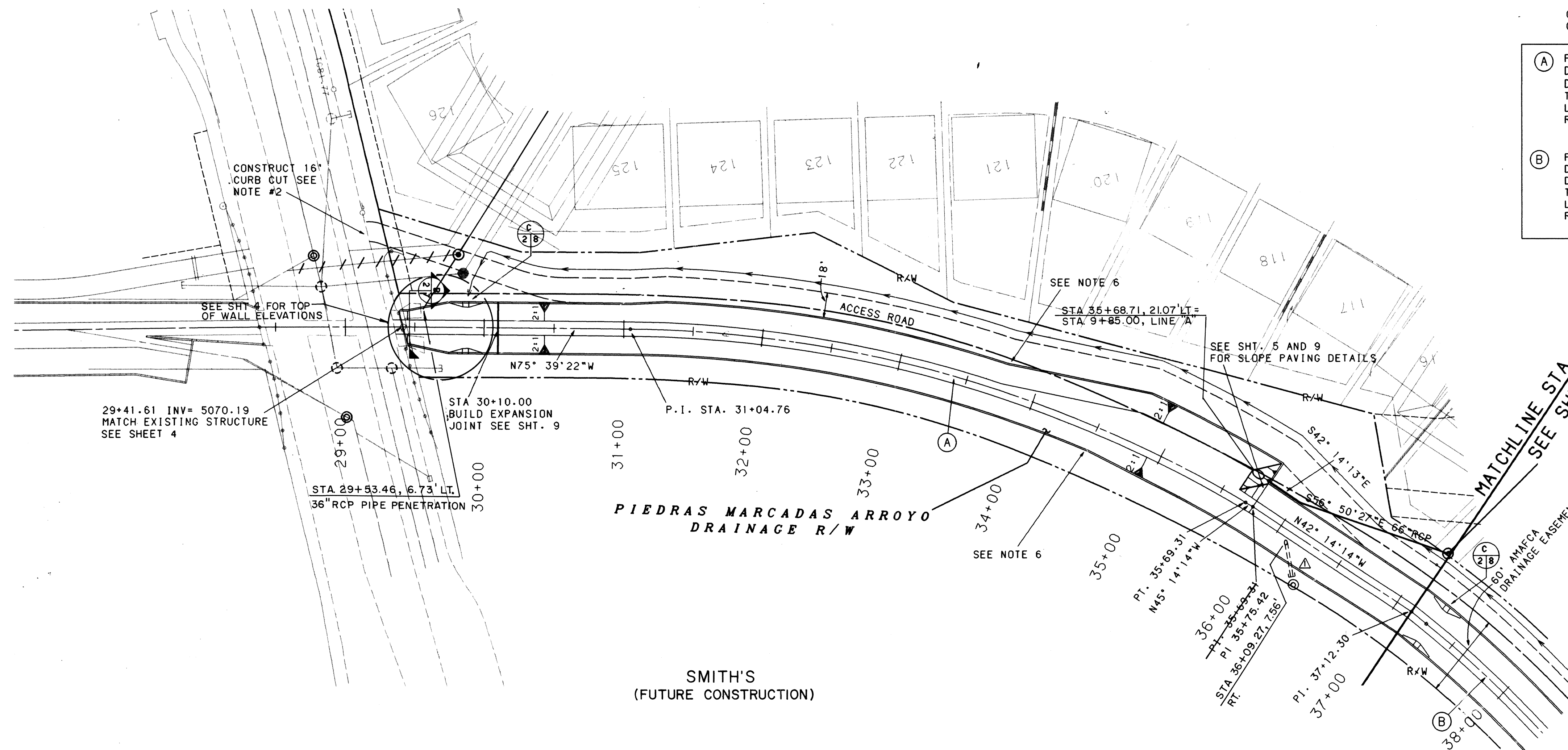
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4909.90 0196



1-2-3- S.A. 10A	ADDED 24" RCP & WATERLINE STEEL CASING	12/94							
REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE		

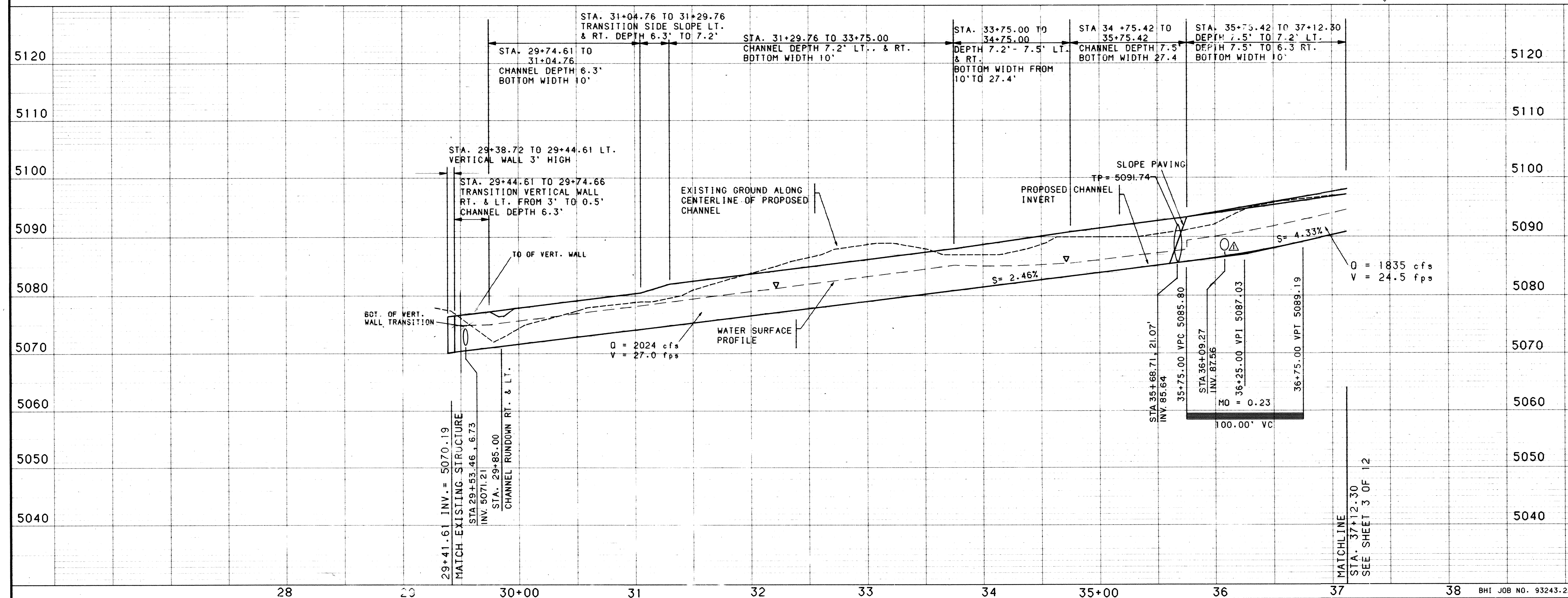
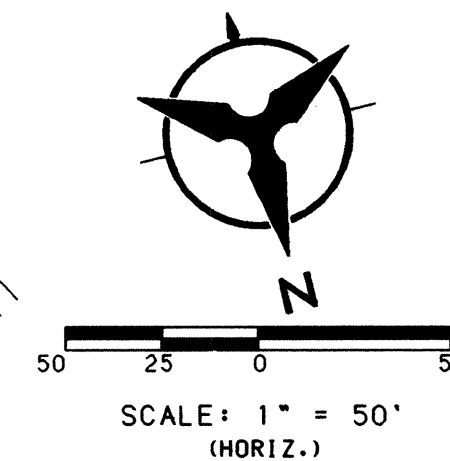
APPROVAL OF REVISIONS

	 BOHANNAN HUSTON INC. ALBUQUERQUE, NEW MEXICO ENGINEERS PLANNERS PHOTOGRAPHERS	APPROVED FOR CONSTRUCTION: 1/3/95 LARRY BLAIR EXECUTIVE ENGINEER AIA/PCA
PROJECT NUMBER 4909.90		SHEET 1 OF 13



CHANNEL CENTERLINE CURVE DATA			
(A)	P.I.	33+42.65	
	Delta	30° 25' 9.1"	
	D	6' 32' 53"	
	T	237.89'	
	L	464.55'	
	R	875.0'	
(B)	P.I.	40+02.84	
	Delta	37° 32' 13.0"	
	D	7' 1' 49"	
	T	276.95'	
	L	533.94'	
	R	815.00'	

- NOTES:
- FOR RUNDOWN DETAILS SEE SHT. 8
 - CURB CUT SHALL BE CONSTRUCTED PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. MAX. SLOPE= 12:1
 - SEE SHEET 4 FOR STRUCTURE AT GOLF COURSE ROAD.
 - CONSTRUCT EARTHEN SWALE NEXT TO RIGHT SIDE OF CHANNEL. SEE SHEETS 7 AND 10-12.
 - CONSTRUCT CONCRETE TRAPEZOIDAL CHANNEL FROM STA. 29+38.72 TO 43+97.21. CONSTRUCT SOIL CEMENT INLET STRUCTURE FROM STA. 43+97.21 TO 44+52.21.
 - ALL HORIZONTAL & VERTICAL TRANSITION POINTS TO BE SMOOTHED OUT IN THE FIELD BY DIRECTION OF PROJECT MANAGER (TYP.).

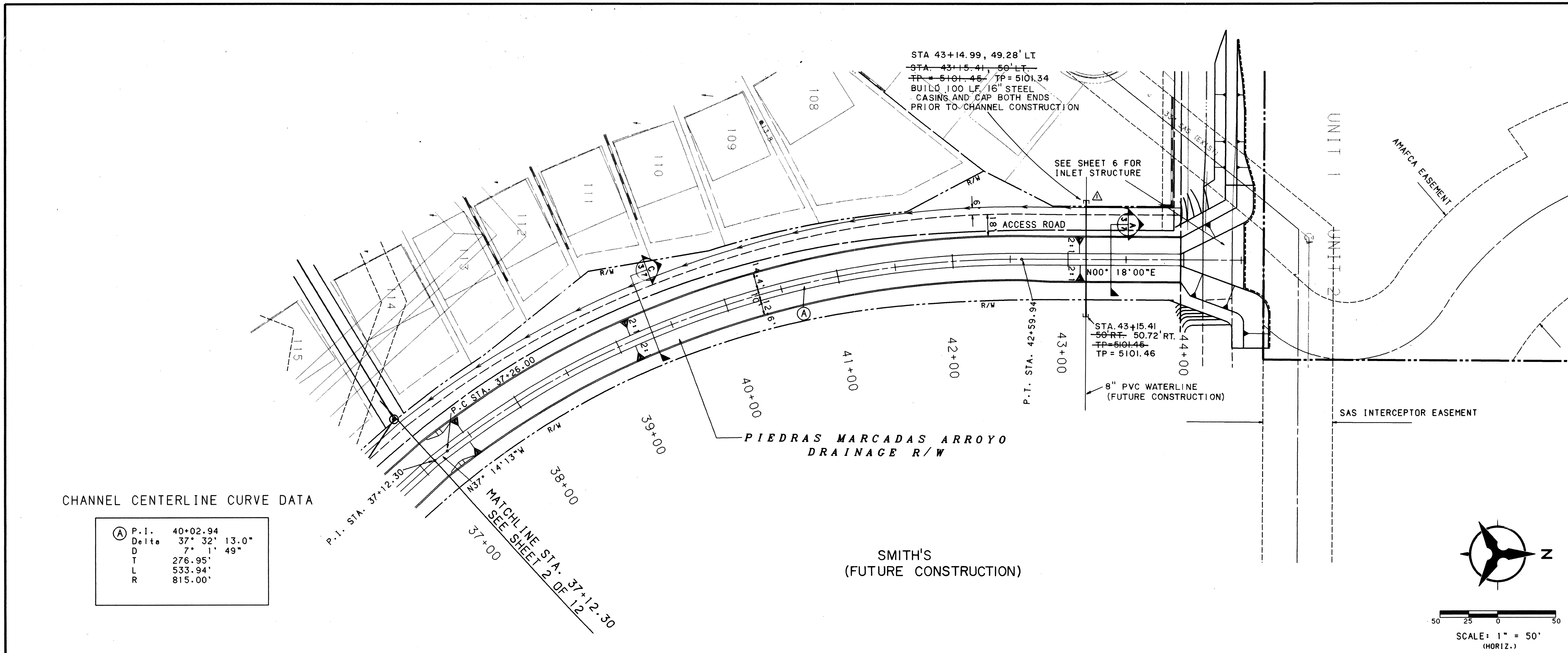


26-4909.90 0296

DETAIL OR SECTION IDENTIFICATION
SHEET NUMBER ON WHICH DETAIL IS DRAWN
SHEET NUMBER ON WHICH SECTION IS CUT

TITLE: PIEDRAS MARCADAS ARROYO STA. 29+41.61 to STA. 37+12.30					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	8-2-94	8-2-94	WATER	8-2-94	8-2-94
TRANSPORTATION	8-2-94	8-2-94	WASTE WATER	8-2-94	8-2-94
HYDROLOGY	8-2-94	8-2-94	A.M.A.F.C.A.	8-2-94	8-2-94
DRAWING NO. 4909.90			MAP NO. C-12		
SHEET 2 OF 13			SHEET 2 OF 13		

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		DESIGNED BY		DRAWN BY		CHECKED BY	
CONTRACTOR	PREPARED BY	THE BENCH MARK IS A 3/4" ALUMINUM CAP	SET FLUSH IN THE LAVA OUTCROP AND IS	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR'S	ACCEPTANCE BY	STAMPED "ACS 1-C11 1986". THE BENCH	MARK IS LOCATED APPROX. 210' EAST AND										
DATE	DATE	260' NORTH OF THE INTERSECTION OF	RIDGEWAY DR. AND CALLE NORTEA. N.W.										
DATE	DATE	ELEVATION = 5272.34'											

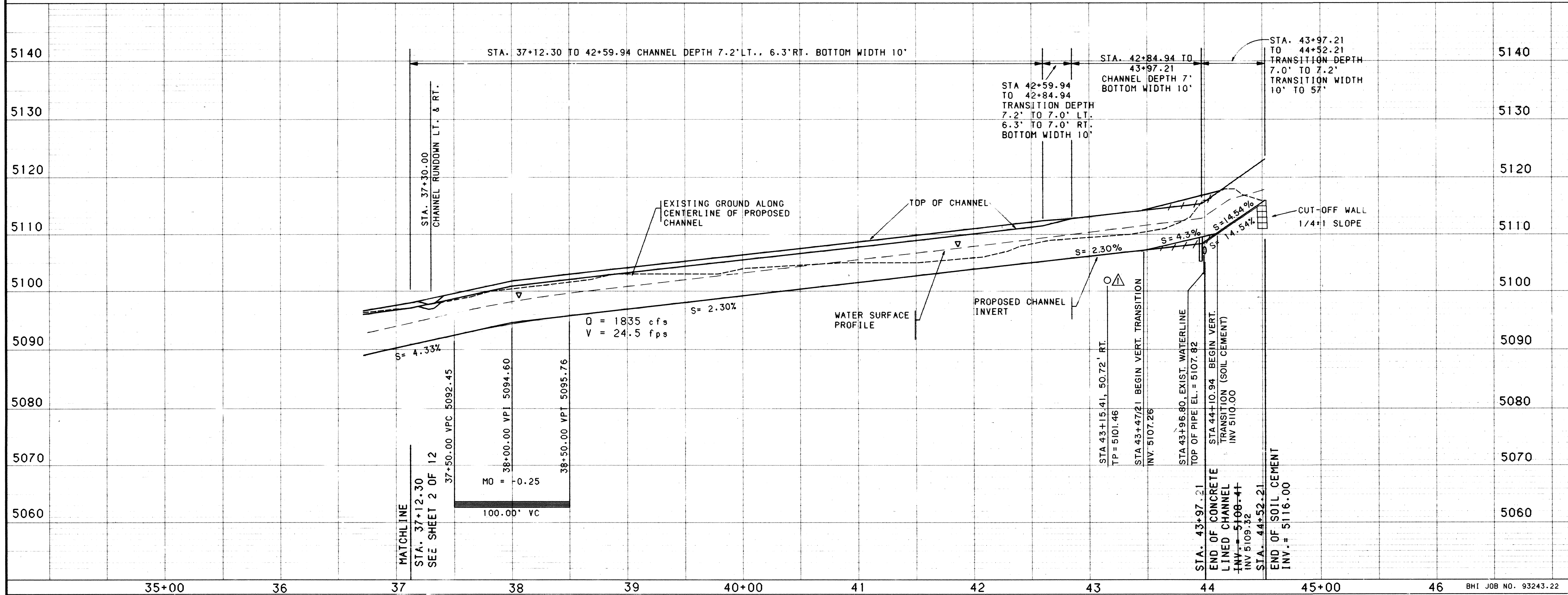


NOTES:

1. CONSTRUCT EARTHEN SWALE NEXT TO RIGHT SIDE OF CHANNEL. SEE SHEET 7 AND 10-12.
2. FOR SOIL CEMENT INLET STRUCTURE SEE SHEET 7.
3. CONSTRUCT CONCRETE TRAPEZOIDAL CHANNEL FROM STA. 29+38.72 TO 43+97.21. CONSTRUCT SOIL CEMENT INLET STRUCTURE FROM STA. 43+97.21 TO 44+52.21.

CHANNEL CENTERLINE CURVE DATA

P.I.	40+02.94
Delta	37° 32' 13.0"
D	77.1'
L	276.95'
R	533.94'
	815.00'



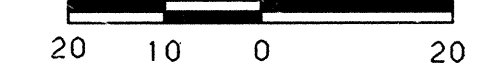
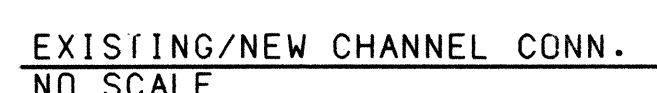
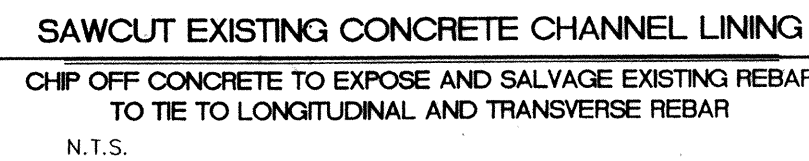
AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	NO.	THE BENCH MARK IS A 3 1/4" ALUMINUM CAP	SET FLUSH IN THE LAVA OUTCROP AND IS	DATE	NO.	BY	DATE	NO.	BY	DATE
INSPECTOR	DATE	NO.	STAMPED "ACS 1-C11 1986"	THE BENCH MARK IS LOCATED APPROX. 210' EAST AND	DATE	NO.	BY	DATE	NO.	BY	DATE
DATE	DATE	DATE	260' NORTH OF THE INTERSECTION OF	RIDGEWAY DR. AND CALLE NORTENA, N.W.	DATE	NO.	BY	DATE	NO.	BY	DATE
DATE	DATE	DATE	ELEVATION = 5272.34'		DATE	NO.	BY	DATE	NO.	BY	DATE

DESIGNED BY	HCS	DATE	3/94
DRAWN BY	RAM	DATE	3/94
CHECKED BY	HCS	DATE	3/94

NO.	DATE	REVISIONS
1	12/94	ADDED WATERLINE STEEL CASING
2		REMARKS
3		DESIGN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. G. S.	8-26-94	WATER		
TRANSPORTATION	N/A	8-26-94	WASTE WATER		
HYDROLOGY	N/A	8-26-94	A.M.A.F.C.A.		

TITLE: PIEDRAS MARCADAS ARROYO STA. 37+12.30 to STA. 44+52.21		
DRAWING NO.	MAP NO.	SHEET OF
4909.90	C-12	3 OF 13



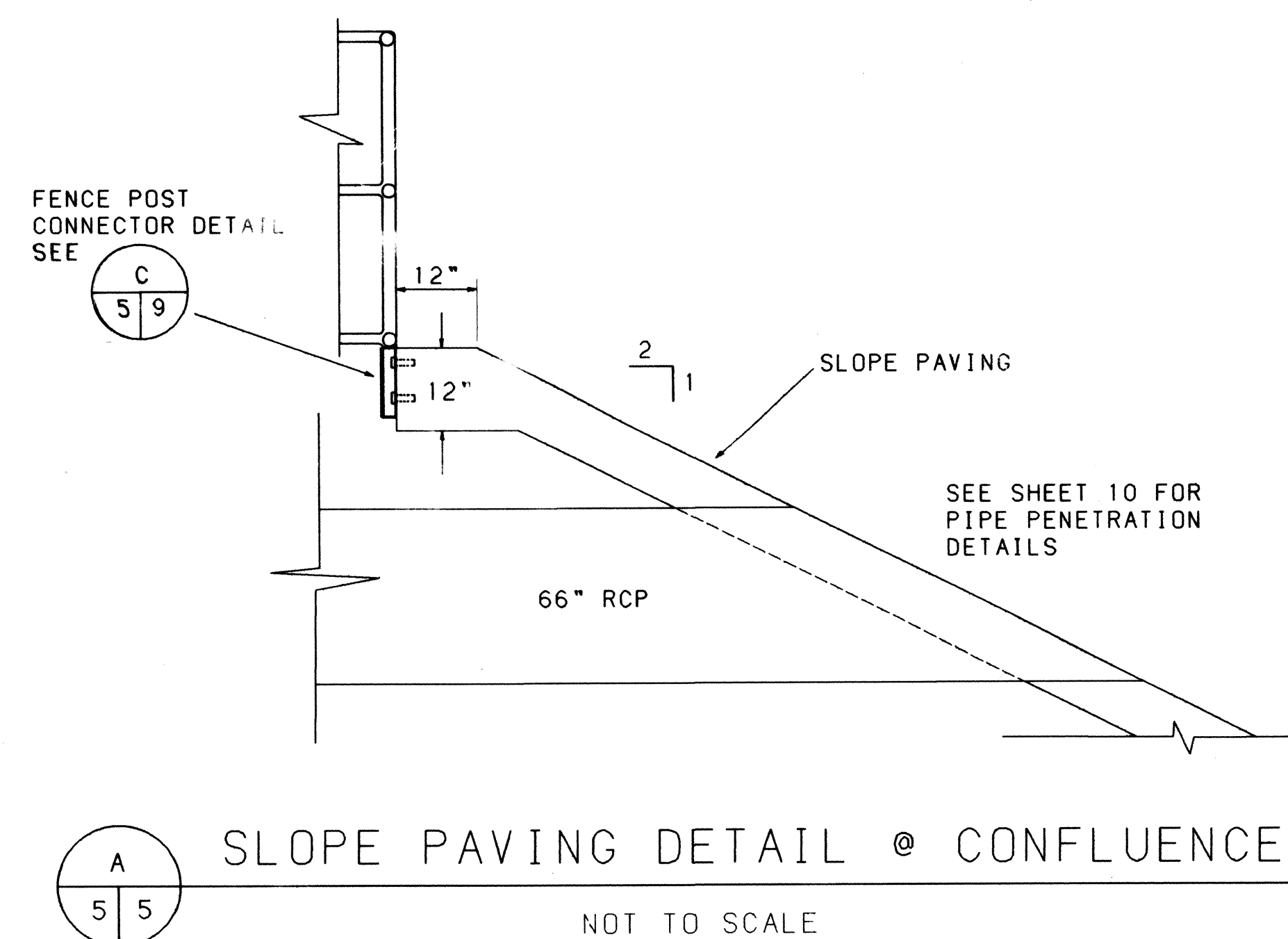
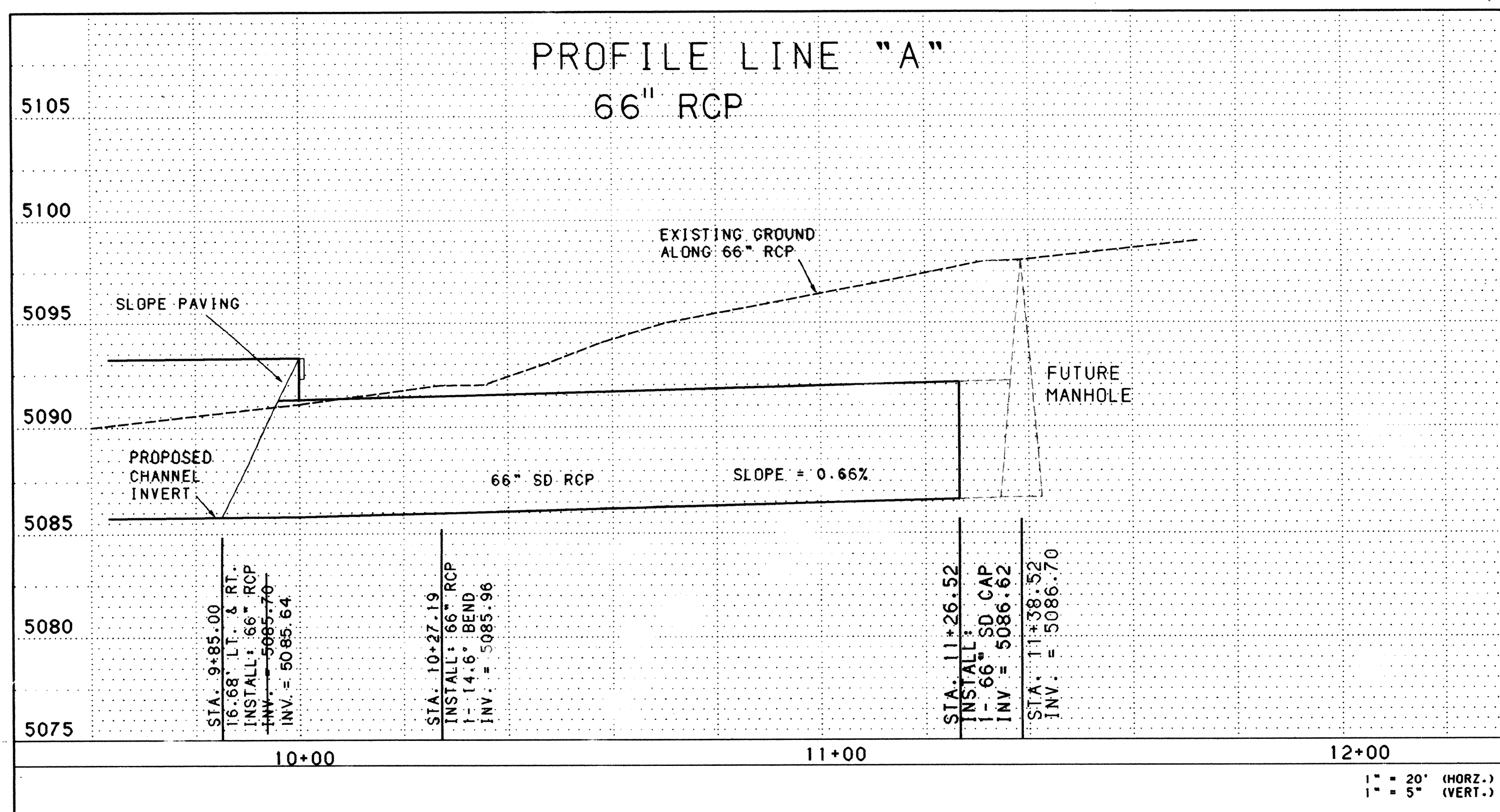
BHI JOB NO. H93243.22

- [illegible]

TITLE:	PIEDRAS MARCADAS ARROYO STRUCTURE AT GOLF COURSE ROAD
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	8-26-94	WATER	<i>[Signature]</i>	<i>[Signature]</i>
TRANSPORTATION	N/A RHD	8-05-99	WASTE WATER		
HYDROLOGY	N/A SMC	8-8-94	AMAFCA		

DRAWING NO.	4909.90	MAP NO. C-12	SHEET 4 OF 13
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1. SEE SHEET 9 AND DETAIL THIS SHEET FOR HEADWALL DETAIL.
2. SEE SHEET 9 FOR RAIL AND FENCE DETAILS.

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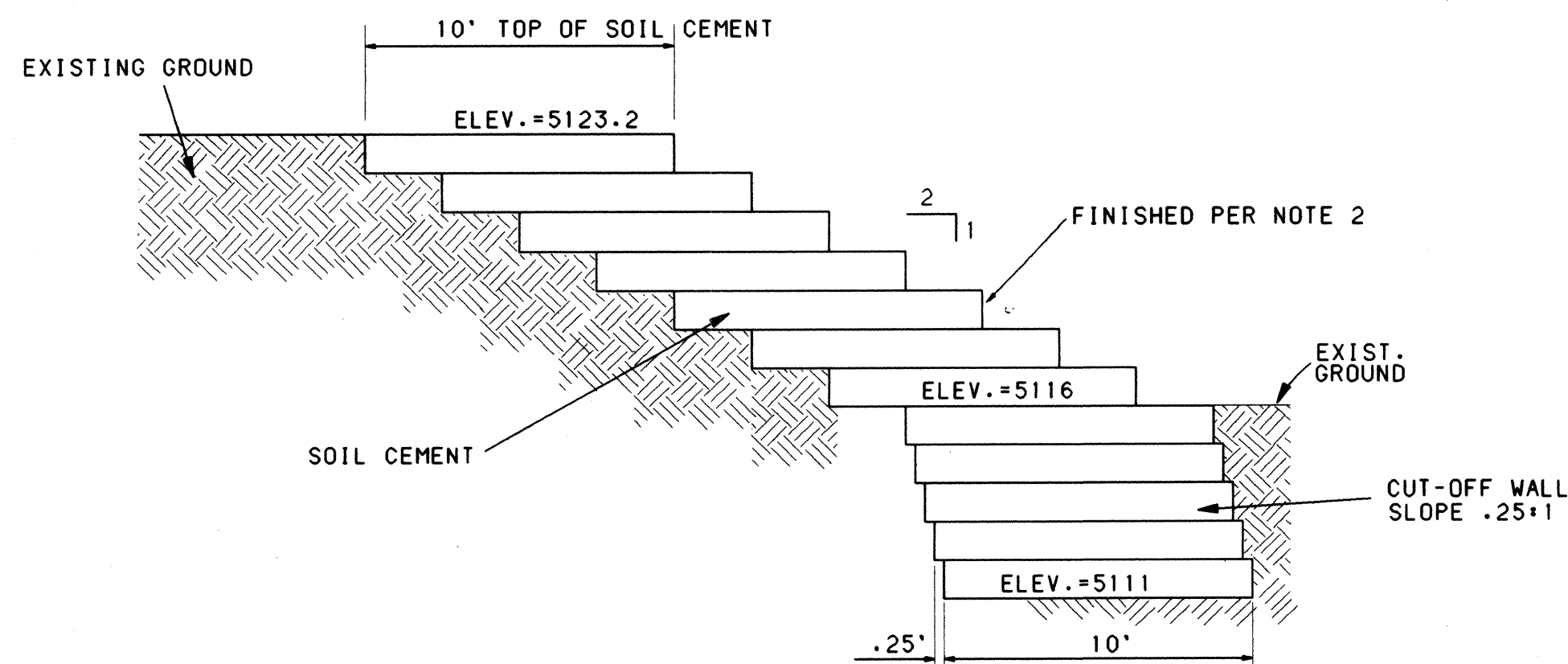
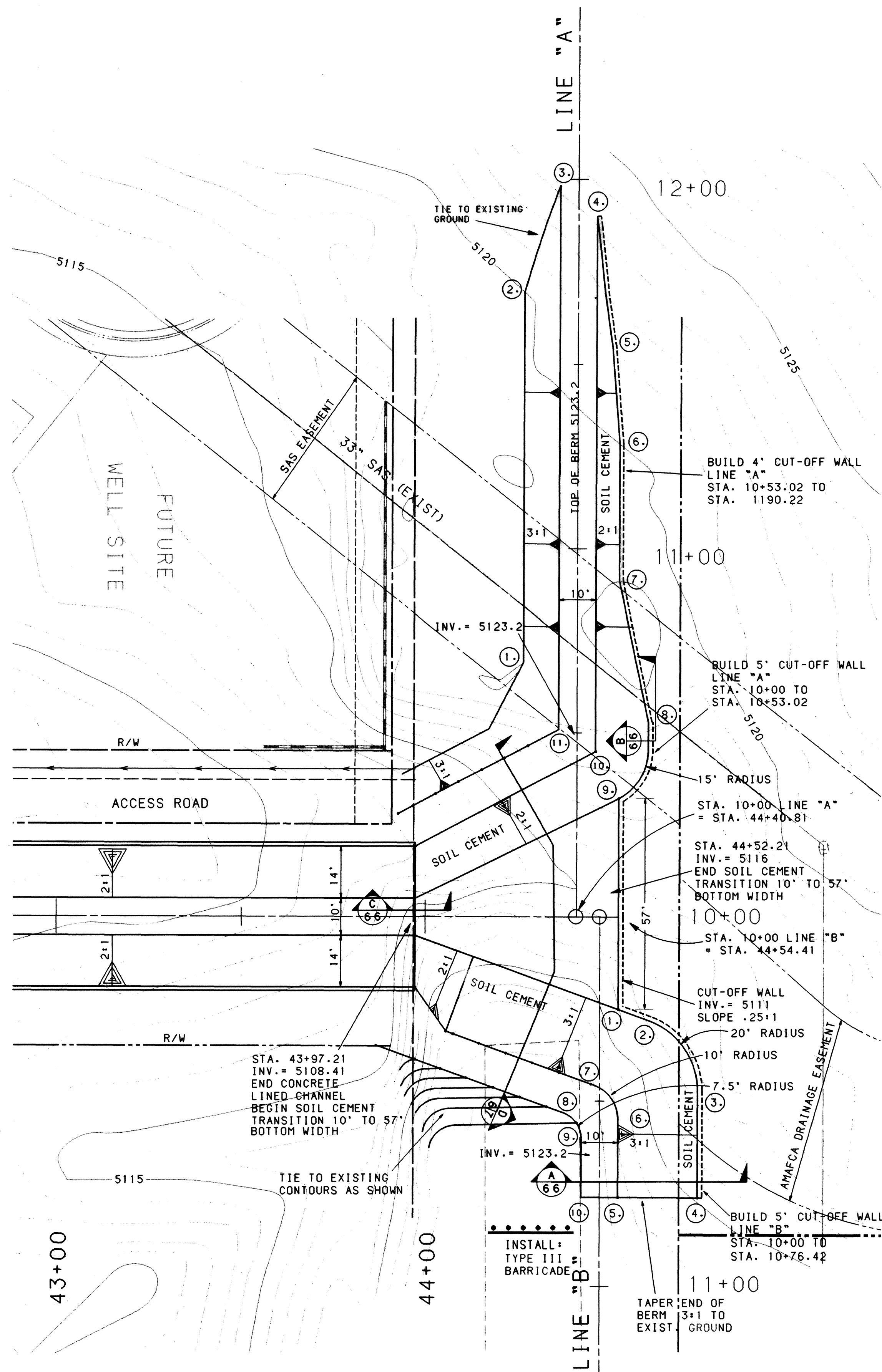


TITLE:	PIEDRAS MARCADAS ARROYO CONFLUENCE PLAN
--------	--

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. J. Goralak	8-26-94	WATER	681	8-26-94
TRANSPORTATION	N/A RHD	8-05-99	WASTE WATER	681	8-05-99
HYDROLOGY	N/A SMC	8-8-94	AMA/CA		

DRAWING NO.	4909.90	MAP NO. C-12	SHEET 5 OF 13
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BHI JOB NO. H93243.22

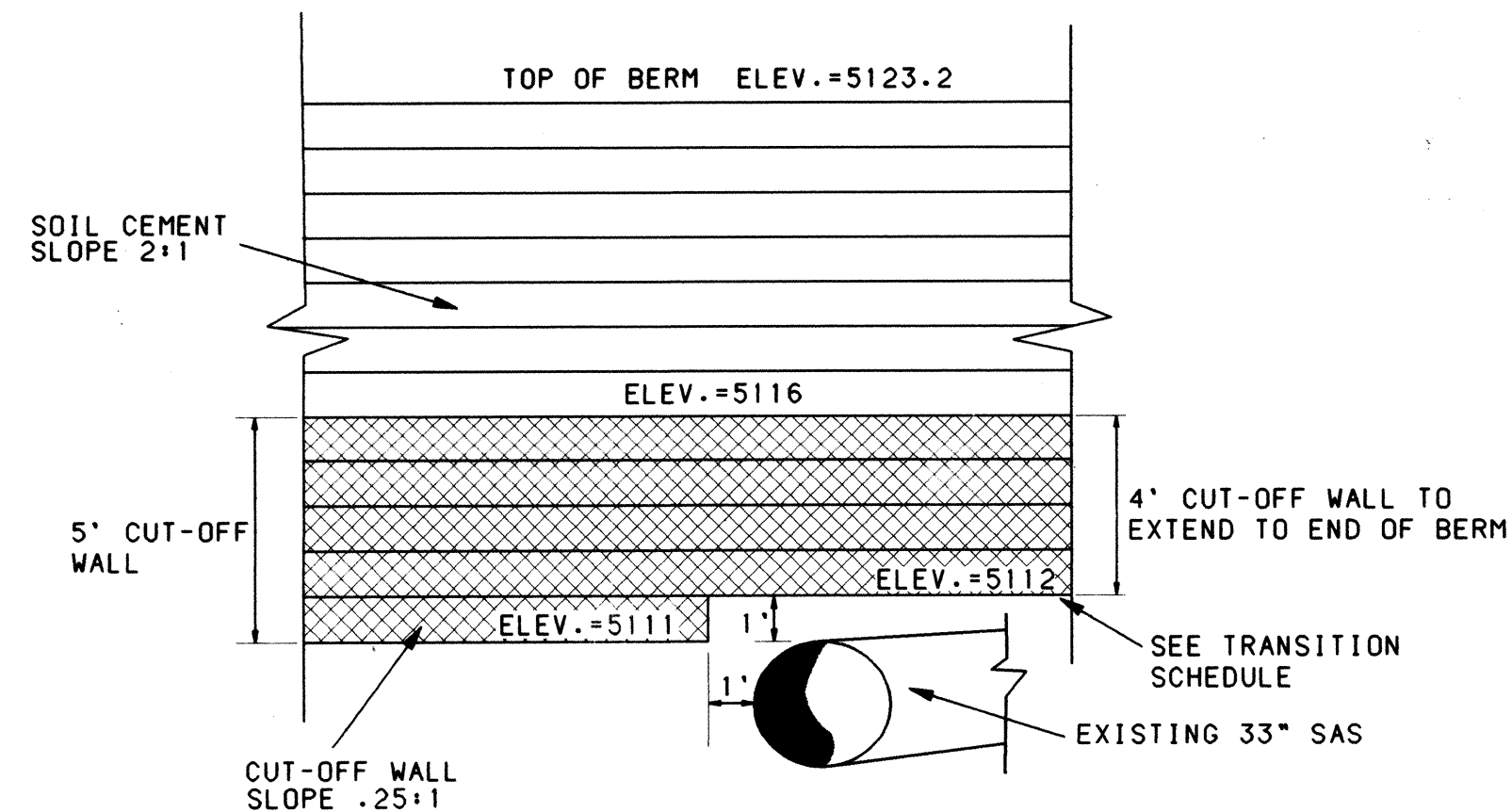


A INLET CROSS-SECTION
NOT TO SCALE

TRANSITION SCHEDULE LINE "A"

STATION & OFFSET	BOTTOM OF SOIL CEMENT OR TIE SLOPE ELEV.	BOTTOM OF CUT-OFF ELEVATION
① STA. 10+69.32 14.6' LT.	5120.0	N/A
② STA. 11+69.58 14.6' LT.	5120.0	N/A
③ STA. 11+98.52 5.0' LT.	5123.2	N/A
④ STA. 11+90.22 5.0' RT.	5123.2	5119.2
⑤ STA. 11+54.58 9.4' RT.	5121.0	5117.0
⑥ STA. 11+28.34 11.4' RT.	5120.0	5116.0
⑦ STA. 10+91.44 11.4' RT.	5120.0	5116.0
⑧ STA. 10+53.02 19.4' RT.	5116.0	5111 5112
⑨ STA. 10+32.01 11.4' RT.	5116.0	5111
⑩ STA. 10+44.90 5.0' RT.	5123.2 *	N/A
⑪ STA. 10+50.90 5.0' LT.	5123.2 *	N/A

* TOP OF BERM

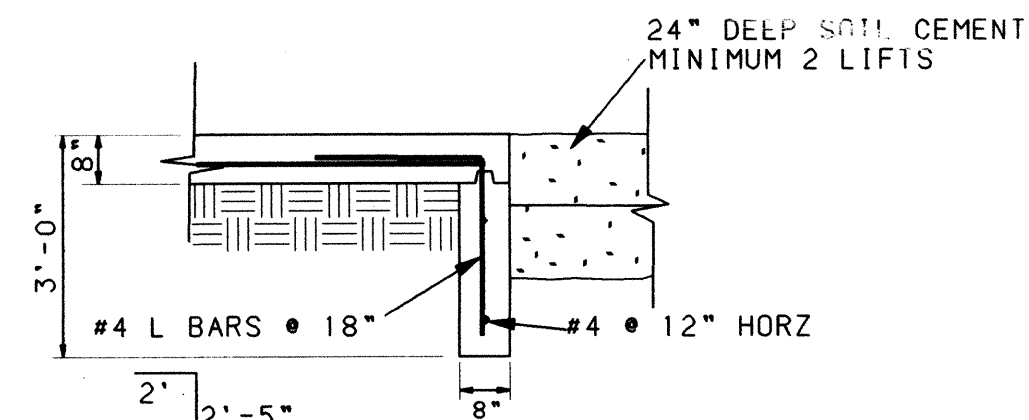


B CUT-OFF WALL TRANSITION
NOT TO SCALE

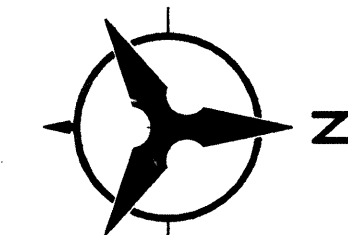
TRANSITION SCHEDULE LINE "B"

STATION & OFFSET	BOTTOM OF SOIL CEMENT OR TIE SLOPE ELEV.	BOTTOM OF CUT-OFF ELEVATION
① STA. 10+25.00 5.0' LT.	5116.0	5111
② STA. 10+28.07 13.4' LT.	5116.0	5111
③ STA. 10.46.86 26.6' LT.	5116.0	5111
④ STA. 10+76.42 26.6' LT.	5116.0	5111
⑤ STA. 10+76.42 5.0' LT.	5123.2 *	N/A
⑥ STA. 10.55.0 5.0' LT.	5123.2 *	N/A
⑦ STA. 10+45.33 2.4' RT.	5123.2 *	N/A
⑧ STA. 10+53.19 9.9' RT.	5122.6	N/A
⑨ STA. 10.60.24 5.0' RT.	5123.2 *	N/A
⑩ STA. 10+76.42 5.0' RT.	5123.2 *	N/A

* TOP OF BERM



C CUT-OFF WALL
NOT TO SCALE



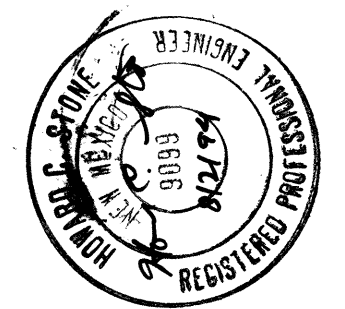
SCALE: 1" = 20'
(HORIZ.)

BHI JOB NO. H93243.22

NOTES

- EXPANSION JOINT SHALL BE CONSTRUCTED PER CITY OF ALBUQUERQUE STANDARDS DWG. NO. 2265 WITH VANDAL PROTECTION PLATE.
- SURFACE FINISH FOR SOIL CEMENT LAYERS SHALL BE AS FOLLOWS:
 - ALL EXPOSED PORTIONS AND WHERE ADDITIONALLY NOTED SHALL HAVE VERTICAL STEPS WHICH ARE SQUARE AND SOUND (NOT SUBJECT TO SPALLING OR UNRAVELING) SOIL CEMENT MATERIAL TO ACHIEVE A SOUND VERTICAL FACE. CONTRACTOR IS ADVISED THAT STEPS MAY HAVE TO BE OVER BUILT AND HAND TRIMMED.
 - ALL COVERED PORTIONS SHOWN AS VERTICAL STEPS IN THE SECTIONS SHALL BE AS CLOSE AS POSSIBLE TO VERTICAL WITHOUT HAND-TRIMMING.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	THE BENCH MARK IS A 3 1/4" ALUMINUM CAP SET FLUSH IN THE LAVA OUTCROP AND IS STAMPED "ACS 1-C11 1986". THE BENCH MARK IS LOCATED APPROX. 210' EAST AND 260' NORTH OF THE INTERSECTION OF RIDGEWAY DR. AND CALLE NORTENA, N.W.	NO.	BY	DATE	NO.	BY
INSPECTOR	DATE						
FIELD ENGINEER	DATE						
CHECKED BY	DATE						
RECORDED BY	DATE						
NO.							



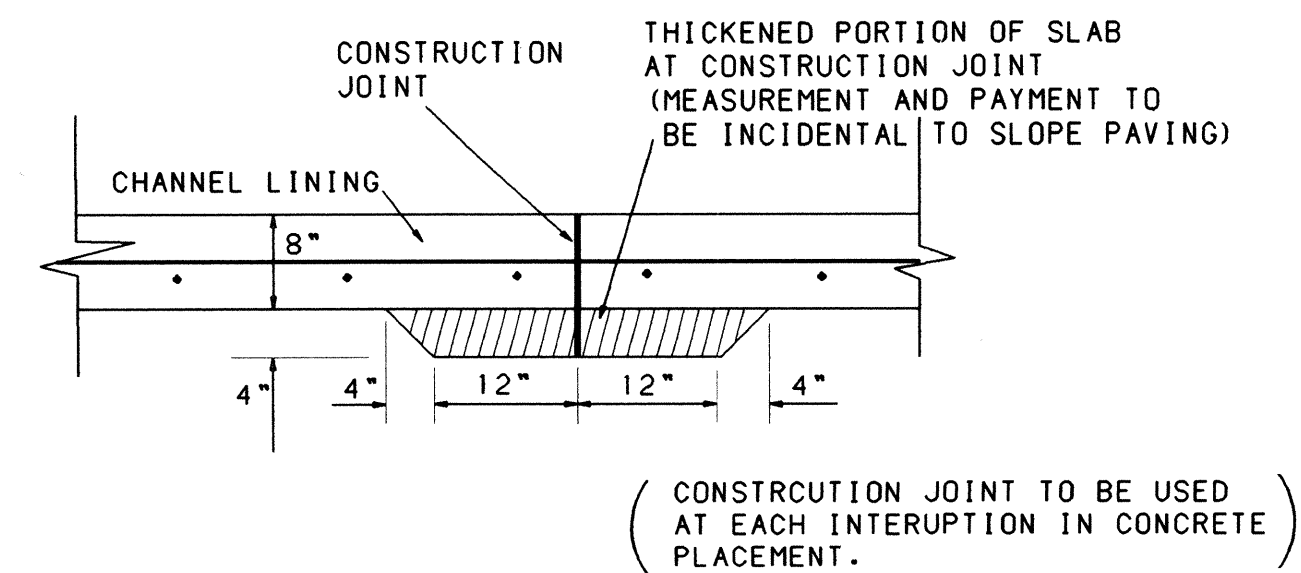
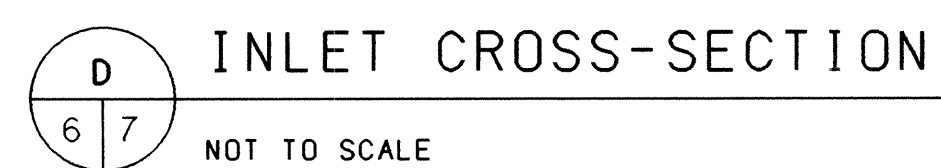
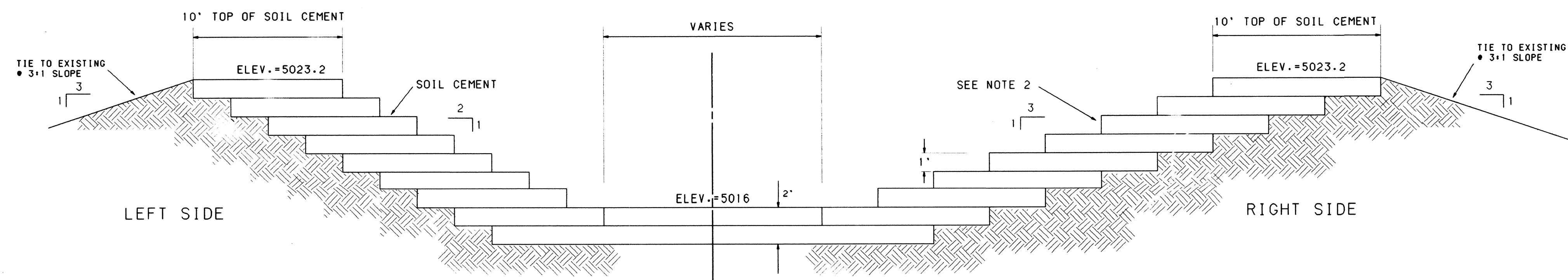
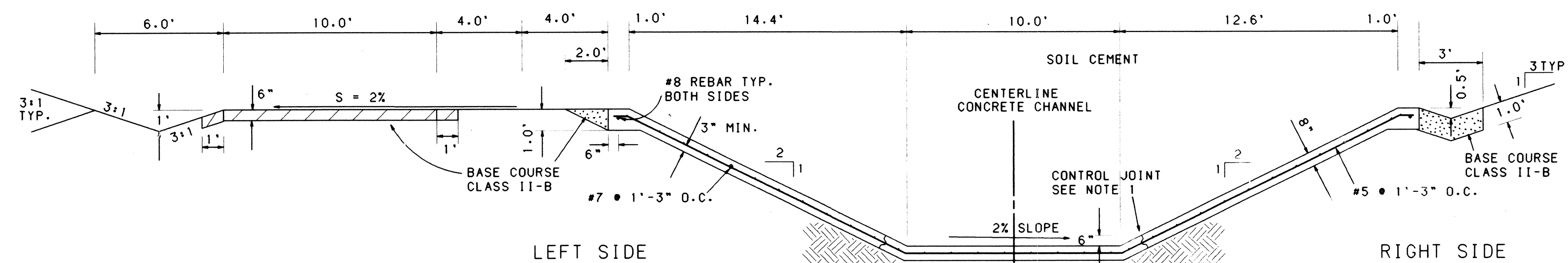
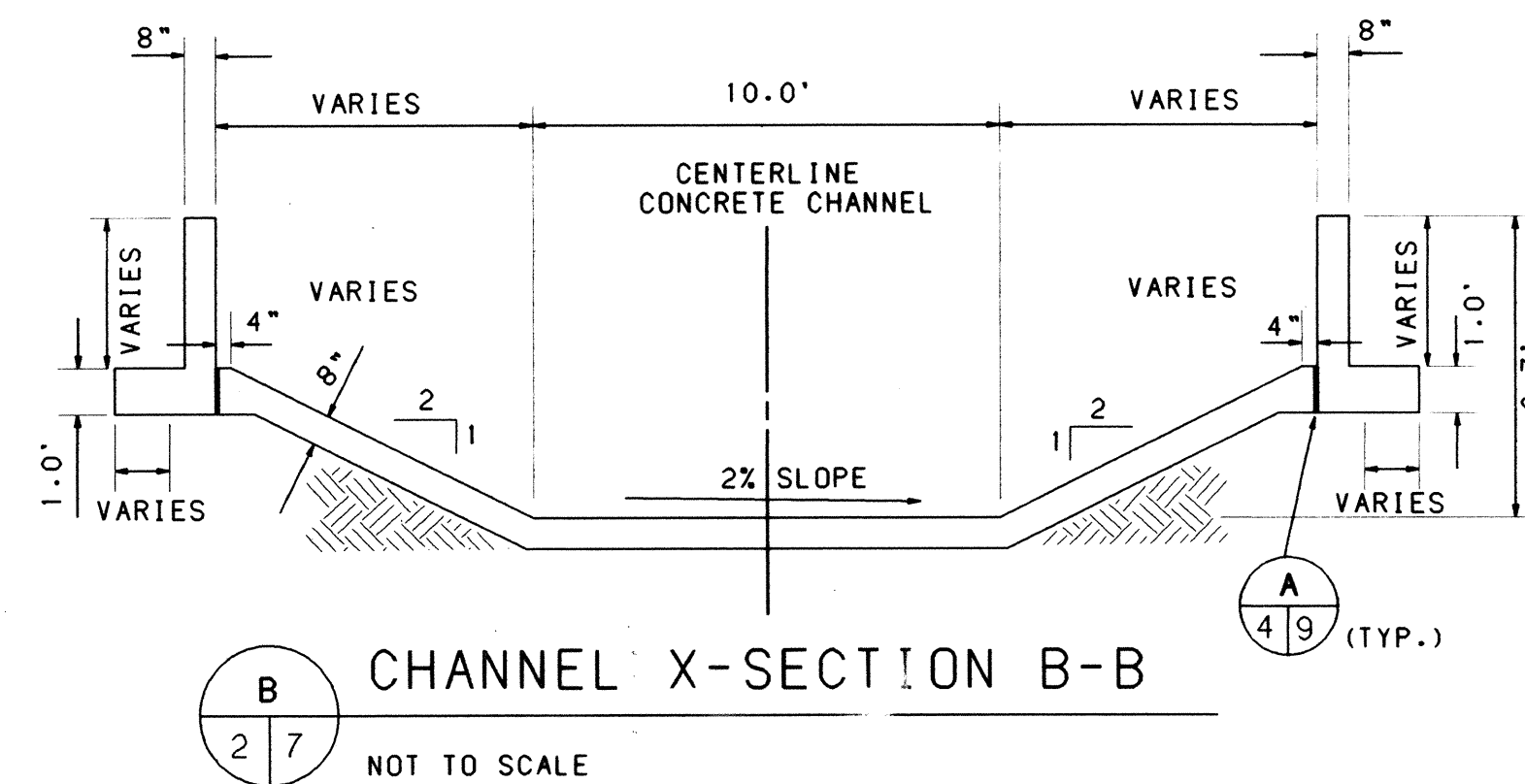
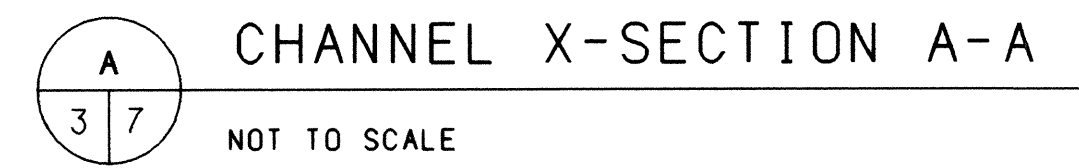
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
20-4909.90 0696



TITLE: PIEDRAS MARCADAS ARROYO
INLET AT PASEO DEL NORTE

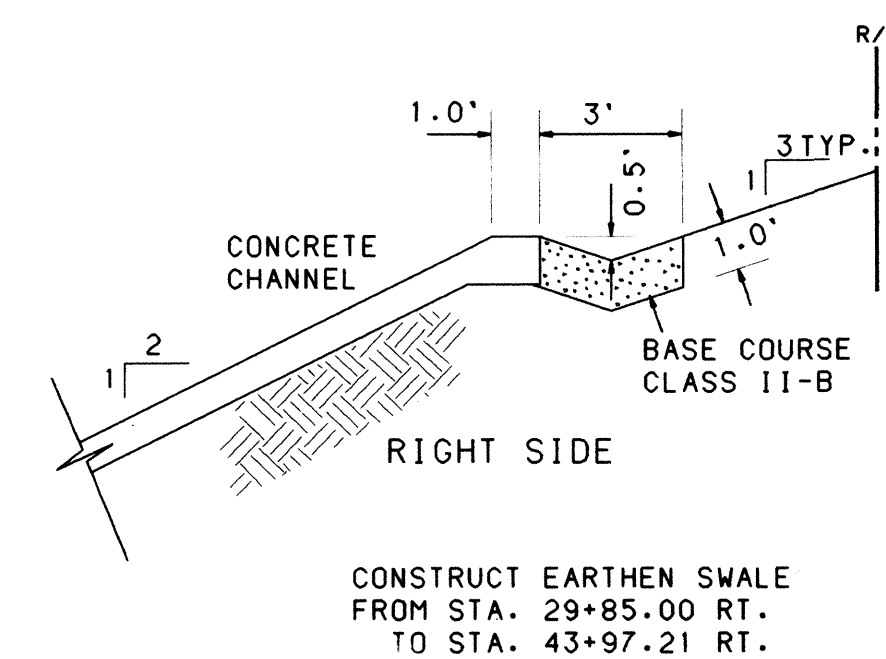
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. J. A.	8-26-94	WATER		
TRANSPORTATION	N/A RHP	8-26-94	WASTE WATER		
HYDROLOGY	N/A SMC	8-26-94	AMAFCA		

DRAWING NO. 4909.90 MAP NO. C-12 SHEET 6 OF 13



TYPICAL CONSTRUCTION JOINT DETAIL

NOT TO SCALE



TYPICAL EARTHEN SWALE (RIGHT SIDE)

NOT TO SCALE

1. SAW CUT CONTROL JOINT 1/4" WIDE, 2" DEEP AND APPLY POLYURETHANE SEALANT OR USE COLD KEY JOINT OR ENGINEER APPROVED EQUAL. (CONTRACTORS OPTION) TYPICAL BOTH SIDES.
2. SURFACE FINISH FOR SOIL CEMENT LAYERS SHALL BE AS FOLLOWS:
 - a. ALL EXPOSED PORTIONS AND WHERE ADDITIONALLY NOTED SHALL HAVE VERTICAL STEPS WHICH ARE SQUARE AND SOUND (NOT SUBJECT TO SPALLING OR UNRAVELING) SOIL CEMENT MATERIAL. TO ACHIEVE A SOUND VERTICAL FACE CONTRACTOR IS ADVISED THAT STEPS MAY HAVE TO BE OVER BUILT AND HAND TRIMMED.
 - b. ALL COVERED PORTIONS SHOWN AS VERTICAL STEPS IN THE SECTIONS SHALL BE AS CLOSE AS POSSIBLE TO VERTICAL WITHOUT HAND-TRIMMING.

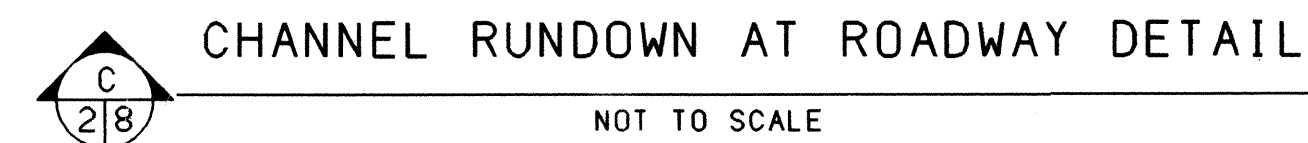
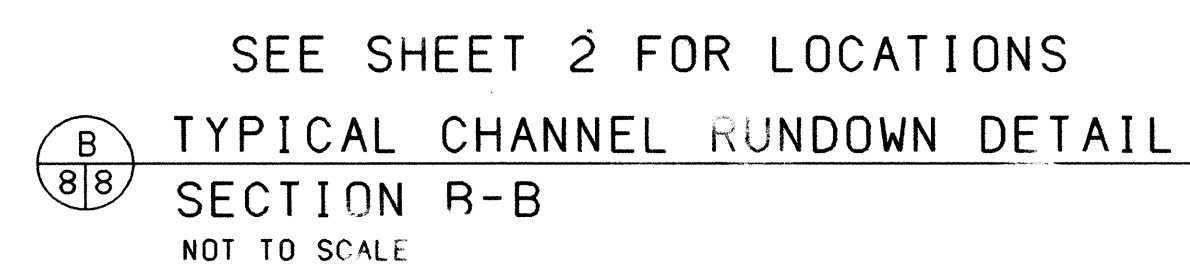
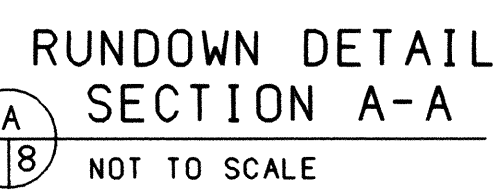
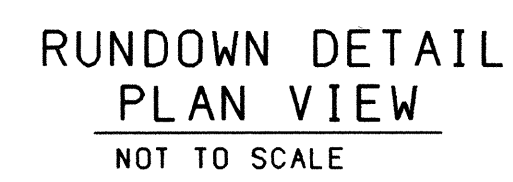
[illegible]

TITLE:	PIEDRAS MARCADAS ARROYO TYPICAL CROSS SECTIONS
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. J. A.	8-26-94	WATER	68K	SHERRILL
TRANSPORTATION	N/A RHD	8-25-94	WASTE WATER		
HYDROLOGY	N/A SMC	8-5-94	AMAFCA		

DRAWING NO.	4909.90	MAP NO. C-12	SHEET 7	OF 13
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BHI JOB NO. 93243.22



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26	49	09	90	08	96									



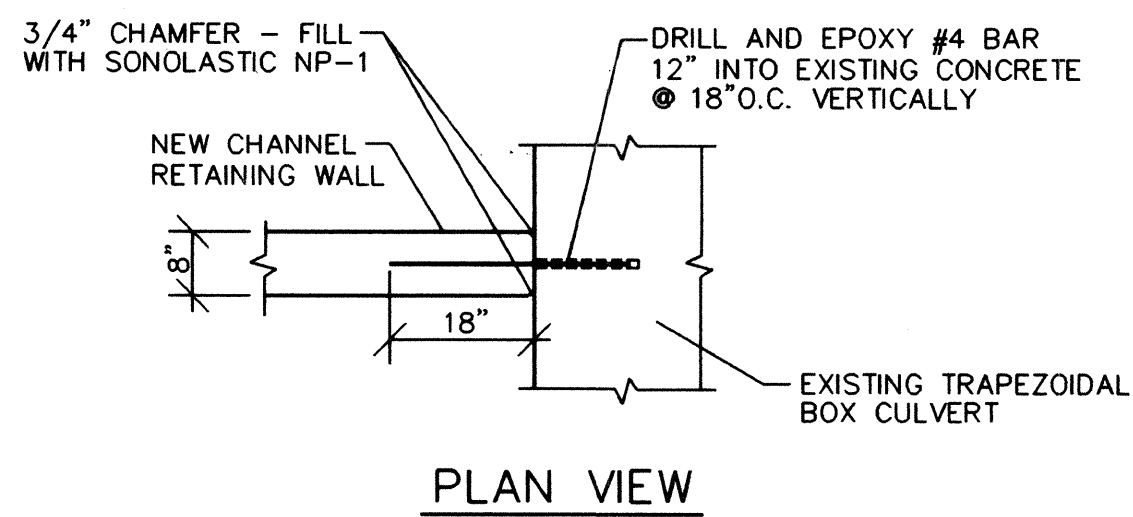
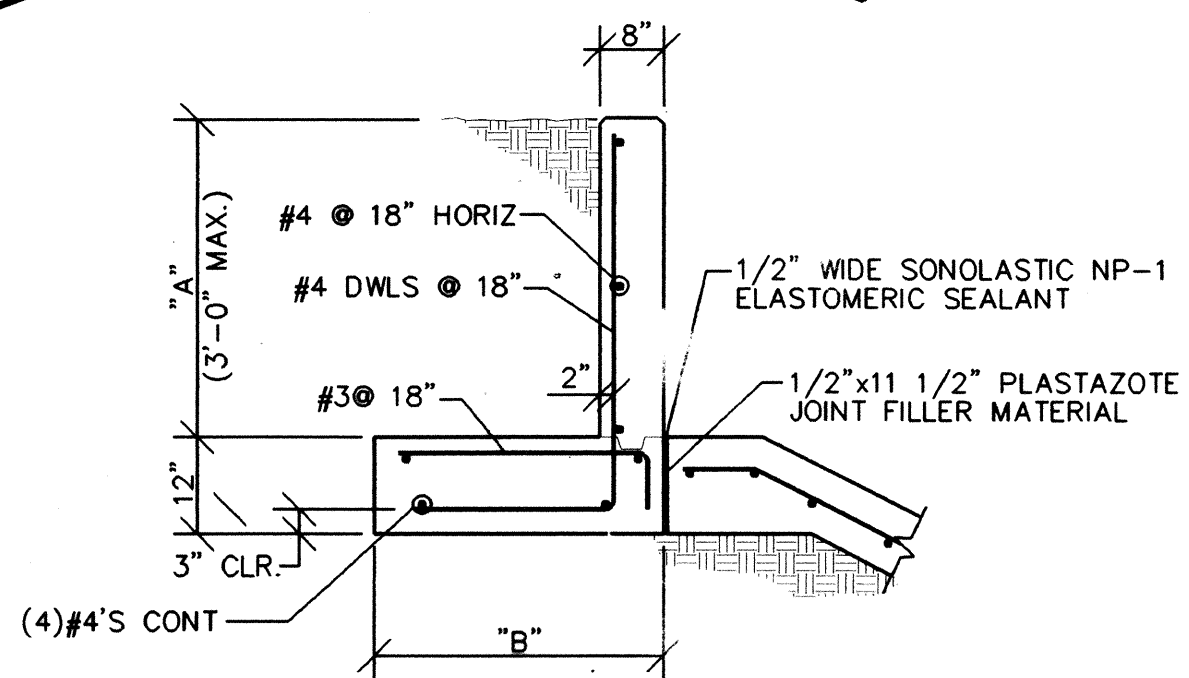
TITLE:	PIEDRAS MARCADAS ARROYO GENERAL DETAILS
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. J. D.	8-26-94	WATER	CSH	5/16/94
TRANSPORTATION	W. R. LHO	8-25-94	WASTE WATER		
HYDROLOGY	N. S. MC	8-8-94	AMAFCA		

DRAWING NO.	4909.90	MAP NO. C-12	SHEET 8 OF 13
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STATION & OFFSET	A	B
29+74.66, 17.5' L.T. & R.T.	6"	11"
29+44.61, 11.5' L.T. & R.T.	3'-0"	1'-10"
29+38.72, 11.5' RT.	3'-0"	1'-10"

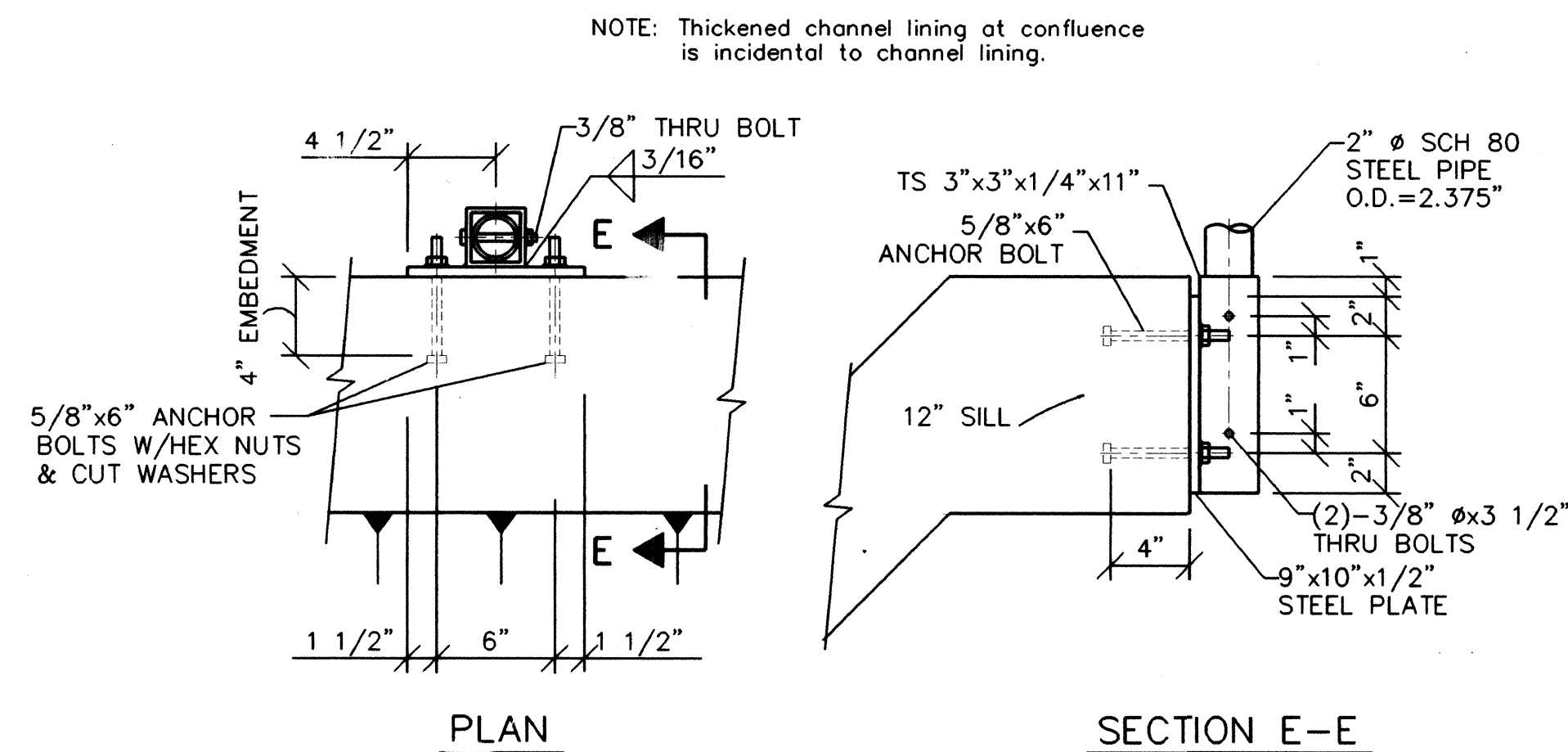
DIMENSION TABLE		
Station & Offset	A	B
29 + 74.66, 17.5' Lt. & Rt.	6"	11"
29 + 57.36, 15' Rt	3'	1' - 10"
29 + 51.47, 14' Lt	3'	1' - 10"
29 + 38.72, 11.5' Lt	6'	3' - 6"
29 + 44.61, 11.5' Rt	6'	3' - 6"



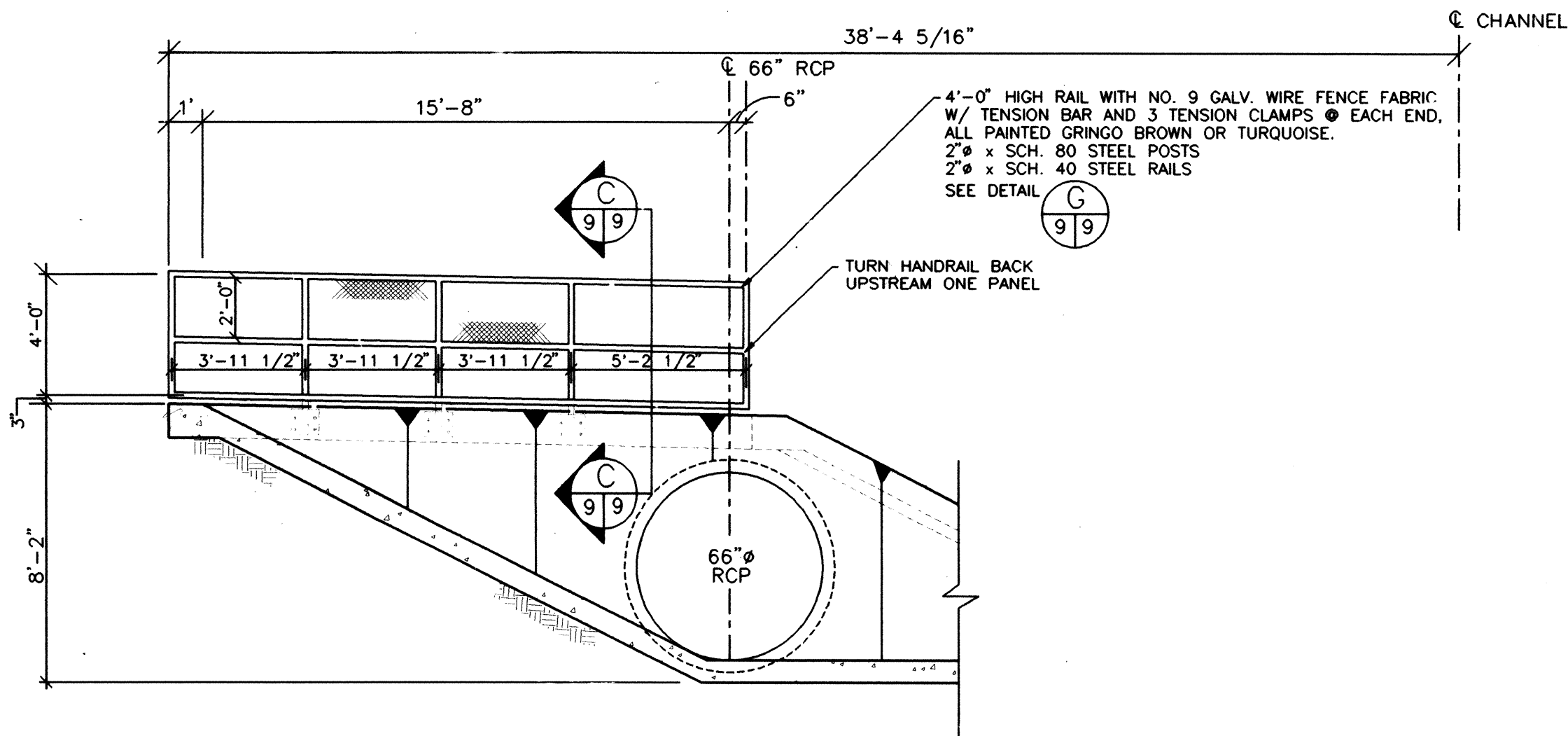
WALL CONNECTION DETAIL
@ EXIST. TRAPEZOIDAL

CHANNEL WALL SECTION
 SCALE: 1/2" = 1'-0"
 STA. 29+38.72 TO STA. 29+74.66

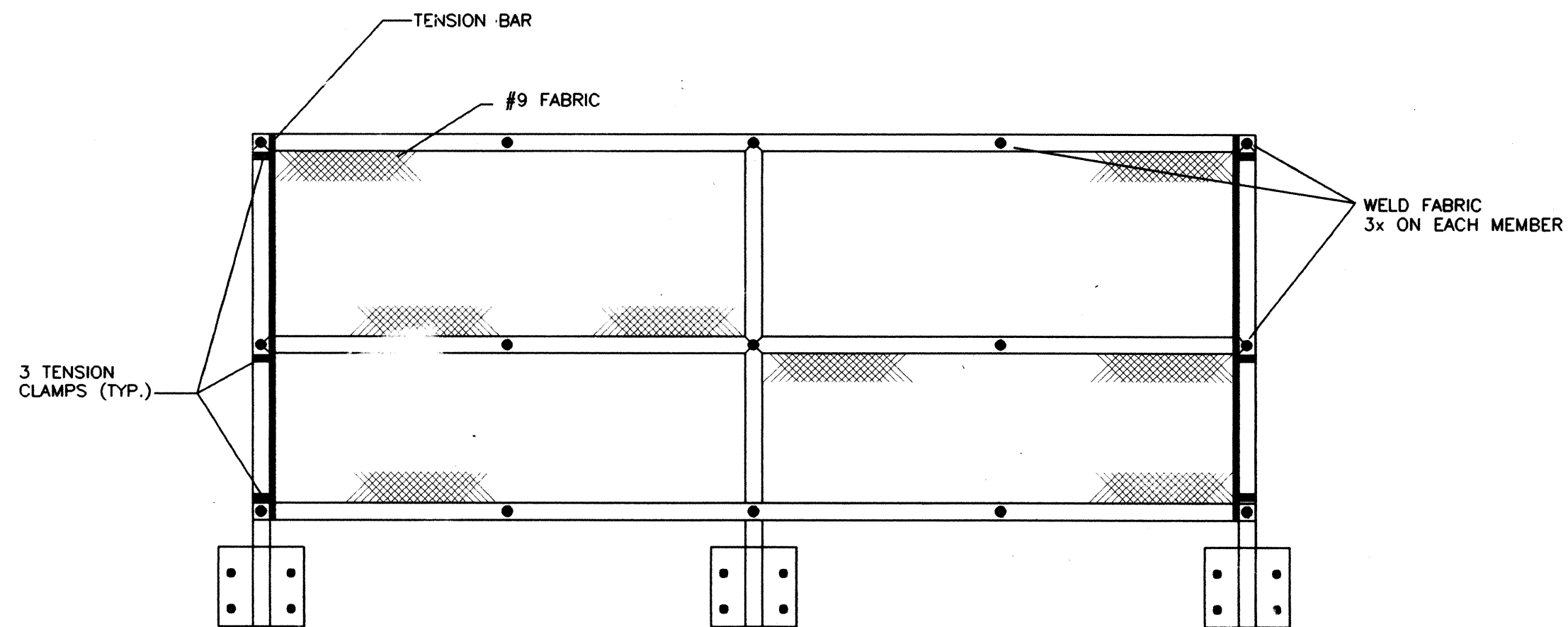
 BOX CULVERT
SCALE: 1/2" = 1'-0"



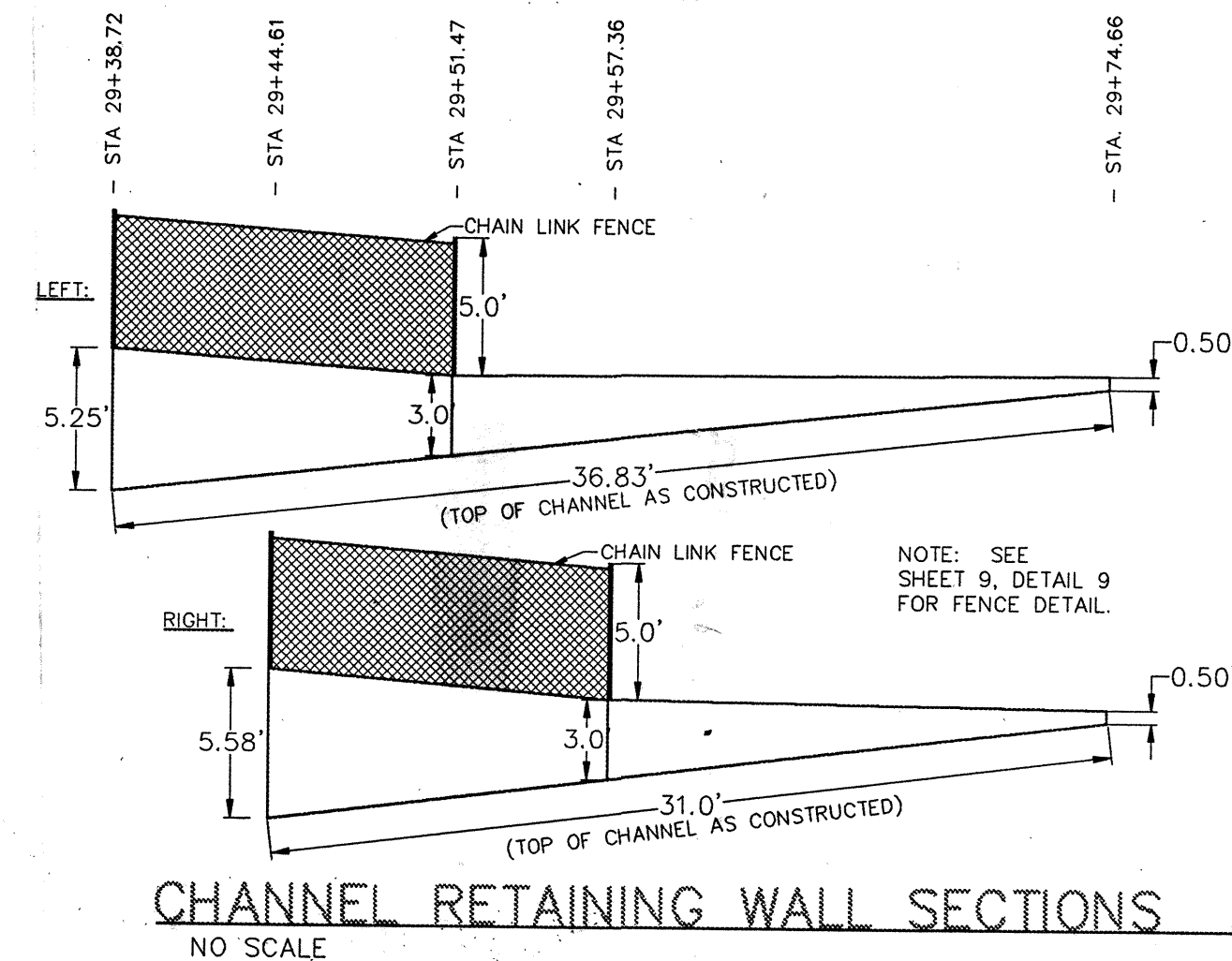
 FENCE POST
CONNECTOR DETAIL
NO SCALE




CONFLUENCE ELEVATION STA. 35+60
 1/4" = 1'-0"



 **FENCE DETAIL**
NO SCALE



CHANNEL RETAINING WALL SECTIONS
NO SCALE

GENERAL STRUCTURAL NOTES FOR CONSTRUCTION OF RETAINING WALLS

1. This work shall be done in accordance with NMSHTD Standard Specifications for Road & Bridge Construction, and as amended.
2. CODES AND MANUALS:
Uniform Building Code, 1991 Edition
ACI 318, Latest Edition, Building Code Requirements for Reinforced Concrete.
3. DESIGN LOADS:
 - A. Live Loads:
Soil Weight = 106 pcf
Equiv lateral = 32 pcf
 - B. Maximum Allowable soil bearing pressure: 1500psf
4. GENERAL:
 - A. The Contractor shall verify all dimensions in the field.
 - B. Shop drawings shall be furnished for review before any fabrication and erection is started. Poorly executed shop drawings shall be rejected and re submitted.
 - C. The Contractor shall be responsible for providing safe and adequate shoring for all parts of the wall and adjacent structures during construction, as well as worker safety and compliance with OSHA or other agency safety guidelines.
 - D. The Contractor shall field verify all existing utility locations and notify the Engineer immediately of any discrepancies.
 - E. The Contractor is responsible for repair and/or replacement of all utility conduits and existing lines.
 - F. The contractor shall park equipment and vehicles as not to interfere with normal activities of residents or other Contractors on site.
 - G. Any damage to existing facilities (curb and gutter, pavement, conduits, landscaping, utilities, ect.) during construction shall be replaced at the Contractors expense. Chamfer all exposed corners 3/4" TYP.
 - H.
5. MATERIALS:
 - A. Cast-in-Place Concrete:
 - (1) All concrete shall conform to the New Mexico State Highway and Transportation Department specifications for Structural Concrete, Section 503 & STS 503 Mod. 4000 psi with class F fly ash.
 - B. Reinforcing Steel:
 - (1) All reinforcing steel shall conform to ASTM A615 Grade 60; except stirrups, ties, may conform to ASTM A615 Grade 40
 - (2) Reinforcing shall be stored in such a manner as to inhibit rusting or the deposit of oils or other bond inhibiting deposits.
 - (3) Reinforcing steel shall be fabricated and placed in accordance with the Building Code Requirements for Reinforced Concrete (ACI 318) and the CRSI Standard Manual.
 - (4) Bar supports and spacers for rebar shall be provided in accordance with ACI and CRSI.
 - (5) All lap splices shall be class B.
 - (6) Concrete cover for reinforcing shall be as follows:
 - a. Concrete poured against earth 3 inches
 - b. Concrete poured in forms but exposed to weather or earth:
 1. If bars are larger than No. 5 2 inches
 2. If bars are No. 5 or smaller 1-1/2 inches
 - (7) The BHI Inspector shall be responsible to see that all rebar is properly aligned and tied in place before placing concrete. All column, wall dowels and vertical steel shall be accurately located and secured in place so that it remains in the position shown during the concrete placing operation. Any rebar found to be improperly installed shall be removed at no additional cost to the Owner.
 - (8) Form ties shall be either of the threaded or snap-off type or other approved equal so that no metal will be left within 1 inch of the surface of the wall. Following removal of form ties, recesses are to be carefully filled and pointed with mortar.
 - (9) Exposed wall surfaces shall be finished with a Class I Ordinary Surface Finish.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY	DATE		CONTRACTOR BENDER CONT. DATE	
						WORK STANDARD BY AL-BUR SURVEY DATE 7/10/99	
			WTI			ACCEPTED BY WTI DATE 7/19/99	
			BY			FIELD DRAWN BY WTI DATE 7/19/99	
			REMARKS			DRAWN BY WTI DATE 7/18/99	
			REVISIONS			CORRECTED BY WTI	
			DESIGN			MICRO-FILM INFORMATION	
			DESIGNED BY DMB			RECORDED BY	
			DRAWN BY AAG			DATE	
			CHECKED BY DMB			NO.	
			DATE 3/94				
			DATE 3/94				
			DATE 3/94				

					
TITLE:					
PIEDRAS MARCADAS ARROYO STRUCTURAL WALL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIR	B.G.S.	8-26-94	WATER		8-26-94
TRANS. DEV.	N/A RHP	8-05-94	WASTE WATER		8-26-94
HYDROLOGY	N/A SMC	8-8-94	AMAFCA		
PROJECT NO.		MAP NO.	SHEET		OF
4909.90		C-12	9		13

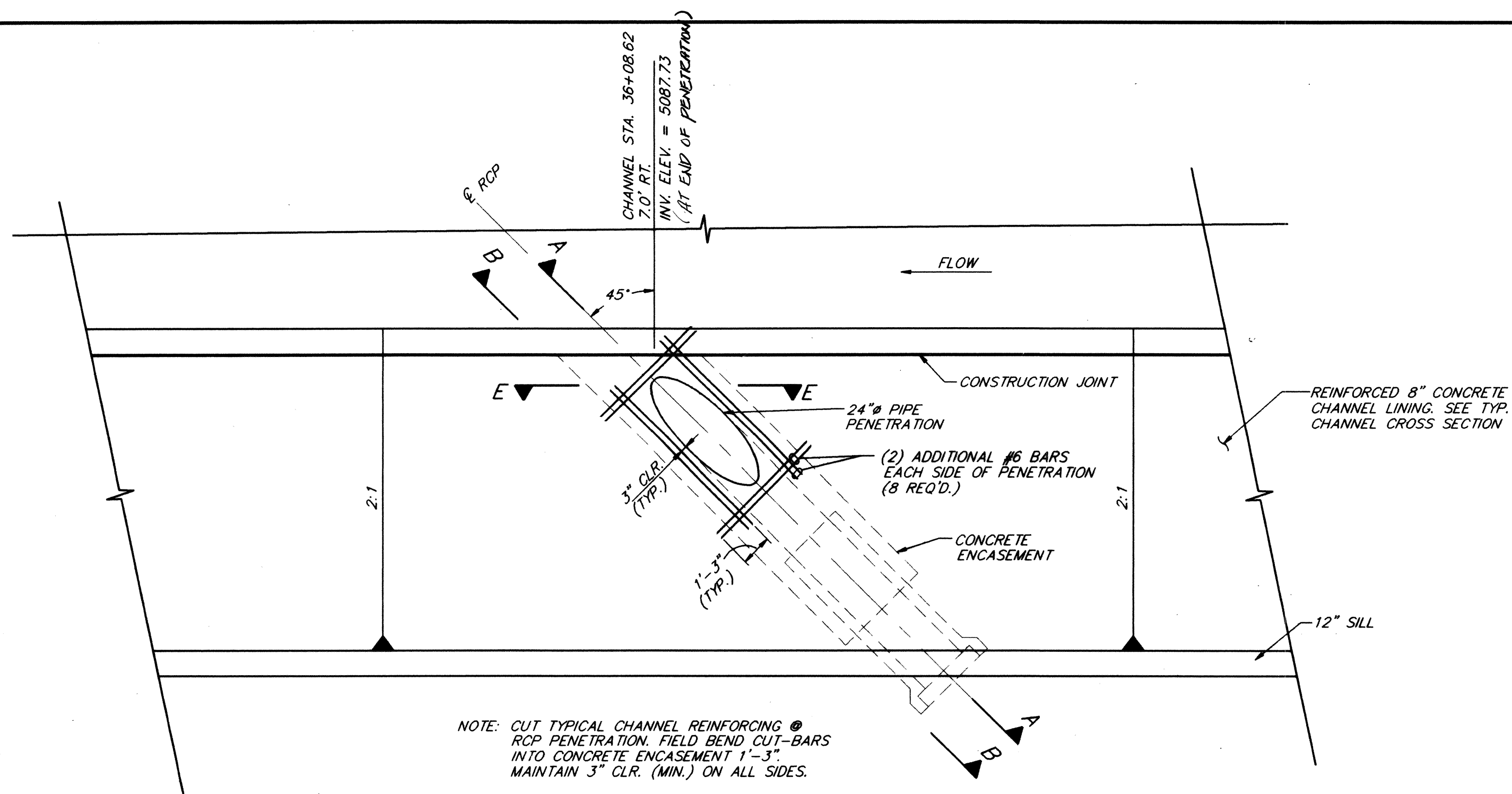


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2	6	-	4	9	0	9	.	9	0	.	7	0	9	0



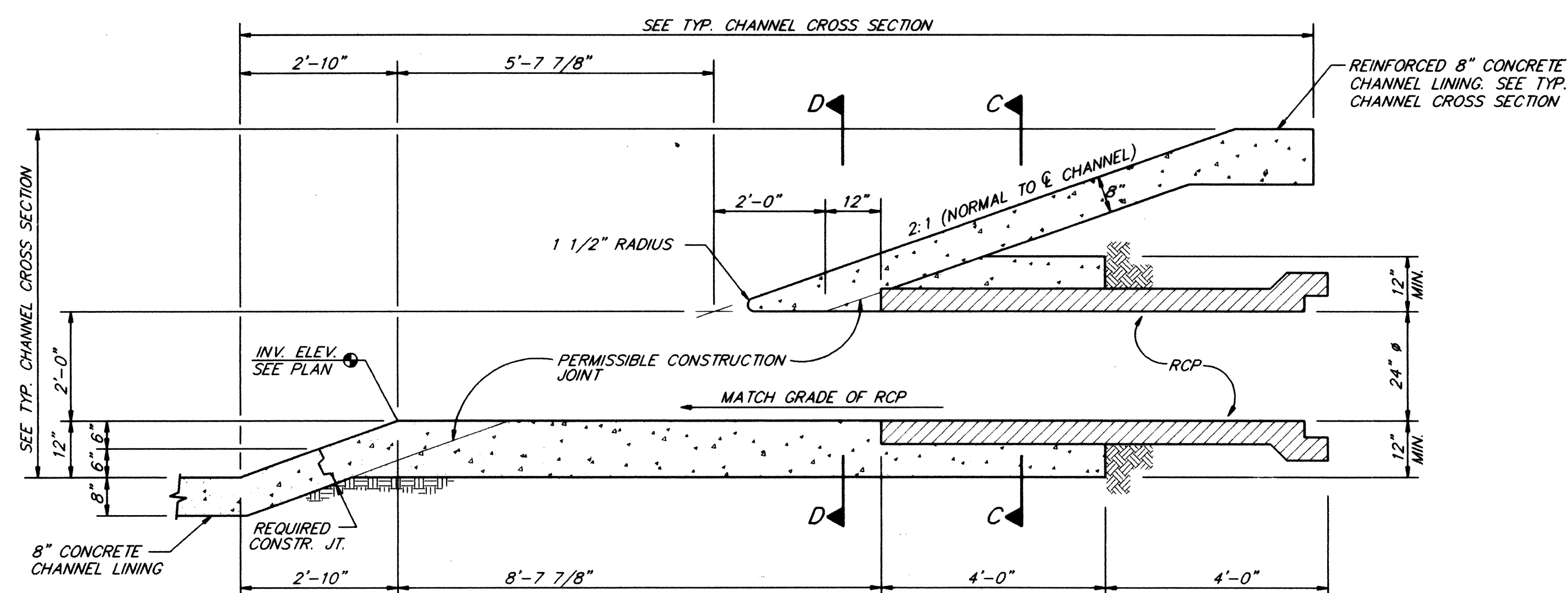
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. J. A.	8-26-94	WATER	[Signature]	
TRANSPORATION	N. B. RHO	8-25-94	WASTE WATER	[Signature]	SA [Signature]
HYDROLOGY	N/A SMC	8-8-94	AMAFCA		

PROJECT NO.	4909.90	MAP NO.	C-12	SHEET	10	OF	13
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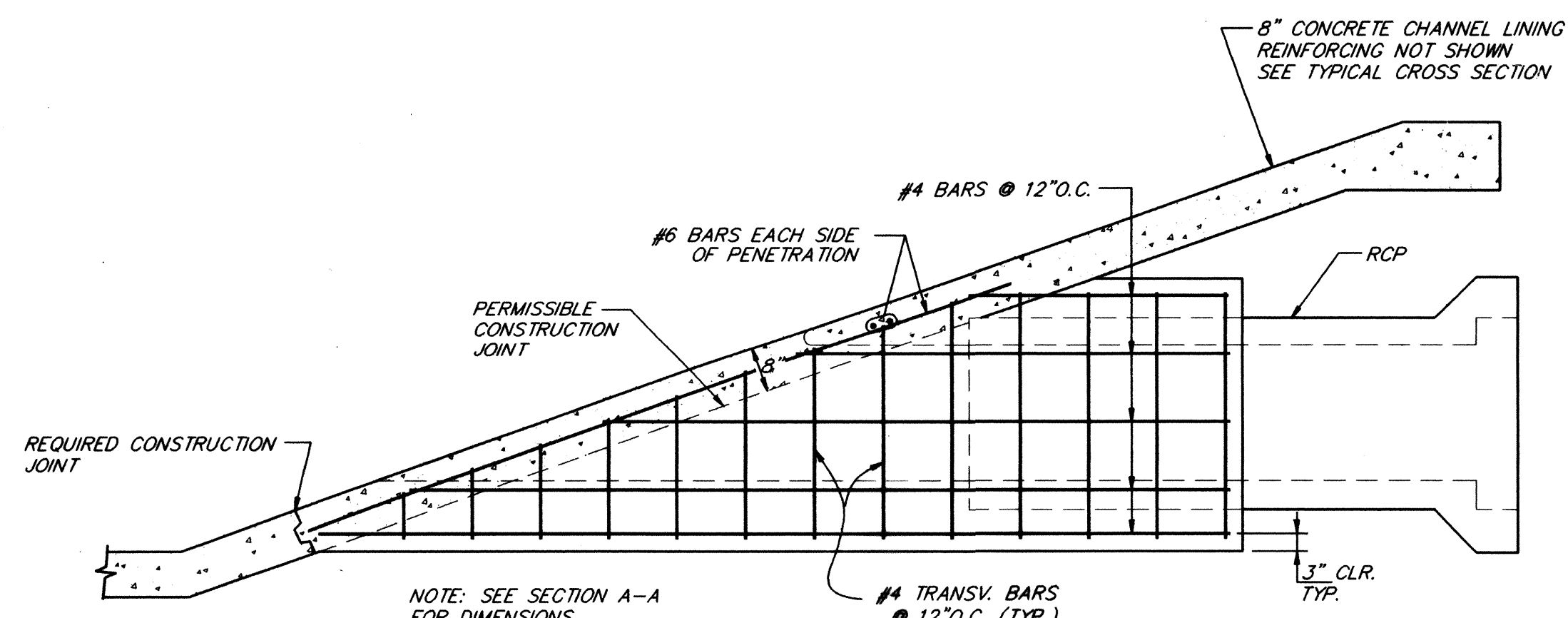
PIPE PENETRATION (PLAN VIEW)

SCALE: 1/4" = 1'-0"



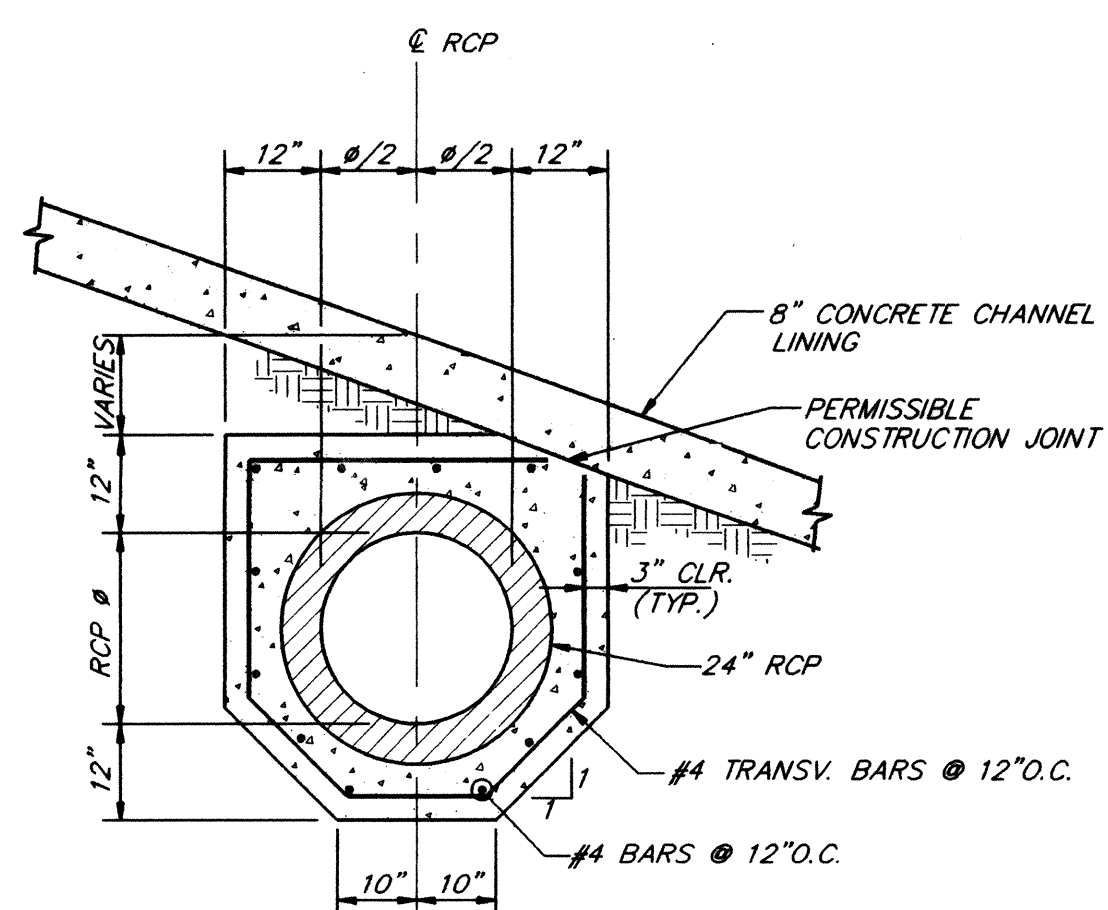
SECTION A-A

SCALE: 1/2" = 1'-0"



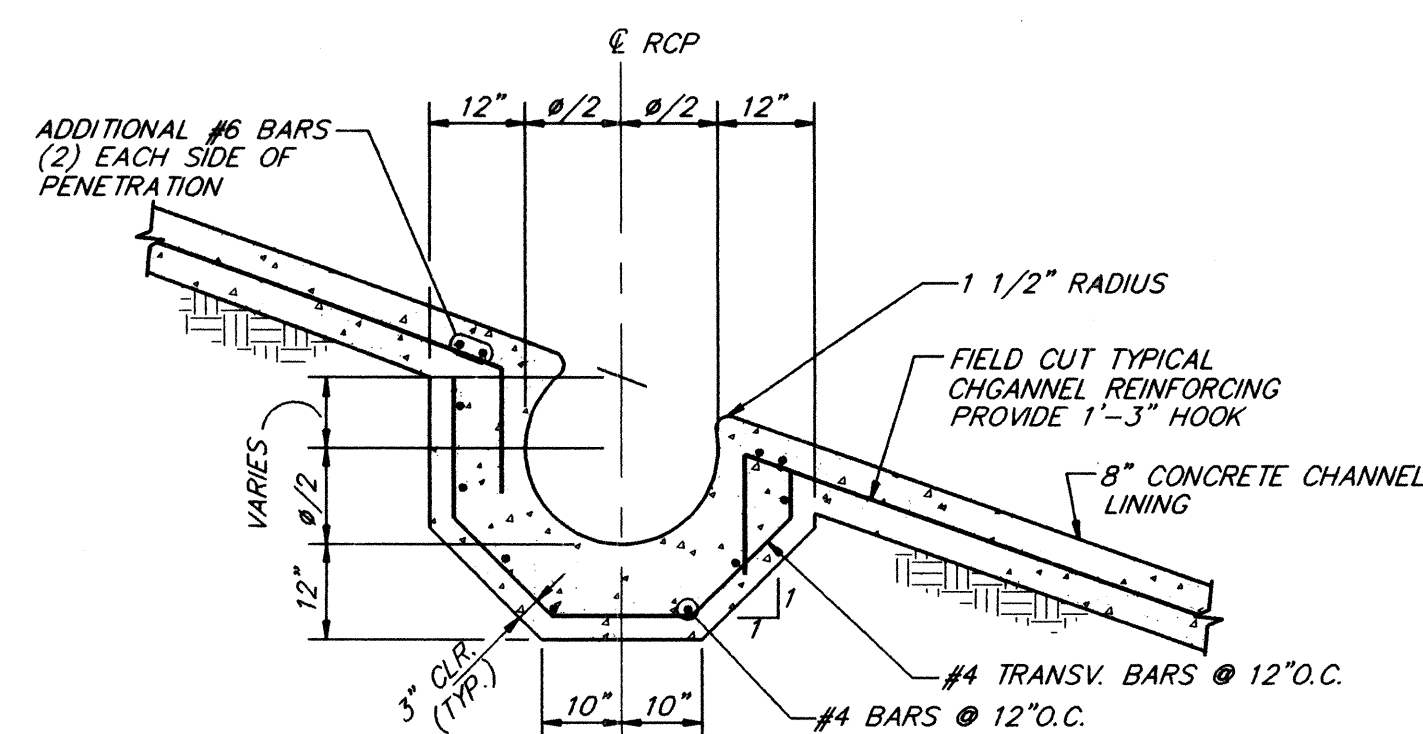
SECTION B-B

SCALE: 1/2" = 1'-0"



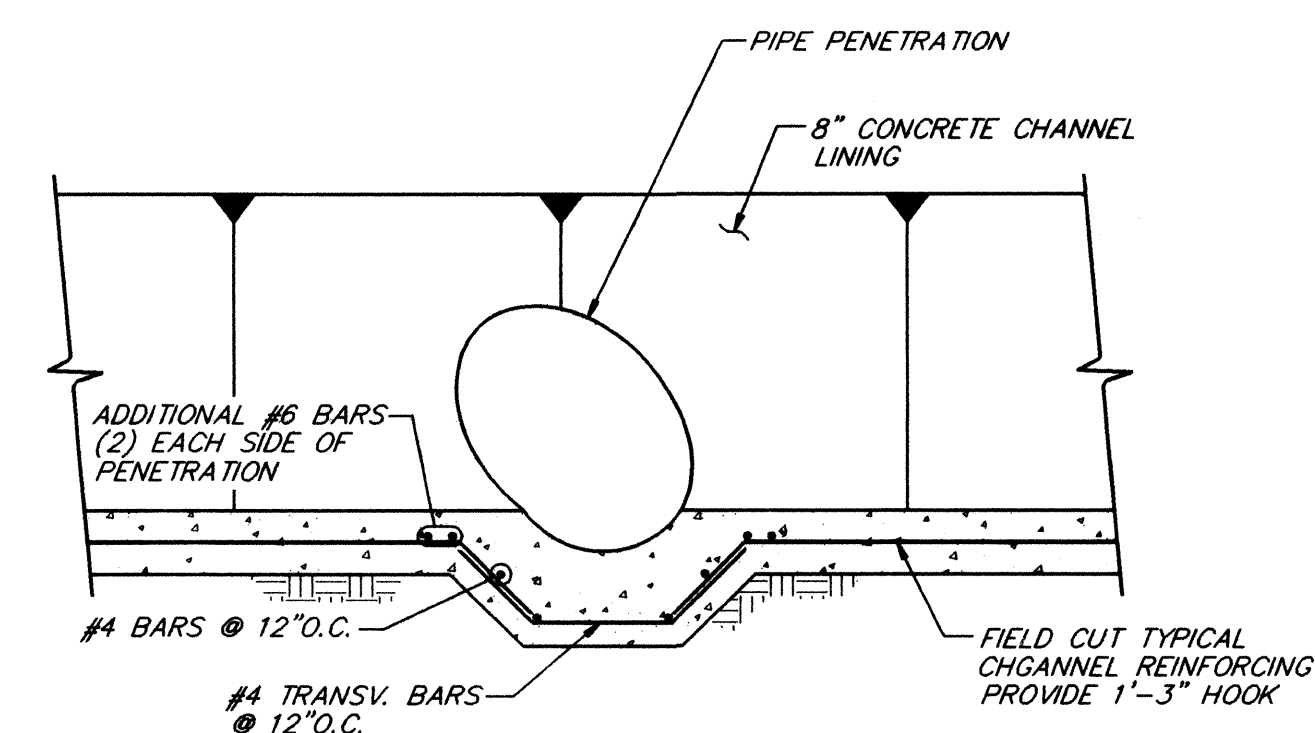
SECTION C-C

SCALE: 1/2" = 1'-0"



SECTION D-D

SCALE: 1/2" = 1'-0"

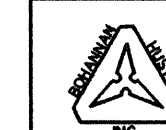


SECTION E-E

SCALE: 1/2" = 1'-0"

AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	DATE	THE BENCH MARK IS A 3 1/4" ALUMINUM CAP	NO.	BY	NO.	DATE	DATE			
STAMPED BY	DATE	DATE	SET FLUSH IN THE LAVA OUTCROP AND IS								
ACCEPTANCE BY	DATE	DATE	STAMPED "ACS 1-C11 1986" THE BENCH								
REVISIONS	DATE	DATE	MARK IS LOCATED APPROX. 210' EAST AND								
NO.	DATE	DATE	260' NORTH OF THE INTERSECTION OF						DESIGNED BY DMB DRAWN BY AAG CHECKED BY AAG		
			ROADWAY DR. AND CALLE NORTENA, N.W.								
			ELEVATION = 5272.34'								

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4909.90-10A-7C



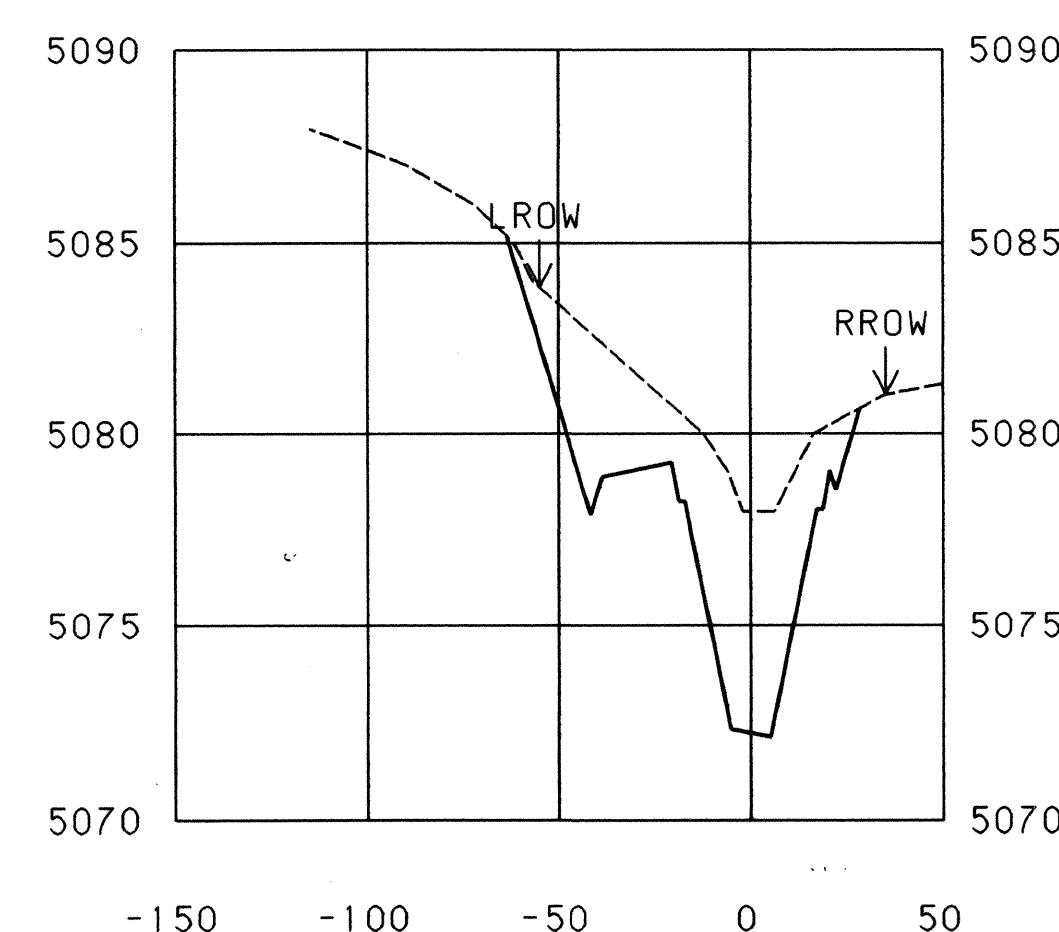
TITLE: PIEDRAS MARCADAS ARROYO
PIPE PENETRATION DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY			AMAFCA		

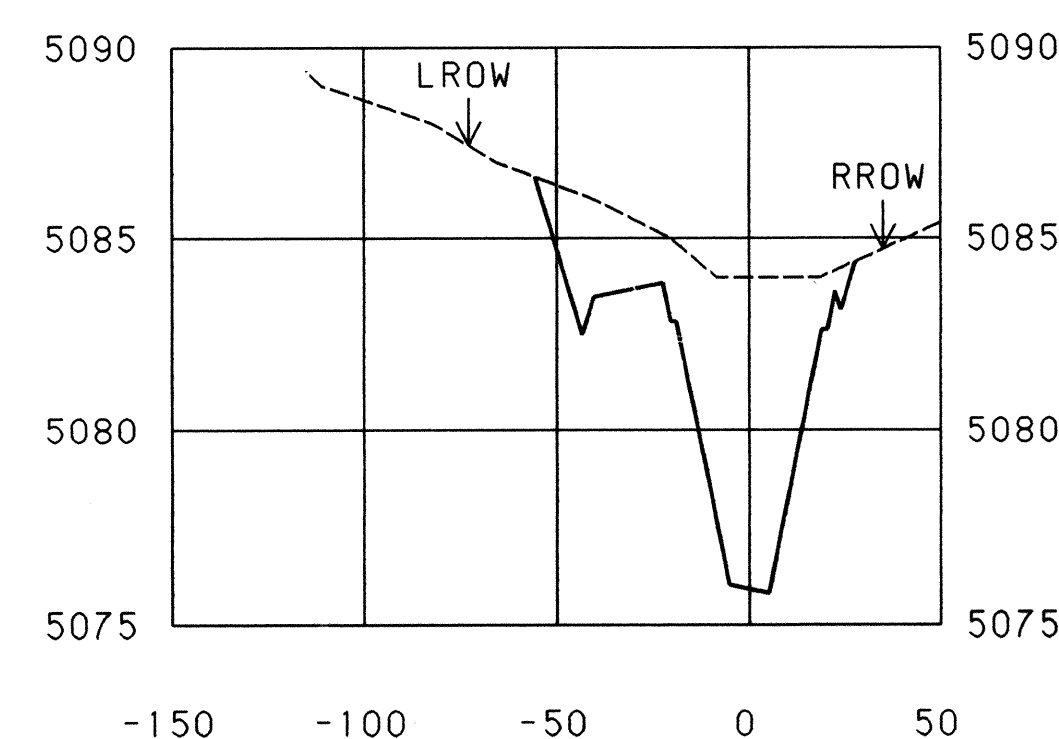
PROJECT NO.	4909.90	MAP NO.	C-12	SHEET	10A	OF	13
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NOTES:

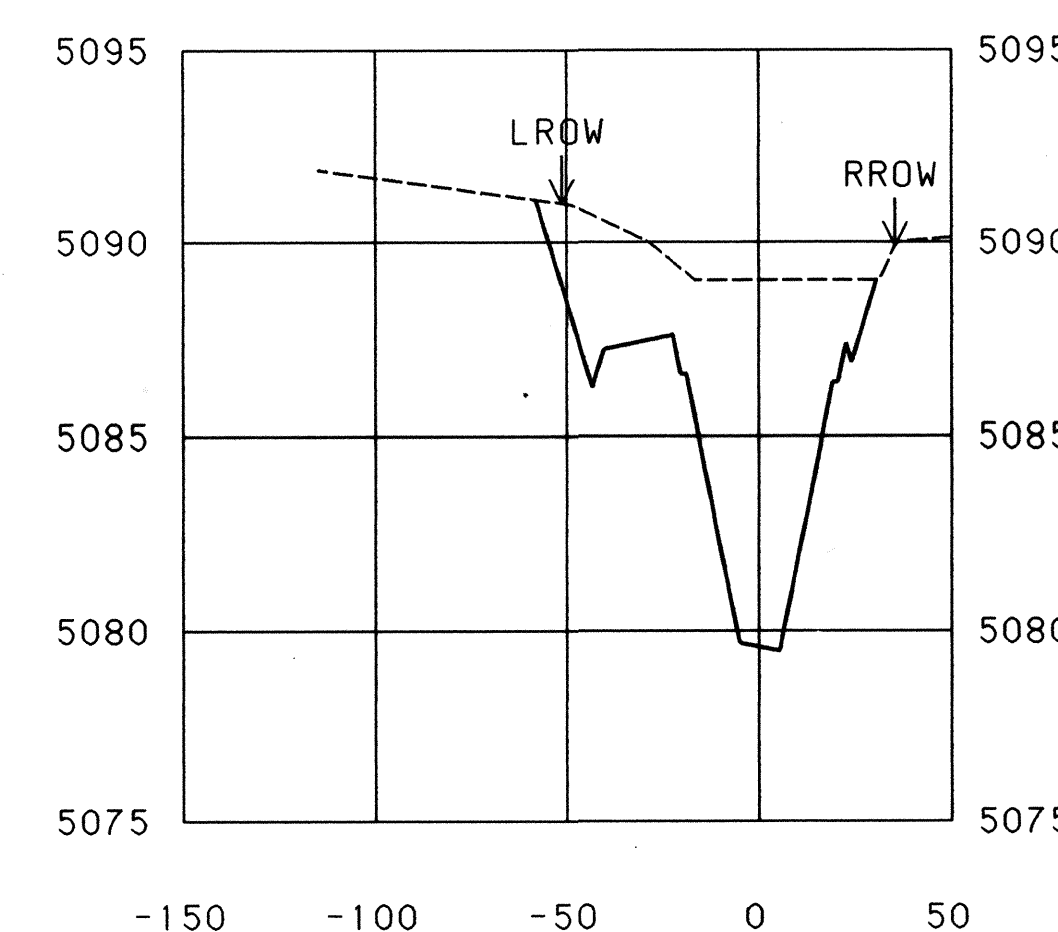
1. PROPOSED SECTIONS SHOWN ARE BOTTOM OF CONCRETE.
2. EXISTING GROUND SECTIONS WERE TAKEN PRIOR TO GRADING OF SHENANDOAH SUBDIVISION. NEW CROSS SECTIONS WILL BE TAKEN PRIOR TO COMMENCEMENT OF THE PROJECT SO THAT ACTUAL EARTHWORK QUANTITIES CAN BE DETERMINED.



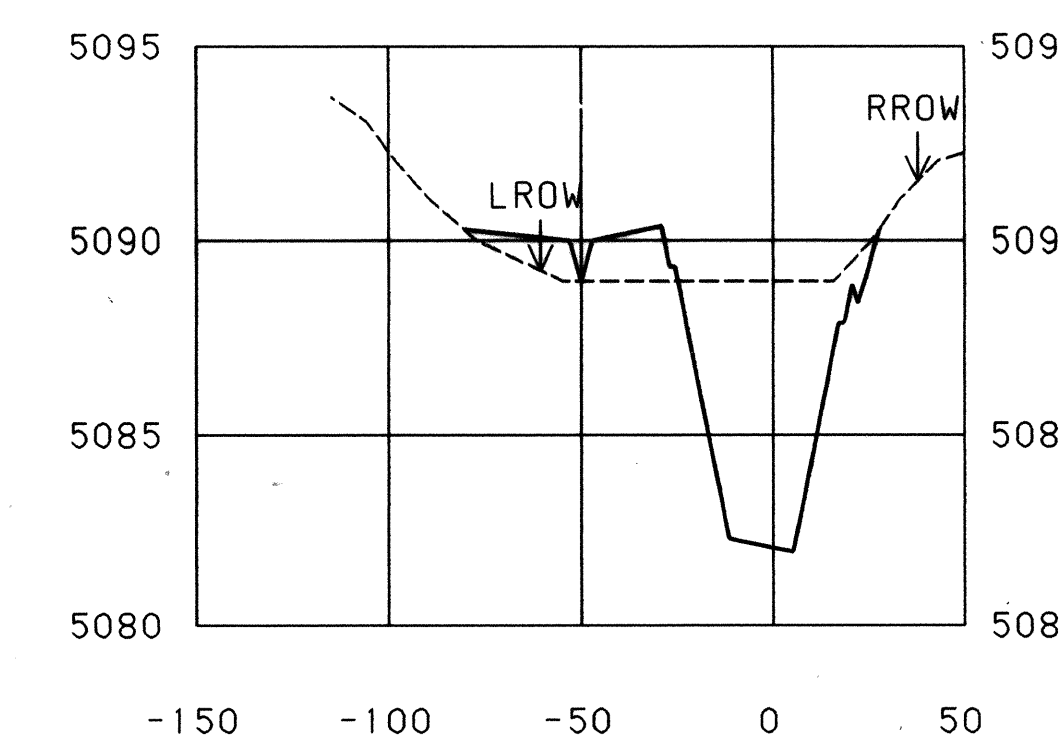
STATION 30+50



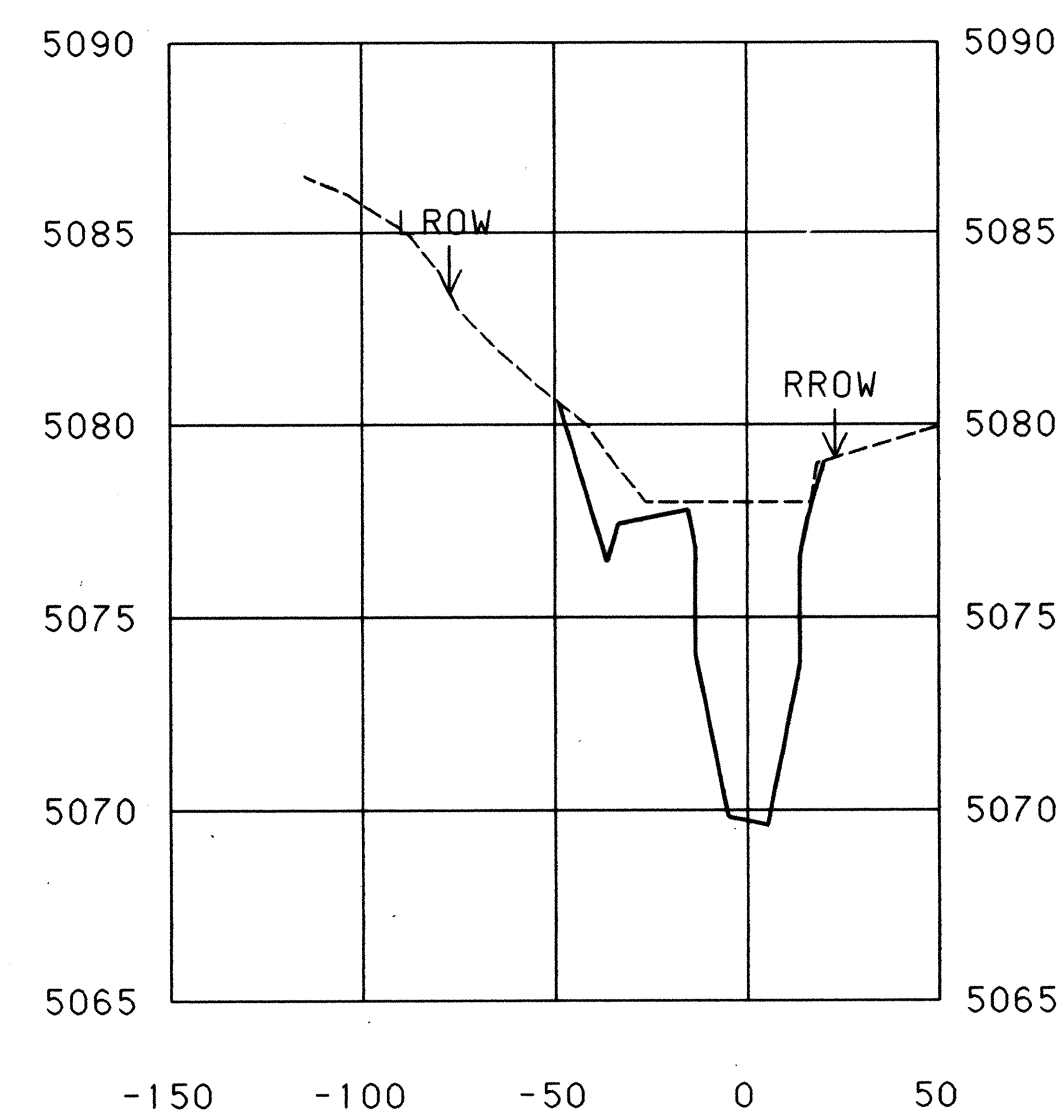
STATION 32+00



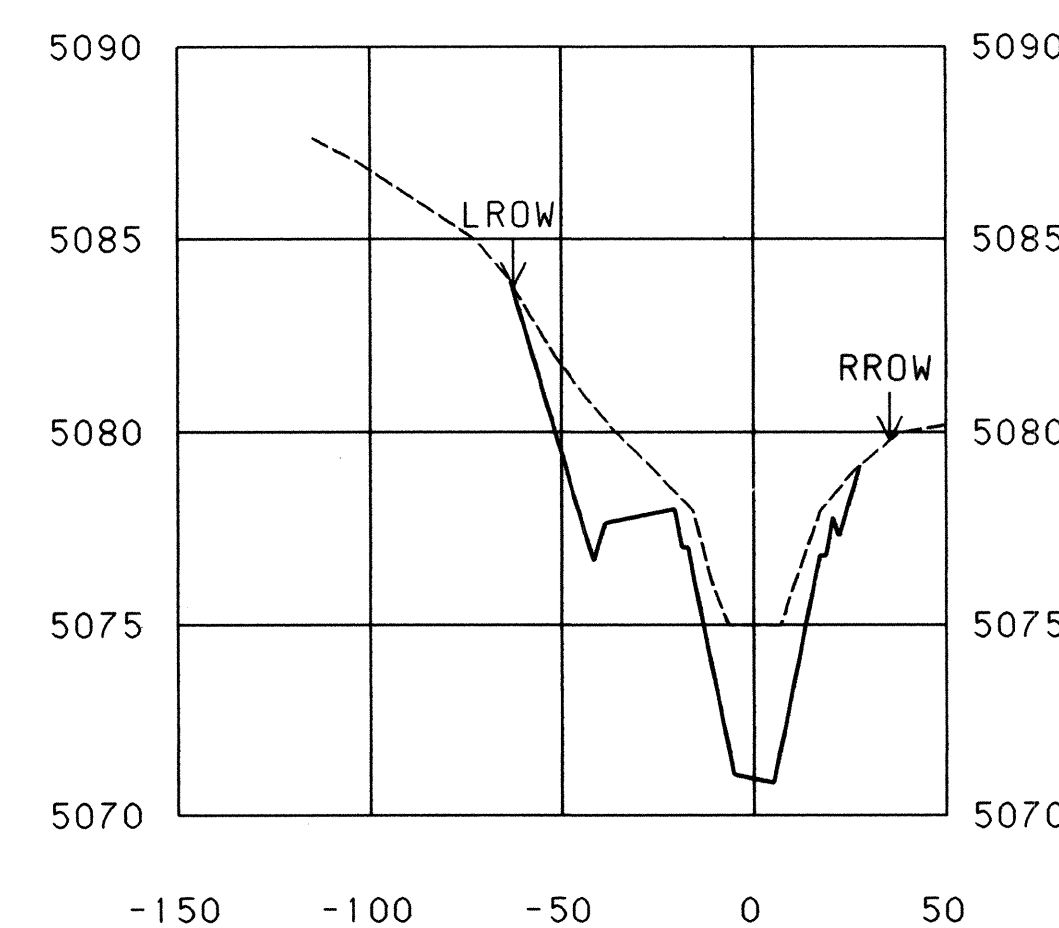
STATION 33+50



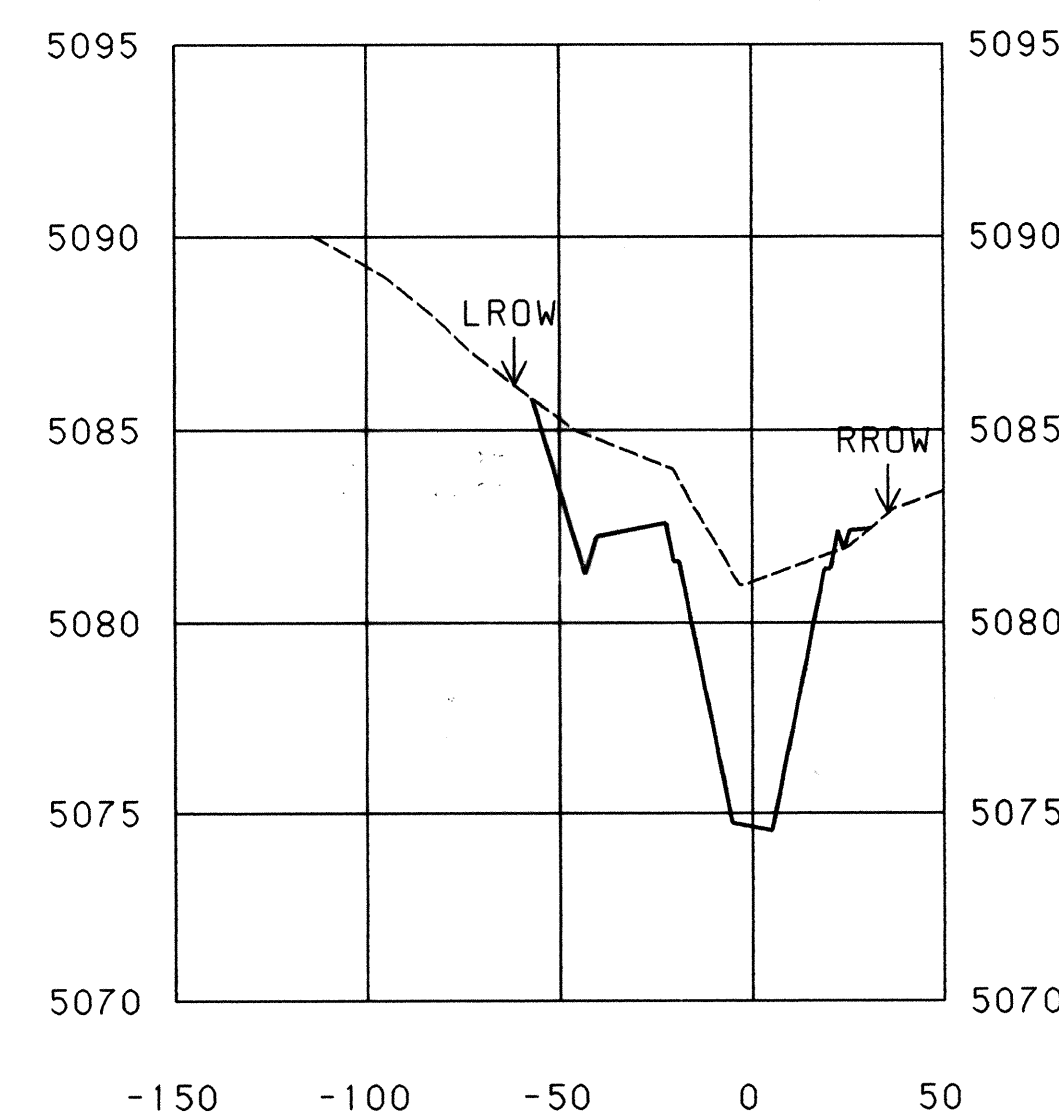
STATION 34+50



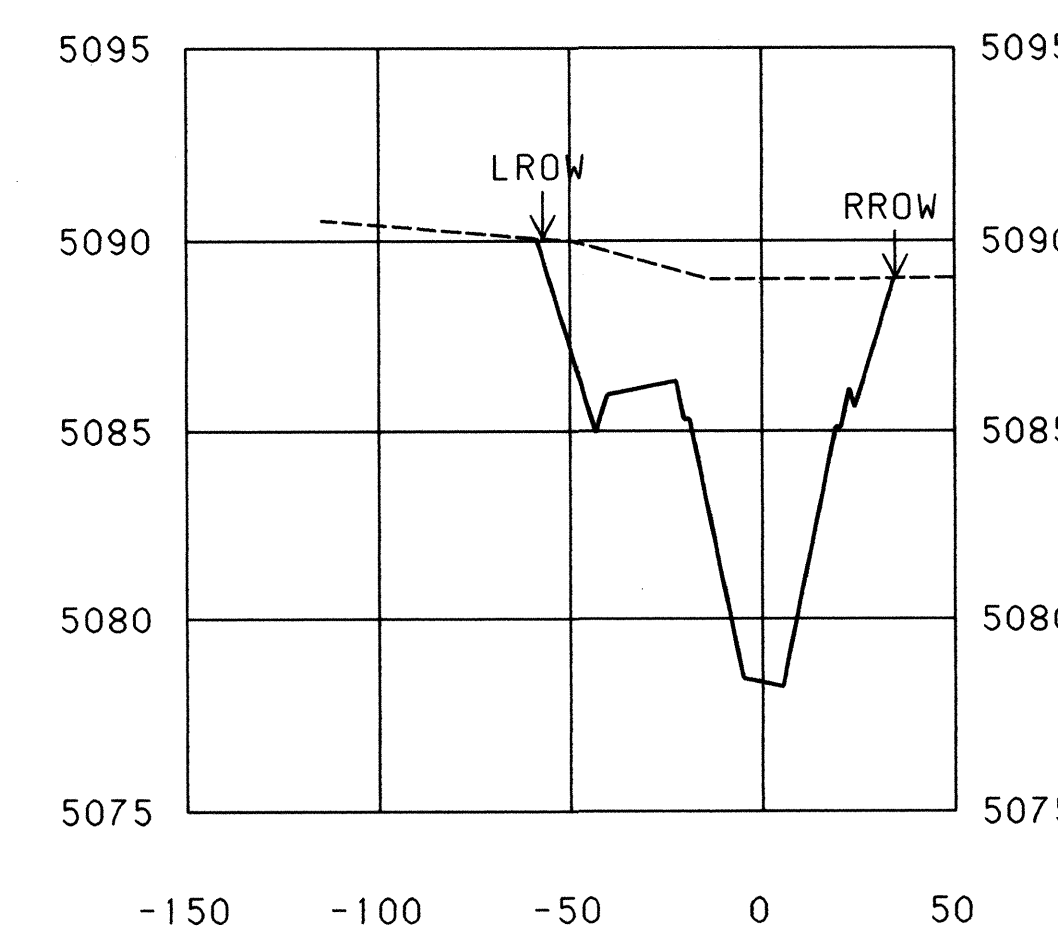
STATION 29+50



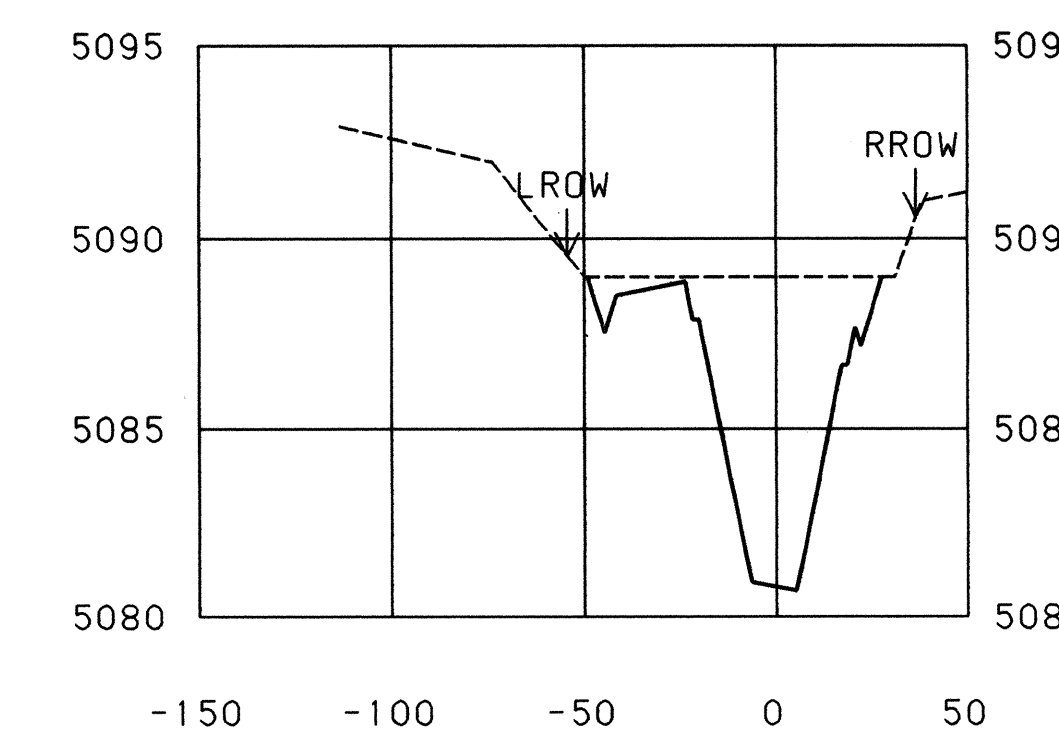
STATION 30+00



STATION 31+50



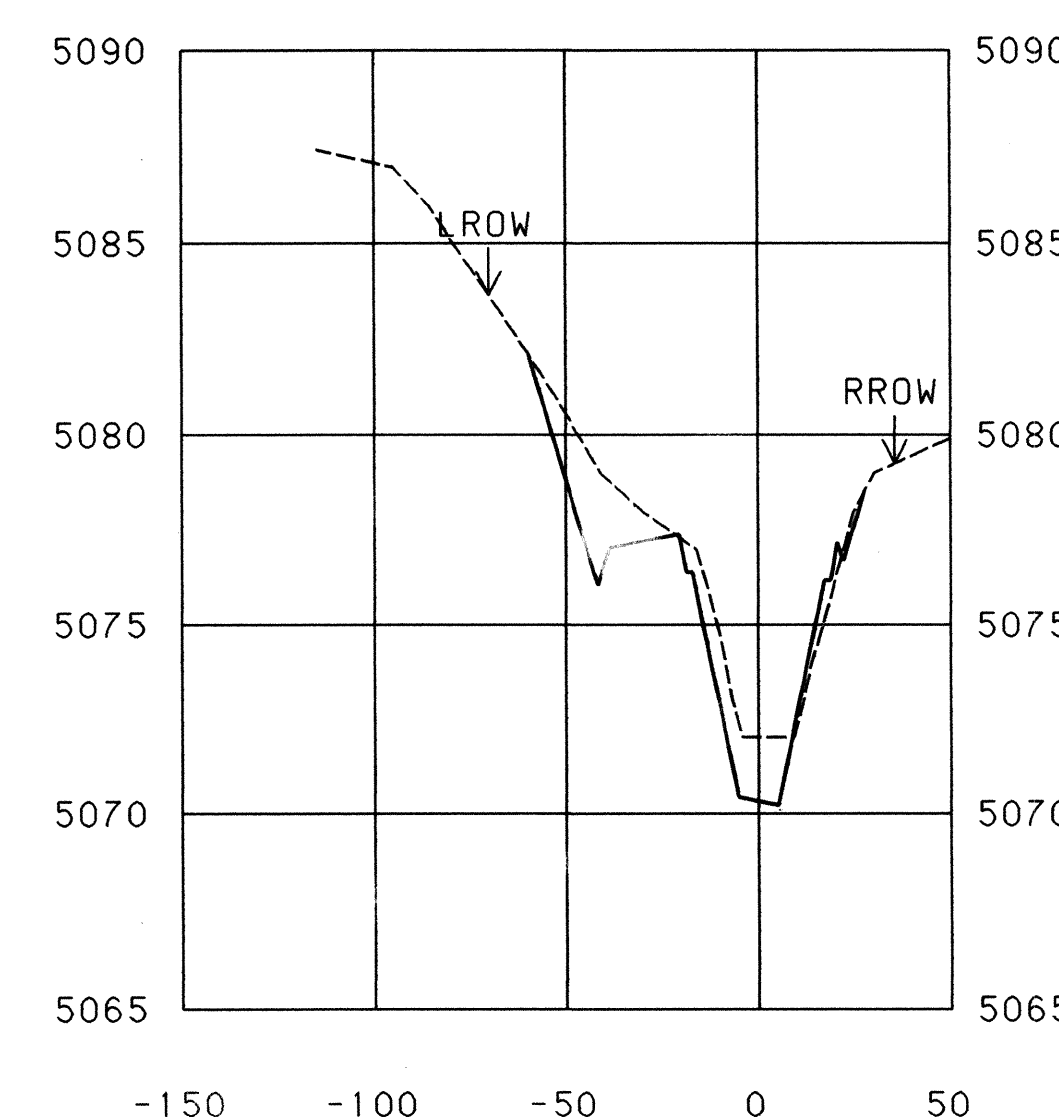
STATION 33+00



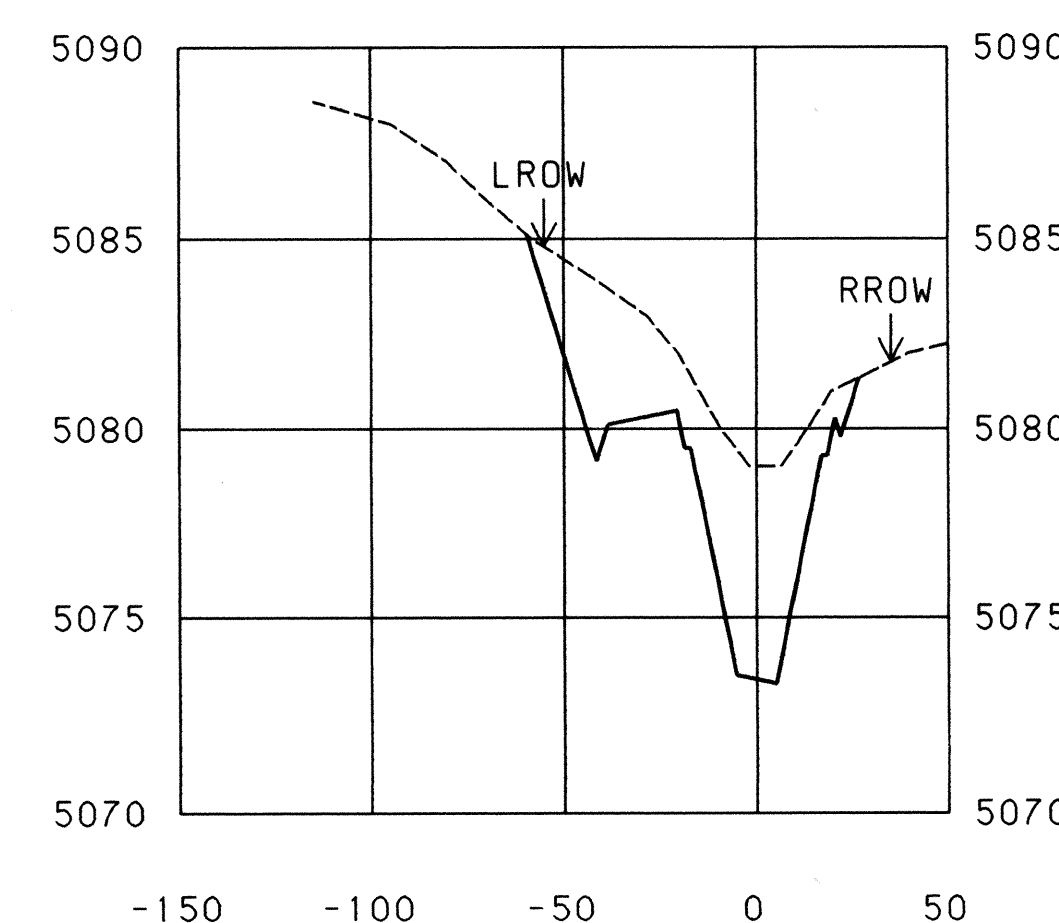
STATION 34+00



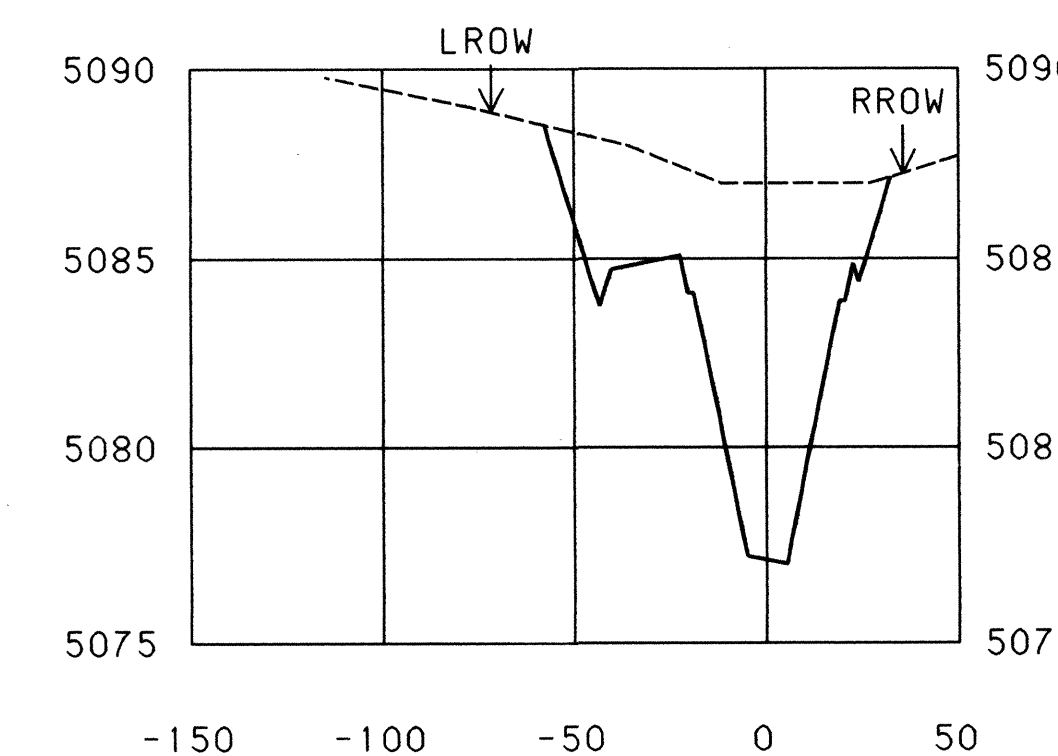
STATION 29+44



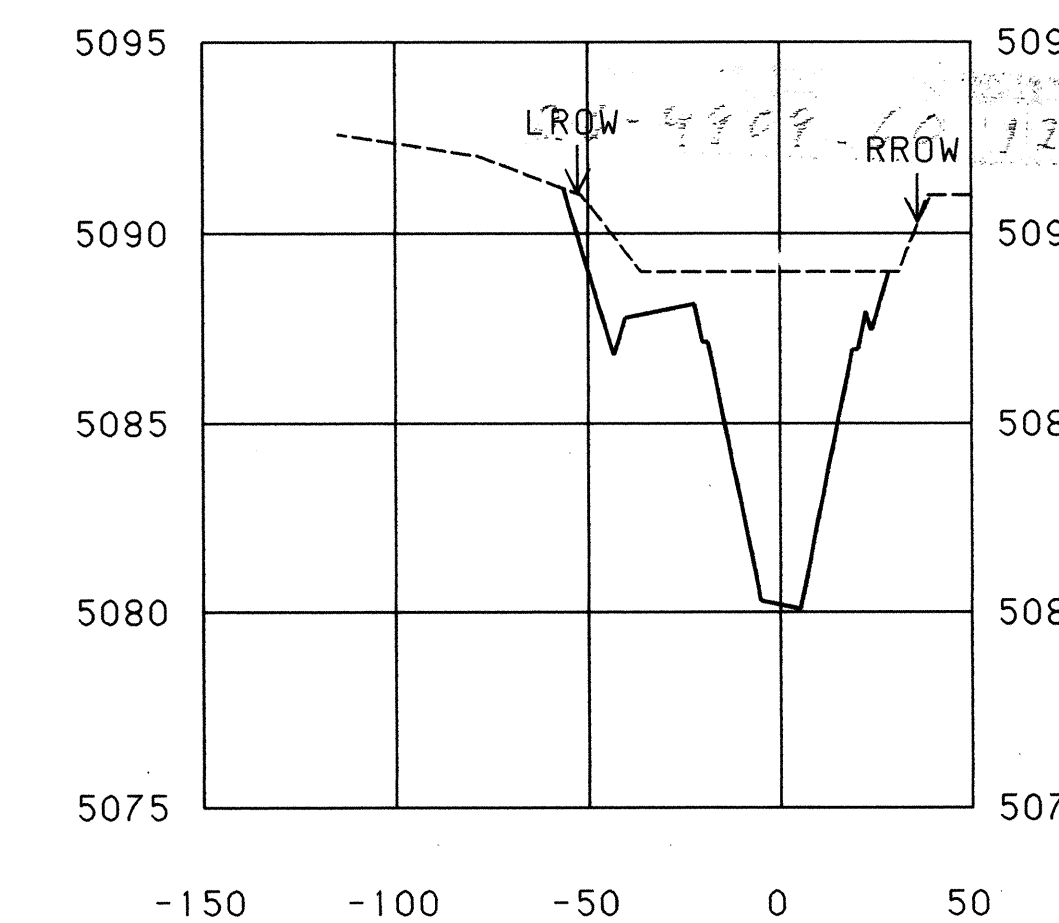
STATION 29+74



STATION 31+00



STATION 32+50



STATION 33+75

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26-4909-90 11/90

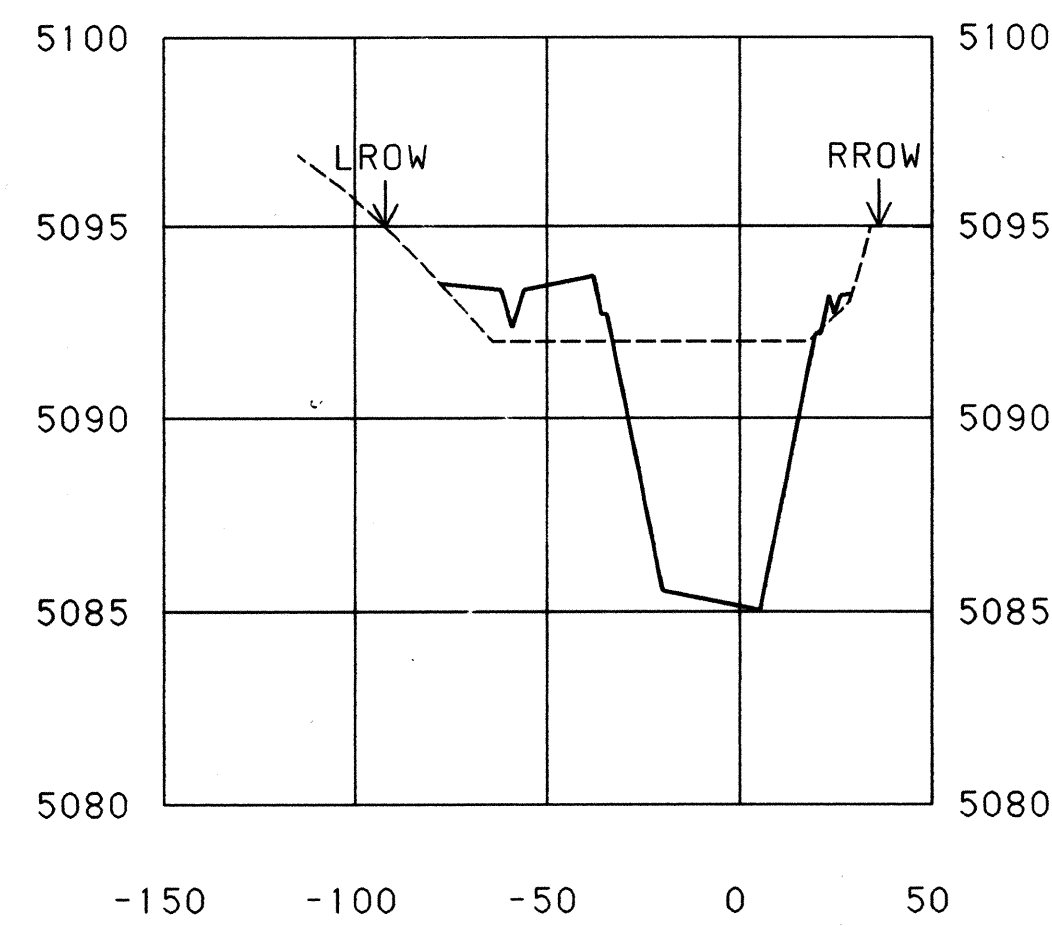


CROSS SECTIONS
PIEDRAS MARCADAS ARROYO CHANNEL

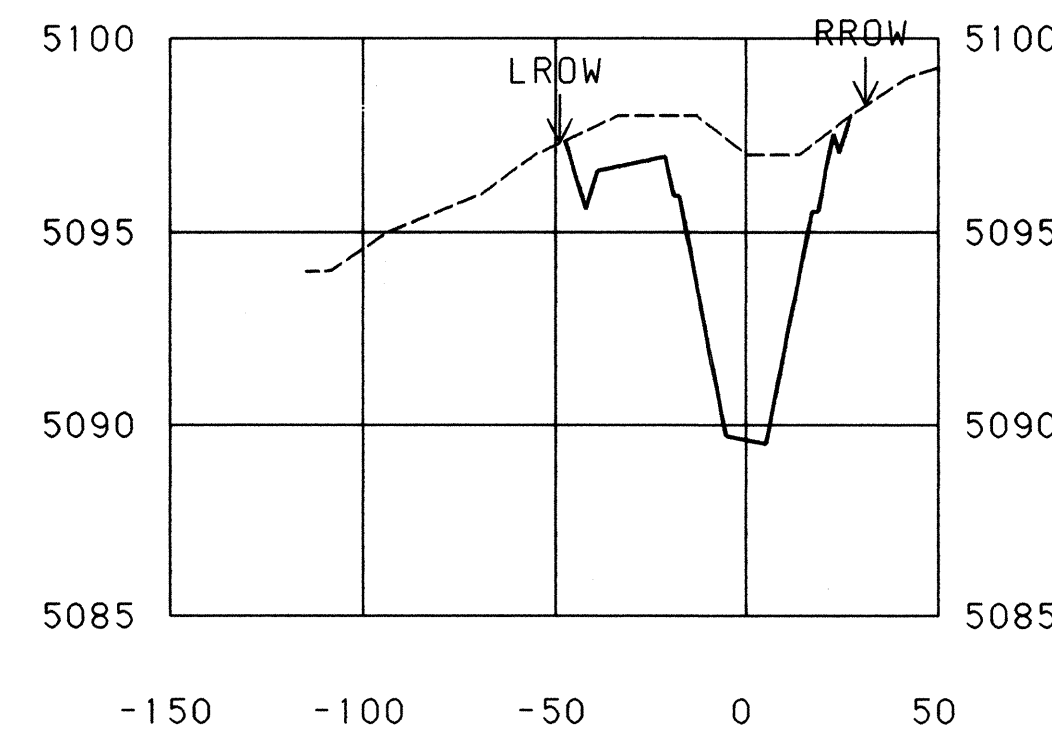
STATION 29+44 TO STATION 34+50

NOTES:

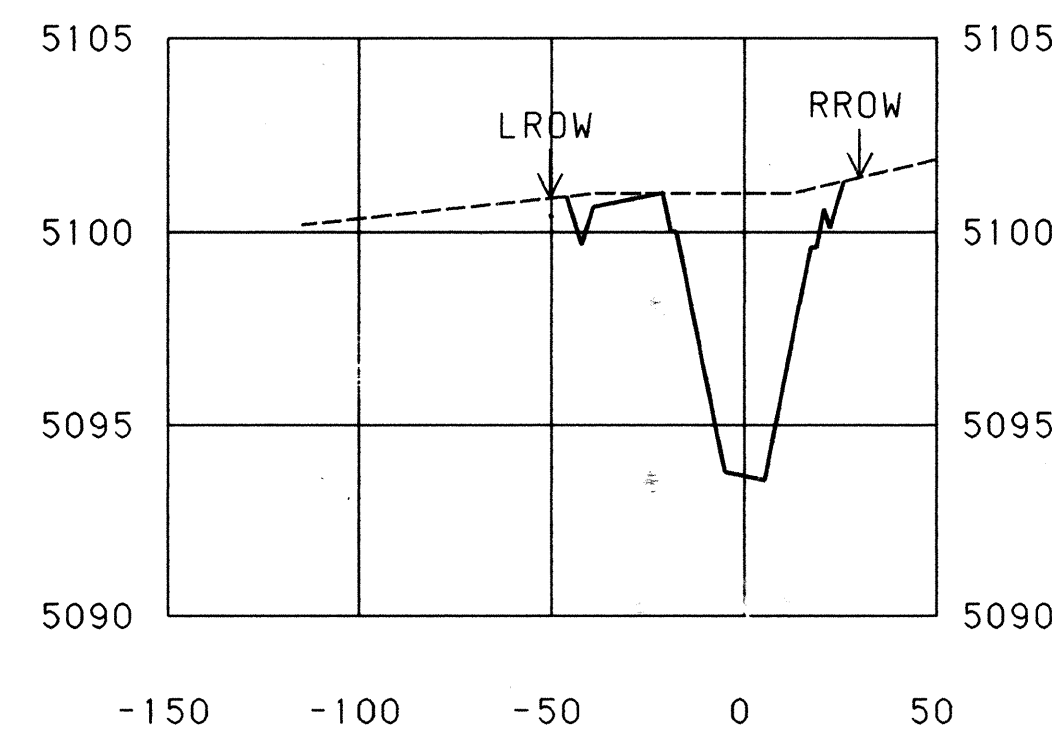
1. PROPOSED SECTIONS SHOWN ARE BOTTOM OF CONCRETE.
2. EXISTING GROUND SECTIONS WERE TAKEN PRIOR TO GRADING OF SHENANDOAH SUBDIVISION. NEW CROSS SECTIONS WILL BE TAKEN PRIOR TO COMMENCEMENT OF THE PROJECT SO THAT ACTUAL EARTHWORK QUANTITIES CAN BE DETERMINED.



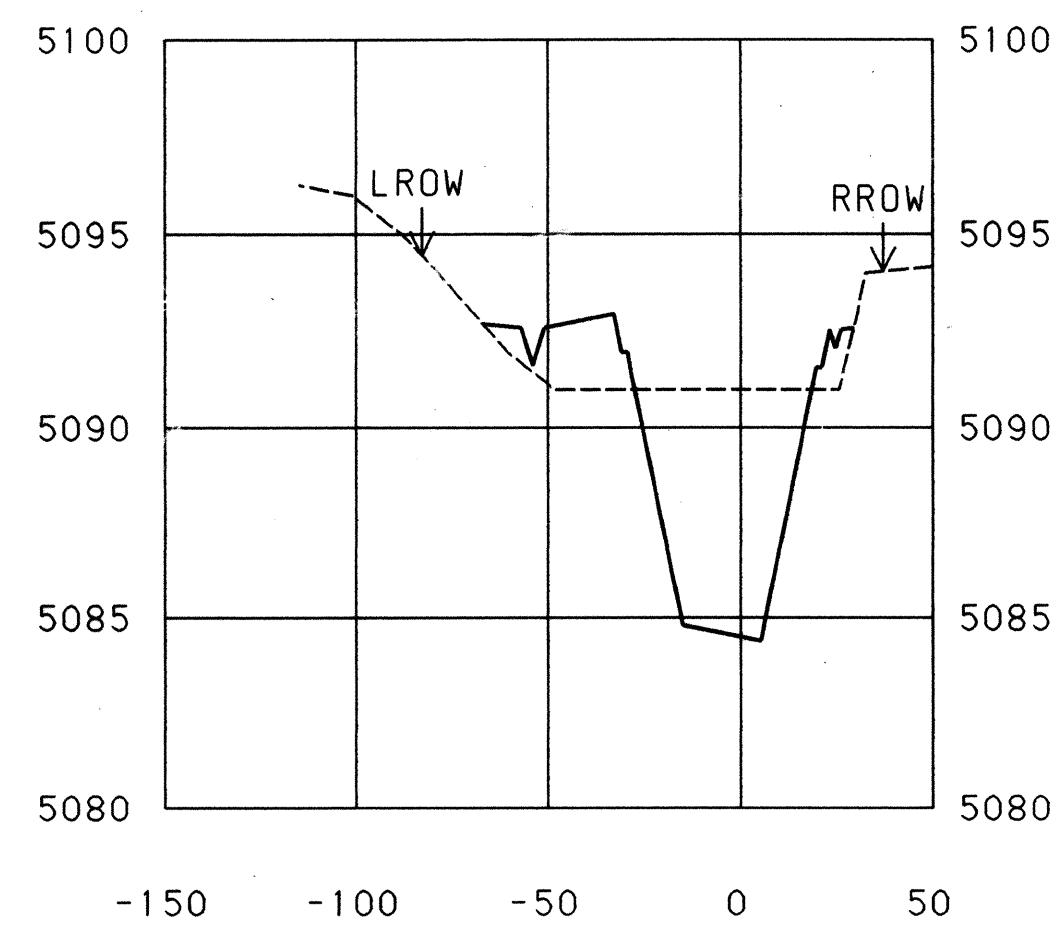
STATION 35+75



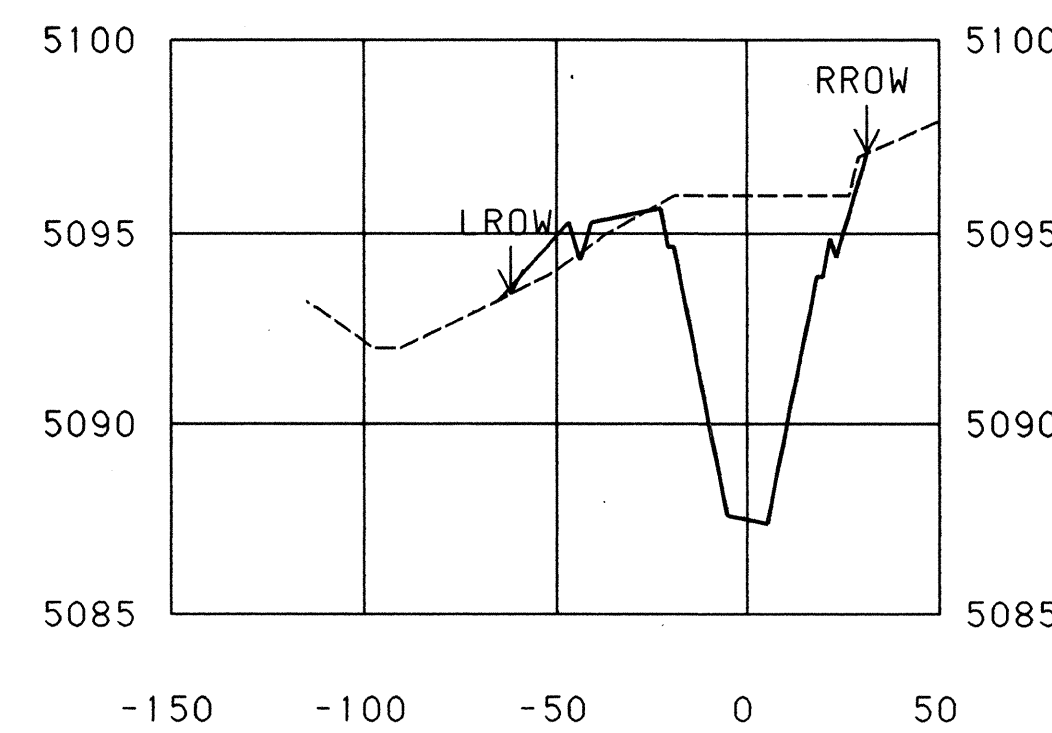
STATION 37+00



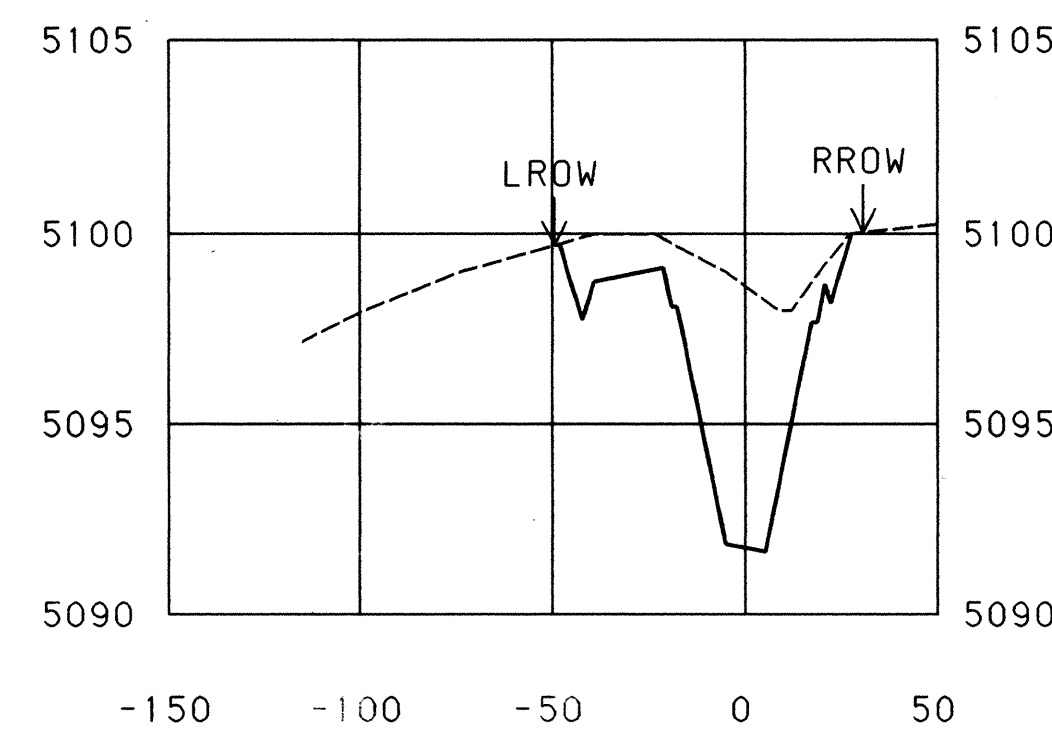
STATION 38+00



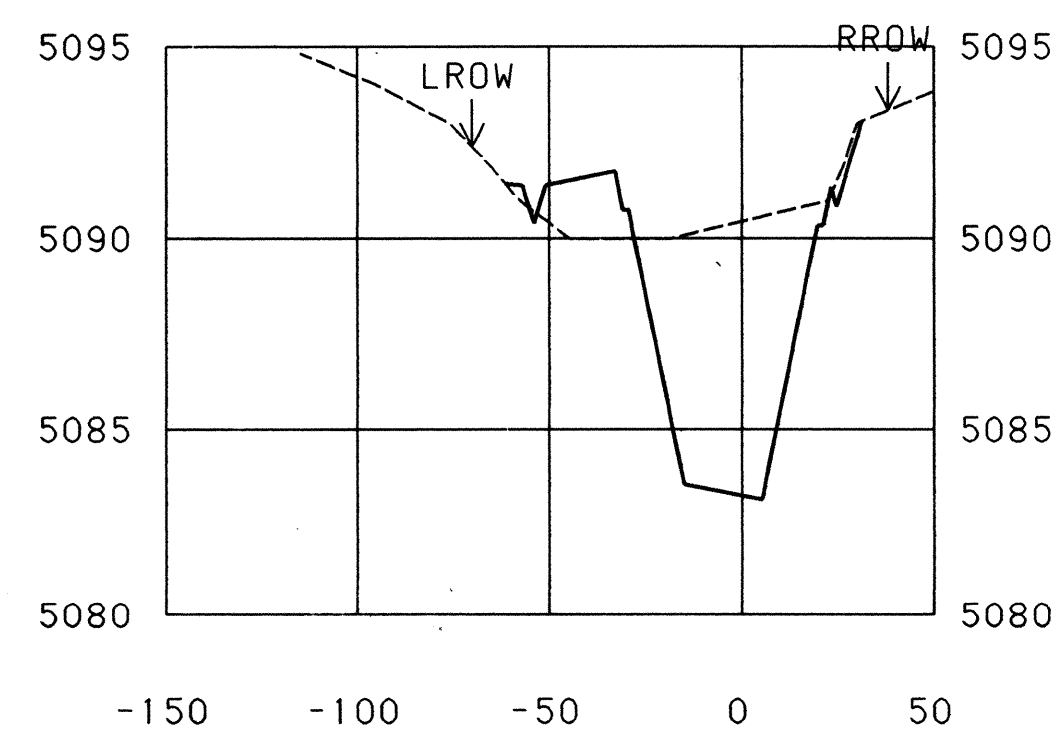
STATION 35+50



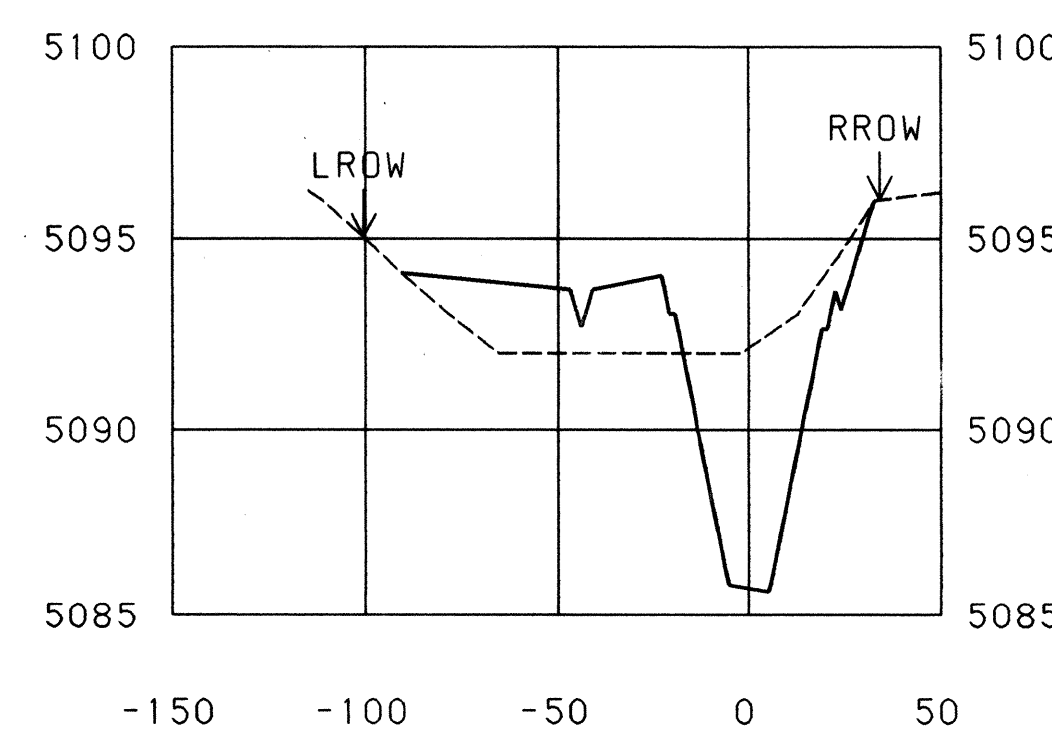
STATION 36+50



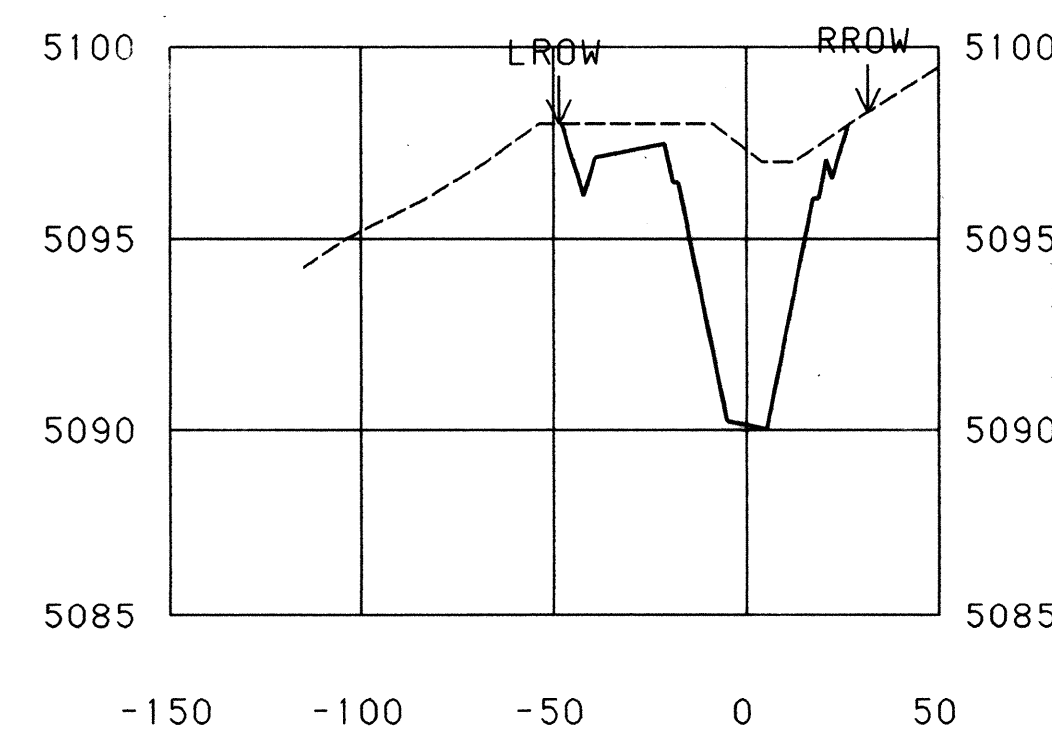
STATION 37+50



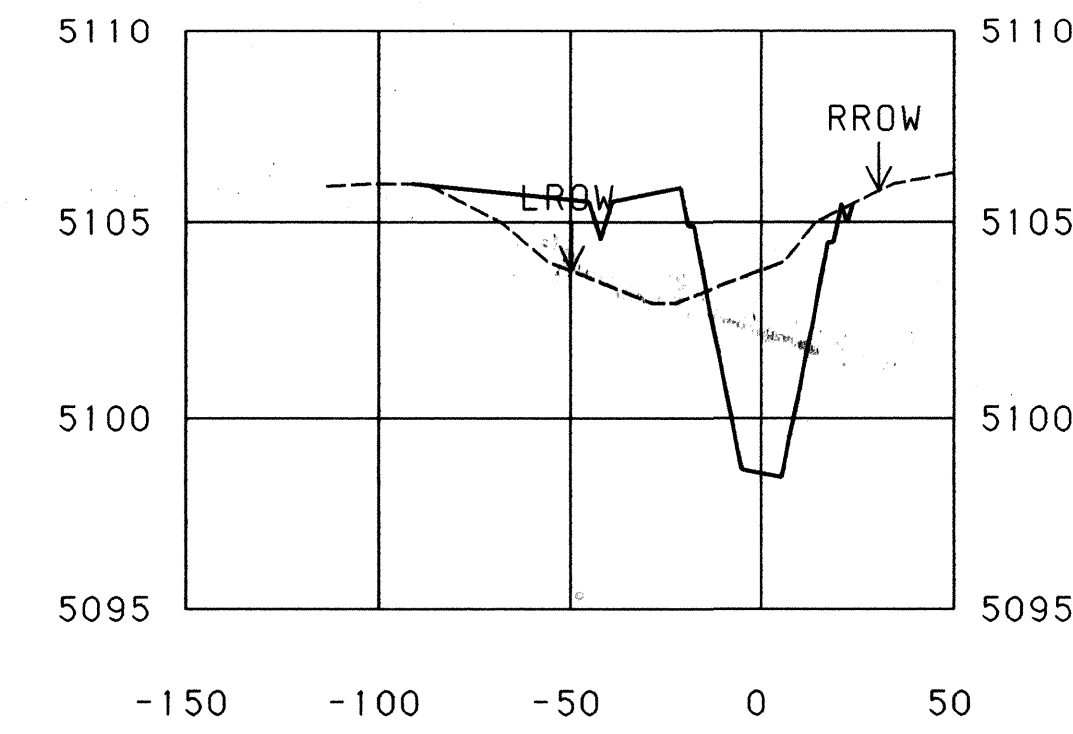
STATION 35+00



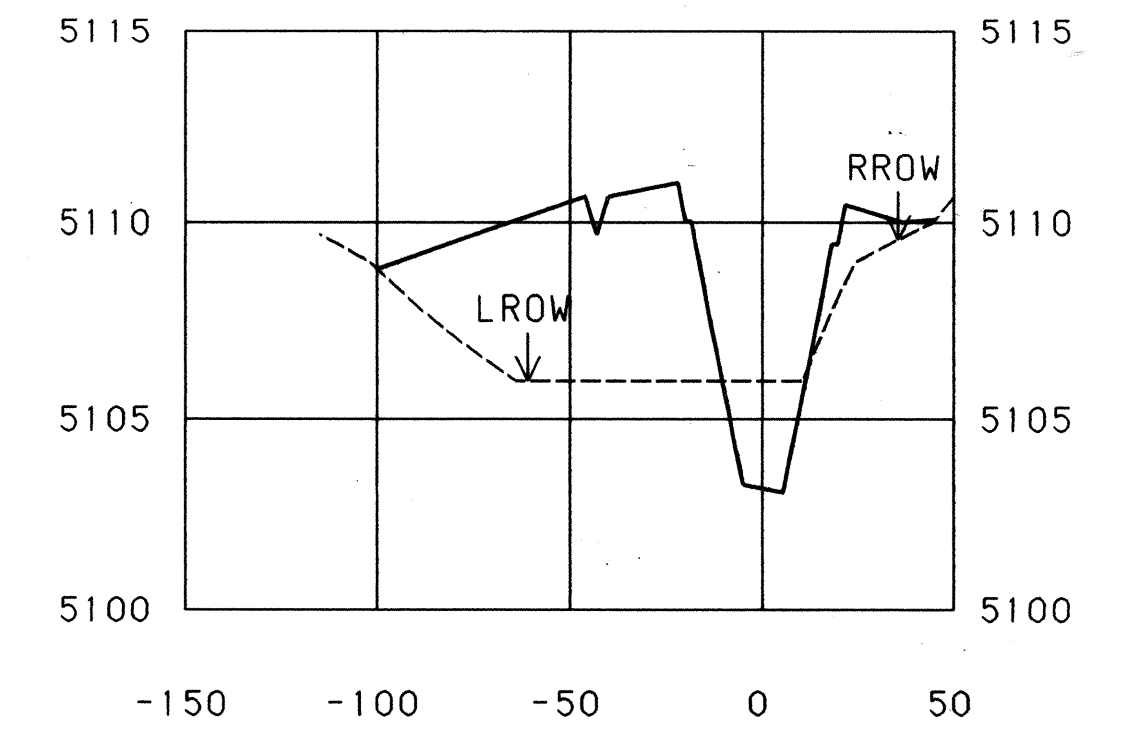
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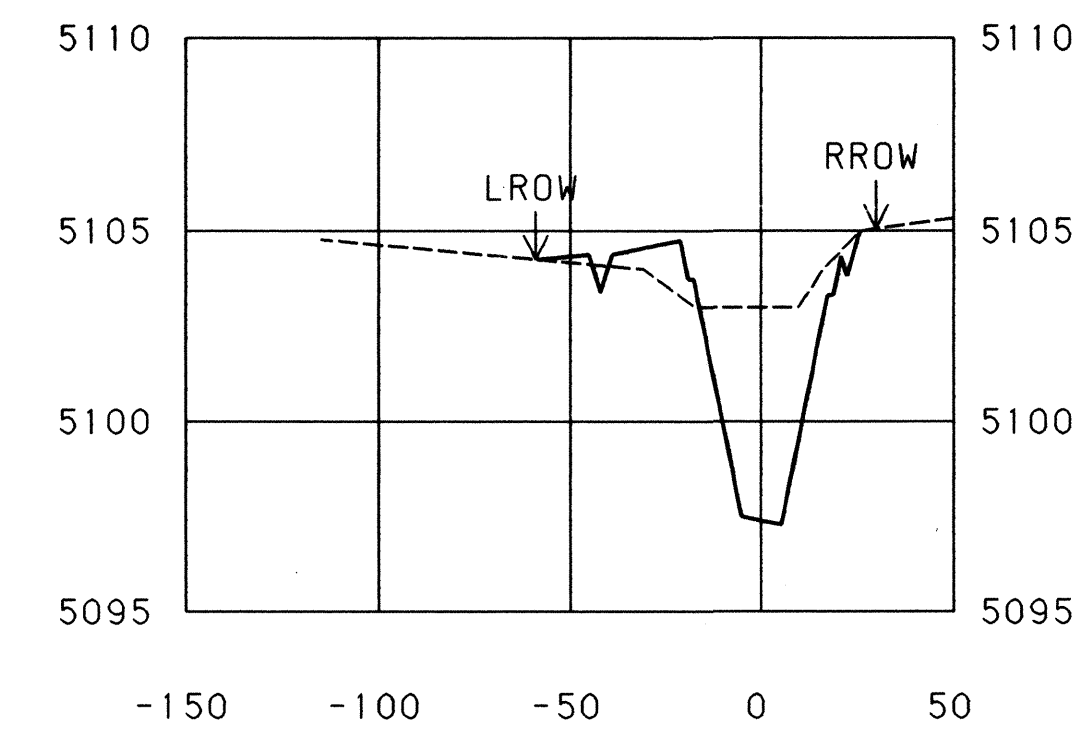
STATION 37+12



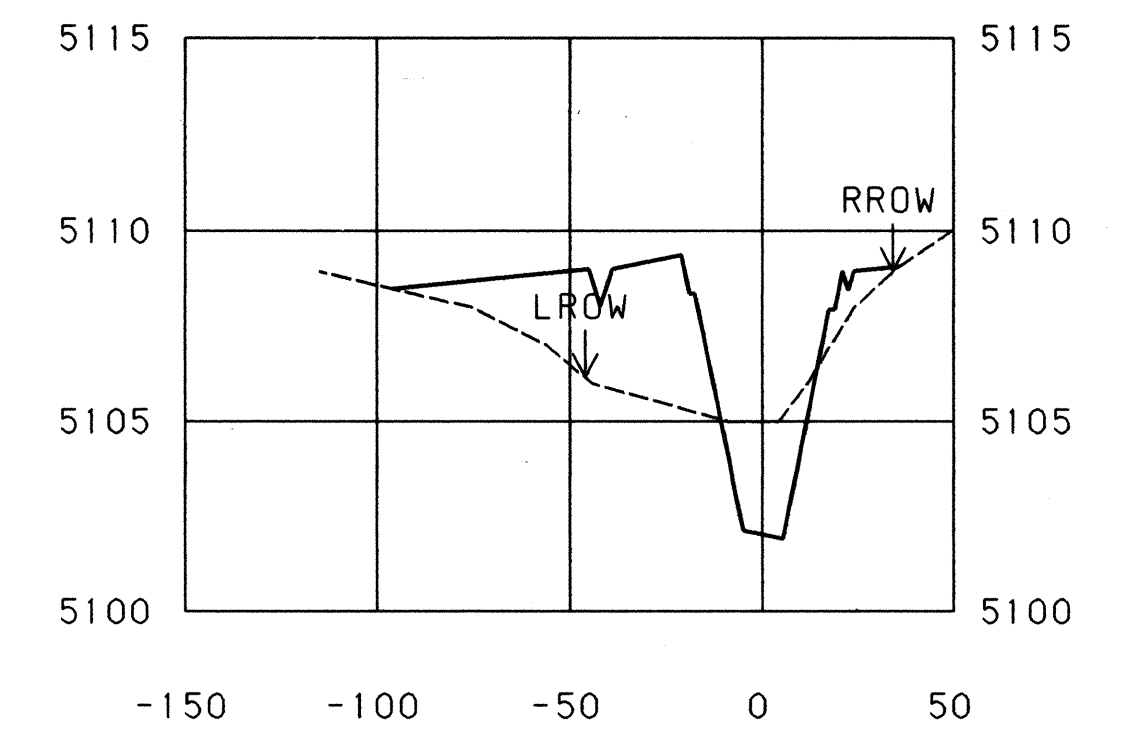
STATION 40+00



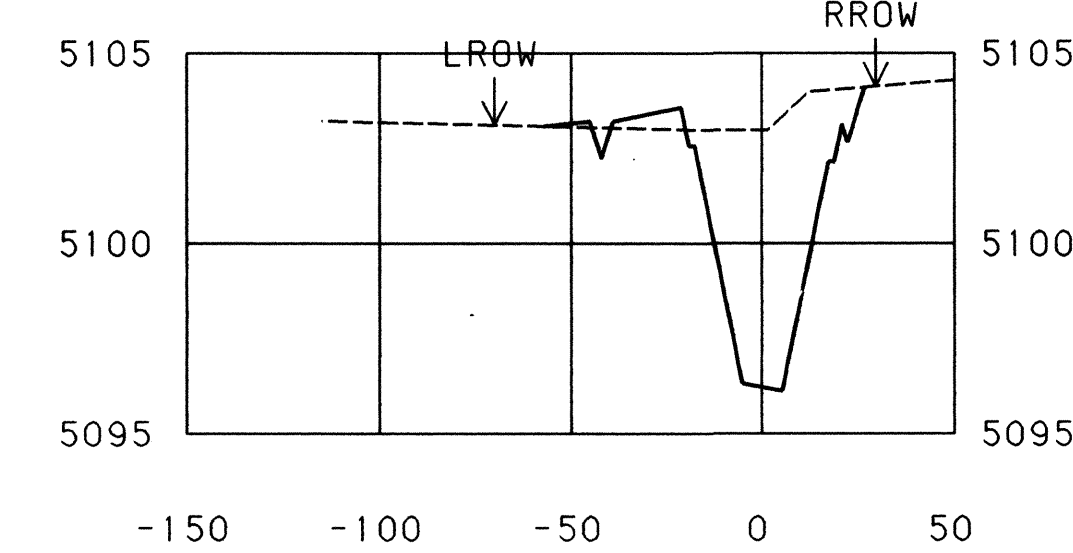
STATION 42+00



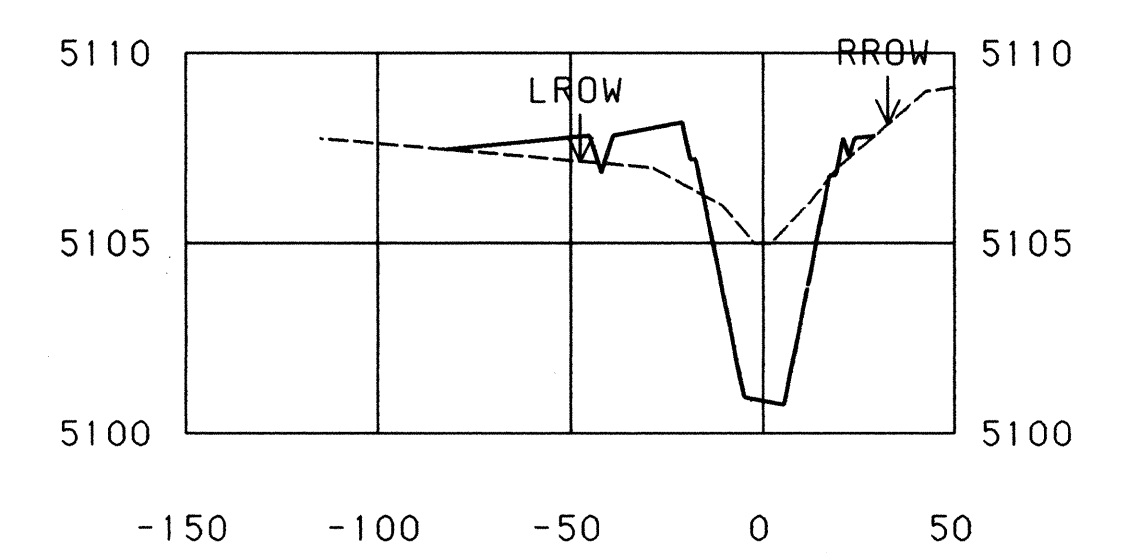
STATION 39+50



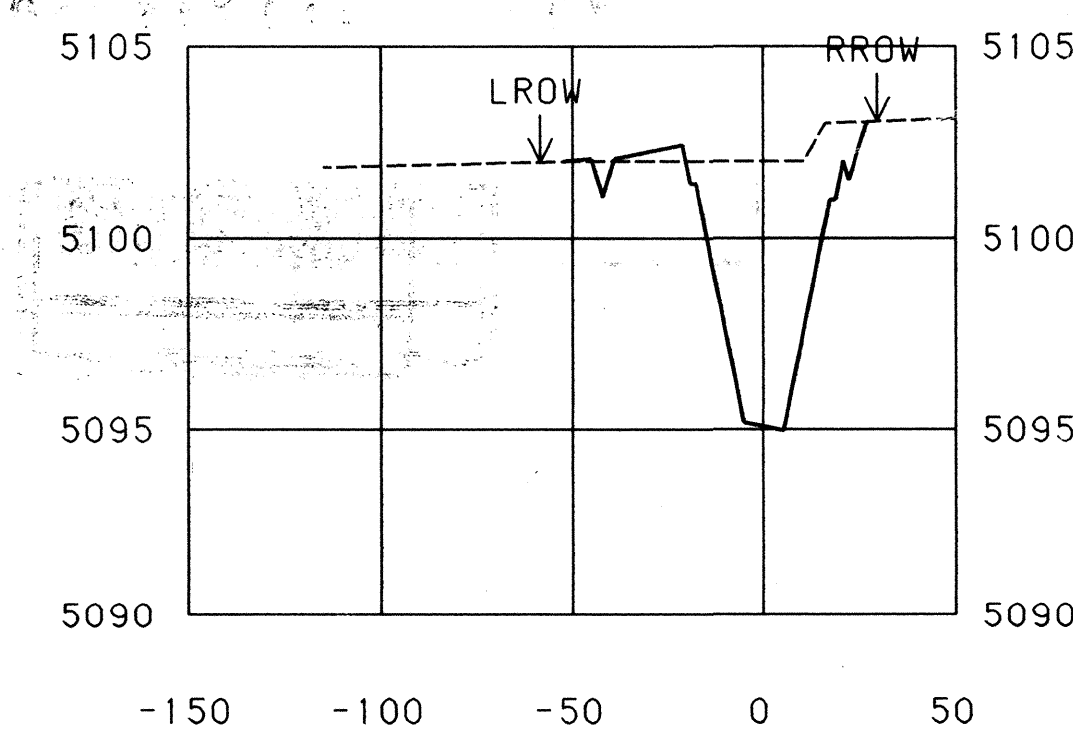
STATION 41+50



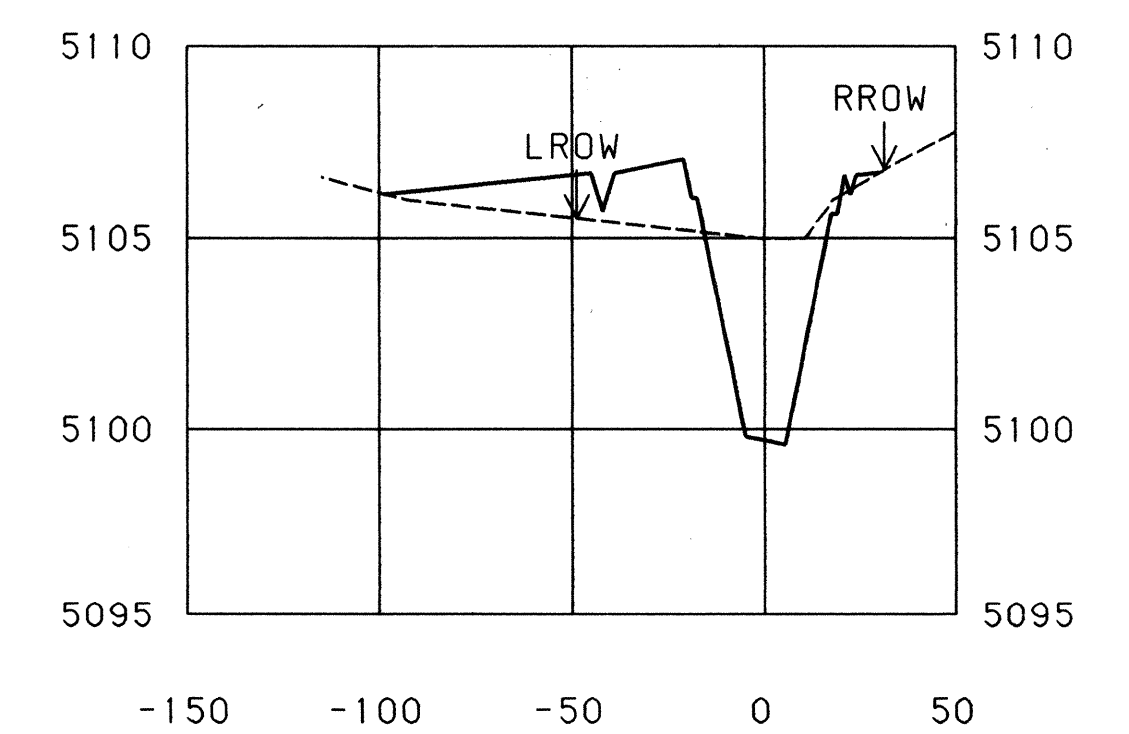
STATION 39+00



STATION 41+00



STATION 38+50



STATION 40+50

26-4909 90 1296



CROSS SECTIONS
PIEDRAS MARCADAS ARROYO CHANNEL

STATION 35+00 TO STATION 42+00