

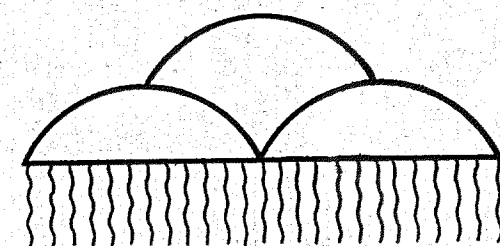
CONSTRUCTION PLANS FOR

LA CUEVA ARROYO

CHANNEL IMPROVEMENTS

BERNALILLO COUNTY, NEW MEXICO

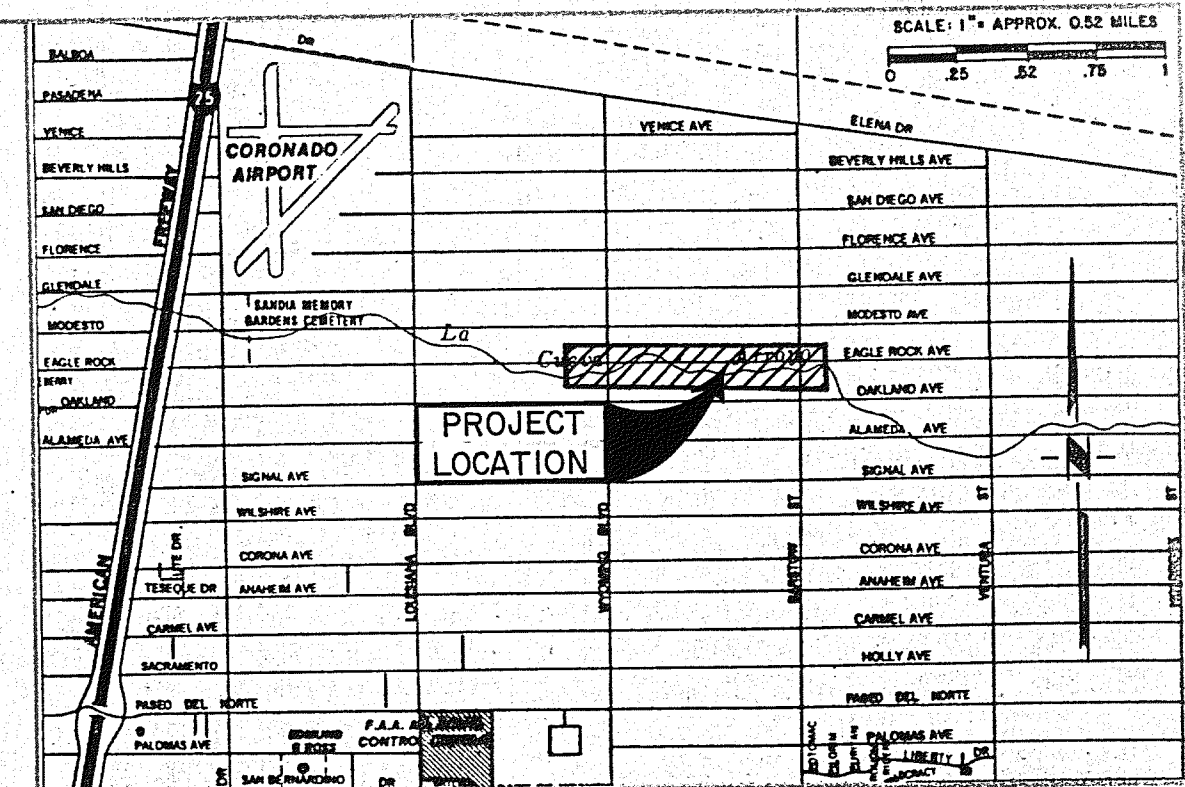
PREPARED FOR



Albuquerque Metropolitan Arroyo Flood Control Authority

INDEX TO DRAWINGS

SHEET	DESCRIPTION
1.	COVER SHEET
2.	OVERALL CHANNEL PLAN
3.	CHANNEL PLAN & PROFILE STA. 6+74.00 TO STA. 10+78.00
4.	CHANNEL PLAN & PROFILE STA. 10+78.00 TO STA. 22+00.00
5.	CHANNEL PLAN & PROFILE STA. 22+00.00 TO STA. 33+16.84
6.	CHANNEL PLAN & PROFILE STA. 33+16.84 TO STA. 37+86.31
7.	DETAILS
8.	DETAILS
9.	DETAILS



VICINITY MAP

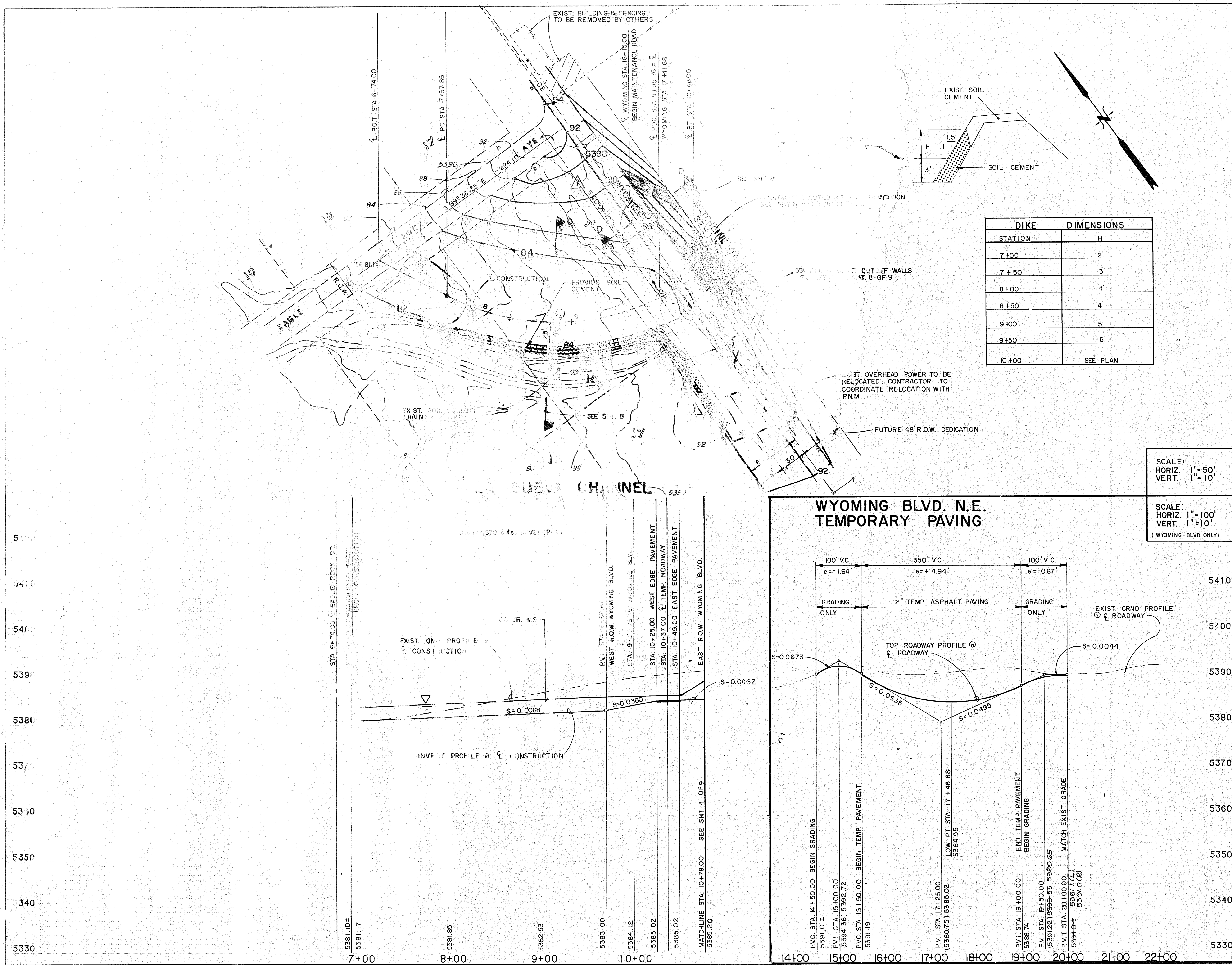
C-19

GENERAL NOTES

- All work detailed on these plans to be performed under contract, unless stated otherwise or provided for herein, shall be constructed in accordance with the City of Albuquerque Standard Specifications, Public Works Construction, 1987 (referred herein as "Standard Specification").
- Two (2) working days prior to any excavation, Contractor must contact line locating service, 765-1234, for location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay.
- All work on this project shall be performed in accordance with applicable Federal, State and Local laws, rules, and regulations concerning construction safety and health.
- Contractor shall maintain access to adjacent properties during construction.
- All gas, electric, telephone lines, cables, and appurtenances encountered during construction that require relocation, shall be done by the responsible utility. Contractor shall be responsible for coordination of all necessary utility adjustments.
- It will be the Contractor's responsibility to protect and maintain in service all existing utilities.
- The Contractor will be required to confine his work within the construction limits and/or public right-of-way to preserve existing vegetation and private property. Overnight parking of construction equipment shall not obstruct driveways or designated traffic lanes.
- A disposal site for all excess excavation material, asphaltic paving, concrete curbs and sidewalks, etc., shall be obtained by the Contractor in compliance with applicable environmental regulations and approved by the Field Engineer. All costs incurred in obtaining a disposal site and haul thereto shall be considered incidental to the project and no separate measurement or payment shall be made.
- All trench backfill shall be compacted to a minimum 90% maximum density as per ASTM D-1557.
- Contractor shall notify the A.M.A.F.C.A. field engineer 48 hours prior to construction.
- Contractor is required to obtain a topsoil disturbance permit prior to any earth work operations.
- The Geotechnical Engineering evaluation of La Cueva Channel Crossing, prepared by Western Technologies, Job No. 3227JQ33, is hereby made a part of the contract documents.

NO. SHEETS	DATE	USER	DEPT	DATE	USER	DEPT	DATE
APPROVAL OF REVISIONS							
ENGINEER'S SEAL		ESPEY, HUSTON & ASSOC., INC. Engineers • Planners • Surveyors 317 Commercial Street NE Albuquerque, New Mexico 87102 (505) 242-1900		APPROVED FOR CONSTRUCTION			
		PROJECT NUMBER		SHEET		OF	
5-12-87		8030-14		1		9	

08 003 0187 08-003-87



DIKE DIMENSIONS	
STATION	H
7+00	2'
7+50	3'
8+00	4'
8+50	4'
9+00	5'
9+50	6'
10+00	SEE PLAN

SCALE:
HORIZ. 1"=50'
VERT. 1"=10'

SCALE:
HORIZ. 1"=100'
VERT. 1"=10'
(WYOMING BLVD. ONLY)

- LEGEND**
- 92 EXISTING CONTOURS
 - 88 PROPOSED CONTOURS
 - ROCK RIP-RAP
 - PROPOSED TEMPORARY PAVEMENT
 - GUY
 - SIGN
 - POWER POLE
 - OVERHEAD ELECTRIC
 - MAINTENANCE ROAD
 - SOIL CEMENT

ESPEY,
HUSTON &
ASSOCIATES, INC.
Engineering & Environmental Consultants
317 COMMERCIAL ST. N.E.
ALBUQUERQUE, NEW MEXICO 87102
PHONE: (505) 242-1909

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY			
TITLE: LA CUEVA ARROYO CHANNEL IMPROVEMENTS STA. 6+74.00 TO STA. 10+78.00			
APPROVALS	ENGINEER	DATE	APPROVALS
D.R.C. Chair			AMAFCA
Trans. Dev			
Utility Dev			
DESIGNED BY	R.H.S.	DATE	4/87
DRAWN BY	E.L.S., M.E.C.	DATE	4/87
CHECKED BY	D.A.L.	DATE	4/87

CURVE DATA			
Curve No.	Delta	Radius	Length
1.	53°18'33"	260.00'	241.91'
2.	10°11'26"	260.00'	46.24'
TANGENT BEARINGS AND DISTANCES			
Course No.	Bearing	Distances	
T1	S26°20'50"E	83.85'	
T2	S89°50'50"E	32.00'	
AS BUILT INFORMATION			
CONTRACTOR	TWIN MOUNT. ROCK CO.	DATE	87
INSPECTOR	EH#4	DATE	87
VERIFICATION BY	EH#4	DATE	87
VERIFICATION BY	EH#4	DATE	87
RECORDED BY	NO	DATE	
STAMPED "1-BQ" SET IN TOP OF A CONCRETE POST PROJECTING 0.1 FEET ABOVE GROUND. MSLD ELEVATION = 5474.53'			

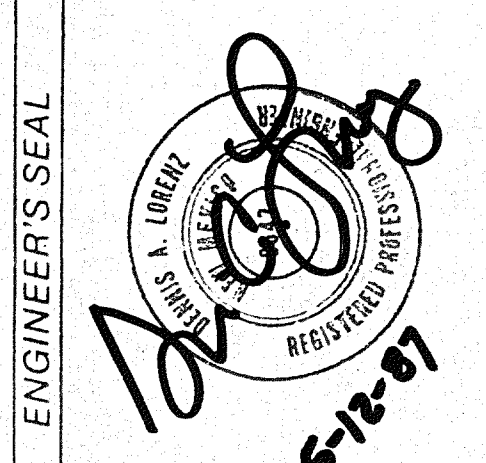
RECORD DRAWING

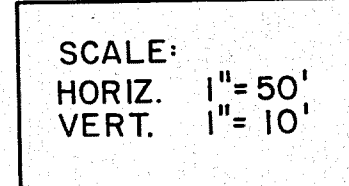
This drawing as modified shows public improvements as constructed. These modifications have been made using information and measurements obtained by E.H.A. modifications conform to the minimum requirements for record drawing criteria as required by the City of Albuquerque per Development Projects Manual Section 29.4 to the best of my knowledge and belief.

Dennis A. Lorenz P.E. 964

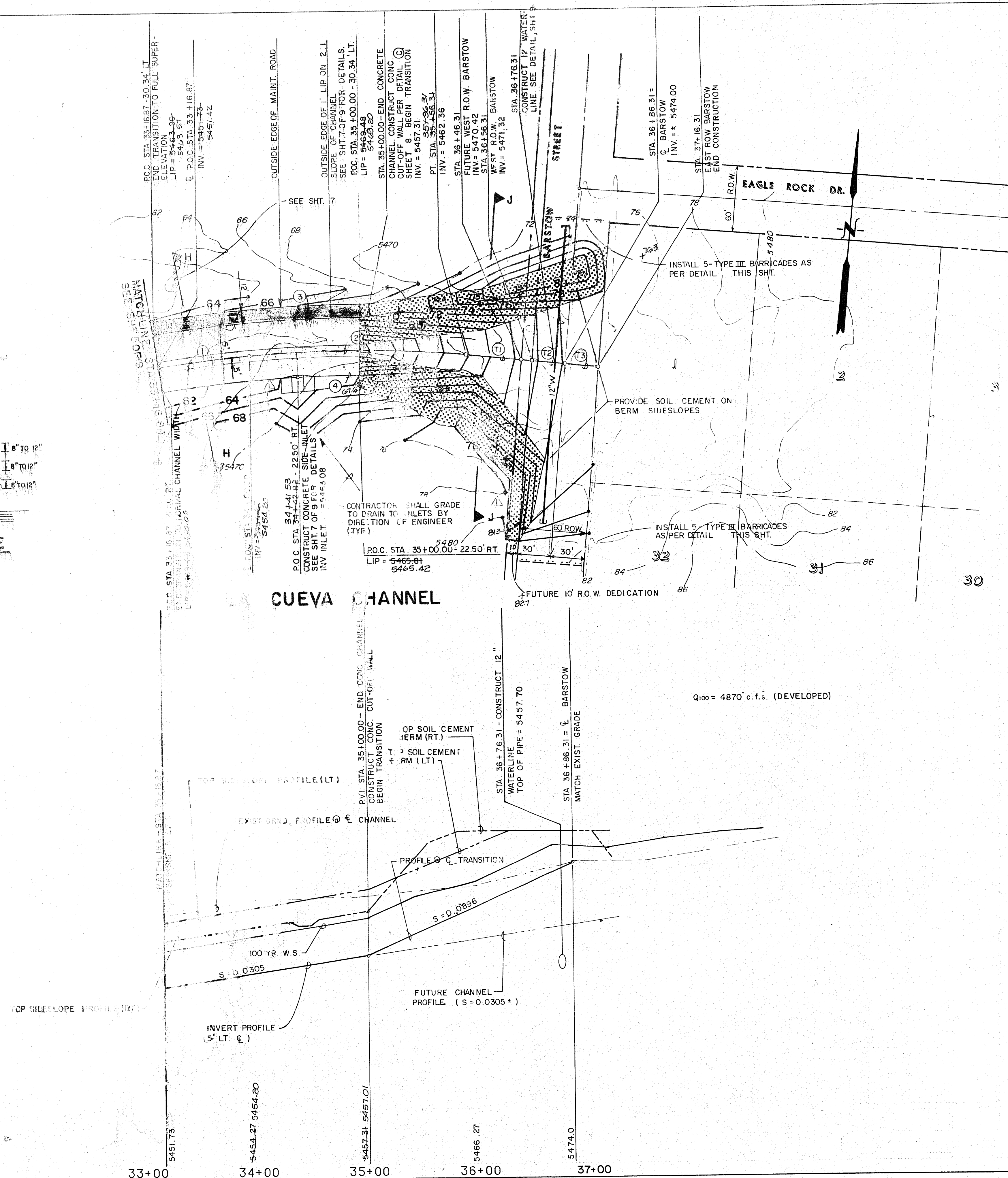
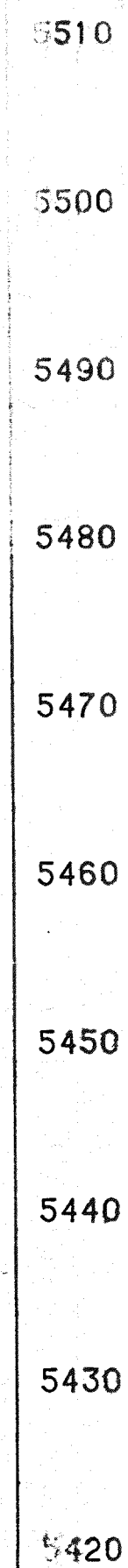
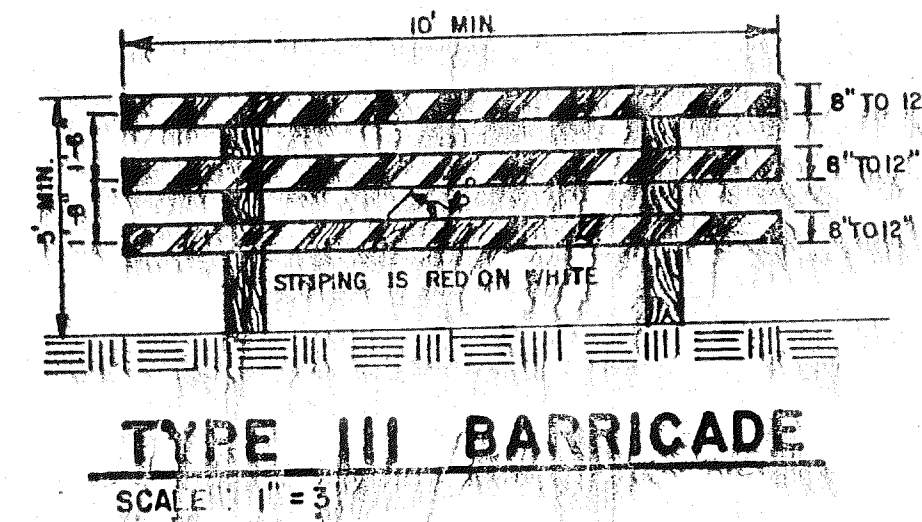
8-28-87

SURVEY INFORMATION		BENCH MARKS	
FIELD NOTES	DATE	THE STATION IS LOCATED 9 MILES NORTHEAST OF DOWNTOWN ALBUQUERQUE, TO BE REACHED FROM THE INTERSECTION OF LOUISIANA BLVD. AND LOS ANGELES DRIVE, GO EAST ON LOS ANGELES DRIVE 10 MILES TO BARSTOW ST., THEN NORTH ON BARSTOW ST. 10 MILES TO ALAMEDA AVE. THE STATION IS LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION. THE STATION MARK IS A STANDARD ACS BRASS TABLET STAMPED "1-BQ", SET IN TOP OF A CONCRETE POST PROJECTING 0.1 FEET ABOVE GROUND. MSLD ELEVATION = 5474.53'	
NO.	BY		





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



SCALE:
HORIZ. 1"=50'
VERT. 1"=10'

CURVE DATA			
#	DELTA	RADIUS	LENGTH
1	04°19'49"	1100.00'	83.13'
2	10°13'29"	1100.00'	196.30'
3	14°33'18"	1130.34'	287.14'
4	14°33'18"	1077.50'	273.72'

TANGENT BEARINGS & DISTANCES			
Course No.	Bearing	Distance	TANGENT
T1	S89°50'44"E	90.00'	41.59'
T2	S89°50'44"	40.00'	98.41'
T3	S89°50'44"	30.00'	144.35'

RECORD DRAWING

This drawing as modified shows public improvements as constructed. These modifications have been made using information and measurements obtained by E&H's field survey team. The modifications are shown in red ink. All dimensions conform to the minimum requirements for record drawings as required by the City of Albuquerque per Engineering Department Section 27-4 to the best of my knowledge and belief.

Dennis A. Lorenz
Dennis A. Lorenz P.E. 9547
Date _____

AS BUILT INFORMATION

CONTRACTOR: TWIN MOUNT ROAD CO.
WORK STARTED BY: EHA A DATE: 8/7
FIELD ACCEPTANCE BY: EHA A DATE: 8/7
CORRECTED BY: EHA A DATE: 8/7
MICRO-FILM INFORMATION
RECORDED BY: NO

LEGEND

- 86— EXIST. CONTOURS
- 82— PROPOSED CONTOURS
- [Pattern] PROPOSED CONCRETE
- [Pattern] MAINTENANCE ROAD
- [Pattern] SOIL CEMENT

ENGINEER'S SEAL

SURVEY INFORMATION		BENCH MARKS	
NO.	BY	DATE	THE STATION IS LOCATED 9 MILES NORTHEAST OF DOWNTOWN ALBUQUERQUE TO REACH THE STATION FROM THE INTERSECTION OF LOUISIANA BLVD. AND LOS ANGELES DRIVE, GO EAST ON LOS ANGELES DRIVE 10 MILES TO BARSTON ST., THEN NORTH ON BARSTON ST. 10 MILES TO ALAMEDA AVE. THE STATION IS LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION. THE STATION MARK IS A STANDARD ACS BRASS TABLE STAMPED "L-820", SET IN TOP OF A CONCRETE POST PROJECTING 0.1 FEET ABOVE GROUND.
			WSLD ELEVATION = 5474.33'

ESPEY, HUSTON & ASSOCIATES, INC.
Engineering & Environmental Consultants
317 COMMERCIAL ST. N.E.
ALBUQUERQUE, NEW MEXICO 87102
PHONE: (505) 242-1909

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

TITLE: LA CUEVA ARROYO CHANNEL IMPROVEMENTS STA. 33 +16.87 TO STA. 37+16.31

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans Dev					
Utility Dev					

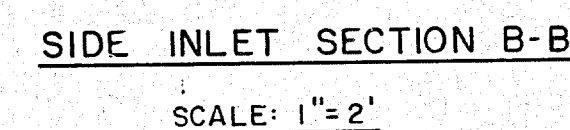
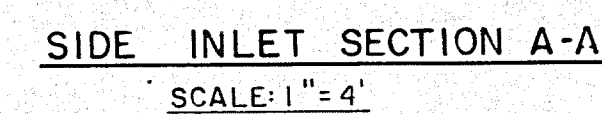
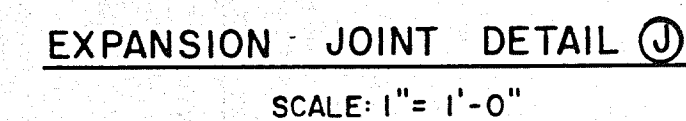
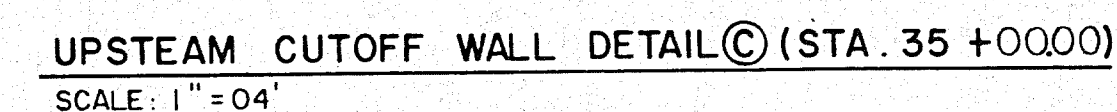
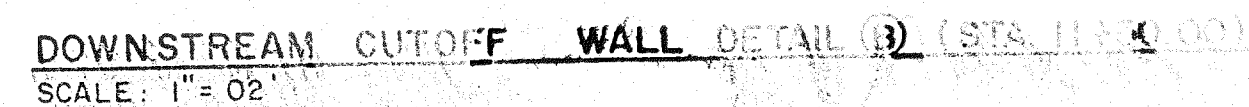
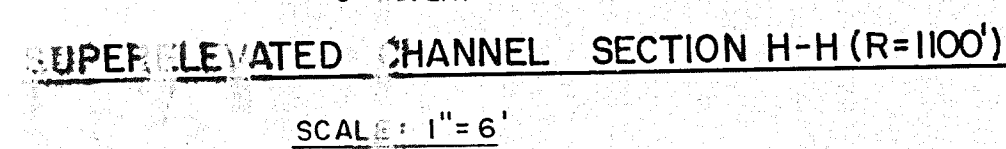
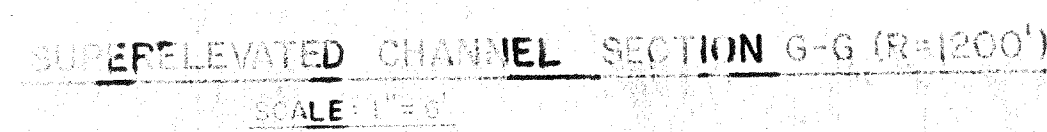
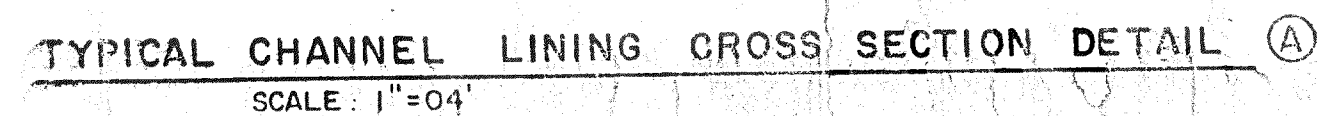
A.M.A.F.C.A. *Luis O. Albi* 8/22/07

DESIGN		REVISIONS	
DESIGNED BY R.H.S.	DATE 4/87	NO.	DATE
DRAWN BY E.L.S./B.M.E.C.	DATE 4/87		
CHECKED BY D.L.	DATE 4/87		

DRAWING NO.		MAP NO.		SHEET		OF	
8030-14		C - 19		6		9	

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

08 003 0687



AS BUILT	INFORMATION
CONTRACTOR	
WORK	DATE
INSPECTOR'S	DATE
APPROVED BY	DATE
REVISIONS	DATE
CORRECTED BY	DATE
RECORDED BY	DATE
0	
MICRO-FILM INFORMATION	

BENCH MARKS	CC
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	IN
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[illegible]

Professional Engineer Seal for the State of Florida, No. 12542, signed by David J. Smith, dated 5-12-07.

[illegible]

**ESPEY,
HUSTON &
ASSOCIATES, INC.**
Engineering & Environmental Consultants

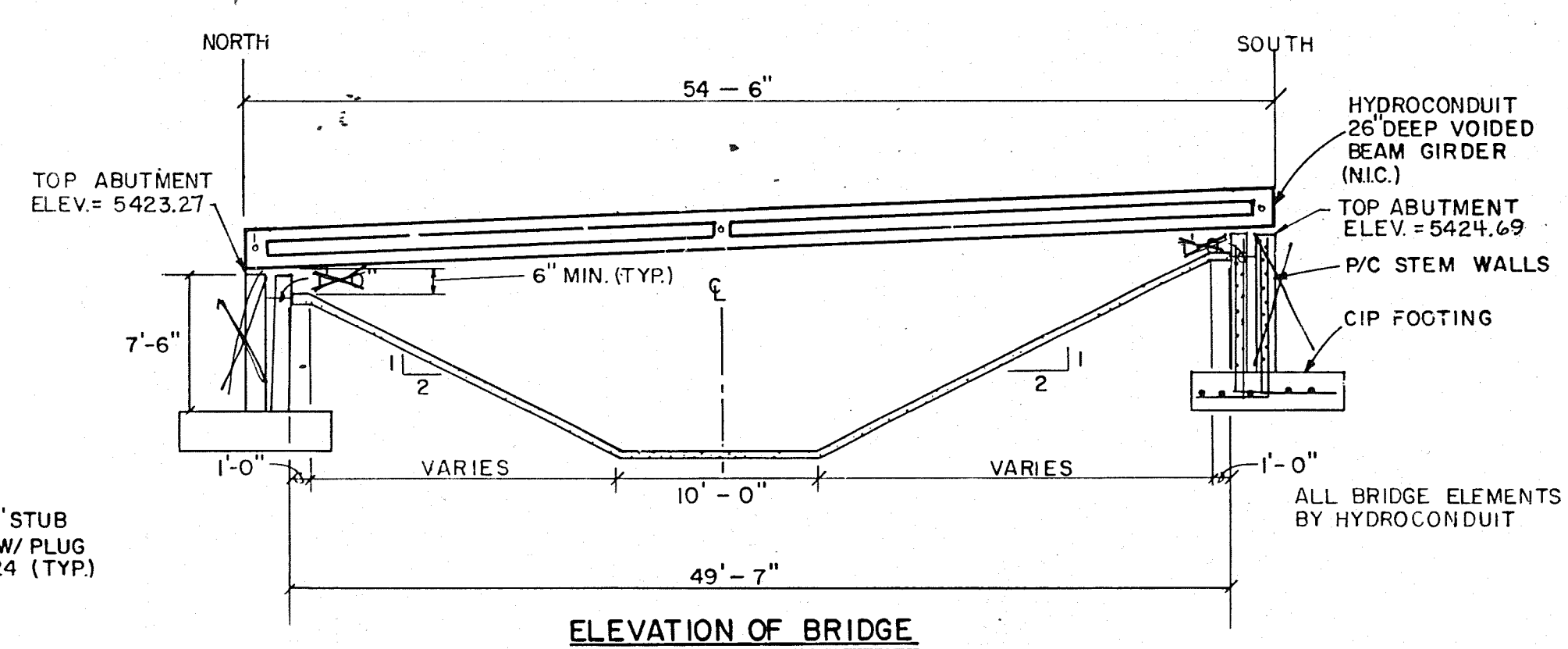
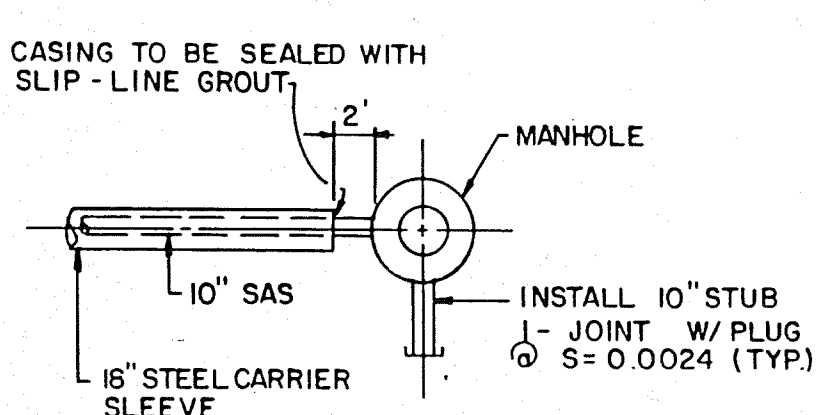
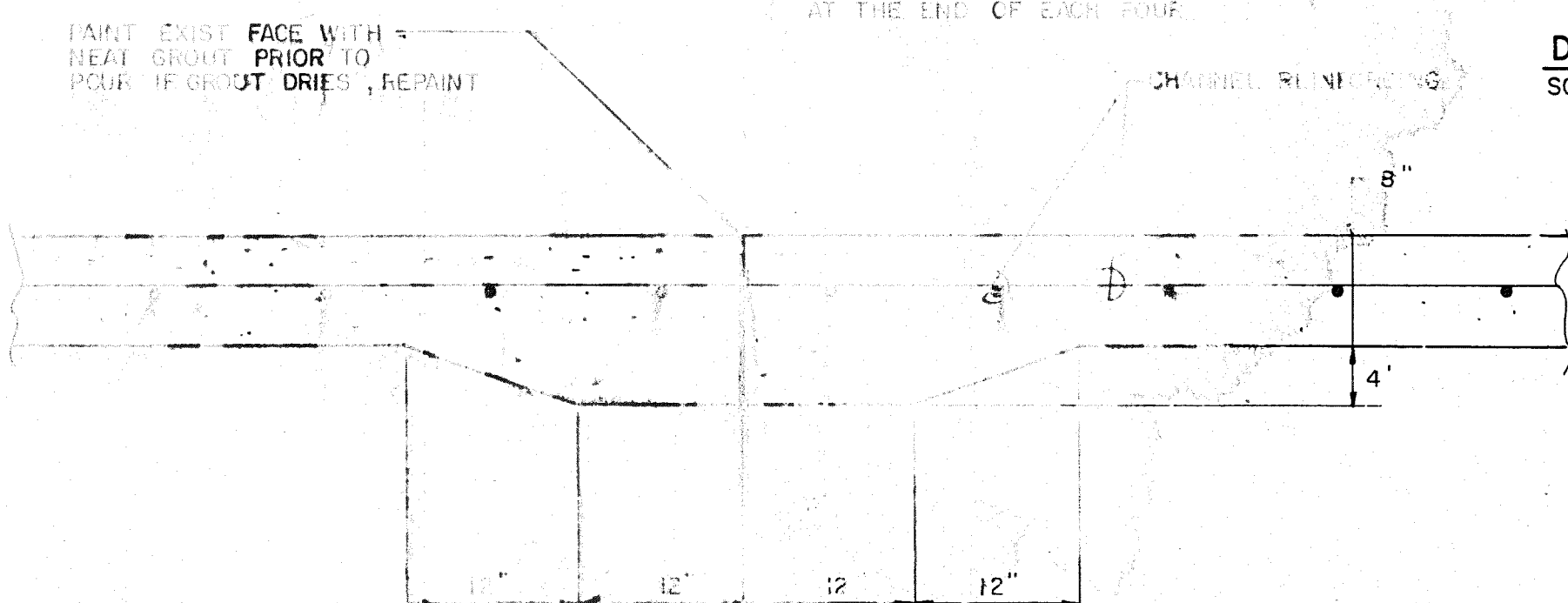
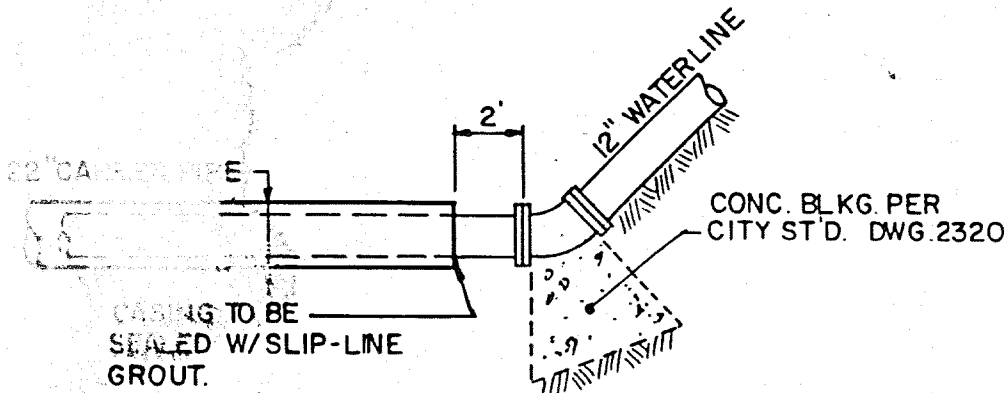
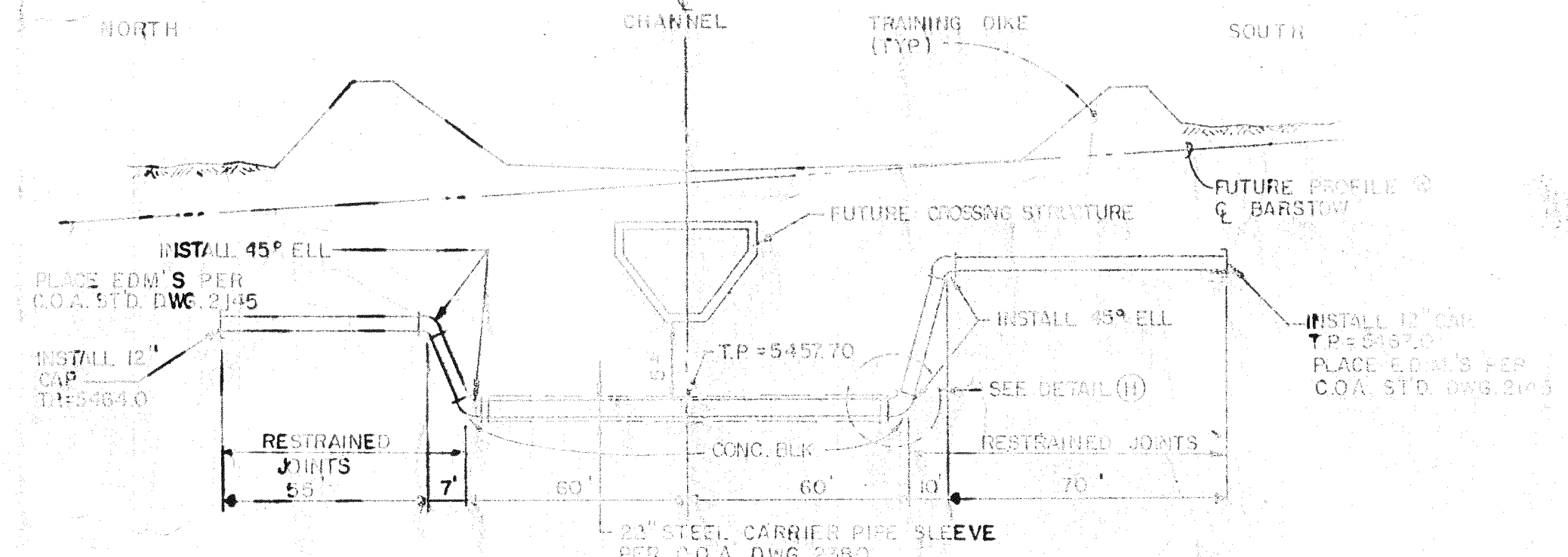
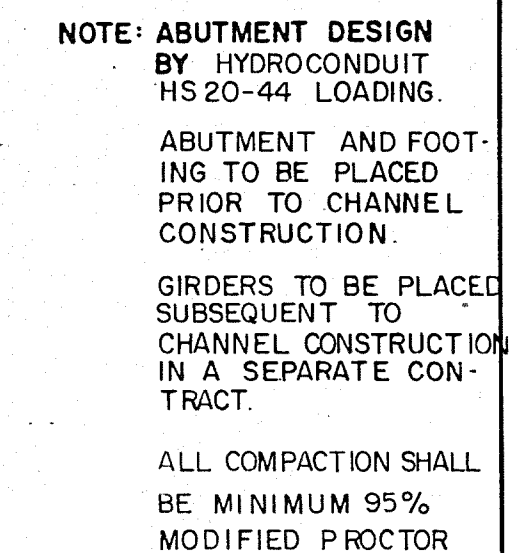
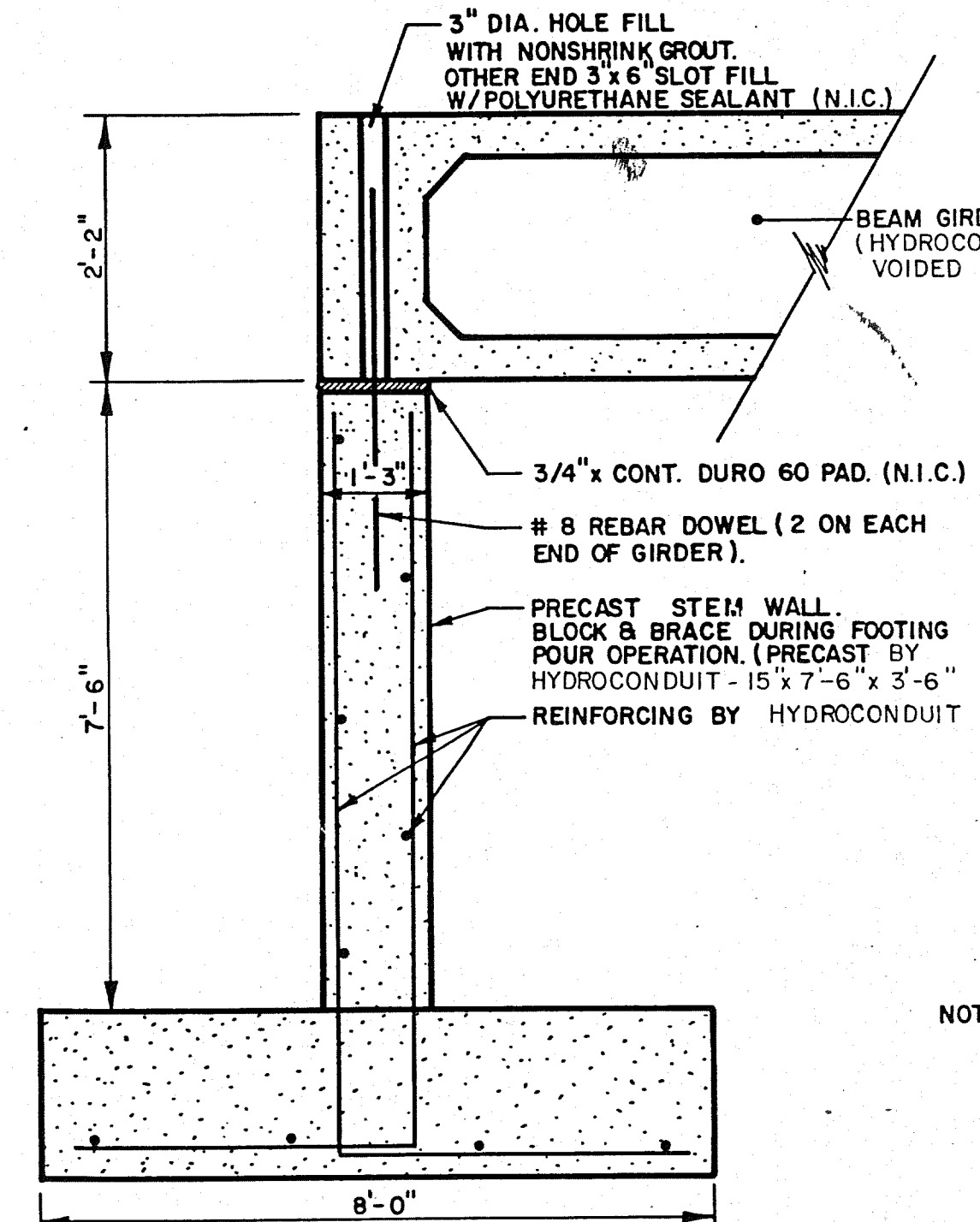
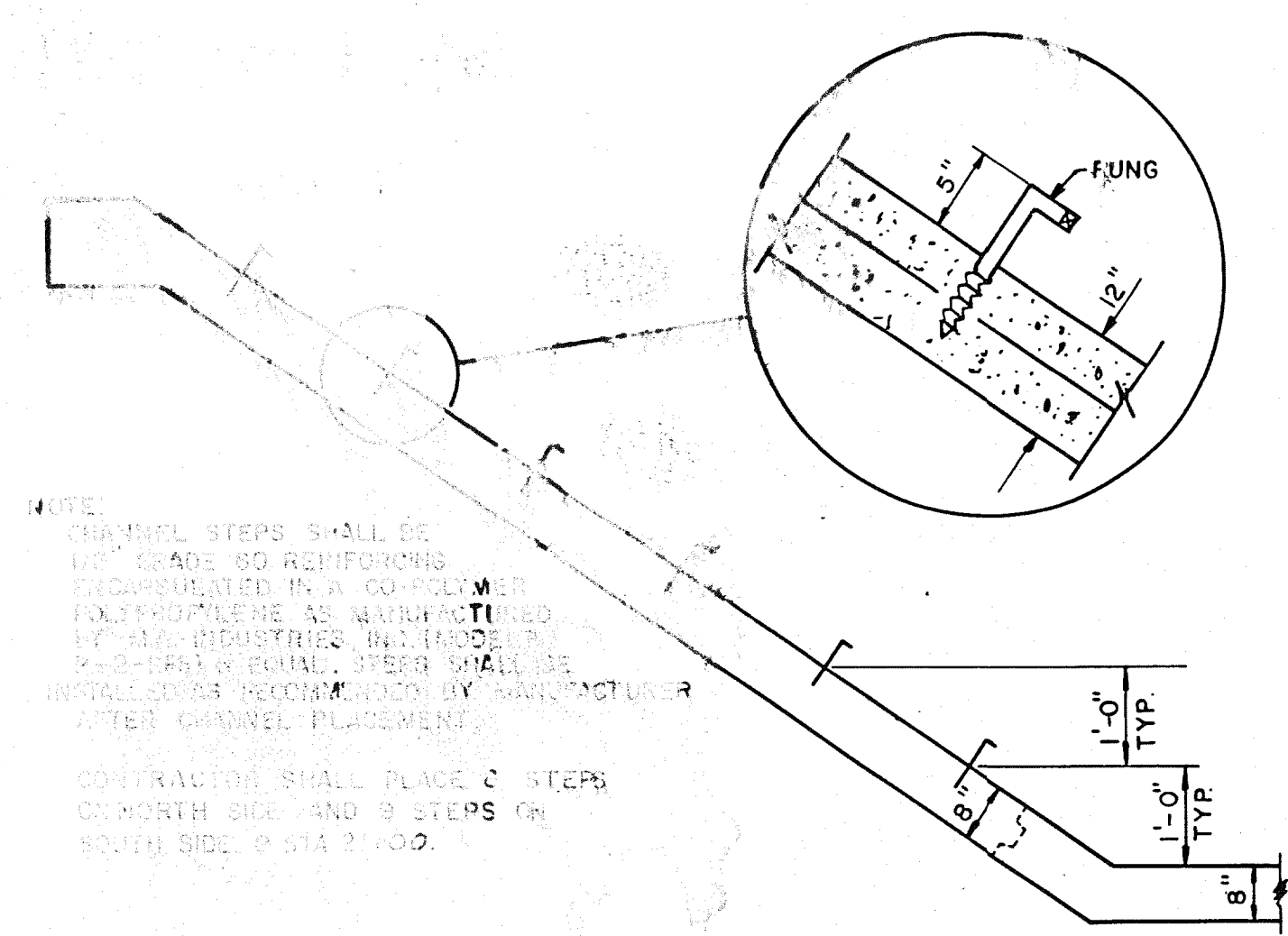
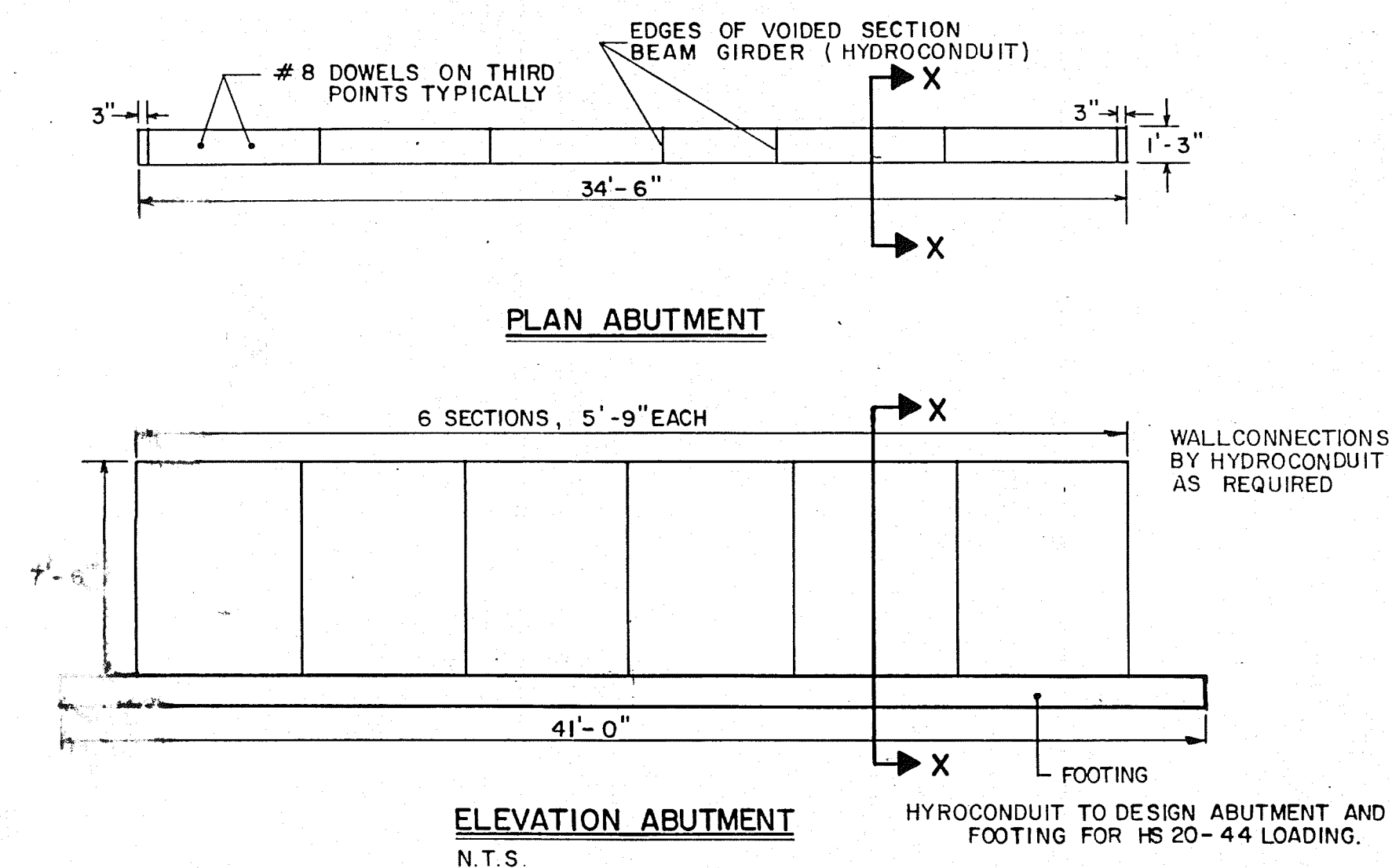
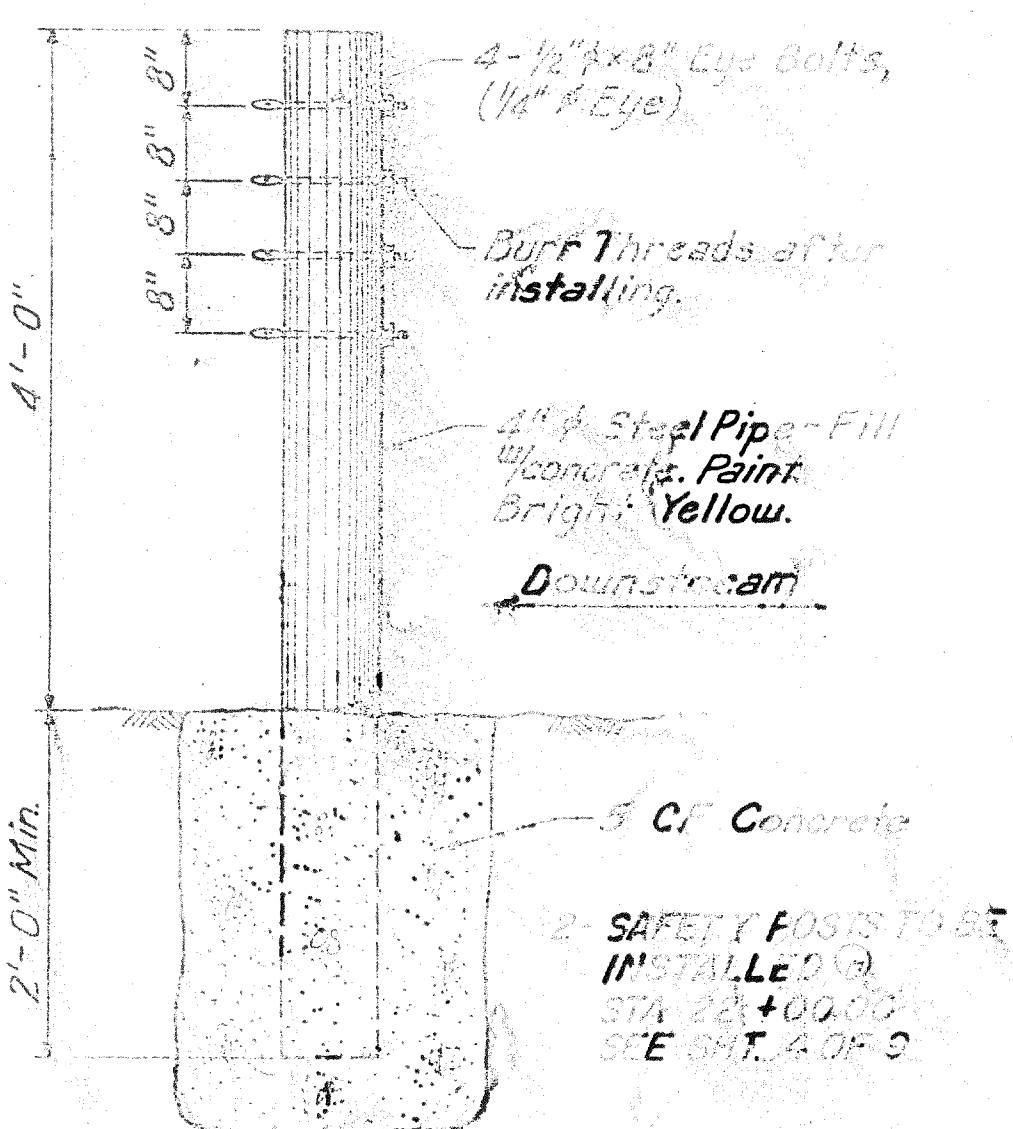
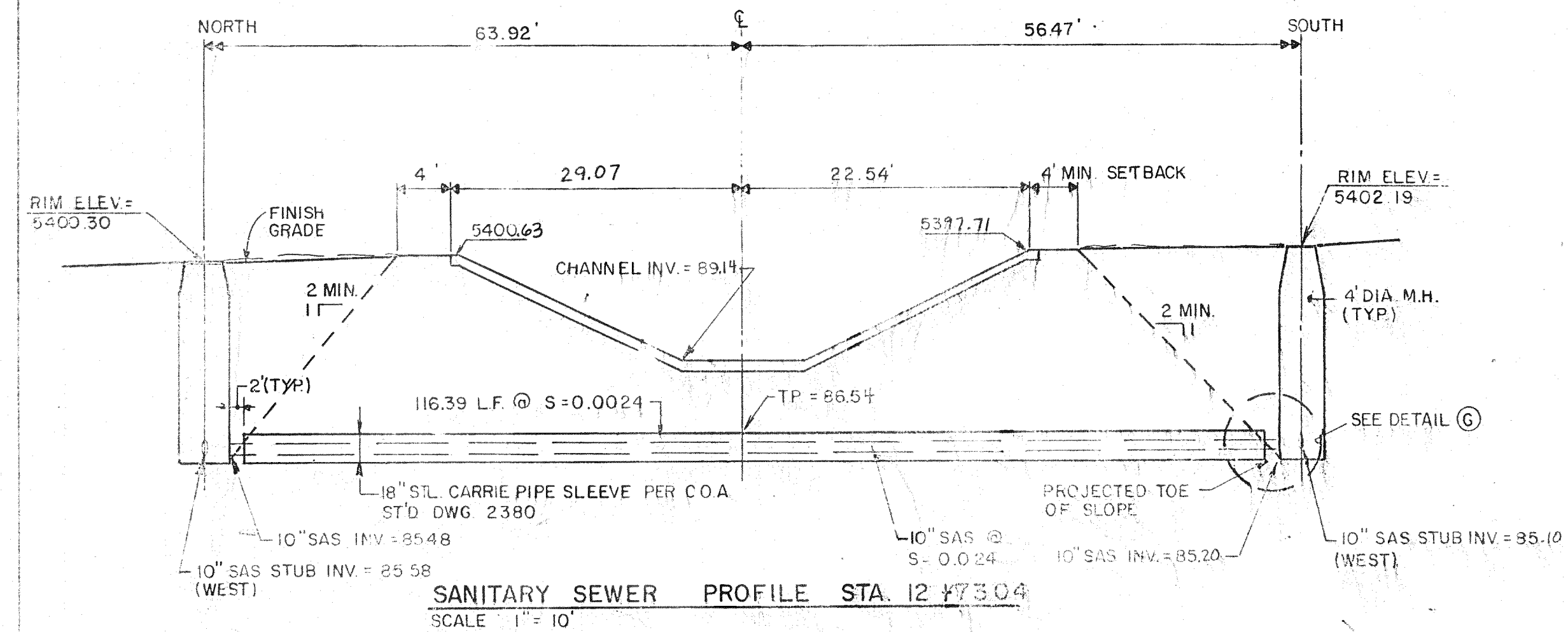
**317 COMMERCIAL ST. N.E.
ALBUQUERQUE, NEW MEXICO 87102
PHONE: (505) 242-1909**

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY					
TITLE: LA CUEVA ARROYO CHANNEL IMPROVEMENTS DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

Long O. Allen 28 May 87

DRAWING NO.	MAP NO.	SHEET	OF
8030 - 14	C-19	7	9

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NOTE: CONTRACTOR SHALL REFERENCE THE
GEOTECHNICAL ENGINEERING
EVALUATION OF LA CUEVA CHANNEL
CROSSING, PREPARED BY WESTERN
TECHNOLOGIES JOB NO. 3227JO33,
FOR PLACEMENT OF BRIDGE
ABUTMENTS

[illegible]

**ESPEY,
HUSTON &
ASSOCIATES, INC.**
Engineering & Environmental Consultants

**317 COMMERCIAL ST. N.E.
ALBUQUERQUE, NEW MEXICO 87102
PHONE: (505) 242-1909**

ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

TITLE: LA CUEVA ARROYO CHANNEL IMPROVEMENTS DETAILS						
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE	
City Engineer			Liquid Waste			
A C E - Design			Traffic			
A C E -Hydrology			Water			
			30.07.05			
DRAWING NO.		MAP NO.		SHEET OF		
8030-14		C-19		9 9		

DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E -Hydrology	<i>2014</i>		Water		

DRAWING NO.	8030-14	MAP NO.	C-19	SHEET	9	OF	9
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