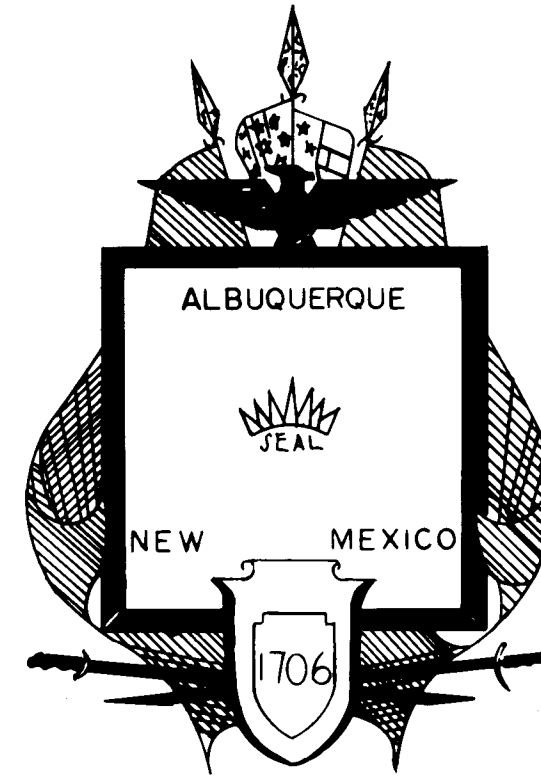
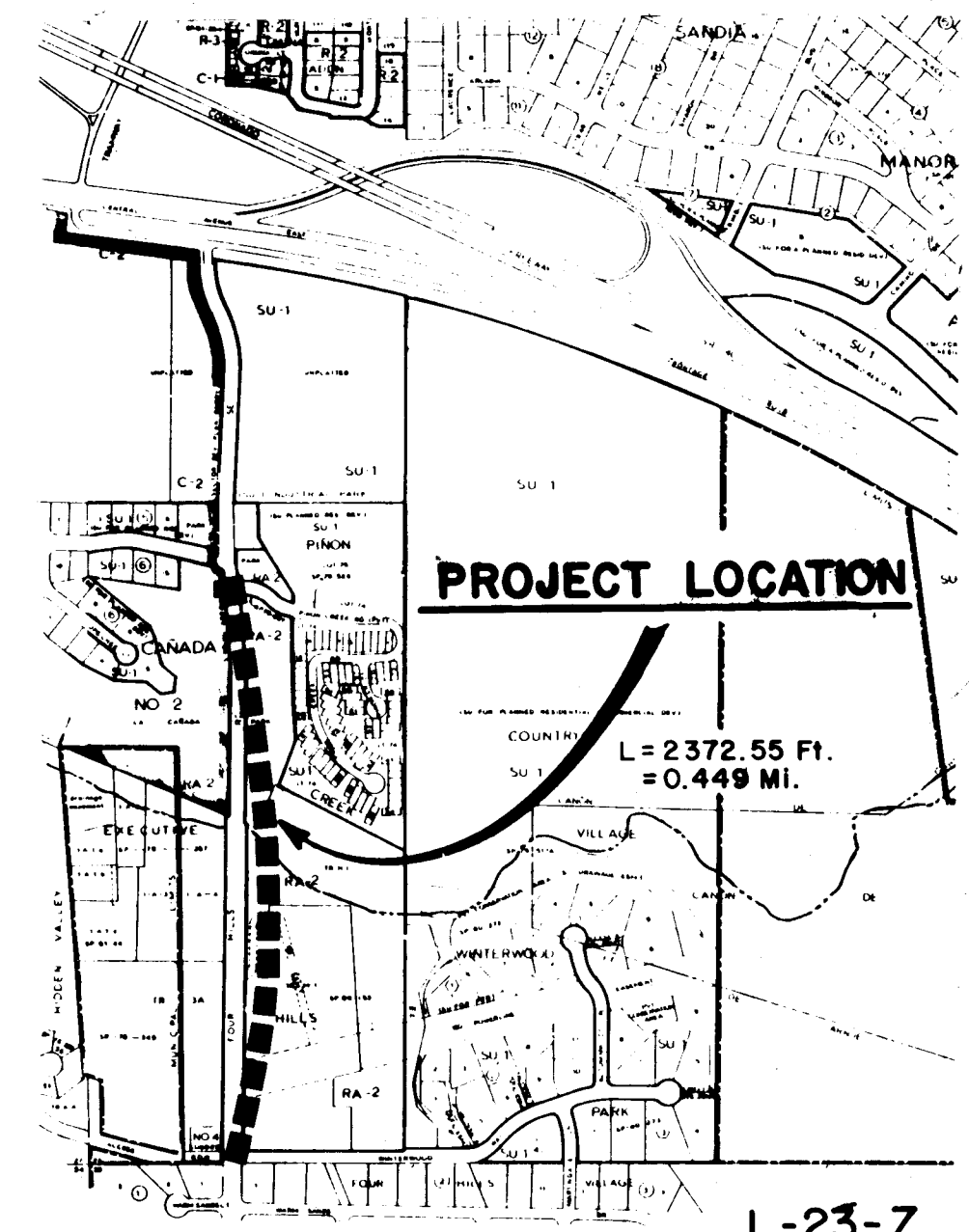




CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT

PLANS FOR CONSTRUCTION OF

TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD



VICINITY MAP

NOTICE TO CONTRACTORS

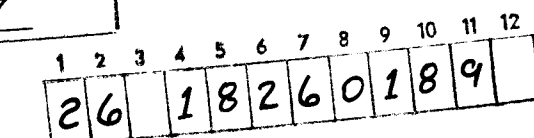
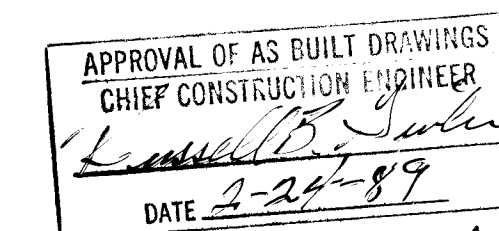
1. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the City of Albuquerque Interim Standard Specifications for Public Works Construction 1985.
2. Two (2) working days prior to any excavation, the contractor must contact Line Locating Service, 765-1234 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 so that the conflict can be resolved with minimum amount of delay.

INDEX TO SHEETS

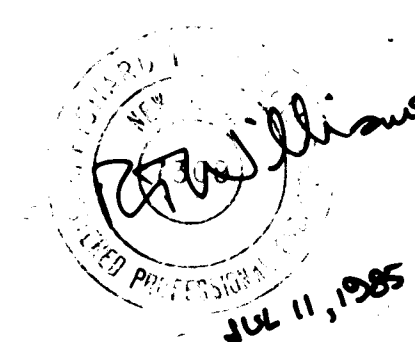
SHEET NO.	DESCRIPTION
C-1	TITLE SHEET
C-2	LAYOUT MAP AND TYPICAL ROADWAY SECTION
C-3 TO C-8	PLAN AND PROFILE
C-9	CONSTRUCTION PHASING PLAN
C-10	RIGHT OF WAY MAP
C-11 TO C-22	CROSS-SECTIONS
S-1	SUMMARY OF QUANTITIES
S-2	FOUNDATIONS & GRADING PLAN
S-3 THRU S-12	BRIDGE
S-13	REINFORCING BAR SCHEDULE
RI THRU RIO	FOUR HILLS ROAD ALIGNMENT

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 with the curb returns shall be constructed wherever a new curb return is constructed.
- ☐ If curb is depressed for a driveway or a handicap ramp, the driveway or ramp shall be constructed prior to acceptance of the curb and gutter.
- ☒ All storm drainage facilities shall be completed prior to final acceptance.



REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE
APPROVAL OF REVISIONS									



APPROVED FOR
CONSTRUCTION

A/E 83-32 PROJECT 1826

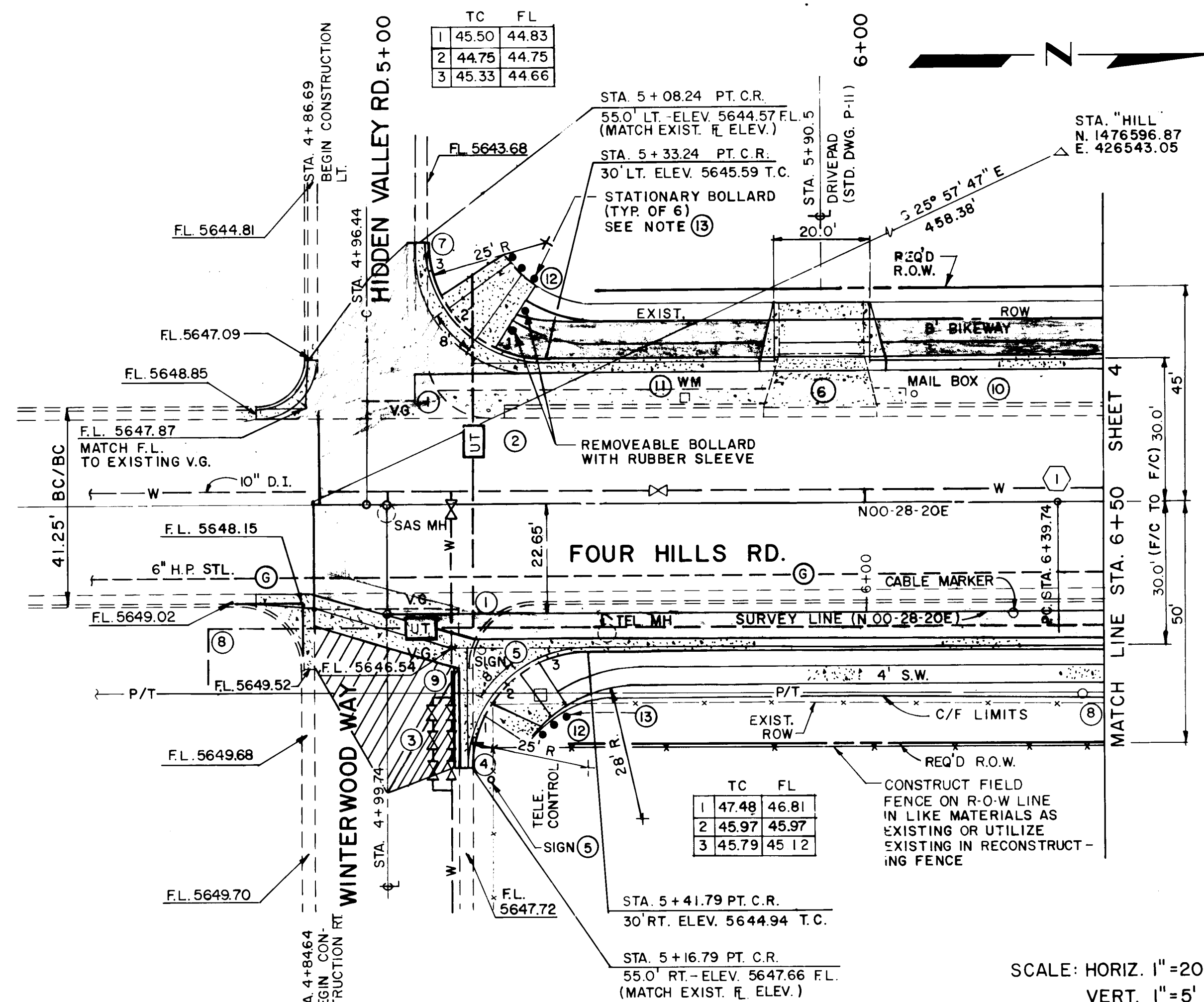
SHEET 1 OF 39

GENERAL NOTES

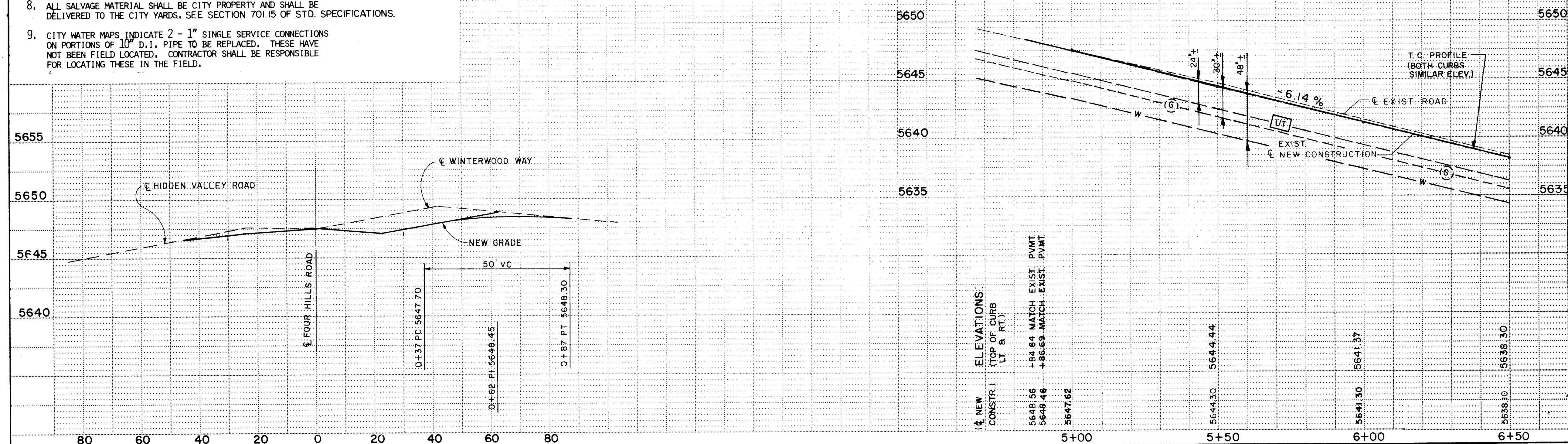
1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1985 EDITION, AND THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 765-1234, 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 SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
4. DURING THE MONTHS OF JULY, AUGUST, OR SEPTEMBER, ANY GRADING WITHIN OR ADJACENT TO A WATERCOURSE DEFINED AS A MAJOR FACILITY SHALL PROVIDE FOR EROSION CONTROL AND THE SAFE PASSAGE OF THE 16-YEAR DESIGN STORM RUNOFF DURING THE CONSTRUCTION PHASE.
5. CONTRACTOR'S WORK IS TO BE STRICTLY LIMITED TO RIGHT OF WAY AND CONSTRUCTION EASEMENT. ACCESS WILL BE CONTROLLED INTO AND OUT OF THE CONSTRUCTION SITE BY THE CITY FIELD ENGINEER AND/OR CITY INSPECTOR.
6. CONCRETE MATERIALS SPECIFIED FOR REMOVAL SHALL BE DISPOSED OF BY THE CONTRACTOR AND COST SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
7. UTILITY NOTES:
WATER
A. WATER LINE OUTAGES SHALL BE SCHEDULED SO AS TO NOT OCCUR DURING THE SUMMER MONTHS.
B. ALL SALVAGE MATERIALS SHALL BE CITY PROPERTY AND SHALL BE DELIVERED TO THE CITY YARDS. SEE SECTION 701.15 OF STD. SPECIFICATIONS.
C. WATER LINE MATERIALS SHALL CONFORM TO SECTION 700 OF THE STANDARD SPECIFICATIONS.
D. RIGID JOINTS SHALL BE INSTALLED ON THE BRIDGE CROSSING.
E. WHERE PIPE MUST PENETRATE CONCRETE, STEEL PIPE SLEEVES (OF AT LEAST 2 INCHES GREATER I.D. THAN PIPE O.D.) SHALL BE INSTALLED, WITH THE ANNUAL SPACE GROUT FILLED.
TELEPHONE
UNDERGROUND TELEPHONE LINES TO BE RELOCATED BY MOUNTAIN BELL. CONTRACTOR SHALL COORDINATE HIS WORK WITH THIS RELOCATION.
POWER LINES
OVERHEAD POWER LINES AND POLES TO BE RELOCATED BY P.-N.M. CONTRACTOR SHALL COORDINATE HIS WORK WITH THIS RELOCATION.
GAS
UNDERGROUND GAS LINE TO BE RELOCATED BY GAS CO. OF N.M. CONTRACTOR SHALL COORDINATE HIS WORK WITH THIS RELOCATION.
☒ 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 OR HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
8. ALL SALVAGE MATERIAL SHALL BE CITY PROPERTY AND SHALL BE DELIVERED TO THE CITY YARDS. SEE SECTION 701.15 OF STD. SPECIFICATIONS.
9. CITY WATER MAPS INDICATE 2 - 1" SINGLE SERVICE CONNECTIONS ON PORTIONS OF 10" D.I. PIPE TO BE REPLACED, THESE HAVE NOT BEEN FIELD LOCATED, CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THESE IN THE FIELD.

LEGEND

DESCRIPTION	NEW	EXISTING
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
STORM DRAIN LINE		
STORM DRAIN MANHOLE		
STORM DRAIN INLETS		
WATER LINE		
GATE VALVE		
TEES		
BENDS		
CAPS & PLUGS		
CURB & GUTTER		
SIDEWALKS		
ASPHALT PAVING		
VALLEY GUTTER		
GAZ LINE		
UNDERGROUND TELEPHONE		
POWER OR TELEPHONE POLE		
BLOCK WALL		
CHAIN LINK FENCE		
FIELD FENCE		
FILL SLOPE		
CUT SLOPE		
SWALE		
RIGHT OF WAY LINES		
CENTER LINE		
TELEPHONE LINE		
GUARD RAIL		
LIMIT PAVEMENT REMOVED		



SCALE: HORIZ. 1"=20'
VERT. 1"=5'



1 CURVE DATA

P.I. = STA. 7+14.74
(P.I. = SURVEY LINE
STA. 7+14.74, 22.65' LT.)

R = 2400.85'
Dc = 2° 23' 11"
L = 149.95'
T = 75.00'
Δ = 3° 34' 42"

NOTES:

- ① REMOVE EXISTING VALLEY GUTTER.
- ② REMOVE EXISTING ASPHALT PAVEMENT AND CONCRETE CURB & GUTTER.
- ③ EXISTING UNDERGROUND WATER PRESSURE REDUCING STATION - DO NOT DISTURB.
- ④ IN LAST QUARTER OF CURB RETURN, TRANSITION FROM "STANDARD CURB & GUTTER" TO "MOUNTABLE CURB (ROLL TYPE)" (STD. DWG. P-8).
- ⑤ REMOVE AND REPLACE STOP/STREET SIGN AS DIRECTED BY TRAFFIC ENGINEER.
- ⑥ REMOVE EXISTING CONCRETE DRIVEPAD AND SIDEWALK.
- ⑦ IN LAST QUARTER OF CURB RETURN, TRANSITION FROM "STANDARD CURB & GUTTER" TO "GUTTER AT DRIVEPAD" (STD. DWG. P-8). PROVIDE 1/2" EXPANSION JOINT AT POINT 3.
- ⑧ UNDERGROUND TELEPHONE AND OVERHEAD POWER LINE TO BE RELOCATED BY MOUNTAIN BELL AND PNM.
- ⑨ CONSTRUCT TOP OF OUTER EDGE OF VALLEY GUTTER TO MATCH EXISTING PAVEMENT ON WINTERWOOD WAY. CONSTRUCT VALLEY GUTTER PER STD. DWG. P-9.
- ⑩ RESET MAILBOX BEHIND LIMITS OF CONSTRUCTION. THIS ITEM IS INCIDENTAL TO THE WORK AND NO SEPARATE PAYMENT WILL BE MADE THEREFORE.
- ⑪ WATER METER TO BE RELOCATED BY CONTRACTOR TO LOCATION DESIGNATED BY THE CITY.
- ⑫ CONSTRUCT WHEEL CHAIR RAMP PER STD. DWG. P-17, CASE II.
- ⑬ FURNISH AND INSTALL BOLLARDS PER STD. DWG. K-22. SPACE AT 4'-6" O.C.

1	2	3	4	5	6	7	8	9	10	11
26			18	26	03	89				



BOVAY ENGINEERS, INC.
ALBUQUERQUE
HOUSTON • SPOKANE • AUSTIN • BATON ROUGE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD

PLAN & PROFILE Sta. 4+84.69 to 6+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/86	Liquid Waste	<i>NA. R. Peña</i>	9/11/86
A-C-E - Design	<i>[Signature]</i>	6/24/86	Traffic	<i>[Signature]</i>	6/24/86
A-C-E - Hydrology	<i>[Signature]</i>	6/24/86	Water	<i>NA. R. Peña</i>	9/11/86

DRAWING NO. 1826	MAP NO. L-23-Z	SHEET C-3 OF 39
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1 CURVE DATA

P.I. = STA. 7+14.74
 (P.I. = SURVEY LINE
 STA. 7+14.74, 22.65' LT.)

R = 2400.85'
 Dc = 2° 23' 11"
 L = 149.95'
 T = 75.00'
 Δ = 3° 34' 42"

2 LEFT CURB
CURVE DATA

R = 1150.00'
Dc = 4° 59' 56"
L = 108.31'
T = 54.20'
Δ = 5° 23' 46"

NOTES:

- ① REMOVE EXISTING ASPHALT PAVEMENT AND CON-
CRETE CURB & GUTTER.
- ② UNDERGROUND TELEPHONE AND OVERHEAD POWER
LINES TO BE RELOCATED BY MOUNTAIN BELL AND
P&M.
- ③ REMOVE ABANDONED SEGMENT OF 6" STEEL GAS
LINE BETWEEN STATIONS 9+50 AND 13+50.
WORK TO BE COORDINATED BY CONTRACTOR
WITH THE GAS COMPANY.
- ④ ALL DISTURBED AREAS NOT TO BE
PAVED SHALL BE SEEDED.

1	2	3	4	5	6	7	8	9	10	11
26	18	26	04	89						



BOVAY ENGINEERS, INC
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD

PLAN & PROFILE Sta. 6+50 to 11+10

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/86	Liquid Waste	N.A. Kline	6/11/86
A.C.E. - Design	<i>[Signature]</i>	6/24/86	Traffic	<i>[Signature]</i>	6/24/86
A.C.E. - Hydrology	<i>[Signature]</i>	6/24/86	Water	N.A. Kline	6/11/86

DRAWING NO.	1826
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MAP NO.	L-23-Z
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SHEET C-4 OF 39

	BENCH MARKS	AS BUILT INFORMATION
	B. M. 7-1-23 E.L. 5860.39	CONTRACTOR
	STA. 14+58.08 SURVEY LINE 2.25' L.T.	INSPECTOR'S STAKED BY DATE
	A SQUARE CHISELED ON TOP OF CONCRETE CURB	FIELD DISTANCE BY DATE
		VERIFICATION BY DATE
		CORRECTIONS CORRECTED BY DATE
		MICRO-FILM INFORMATION
		RECORDED BY DATE
		NO

4- ER ND AS	INFORMATION
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ENGINEER'S SEAL

MSD	BY
-----	----

TO DATE	REMARKS
----------------	----------------

NO	DATE
12/87	

ENT
HIL
11

ENGINEER
M. K. K.

C-

1987

1987

- ① REMOVE EXISTING ASPHALT PAVEMENT, CONCRETE CURB & GUTTER, AND CONCRETE DOWN DRAINS (2).
② UNDERGROUND TELEPHONE AND OVERHEAD POWER LINES TO BE RELOCATED BY MOUNTAIN BELL AND P.M.I. (COORDINATION SHALL BE ACCOMPLISHED BY THE CONTRACTOR)
③ REMOVE ABANDONED SEGMENT OF 6" STEEL GAS LINE BETWEEN STATIONS 9+50 AND 13+50.
④ EXISTING ARCH GATE TO BE REMOVED BY PROPERTY OWNER.
⑤ REMOVE EXISTING CONCRETE DRIVEPAD.
⑥ REMOVE EXISTING ASPHALT DRIVEWAY TO REQUIRED R.O.W. LINE. SCARIFY AND RECOMPACT SUBGRADE.
⑦ STA. 12+50± BEGIN WATER LINE RELOCATION AT NEAREST JOINT. $\Delta = 3^{\circ} - 34' - 42''$.
⑧ EXISTING MAILBOXES TO BE REMOVED BY THE ENGINEER. WORK SHALL BE CONSIDERED INCIDENTAL AND NO SEPARATE PAYMENT MADE THEREFOR.

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		B. M. 7-L24	EL. 5580.39	CONTRACTOR	
		BY		DATE		WORK ORDER BY	
		NO.				INSPECTOR'S	
		MSD			STA. 14+58.08 (SURVEY LINE) 2.25' LT.	ACCEPTANCE BY	
		BY			A SQUARE CHISELED ON TOP OF CONCRETE CURB	FIELD	
						INVESTIGATION BY	
						DRAWINGS	
						CORRECTED BY	
						DATE	
						MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	
						NO	

JUL 11, 1985

BOVAY ENGINEERS, INC.
ALBUQUERQUE
 HOUSTON • SPOKANE • AUSTIN • BATON ROUGE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
PLAN & PROFILE Sta. 11+10 to 15+70					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/28/86	Liquid Waste	N.A. Kline	4/11/86
A.C.E. - Design	<i>[Signature]</i>	6/24/86	Traffic	David W. Hannon	6/24/86
A.C.E. - Hydrology	<i>[Signature]</i>	6/24/86	Water	N.A. Kline	4/11/86
<i>[Signature]</i>	<i>[Signature]</i>	6/24/86			
DRAWING NO.	1826		MAP NO.	SHEET OF	
			L-23-Z	C-5 39	

P.C. = STA. 15+82.98
P.T. = STA. 20+70.67
P.I. = STA. 18+27.42
(P.I. = SURVEY LINE
STA. 18+25.30, 46.80' RT.)
R = 2864.79'
Dc = 2° 00' 00"
L = 487.69'
T = 244.44'
Δ = 9° 45' 14"

- ① REMOVE EXISTING ASPHALT PAVEMENT AND CON-
CRETE CURB & GUTTER.
- ② OVERHEAD TELEPHONE AND POWER LINES TO BE
RELOCATED BY MOUNTAIN BELL AND P.W.
- ③ REMOVE ABANDONED SEGMENTS OF DUCTILE IRON
WATER AND STEEL GAS LINES BETWEEN STAS-
17+25 AND 19+25.
- ④ PROVIDE 20:1 TAPER OF CENTERLINE OF SIDE-
WALK TO MATCH CENTERLINE OF 5' WIDE SIDE-
WALK ON BRIDGE (NET CENTERLINE SHIFT:
1'-10.5").
- ⑤ PROVIDE 20:1 TAPER ON CENTERLINE OF BIKE-
WAY TO MATCH CENTERLINE OF 10' BIKELANE ON
BRIDGE (NET CENTERLINE SHIFT: 1'-4.5").
- ⑥ ADJUST EXISTING MANHOLE FRAMES AND COVERS
(2) TO MATCH NEW PAVEMENT SURFACE (SEE
STD. Dwg. S-2-4).
- ⑦ SEE SHEET S2 FOR DETAILS OF THE BRIDGE
GRADING PLAN.
- ⑧ NOT USED
- ⑨ STA 19+14.5' INSTALL 1 10"x10"x4" TEE WITH
4" ALL FLANGED FITTINGS GATE VALVE
AND 1 1/2" 4" PIPE SHALL BE CONSIDERED
INCIDENTAL TO THE WORK AND NO
SEPARATE PAYMENT WILL BE MADE
THEREFORE.

ENGINEER'S SE	11	CONTRACTOR SHALL CONTACT THE CITY WATER SYSTEMS DIVISION (823-4052) PRIOR TO REMOVING THE WATER LINE FROM SERVICE.
	12	FOR DETAILS ON WATER LINE BRIDGE CROSSING, SEE SHEET 54,S8,S9
	13	IN EACH BRIDGE EMBANKMENT, A SOLID SLEEVE (LONG, MECHANICAL JOINT) SHALL BE PROVIDED ON THE WATER LINE TO ALLOW FOR EXPANSION-CONTRACTION OF THE WATER LINE CROSSING.
	14	DITCH REQUIRED AT TOE OF FILL SLOPE ON RIGHT SIDE OF DRAIN BETWEEN STATION 16+00 AND 17+00. DITCH SECTION SHOWN ON STATION 16+50 CROSS SECTION.
	15	REMOVE CONCRETE MET WELL AND DRAIN PIPES. REMOVE CONCRETE DRAINAGE TROUGH WITHIN R.O.W.
	16	REMOVE AND DISPOSE ALL TREES WITHIN THE LIMITS OF CONSTRUCTION.
	17	ADJUST EXISTING MANHOLES TO NEW PAVEMENT GRADE. SEE DETAIL SHEET C-8
	18	ALL WATERLINE DEFLECTIONS WILL BE MADE THROUGH THE LENGTH OF THE JOINT. DEFLECTIONS WILL NOT BE ALLOWED AT THE BELL AND SPIGOT.

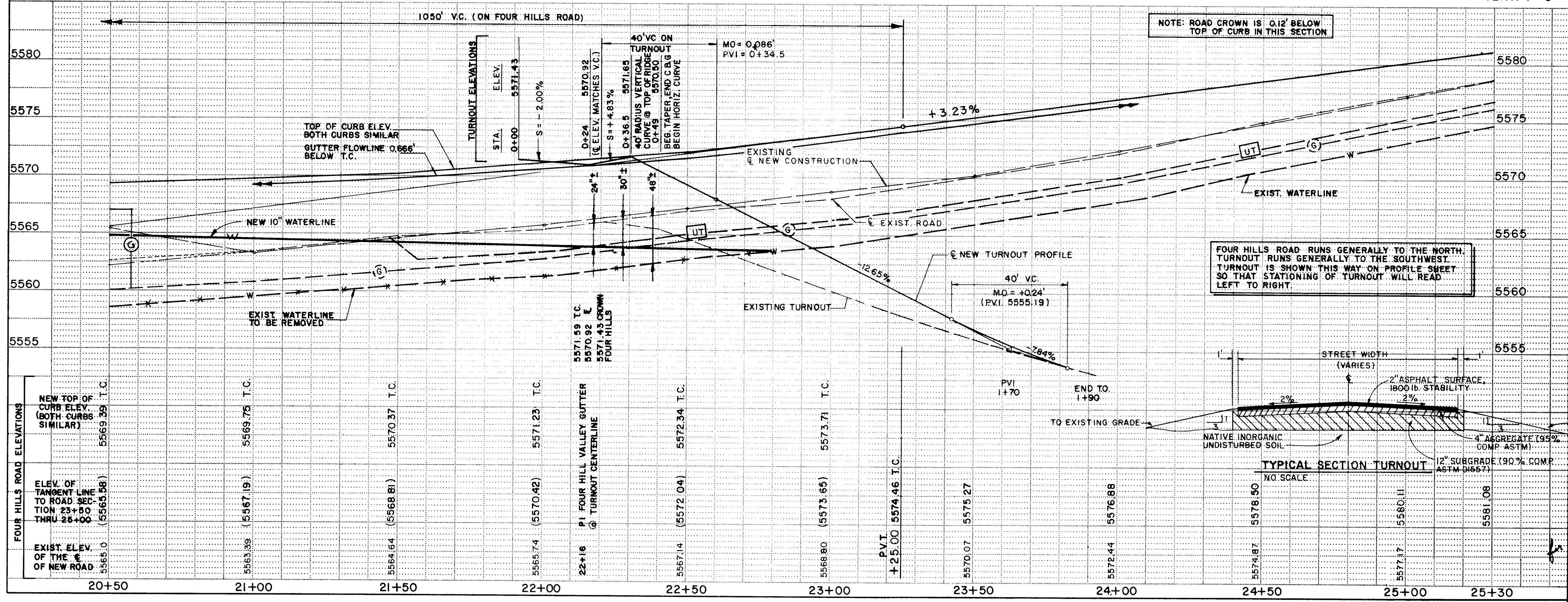
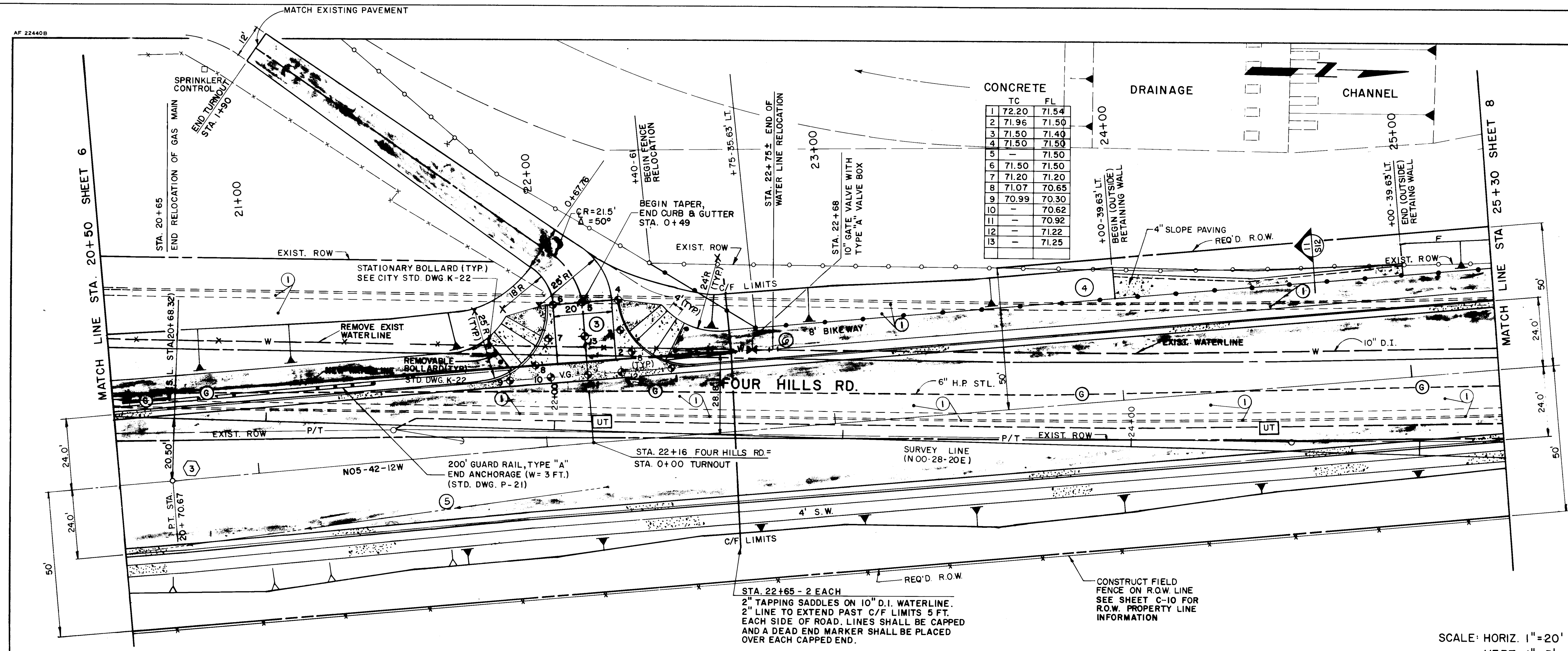
BOVAY ENGINEERS, INC.
ALBUQUERQUE
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

PLAN & PROFILE Sta. 15+70 to 20+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/86	Liquid Waste	<i>[Signature]</i>	4/11/86
A.C.E. - Design	<i>[Signature]</i>	6/24/86	Traffic	<i>[Signature]</i>	6/24/86
A.C.E. - Hydrology	<i>[Signature]</i>	6/24/86	Water	<i>[Signature]</i>	4/11/86

DRAWING NO. 1826		MAP NO. L-23-Z	SHEET C-6 OF 39
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3) CURVE DATA
P.C. = STA. 15+82.98
P.T. = STA. 20+70.67
P.I. = STA. 18+27.42
(P.I. = SURVEY LINE STA. 18+25.30, 46.80' RT.)
R = 2864.79'
Dc = 2° 00' 00"
L = 487.69'
T = 244.44'
Δ = 9° 45' 14"

NOTES:
1 REMOVE EXISTING ASPHALT PAVEMENT AND CONCRETE CURB & GUTTER.
2 OVERHEAD POWER LINES AND UNDERGROUND TELEPHONE TO BE RELOCATED BY PM AND MOUNTAIN BELL.
3 SEE SHEET C-2 (NOTE 1) FOR TURNOUT PAVEMENT SECTION.
4 SEE SHEET S-12 FOR RETAINING WALL DETAILS.
5 REMOVE CONCRETE DRAINAGE TROUGH.
6 STA. 22+75± END OF WATER LINE RELOCATION. MAKE CONNECTION AT NEAREST JOINT OUTSIDE THE LIMITS. A TEMPORARY PLUG SHALL BE INSTALLED IN THE END OF THE EXISTING LINE SO AS TO PROVIDE SERVICE TO PINON CREEK ROAD DURING CONSTRUCTION. THE INSTALLATION OF THE PLUG SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND NO SEPARATE PAYMENT MADE THEREFOR.

AS BUILT INFORMATION
CONTRACTOR: B. M. 7-L-23 EL. 5580.39
WORK: STA. 14+58.08 SURVEY LINE 2.25' LT.
DATE: A SQUARE CH-SELED IN TOP OF CONCRETE CURB
FIELD: ACCEPTANCE BY: DATE: DRAWING: DATE: MICRO-FILM: DATE: NO: NO

ENGINEER'S SEAL
DESIGNED BY: SAM
DRAWN BY: JLB
CHECKED BY: DATE: DATE MAY, 1985
DATE MAY, 1985

REVISIONS
NO. DATE REMARKS BY
1 12/87 AS BUILT TO DATE MSD
2 12/87 AS BUILT TO DATE MSD

APPROVALS
CITY ENGINEER: [Signature] DATE: 6/24/88
A.C.E. - Design: [Signature] DATE: 6/24/88
A.C.E. - Hydrology: [Signature] DATE: 6/24/88

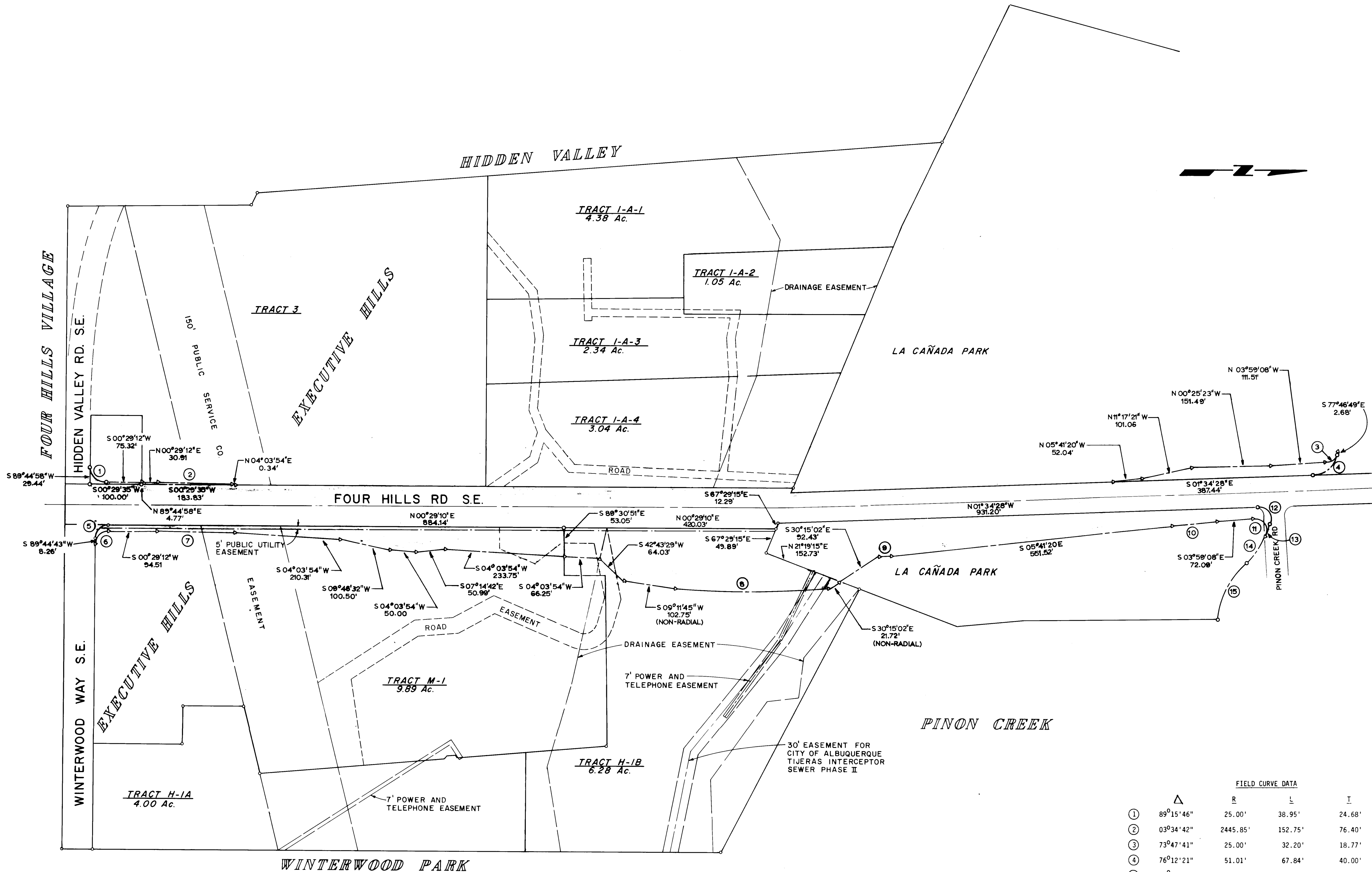
APPROVALS
ENGINEER: [Signature] DATE: 6/24/88
Liquid Waste: [Signature] DATE: 6/24/88
Traffic: [Signature] DATE: 6/24/88
Water: [Signature] DATE: 6/24/88

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD
PLAN & PROFILE Sta. 20+50 to 25+30

DRAWING NO. 1826
MAP NO. L-23-Z
SHEET C-7 OF 39

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
CONSTRUCTION PHASING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>Andrew J. ...</i>	6/28/86	Liquid Waste	<i>N.A. ...</i>	4/11/86
GE-Design	<i>Joe B. ...</i>	5/24/86	Traffic	<i>David ...</i>	6/24/86
EE-Hydrology	<i>Joe B. ...</i>	6/24/86	Water	<i>N.A. ...</i>	4/11/86
ULKS	N/A				
DRAWING NO.	1826	MAP NO.	L-23-Z	SHEET	C-9 OF 39

6001-040



RIGHT OF WAY MAP

SCALE: 1" = 100'

FIELD CURVE DATA				
	Δ	R	L	I
①	89°15'46"	25.00'	38.95'	24.68'
②	03°34'42"	2445.85'	152.75'	76.40'
③	73°47'41"	25.00'	32.20'	18.77'
④	76°12'21"	51.01'	67.84'	40.00'
⑤	90°44'27"	25.00'	39.59'	25.33'
⑥	90°44'29"	25.00'	39.59'	25.33'
⑦	03°34'42"	2350.85'	146.82'	73.43'
⑧	06°00'00"	2964.79'	310.48'	155.38'
⑨	00°24'48"	2914.79'	21.03'	10.52'
⑩	01°42'12"	2814.79'	83.68'	41.84'
⑪	115°35'51"	25.00'	50.44'	39.70'
⑫	101°05'34"	25.00'	44.11'	30.38'
⑬	12°05'37"	139.30'	29.40'	14.76'
⑭	26°30'11"	139.30'	64.44'	32.81'
⑮	36°00'12"	189.30'	118.95'	61.51'

GENERAL NOTES:
1. CONTRACTOR SHALL CONFINE CONSTRUCTION ACTIVITIES TO THE R.O.W. DENOTED BY THE SHADED AREA.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		BY		DATE	
CONTRACTOR	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.

WORK	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.
FIELD	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.
REVISIONS	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.
DESIGN	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.

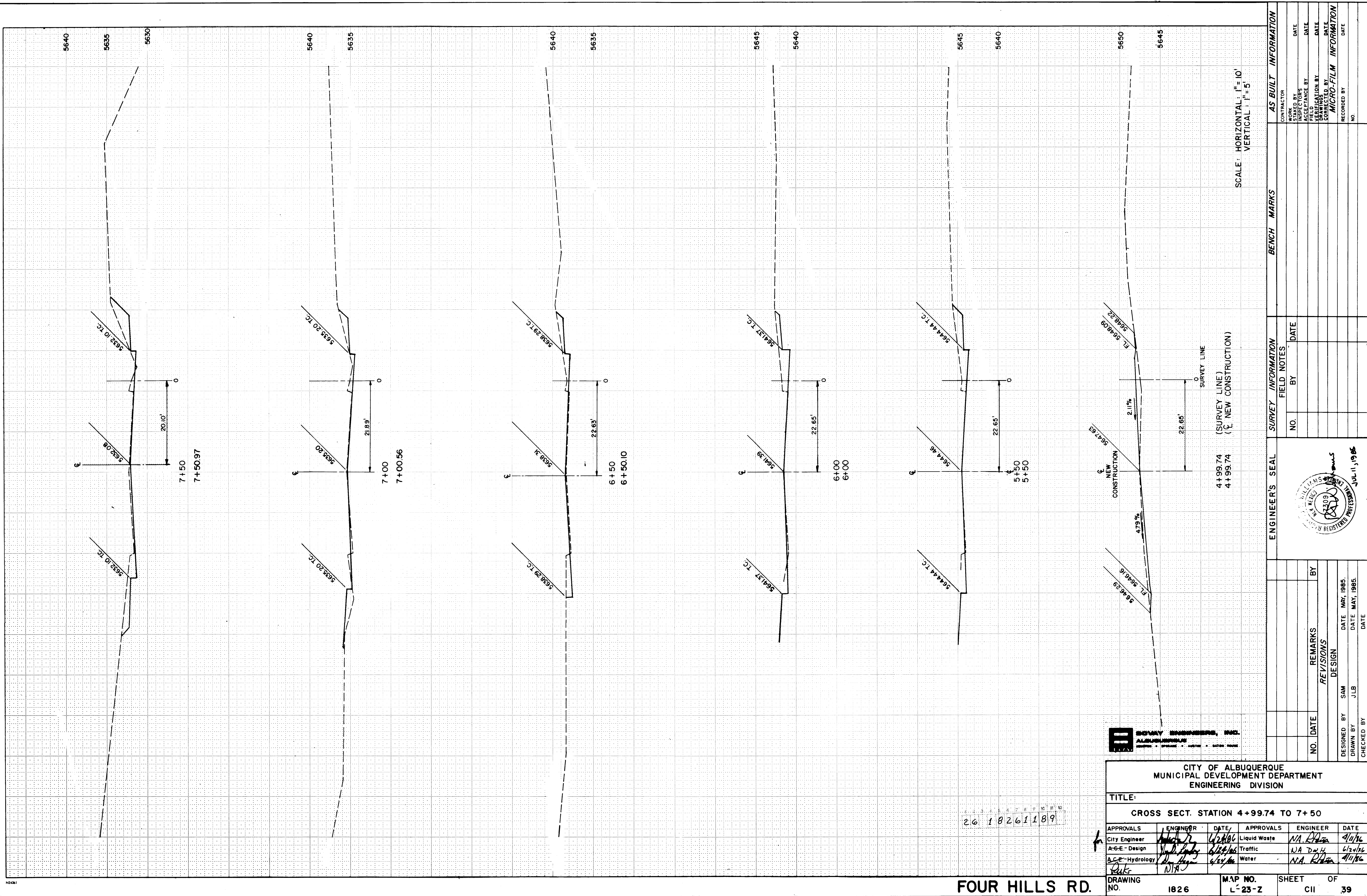
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NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
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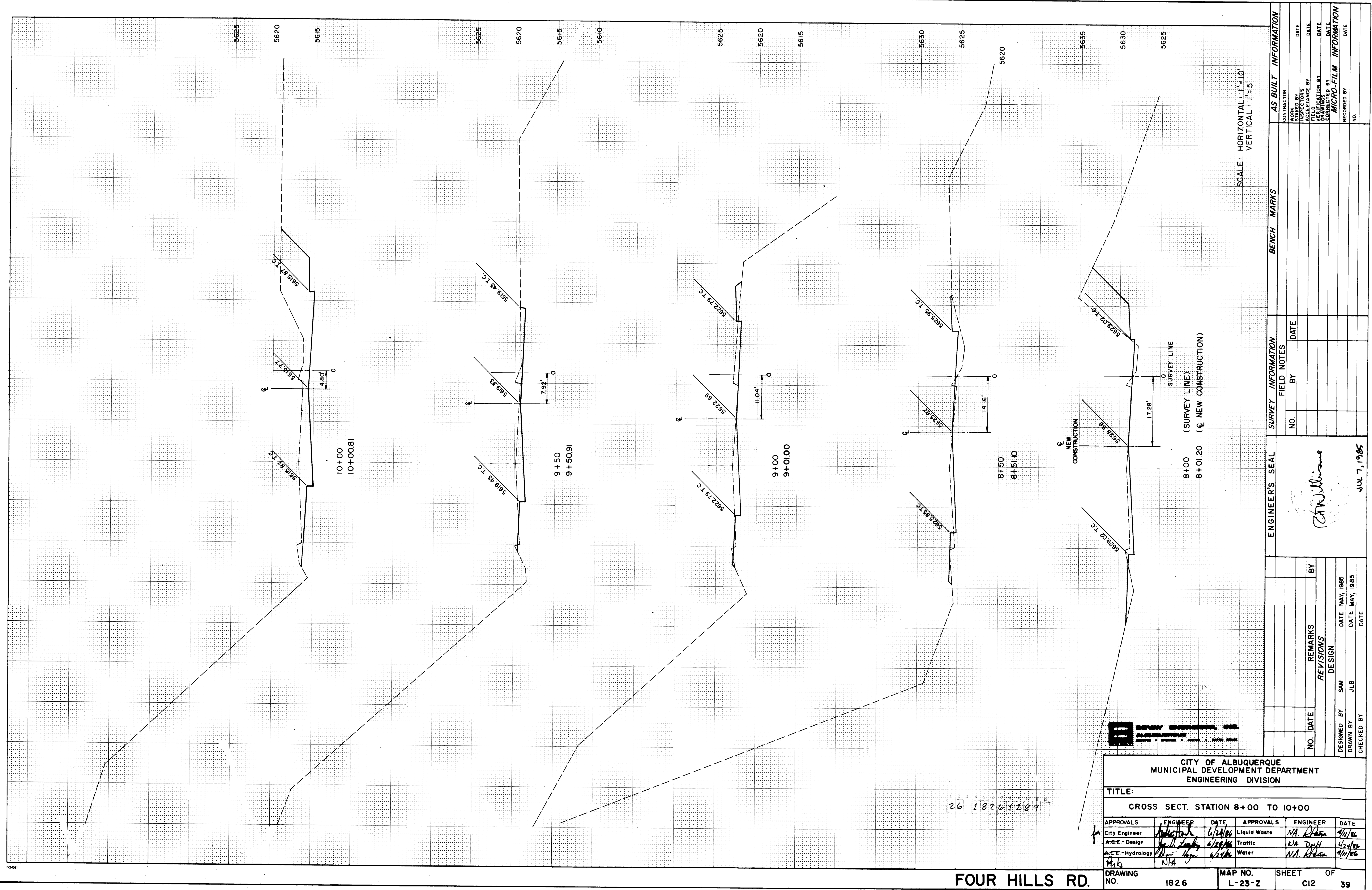
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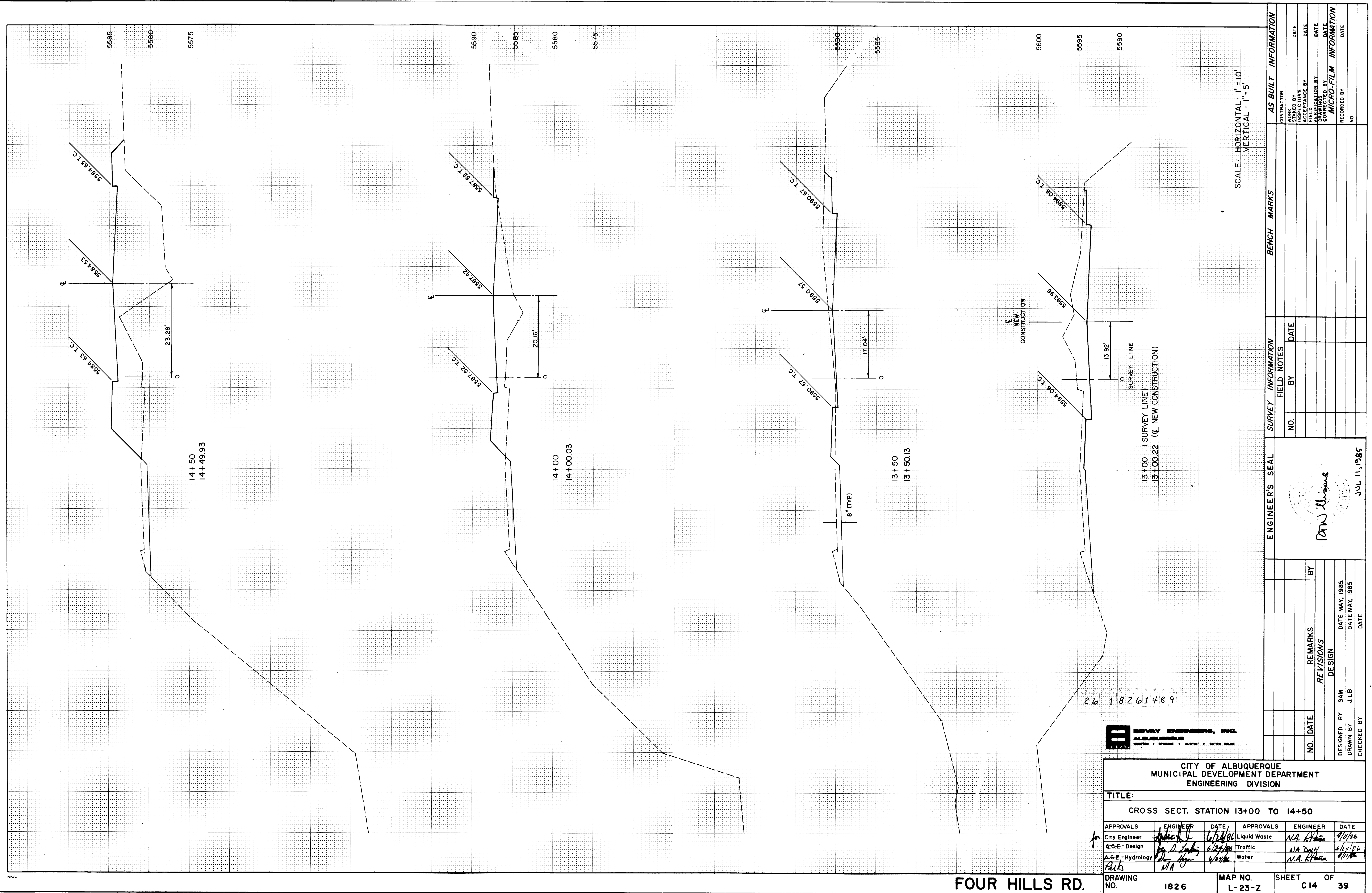
BOVAY ENGINEERS, INC.
ALBUQUERQUE
HOUSTON • SPRING • AUSTIN • DALLAS

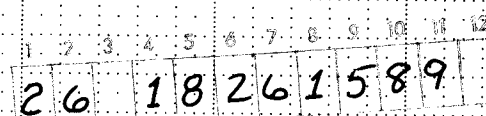
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING FOUR HILLS RD. RIGHT OF WAY					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/96	Liquid Waste	<i>[Signature]</i>	6/24/96
A-E-Design	<i>[Signature]</i>	6/24/96	Traffic	<i>[Signature]</i>	6/24/96
A-E-Hydrology	<i>[Signature]</i>	6/24/96	Water	<i>[Signature]</i>	6/24/96
Drawn By	<i>[Signature]</i>		Checked By	<i>[Signature]</i>	
DRAWING NO.	1826	MAP NO.	L-23-Z	SHEET	OF
				C-10	39

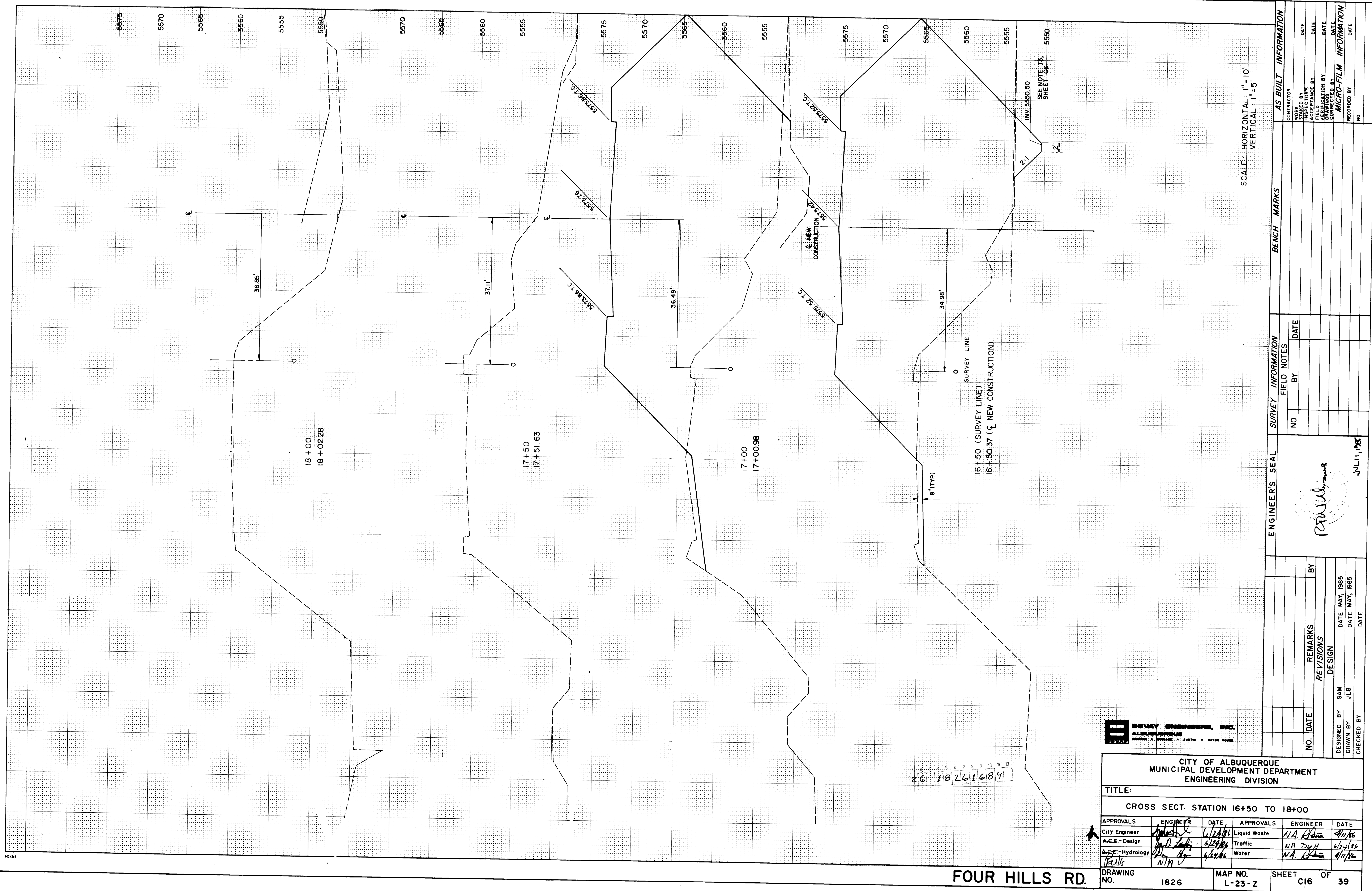


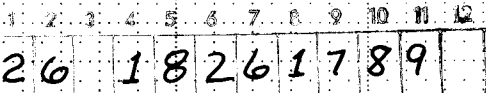
AS BUILT INFORMATION		DATE	
CONTRACTOR		DATE	
STAMPED BY		DATE	
INSPECTOR'S		DATE	
ACCEPTANCE BY		DATE	
FIELD		DATE	
DRAWINGS		DATE	
CORRECTED BY		DATE	
MICRO-FILM INFORMATION		DATE	
RECORDED BY		DATE	
NO.		DATE	





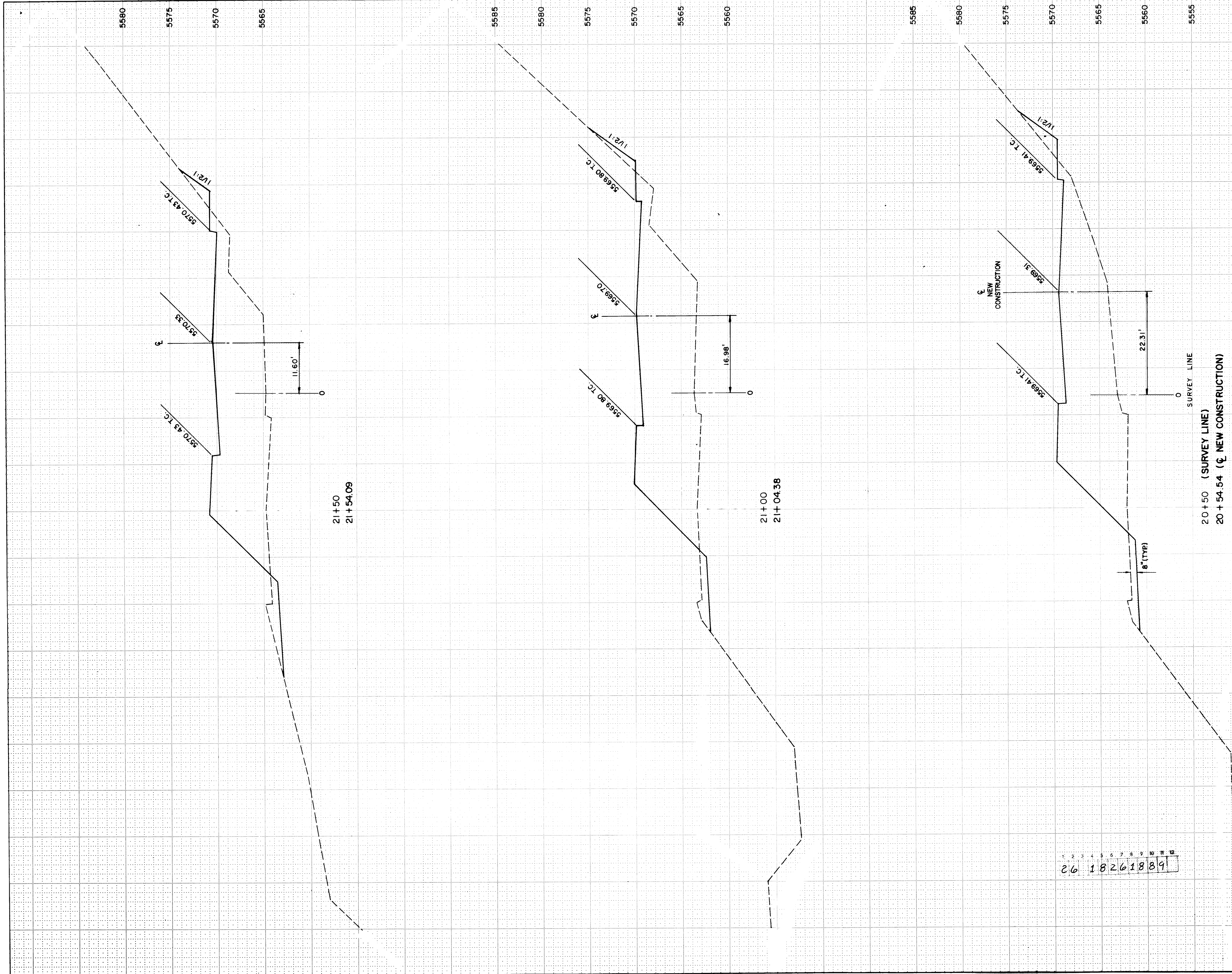




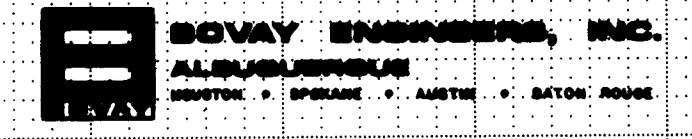


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:					
CROSS SECT. STATION 18+50 TO 20+00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>Handwritten Signature</i>	1/24/01	Liquid Waste	N.A. <i>Handwritten Signature</i>	4/11/96
A-E-E-Design	<i>Handwritten Signature</i>	6/22/96	Traffic	N.A. <i>Handwritten Signature</i>	6/24/96
A-E-E-Hydrology	<i>Handwritten Signature</i>	6/22/96	Water	N.A. <i>Handwritten Signature</i>	4/11/96
<i>Handwritten Signature</i>	N/A				
DRAWING NO.	1826		MAP NO.	SHEET OF	
			L-23-Z	C17 39	



SCALE: HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

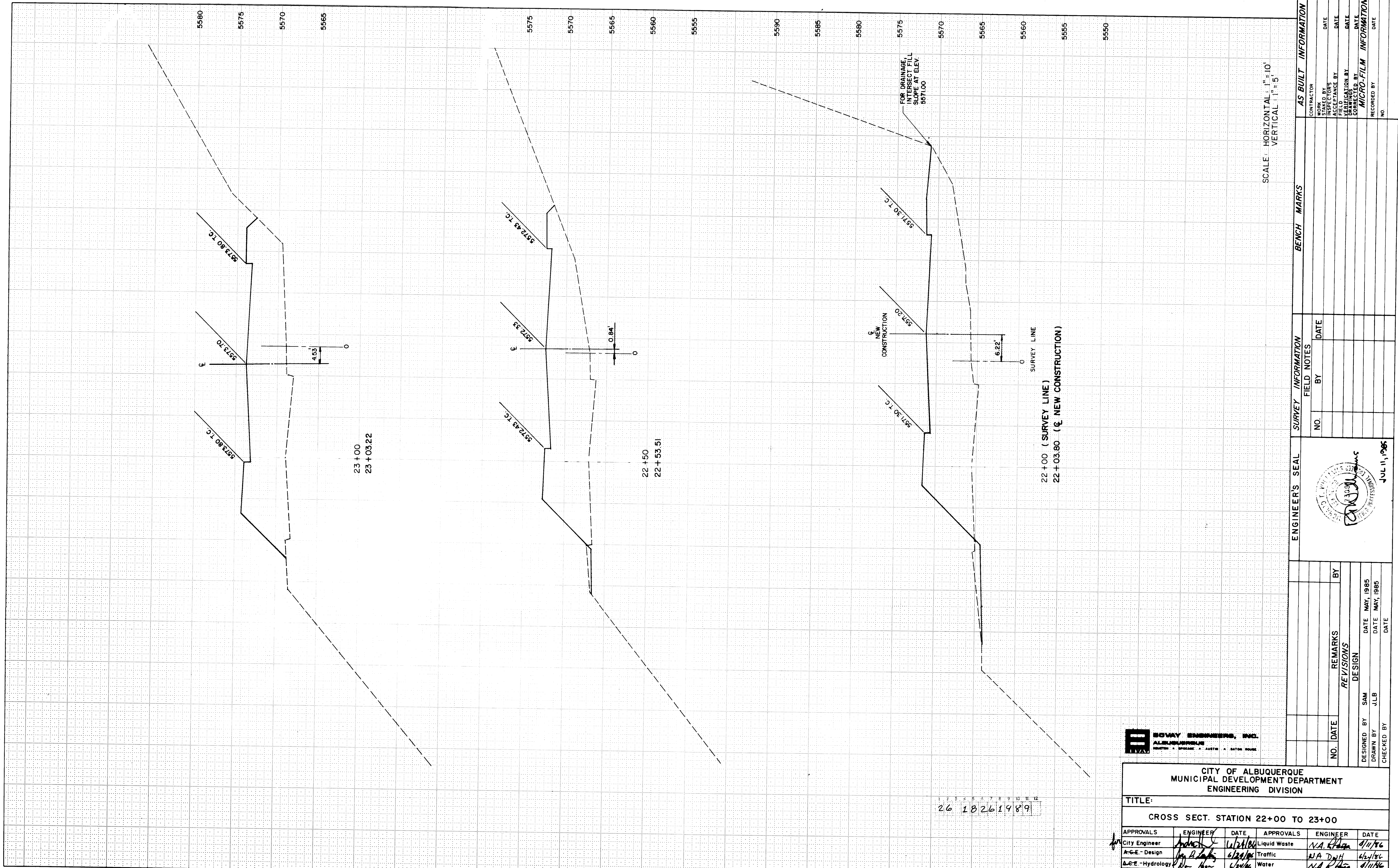


26 18261889

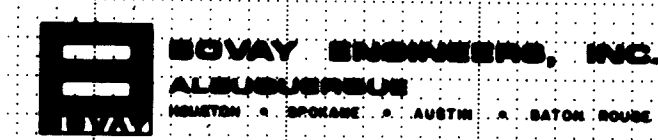
FOUR HILLS RD.

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: CROSS SECT. STATION 20+50 TO 21+50					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/86	Liquid Waste	N.A. R. P.	4/1/86
A.C.E. - Design	<i>[Signature]</i>	6/24/86	Traffic	N.A. D. H.	6/24/86
A.C.E. - Hydrology	<i>[Signature]</i>	6/24/86	Water	N.A. R. P.	4/1/86
DRAWING NO. 1826		MAP NO. L-23-Z		SHEET C18 OF 39	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES				CONTRACTOR	
		NO. BY DATE				WORK BY	
						INSPECTORS	
						ACCEPTANCE BY	
						DATE	
						FIELD	
						VERIFICATION BY	
						DATE	
						DRAWINGS	
						DATE	
						MICRO-FILM	
						INFORMATION	
						RECORDED BY	
						DATE	
						NO.	



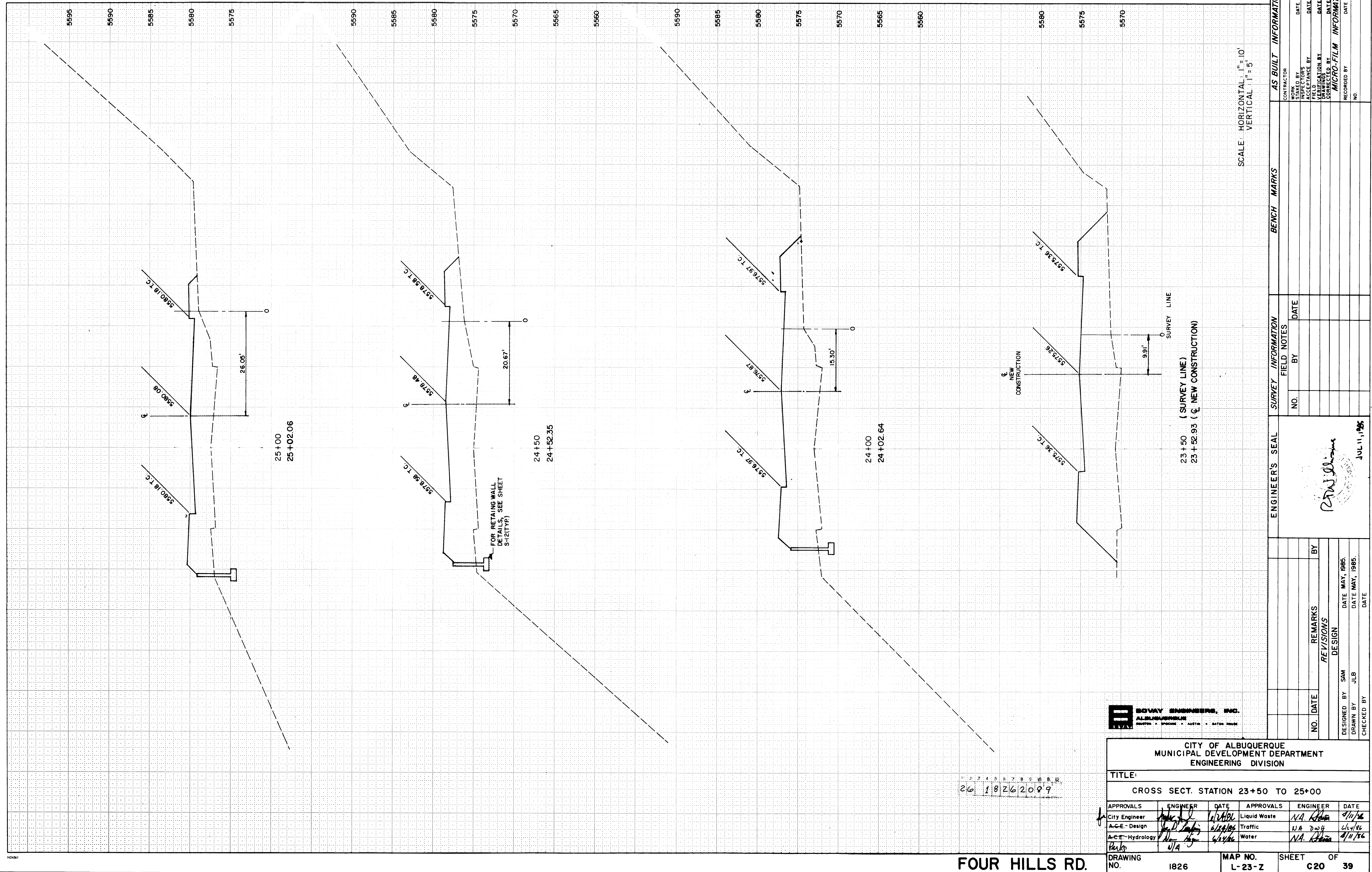
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VERTICAL: 1" = 5'

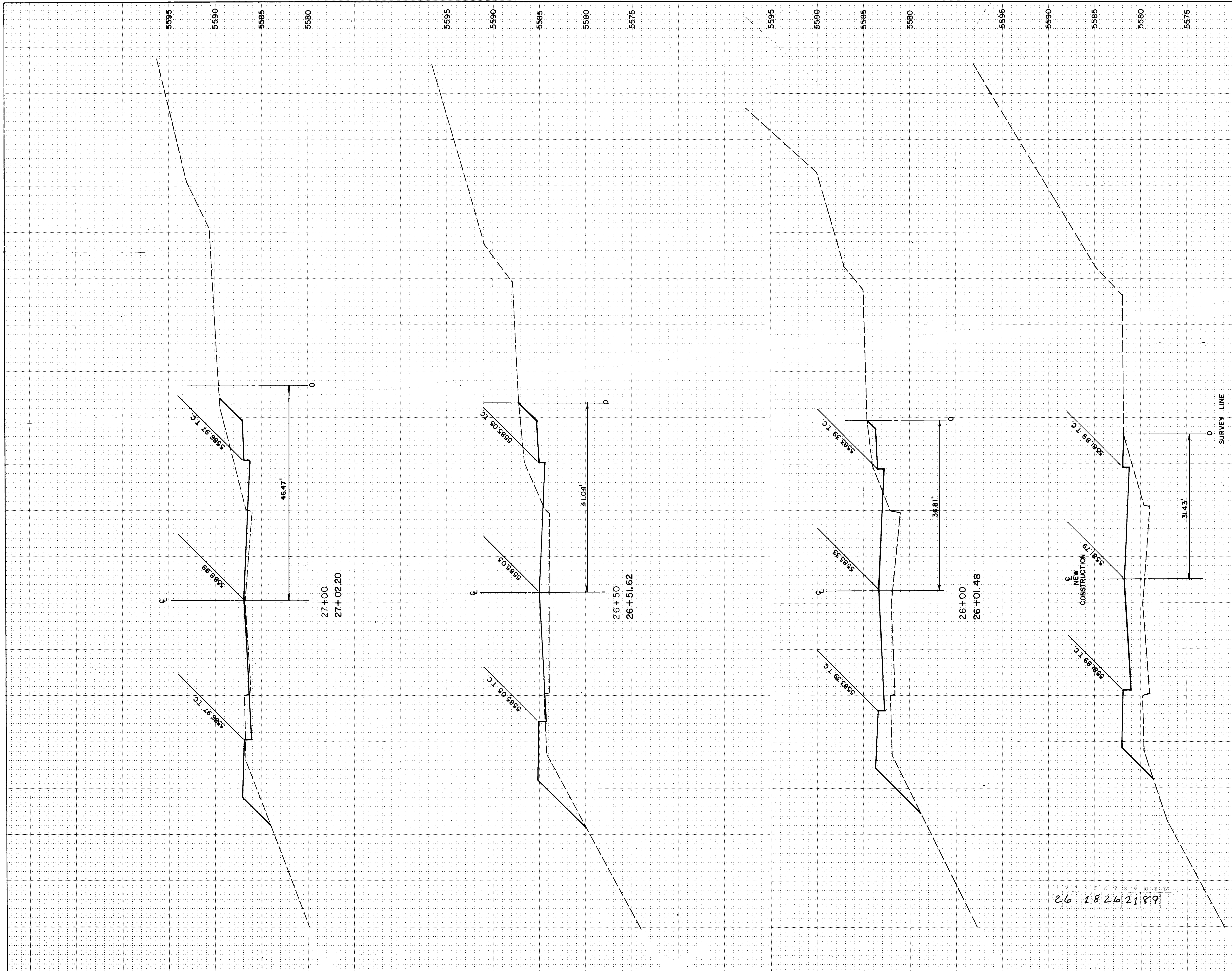


CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: CROSS SECT. STATION 22+00 TO 23+00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/86	Liquid Waste	<i>[Signature]</i>	4/11/86
A-E-Design	<i>[Signature]</i>	6/24/86	Traffic	<i>[Signature]</i>	6/24/86
A-E-Hydrology	<i>[Signature]</i>	6/24/86	Water	<i>[Signature]</i>	4/11/86
DRAWING NO. 1826 MAP NO. L-23-Z SHEET C19 OF 39					

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		DATE		CONTRACTOR	
		NO.	BY	DATE	NO.	DATE	
		REMARKS		DATE		INSPECTOR'S	
		DESIGNED BY SAM		DATE MAY, 1985		FIELD	
		DRAWN BY JLB		DATE MAY, 1985		VERIFICATION BY	
CHECKED BY		DATE		DATE		MICRO-FILM INFORMATION	
						RECORDED BY	
						NO.	

FOUR HILLS RD.



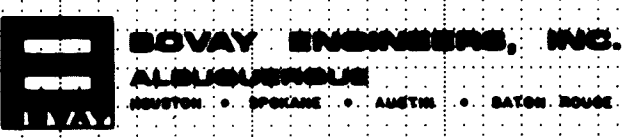


SCALE: HORIZONTAL 1"=10'
VERTICAL 1"=5'

25+50 (SURVEY LINE)
25+51.77 (CL NEW CONSTRUCTION)

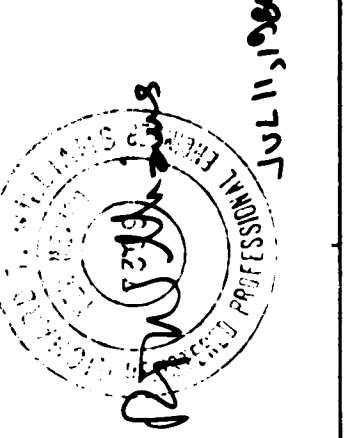
26+00
26+01.48

27+00
27+02.20

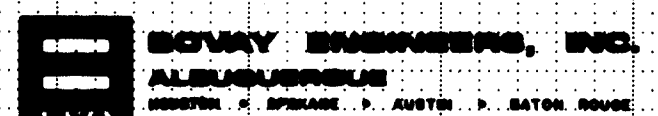


CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: CROSS SECT. STATION 25+50 TO 27+00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/20/86	Liquid Waste	<i>[Signature]</i>	7/1/86
ACE-Design	<i>[Signature]</i>	6/20/86	Traffic	<i>[Signature]</i>	6/24/86
ACE-Hydrology	<i>[Signature]</i>	6/20/86	Water	<i>[Signature]</i>	7/1/86
DRAWING NO. 1826 MAP NO. L-23-Z SHEET C21 OF 39					

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	NO.	DATE	CONTRACTOR	DATE	CONTRACTOR	DATE
REMARKS	BY	FIELD NOTES	BY	WORK	DATE	WORK	DATE
REVISIONS	BY	NO.	DATE	INSPECTORS	DATE	INSPECTORS	DATE
DESIGNED BY	DATE	NO.	DATE	FIELD	DATE	FIELD	DATE
DRAWN BY	DATE	NO.	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE
CHECKED BY	DATE	NO.	DATE	CORRECTED BY	DATE	CORRECTED BY	DATE
DESIGNED BY SAM		NO.		NO.		NO.	
DRAWN BY JLB		NO.		NO.		NO.	
CHECKED BY		NO.		NO.		NO.	
DATE MAY 1985		NO.		NO.		NO.	
DATE MAY 1985		NO.		NO.		NO.	
DATE		NO.		NO.		NO.	



FOUR HILLS RD.



CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: CROSS SECTION STATION 27+50 TO 29+50					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY Engineer	<i>[Signature]</i>	6/23/86	Liquid Waste	<i>N.A. Khan</i>	9/11/86
A.C.E. - Design	<i>[Signature]</i>	6/23/86	Traffic	<i>N.A. Khan</i>	6/23/86
A.C.E. - Hydrology	<i>[Signature]</i>	6/23/86	Water	<i>N.A. Khan</i>	9/11/86
DRAWING NO. 1826			MAP NO. L-23-Z		
SHEET 222			OF 39		

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO. DATE		NO. BY DATE		CONTRACTOR		CONTRACTOR	
REVISIONS		FIELD NOTES		WORKED BY		WORKED BY	
DESIGNED BY SAM		BY		INSPECTED BY		INSPECTED BY	
DRAWN BY JLB		DATE MAY, 1985		ACCEPTANCE BY		ACCEPTANCE BY	
CHECKED BY		DATE MAY, 1985		VERIFICATION BY		VERIFICATION BY	
				DATE		DATE	
				MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
				RECORDED BY		RECORDED BY	
				NO.		NO.	

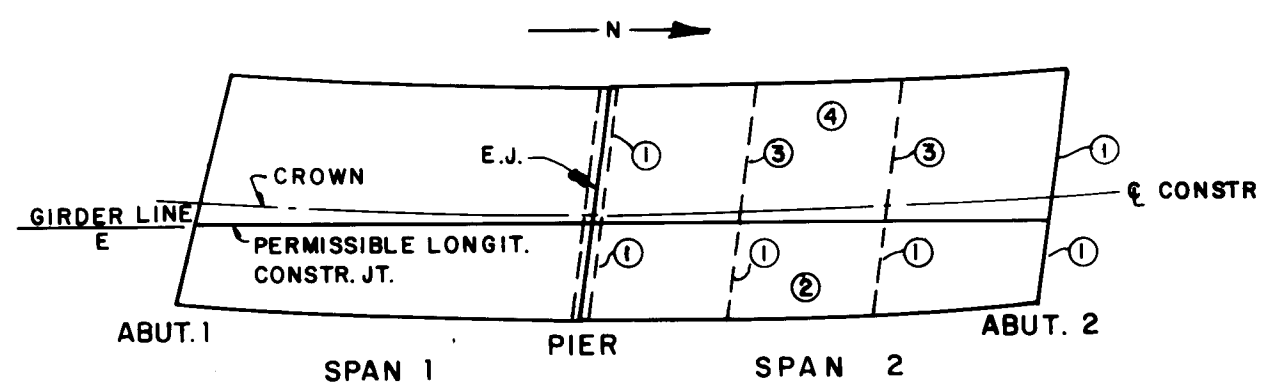


FOUR HILLS RD.

GENERAL NOTES:

UNLESS OTHERWISE NOTED THE FOLLOWING NOTES APPLY

- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1985 EDITION, AND THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
- CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4 INCH.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DIMENSIONS REFER TO CENTERLINE OF BAR. SOME EPOXY-COATED REINFORCING BARS ARE DETAILED OVER 40 FEET LONG. THE CONTRACTOR MAY FURNISH SUCH LONGER BARS IN TWO SECTIONS WITH LAP SPLICES. THE LOCATION AND LENGTH OF LAPS MUST BE SUBMITTED IN WRITING FOR APPROVAL TO THE ENGINEER. ALLOW AT LEAST TWO WEEKS FOR REVIEW PRIOR TO FABRICATION. ADDITIONAL BAR LENGTHS REQUIRED BY THE CONTRACTOR'S PROPOSAL WILL BE AT NO COST TO THE OWNER.
- POLYSTYRENE SHALL CONFORM TO AASHTO M 230.
- JOINT SEALANTS SHALL BE OF A POLYURETHANE TYPE SUITABLE FOR BRIDGES AND CHANNELS. SUBMIT TO THE ENGINEER FOR REVIEW. SEE SECTION 107. OF THE STANDARD SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO AASHTO M183. AFTER FABRICATION SOLE PLATES SHALL BE STRAIGHTENED OR SHALL BE FINISHED TOP AND BOTTOM. THE THICKNESS SHOWN ON THE PLANS SHALL BE THE FINISHED THICKNESS.
- ALL STRUCTURAL STEEL SHALL RECEIVE A PRIME COAT OF RED LEAD, AND TWO FIELD COATS OF ALUMINUM PAINT. SEE SECTION 157 OF THE STANDARD SPECIFICATIONS. ALL SURFACES EXPOSED TO WEATHER SHALL BE PAINTED.
- FOUNDATION DATA SHOWN ON S-3 ARE FOR DESIGNERS ONLY. THE OWNER IS NOT RESPONSIBLE FOR ANY INTERPRETATION OR ASSUMPTIONS MADE BY CONTRACTORS BASED ON THIS INFORMATION.
- CORED AND OPEN HOLES IN EXTERIOR BEAMS SHALL BE PACKED WITH GROUT.
- ANCHOR BOLTS SHALL BE PLACED IN DRILLED HOLES AND GROUTED IN THE EXACT POSITION SHOWN ON THE PLANS. SEE PIER NOTES ON S-11 FOR ALTERNATE METHOD OF PLACEMENT.
- AFTER COMPLETION OF THE BRIDGE AND APPROACH ROADWAYS, THE TOP SURFACES OF ALL BRIDGE SEATS SHALL BE THOROUGHLY CLEANED OF ALL DIRT, CONCRETE AND DEBRIS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW FOR THE FOLLOWING ITEMS:
 - REINFORCING BAR PLACEMENT
 - ALL STRUCTURAL STEEL INCLUDING PILE SPLICES
 - TFE BEARING DEVICES
 - SEALANTS
 - PILE TIPS
 - ELASTOMERIC EXPANSION JOINT SEAL
 - CHAIN LINK FENCE
- CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:
 - ELASTOMERIC BEARING PADS
 - EPOXY COATED RE-BARS
 - TFE BEARING DEVICES
 - THREADED INSERTS
 - WATER REPELLANT TREATMENT
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY BRACING FOR THE PRESTRESSED GIRDERS UNTIL THE PERMANENT BRACING IS SECURED IN PLACE. MINIMUM PERMANENT BRACING IS CONSIDERED TO BE THE WELDS @ THE TFE BEARINGS AND THE ABUTMENT BACKWALL/DIAPHRAGMS WITH TIE ROD FULLY SECURED.
- DIAPHRAGMS MAY BE PLACED PRIOR TO THE DECK PLACEMENT PROVIDED THAT NO INTERIOR DIAPHRAGM CONCRETE IS PLACED BEYOND THE PERMISSIBLE LONGITUDINAL CONSTRUCTION JOINT IN THE DECK FOR THAT DECK POUR. SEE DECK PLACEMENT SEQUENCE. NOS. ① & ③ REFER TO THE DIAPHRAGMS. PLACE CONCRETE IN THE NUMERICAL SEQUENCE SHOWN. SPAN 1 IS SIMILAR TO SPAN 2. ALTERNATE SEQUENCES MAY BE APPROVED BY THE ENGINEER.

DECK & DIAPHRAGM
PLACEMENT SEQUENCE

- THE TOP OF THE EXPANSION JOINT SHALL BE LOCATED BETWEEN 1/4 INCH & 1/8 INCH BELOW THE TOP OF THE CONCRETE BRIDGE DECK TO PREVENT DISLOCATION BY SNOW PLOWING EQUIPMENT.

DESIGN DATA

DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS DATED 1983 - 13TH EDITION.

REINFORCED CONCRETE:
SUPERSTRUCTURE - $F'_c = 4000$ PSI @ 28 DAYS
SUBSTRUCTURE AND OTHER - $F'_c = 3000$ PSI @ 28 DAYS
REINFORCING BARS - $F_y = 60,000$ PSI

PRESTRESSED CONCRETE:
 $F'_c = 5,500$ PSI @ 28 DAYS
SEE SHEET S-7

STRUCTURAL STEEL:
 $F'_c = 20,000$ PSI
 $F_y = 36,000$ PSI

LIVE LOAD: HS 20-44

WEARING SURFACE: 1/4" MONOLITHIC CONCRETE PLUS 30 PSF ALLOWANCE FOR FUTURE OVERLAY

HORIZONTAL EARTH PRESSURE: (EQUIVALENT FLUID)
AT REST 54.6 PCF
ACTIVE 42.9 PCF

WIND VELOCITY: 90 MPH

SEISMIC: ZONE 2

DEPTH OF ALLUVIUM TO BEDROCK: 46' @ ABUTMENTS

TEMPERATURE RANGE: 80°F

ABBREVIATIONS

A.B. ANCHOR BOLT
ABUT. ABUTMENT
B.F. BACK FACE
BRG. BEARING
CONC. CONCRETE
CONN. CONNECTION
E.F. EACH FACE
E.J. EXPANSION JOINT
EQ. EQUAL
F.F. FRONT FACE
H.S.A. HEADED STUD ANCHOR
LONGIT. LONGITUDINAL
NOM. NOMINAL
SIM. SIMILAR
SPA. SPACING
T.F.E. TEFLON SLIDING BEARING
U.N.O. UNLESS NOTED OTHERWISE

ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	SUPERSTR		SUBSTRUCTURE			RET. WALL & CHAN. MISC.	TOTAL QTY.
			SPAN 1	SPAN 2	ABUT. 1	PIER	ABUT. 2		
B-1	REINFORCING BARS, GRADE 40	L.B.			328		328		656
B-2	REINFORCING BARS, GRADE 60	L.B.	23144	23237	6,642	6368	6637	7,741	73,769
B-3	EPOXY COATED REINFORCING BARS, GRADE 60	L.B.	17360	17453					34,813
B-4	STRUCTURAL STEEL PILING HP 10 X 57	L.F.			995		739		1734
B-5	STRUCTURAL STEEL PILING HP 12 X 74	L.F.				1085			1,085
B-6	PRESTRESSED CONCRETE BRIDGE GIRDER, TYPE 54	L.F.	712	712					1,424
B-7	STRUCTURAL STEEL FOR CONCRETE BRIDGES, AASHTO M183	L.B.	4,358	4,358	480	538	480		10,214
B-8	SUPERSTRUCTURE CONCRETE, $F'_c = 4000$ PSI	C.Y.	231.85	231.90					463.75
B-9	SUBSTRUCTURE CONCRETE $F'_c = 3000$ PSI	C.Y.			51.05	73.60	51.00	147.7	323.35
B-10	PENETRATING WATER REPELLANT TREATMENT	S.Y.	83	83		74			240
B-11	ELASTOMERIC EXPANSION JOINT SEAL	L.F.							68
B-12	TFE BEAM BEARING DEVICES	E.A.				16			16
B-13	8' CHAIN LINK FENCE	S.F.	1,543	1,543					3,086
B-14	CONCRETE WALL BARRIER-BRIDGE	L.F.	223	223					446
B-15	STRUCTURE EXCAVATION, BACKFILL AND COMPACTION	C.Y.				53		181	234
P-17	SLOPE PAVING 4"	S.Y.						57.8	57.8
K-3	REINFORCED CONCRETE CHANNEL LINING, 6"	S.F.			14,050		11,300		25,350

PILE DATA

	PILE	MIN PENN. ELEV.	LENGTHS/Nº REQD.		
			VERT.	2:12	3:12
ABUT. 1	HP 10 x 57	5495	69'-10 1/2"	-	72'-0 7/8"
PIER	HP 12 x 74	5500	62'-10 1/2"	63'-10 1/2"	64'-10 1/4"
ABUT. 2	HP 10 x 57	5510	51'-10 7/8"	-	53'-6 7/8"

ALL PILES DRIVEN TO REFUSAL, 5 BLOWS PER 1/4"

QUANTITY NOTES

SUPERSTRUCTURE REINFORCING BARS INCLUDE, DECK, DIAPHRAGMS, APPROACH SLABS AND ATTENUATOR PAD.

SUBSTRUCTURE, REINFORCING BARS INCLUDE, PIER AND ABUTMENTS INCLUDING THE ABUTMENT DIAPHRAGM/BACKWALL.

RET. WALL, CHAN. AND MISC. INCLUDES RETAINING WALL, CUT OFF WALLS @ CHANNEL AND DRIVEWAY.

REINFORCING BAR QUANTITIES FOR SLOPE PAVING, CHANNEL PAVING AND CONCRETE WALL BARRIER ARE NOT SHOWN IN THE ABOVE ESTIMATE.

SUPERSTR. CONCRETE INCLUDES DECK, DIAPHRAGMS, APPROACH SLABS AND ATTENUATOR PADS.

SUBSTR. CONCRETE INCLUDES ABUTMENTS, WING WALLS, PIER, RETAINING WALL AND CUT OFF WALLS, AND APPROACH SLAB TRANSITIONS.

STRUCTURAL STEEL INCLUDES ALL, BOLTS, PLATES, SHAPES, RODS, HEADED STUD ANCHORS AND PIPE. IT DOES NOT INCLUDE PILES, PILE SPLICES NOR PILE POINTS, NOR DOWELS & SLEEVES IN CONCRETE WALL BARRIER.

INCIDENTAL WORK & MATERIALS

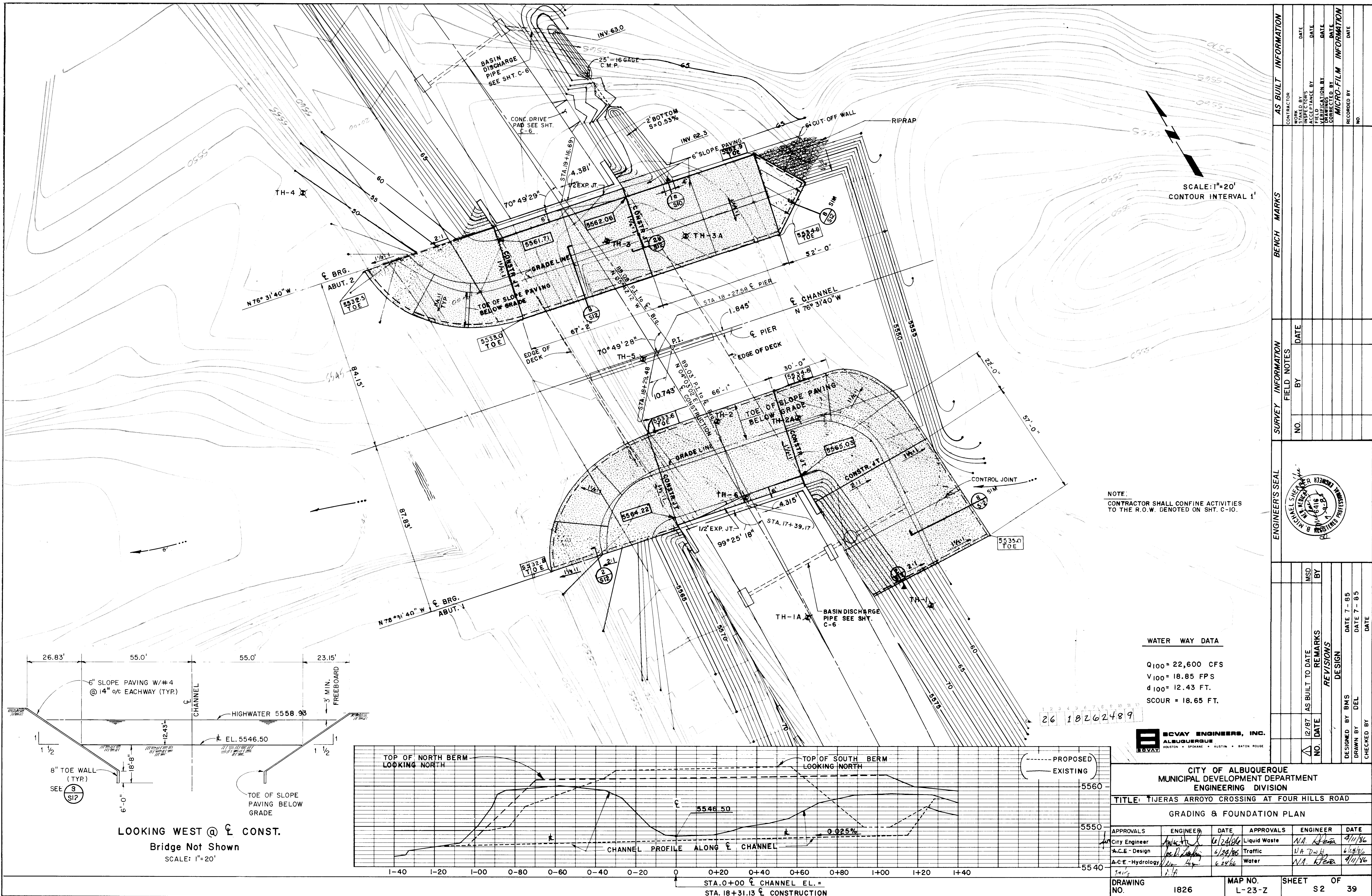
THESE ITEMS DO NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY SPECIAL PROVISIONS, STANDARD DRAWINGS, SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS AND THE STANDARD SPECIFICATIONS.

ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETION OF THESE ITEMS ARE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE.

- POLYSTYRENE AND ADHESIVES
- NONBONDED ELASTOMERIC BEARING PADS (AT ABUTS.)
- SEALANTS
- THREADED INSERTS AND H.S.A.
- DE-WATERING OF EXCAVATIONS FOR CHANNEL AND PIER
- PAINT
- PILE POINTS AND SPLICES
- STRUCTURAL STEEL IN CONCRETE WALL BARRIER

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CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
SUMMARY OF QUANTITIES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4/24/86	Liquid Waste	N.A. <i>[Signature]</i>	4/11/86
A-G-E - Design	<i>[Signature]</i>	6/24/86	Traffic	N.A. <i>[Signature]</i>	4/24/86
A-E - Hydrology	<i>[Signature]</i>	4/24/86	Water	N.A. <i>[Signature]</i>	4/11/86
DRAWING NO.	1826	MAP NO.	L-23-Z	SHEET NO.	39



NOTE:
CONTRACTOR SHALL CONFINE ACTIVITIES
TO THE R.O.W. DENOTED ON SHT. C-10.

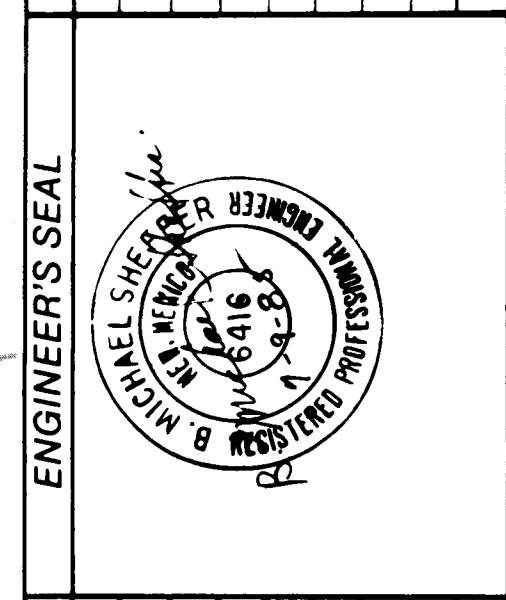
WATER WAY DATA

Q₁₀₀ = 22,600 CFS
V₁₀₀ = 18.85 FPS
d₁₀₀ = 12.43 FT.
SCOUR = 18.65 FT.

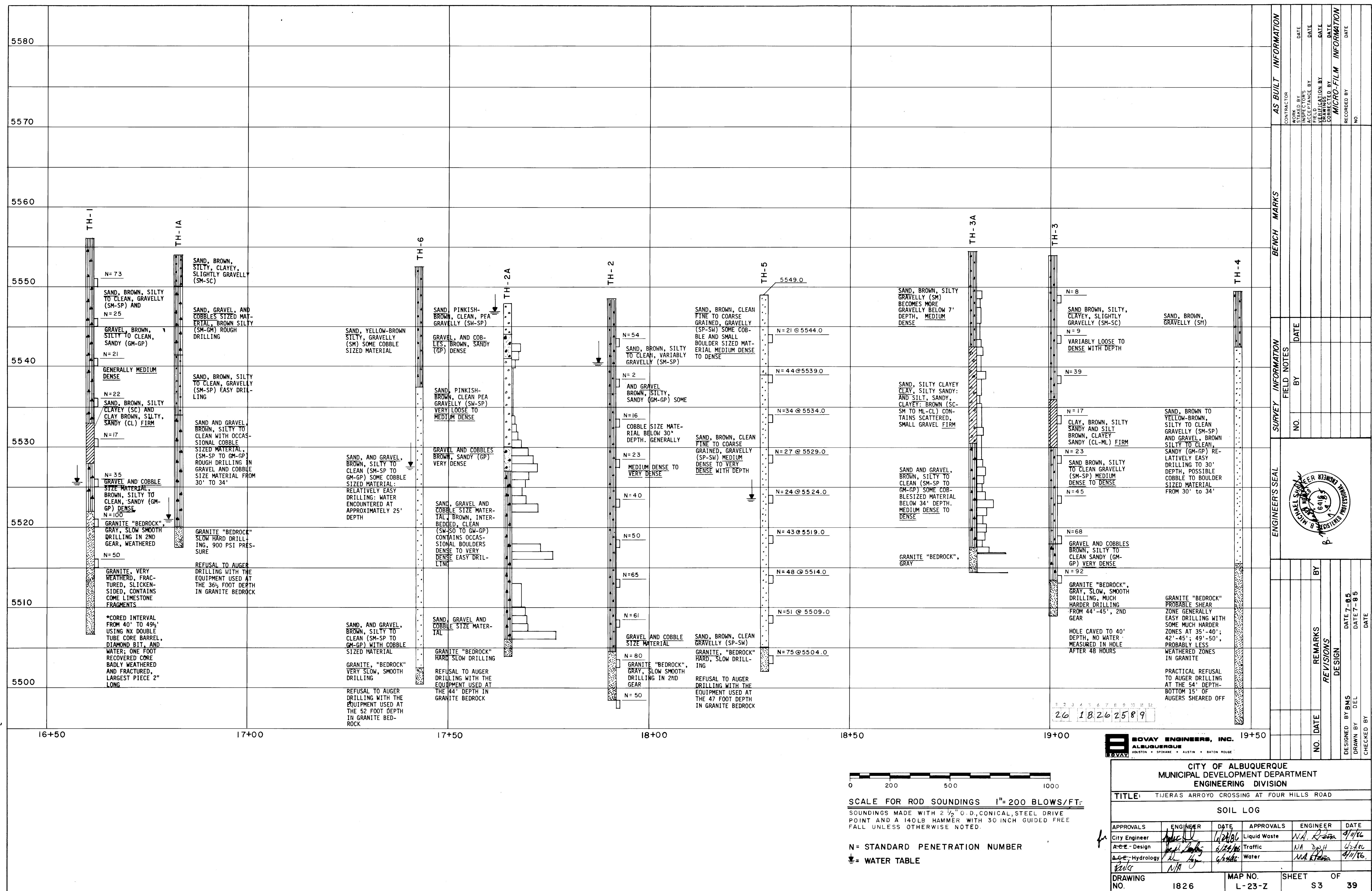


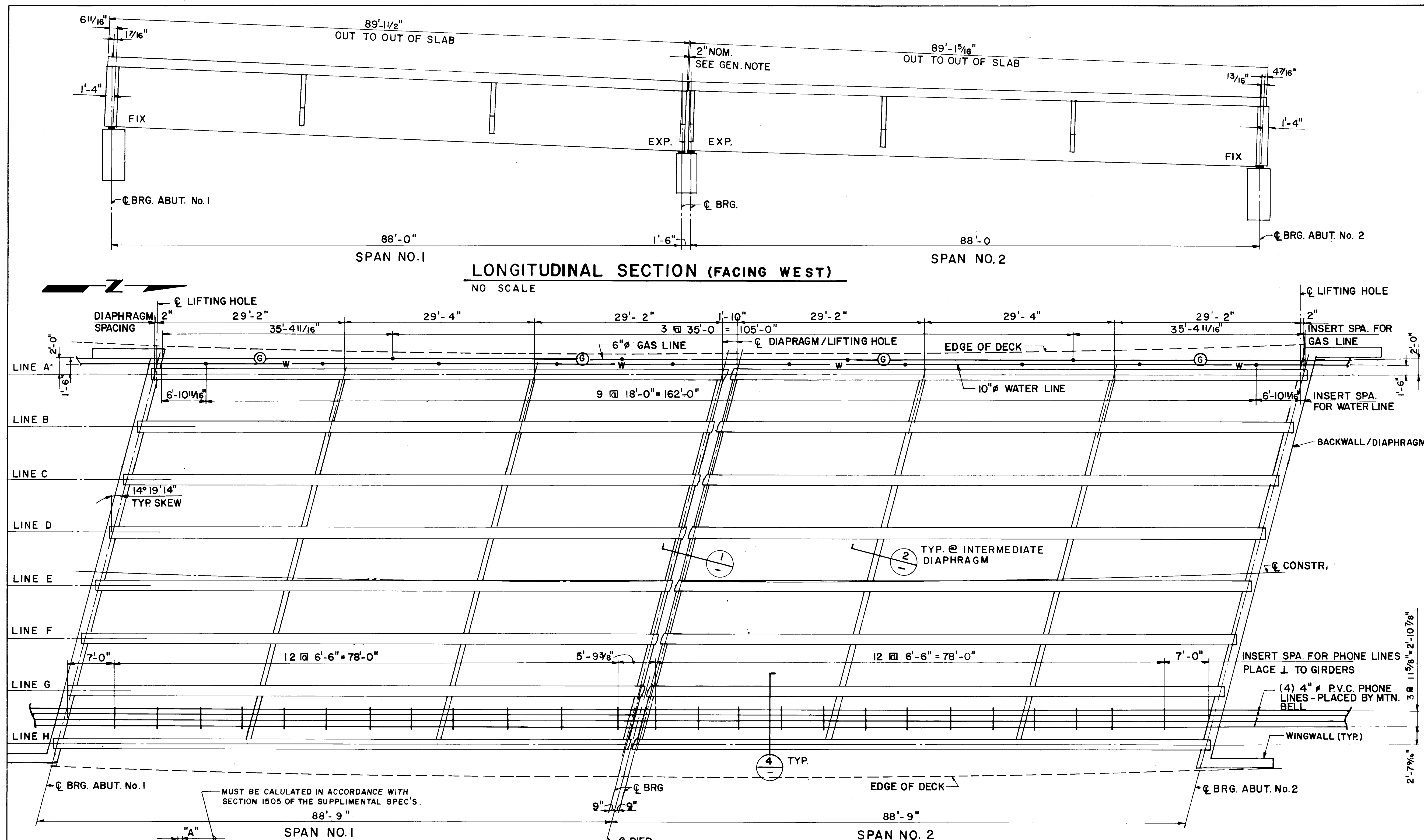
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
GRADING & FOUNDATION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/86	Liquid Waste	NA. <i>[Signature]</i>	4/11/86
A.C.E. Design	<i>[Signature]</i>	6/24/86	Traffic	NA. <i>[Signature]</i>	6/18/86
A.C.E. Hydrology	<i>[Signature]</i>	6/24/86	Water	NA. <i>[Signature]</i>	4/11/86
DRAWING NO. 1826		MAP NO. L-23-Z		SHEET 52 OF 39	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR				FIELD NOTES	
WORK				NO.	BY
STARTED BY				DATE	
ACCEPTANCE BY					
DATE					
FIELD					
ACCEPTANCE BY					
DATE					
DRAWING					
CORRECTION BY					
DATE					
MICRO-FILM					
INFORMATION					
RECORDED BY					
DATE					



ENGINEER'S SEAL		REVISIONS	
NO.	DATE	REMARKS	BY
1	12/87	AS BUILT TO DATE	MSD
DESIGNED BY	BMS	DATE	7-85
DRAWN BY	DEL	DATE	7-85
CHECKED BY		DATE	





1. THE WATERLINE UNDER THE BRIDGE SHALL BE 10" DIAMETER D.I. FLANGED PIPE WITH 2" THICK PRE-MOULDED POLYURETHANE WITH AN ALUMINUM JACKET. THE PIPE HANGERS SHALL BE ADJUSTABLE SWIVEL PIPE ROLL, FIG. 174 AS MANUFACTURED BY GRINNELL, OR APPROVED EQUIVALENT. PIPE ROLL SHALL BE OVERSIZED FOR INSULATION. CONCRETE INSERTS SHALL BE 7/8", SCREW CONCRETE INSERT, FIG. 152 ALSO BY GRINNELL, OR APPROVED EQUIVALENT.

2. THE 6" GAS LINE SHALL BE SUPPORTED BY GRINNELL, ADJUSTABLE SWIVEL PIPE ROLL, FIG. 174. INSERTS ARE 3/4" SCREW CONCRETE INSERTS, FIG. 152 ALSO BY GRINNELL. THE GAS CO. OF NEW MEXICO WILL SUPPLY ALL HARDWARE.

3. THE 4 - 4" P.V.C. PHONE LINES ARE SUPPORTED BY UNISTRUT, OR APPROVED EQUIVALENT, CHANNEL TYPE SUPPORTS & INSERTS. ALL HARDWARE CONDUITS & INSTALLATION OF CONDUIT WILL BE PROVIDED BY MOUNTAIN BELL.

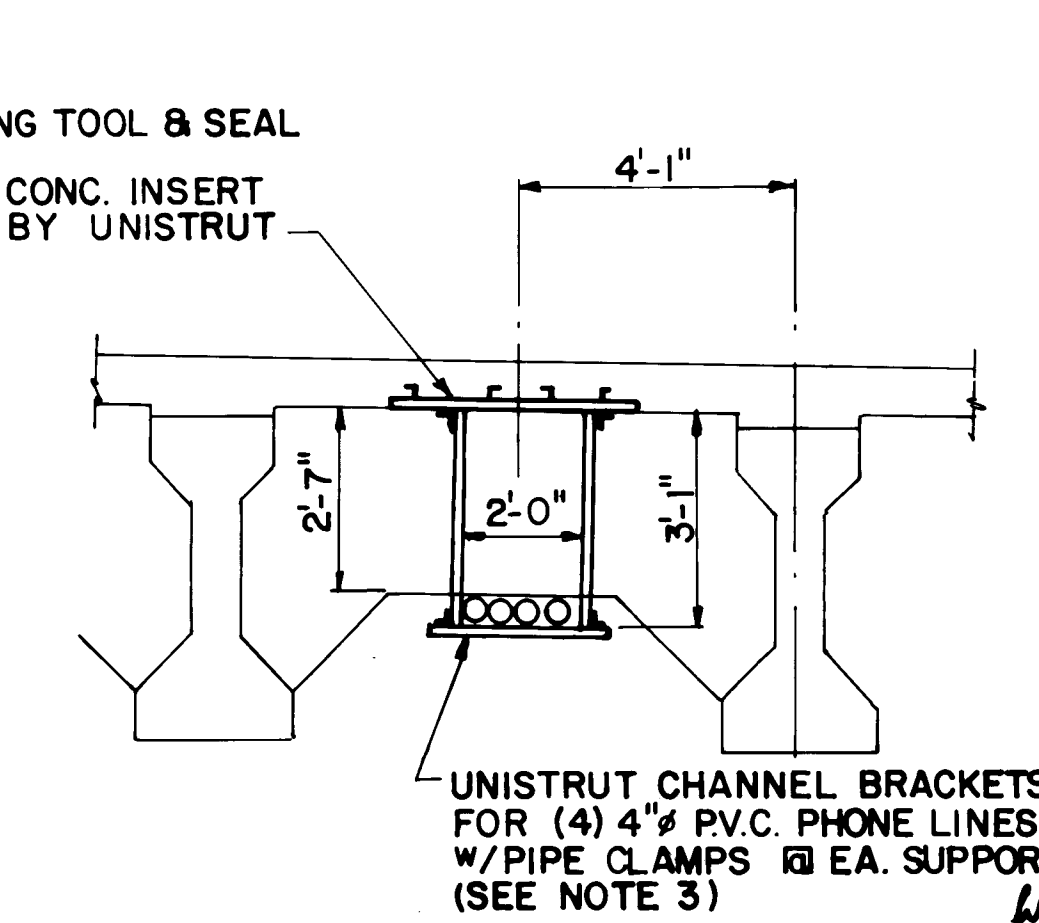
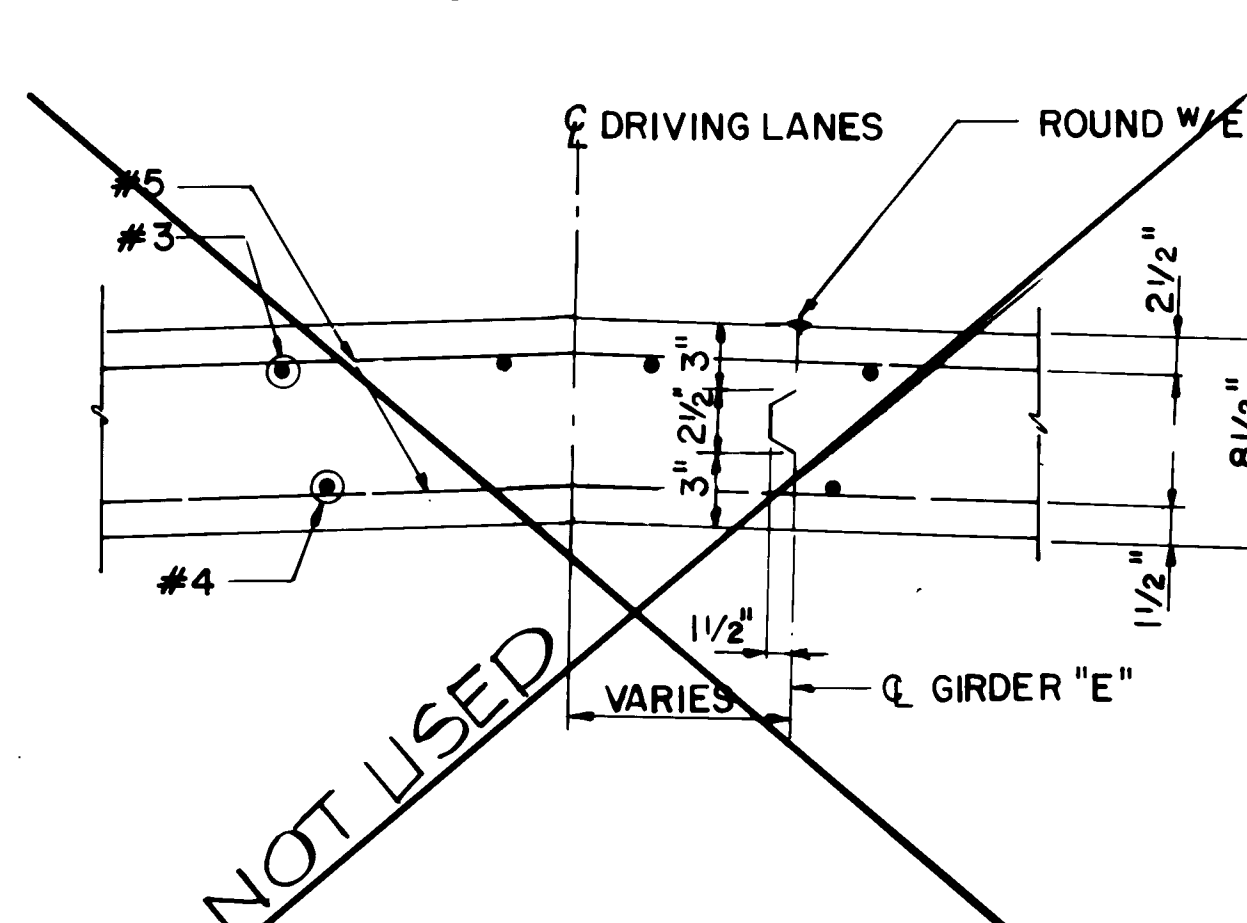
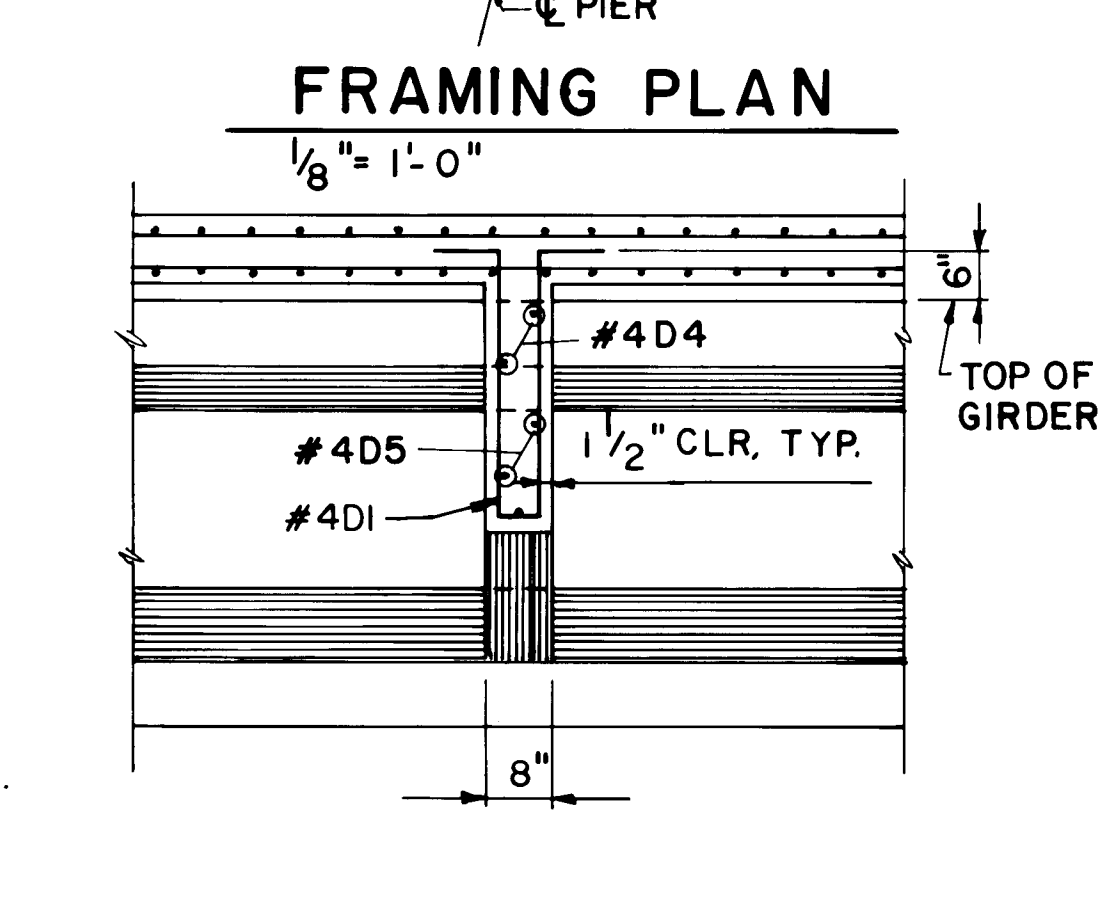
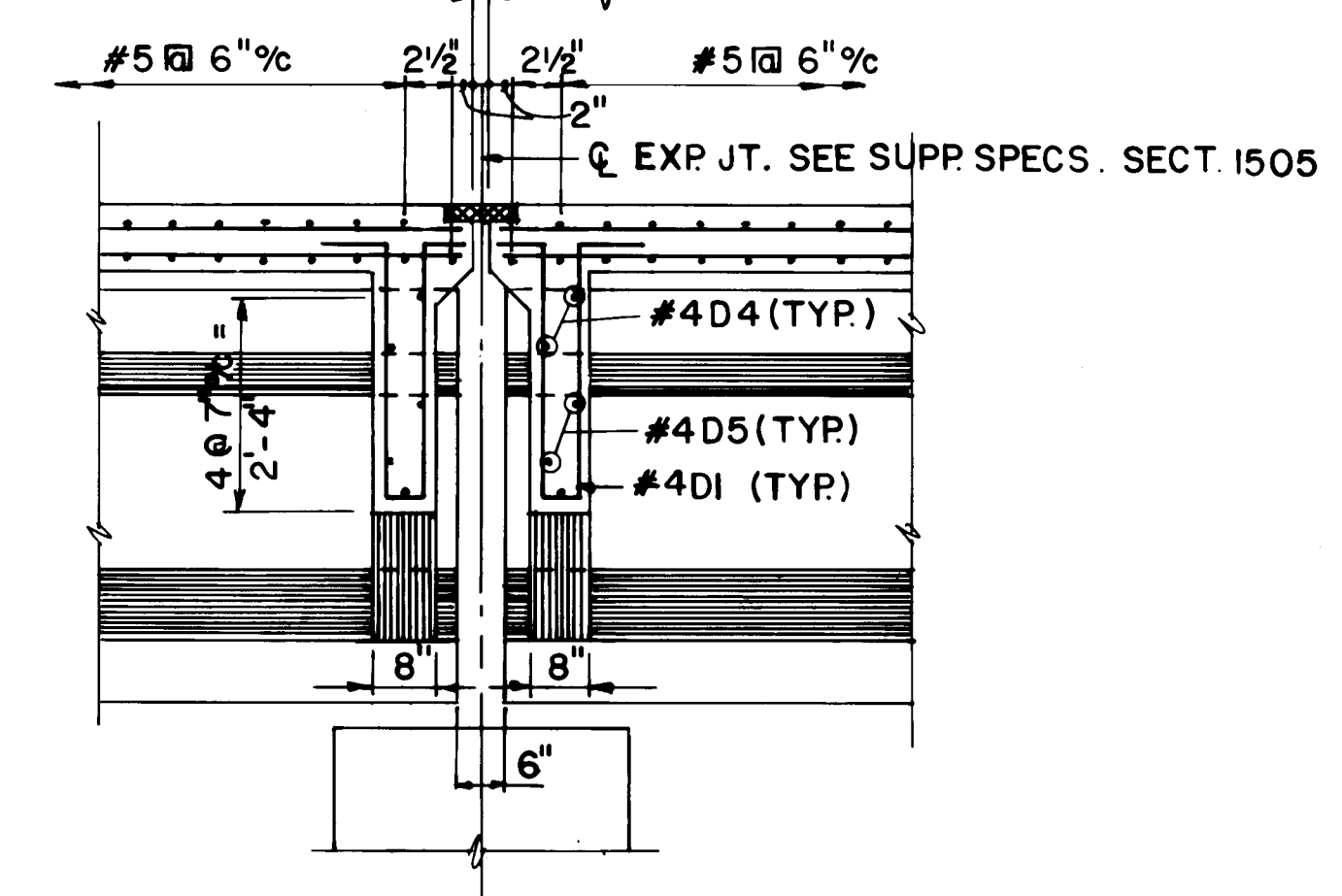
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE

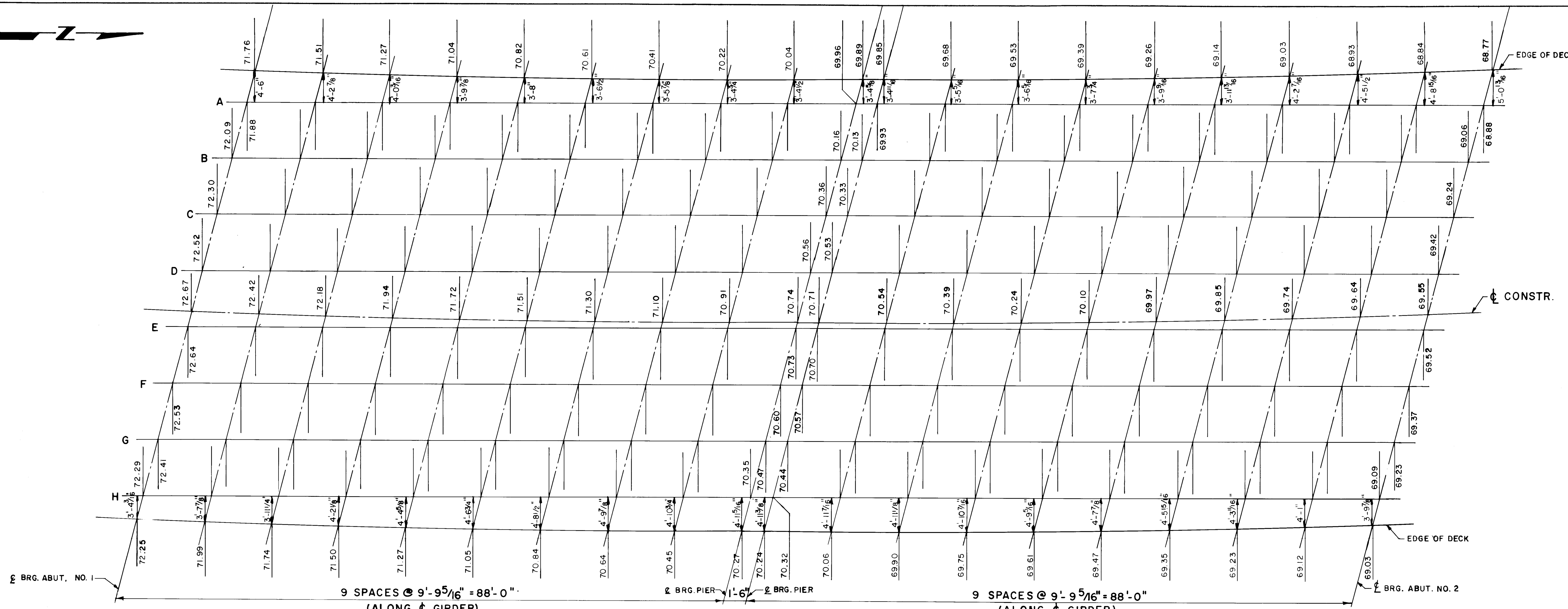
DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE

APPROVALS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/86	Liquid Waste	<i>[Signature]</i>	4/11/86
A-G-E-Design	<i>[Signature]</i>	6/24/86	Traffic	<i>[Signature]</i>	6/24/86
A-G-E-Hydrology	<i>[Signature]</i>	6/24/86	Water	<i>[Signature]</i>	4/11/86

DRAWING NO. 1826 MAP NO. L-23-Z SHEET 54 OF 39





9 SPACES @ 9'-9 5/16" = 88'-0" (ALONG C GIRDER) SPAN NO. 1
9 SPACES @ 9'-9 5/16" = 88'-0" (ALONG C GIRDER) SPAN NO. 2

TOP OF SLAB ELEVATIONS (EL.+5500)
NO SCALE

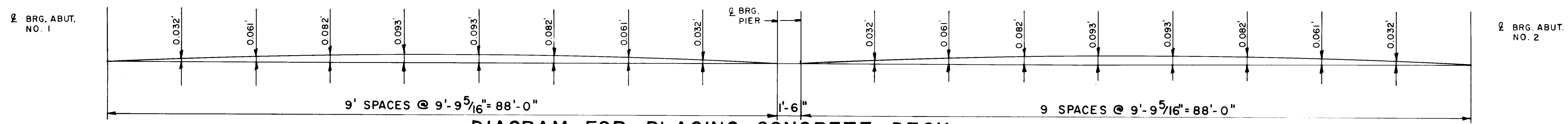
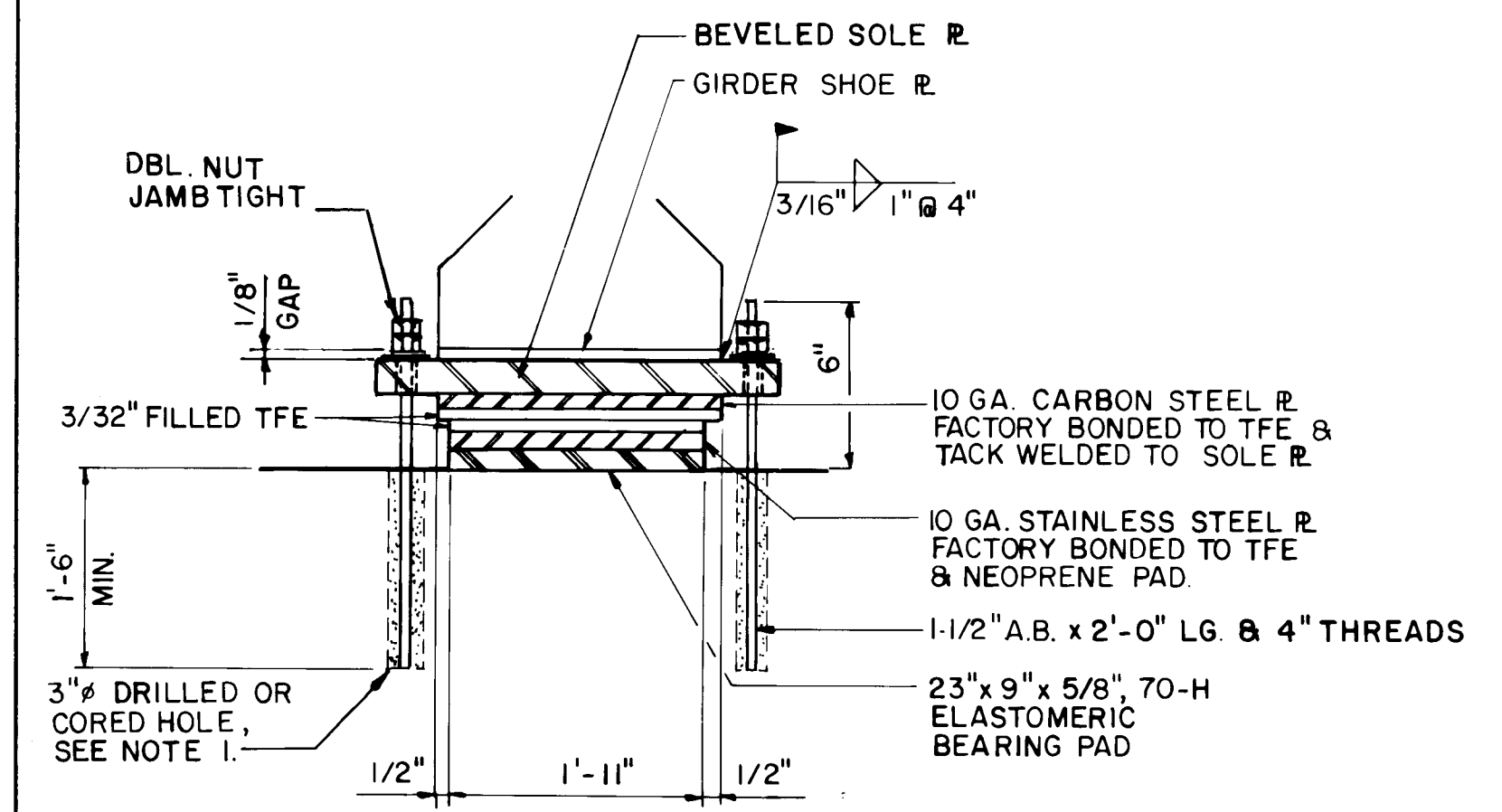
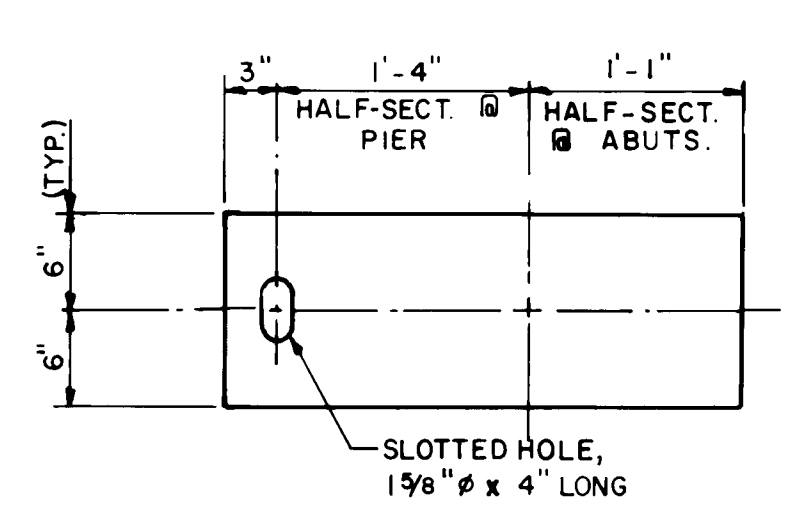


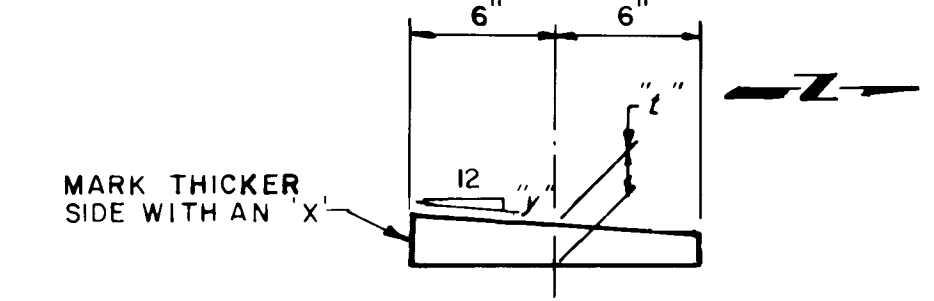
DIAGRAM FOR PLACING CONCRETE DECK
NO SCALE



EXP. BEARING - TFE @ PIER
NO SCALE

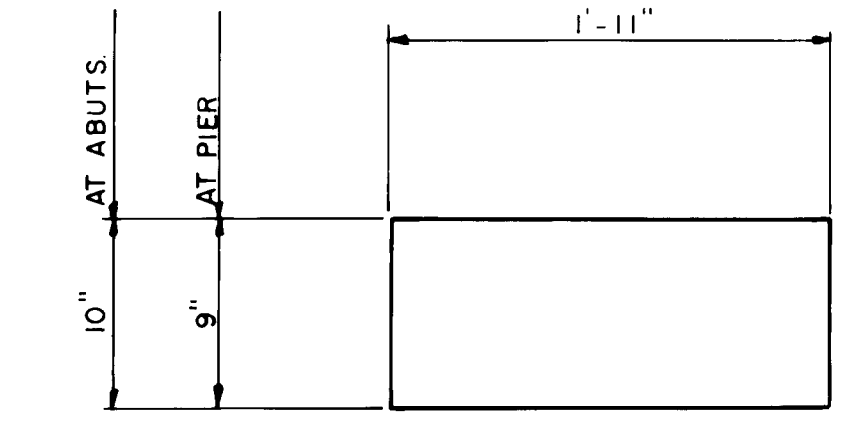


PLAN



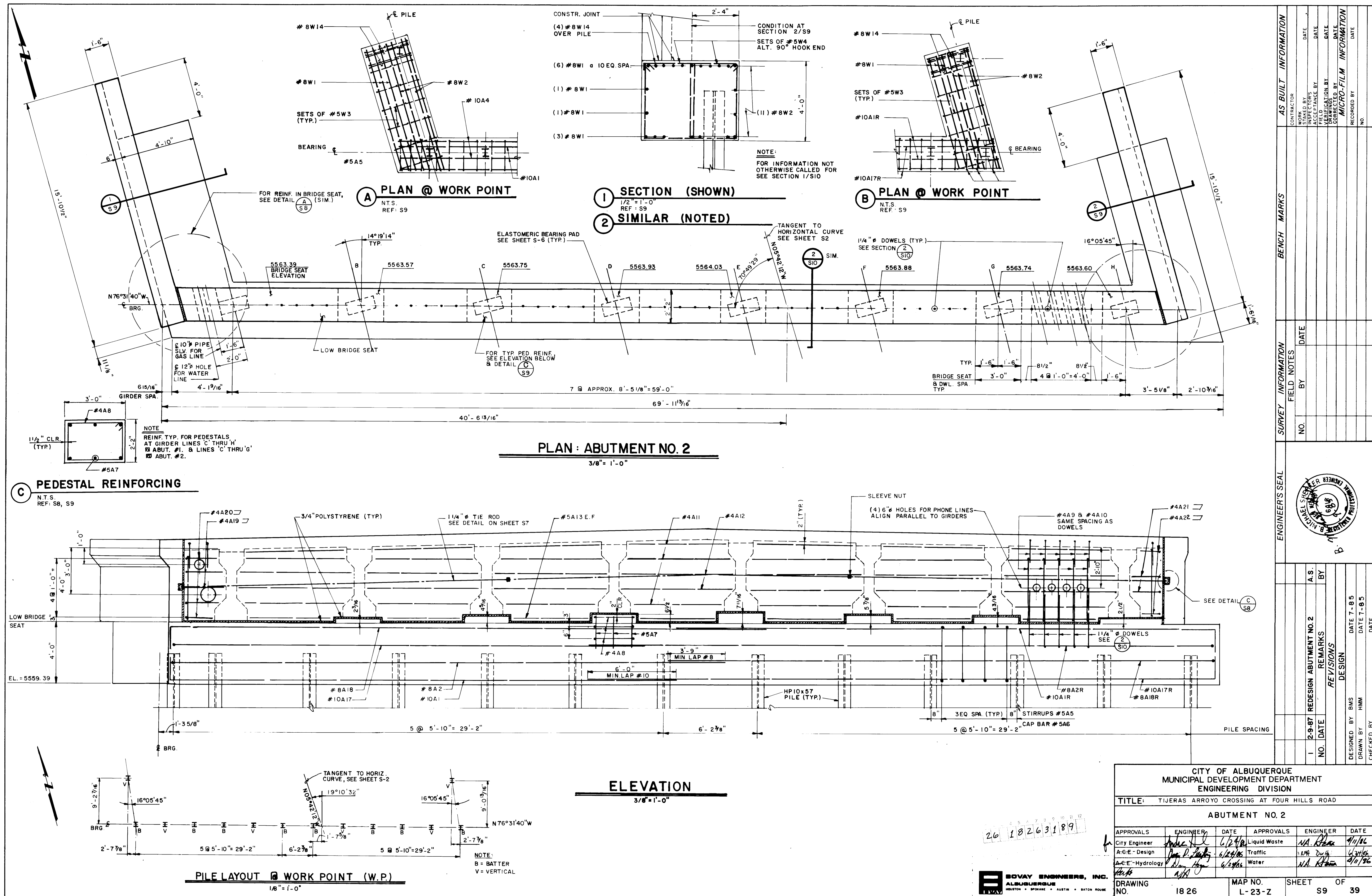
ELEVATION

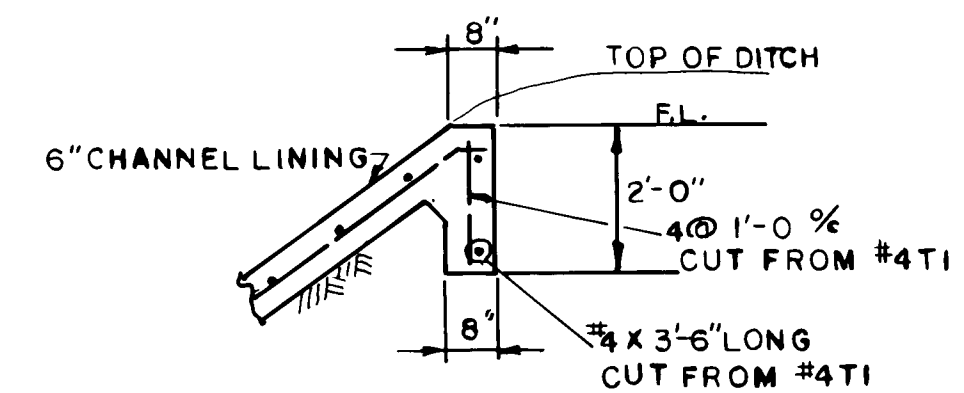
ABUT. NO. 1	PIER SPAN NO. 1	PIER SPAN NO. 2	ABUT. NO. 2
1/4" 3/4" 1'-0" x 2'-2"	1/4" 1/8" 1'-0" x 3'-2"	1/8" 3/4" 1'-0" x 3'-2"	1/8" 3/4" 1'-0" x 2'-2"
8	8	5	5
		3	3



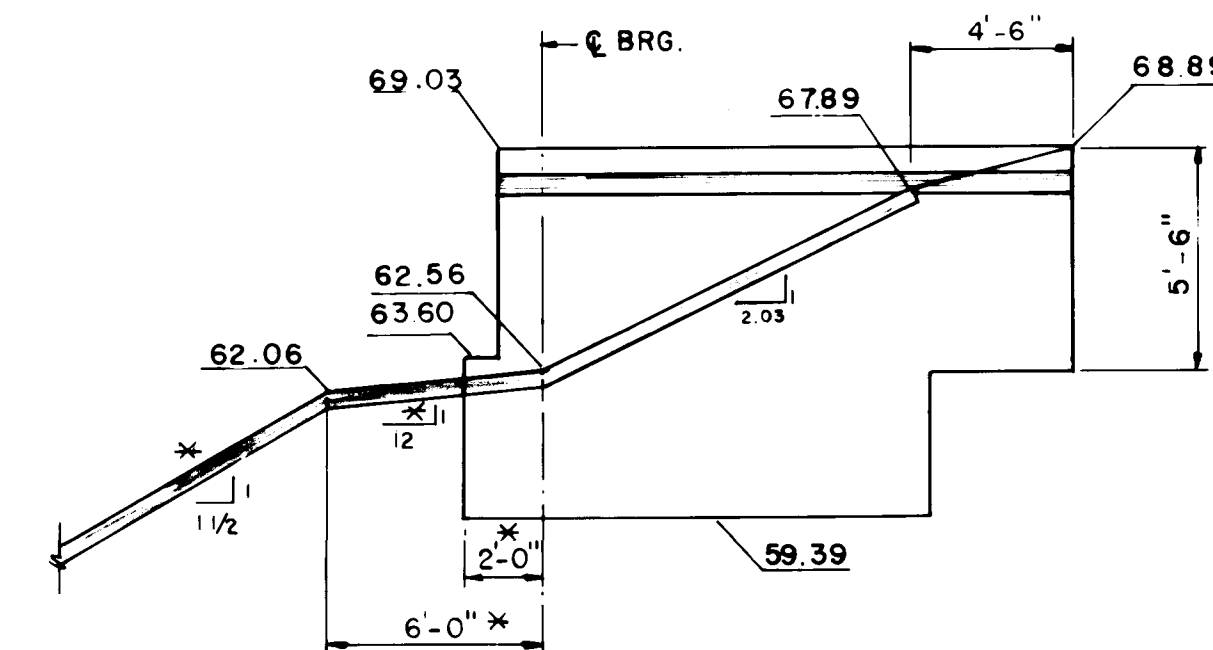
5/8" ELASTOMERIC BEARING PAD
NO SCALE

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS			DESIGN		
CONTRACTOR	INSPECTOR'S	DATE	STATION	DATE	DATE	NO.	BY	DATE	ENGINEER'S SEAL	MSD	BY	NO.	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION																	
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD																	
TOP OF SLAB ELEVATIONS																	
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE												
City Engineer	1/29/86	1/29/86	Liquid Waste	N.A. R. R.	4/1/86												
A-E-Design	1/29/86	1/29/86	Traffic	N.A. R. R.	4/1/86												
A-E-Hydrology	1/29/86	1/29/86	Water	N.A. R. R.	4/1/86												
DRAWING NO. 18 26 MAP NO. L-23-Z SHEET 56 OF 39																	

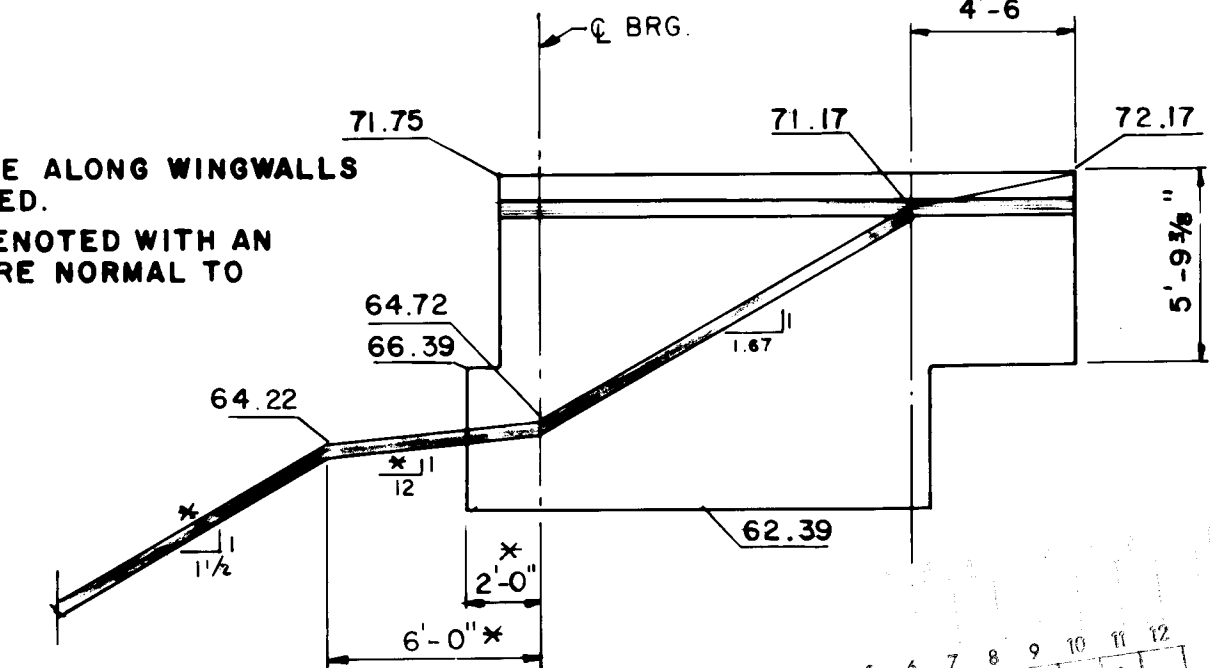




1a CUT OFF WALL @ DITCH
3/8 = 1-0
REF: S2



ABUT. 2



ABUT. I

WINGWALL ELEVATIONS

2 ABUTMENT SECTION
1/2" = 1'-0"
REF: S8, S9

3 **DETAIL**
NO SCALE

NOTE:

1. ELEVATIONS ARE ALONG WINGW. EXCEPT AS NOTED.
2. ELEVATIONS DENOTED WITH AN ASTERIK (*) ARE NORMAL TO BEARING.

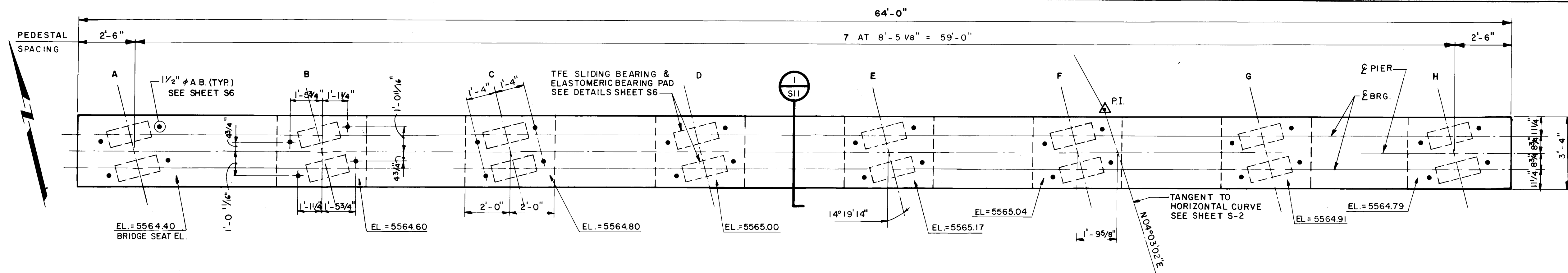
SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES					
NO.	BY	DATE			
			WORK STARTED BY		DATE
			ACCEPTANCE BY		DATE
			FIELD DRAWINGS		DATE
			CORRECTED BY		DATE
			MICRO-FILM INFORMATION		
			RECORDED BY		DATE
			NO.		

[illegible]

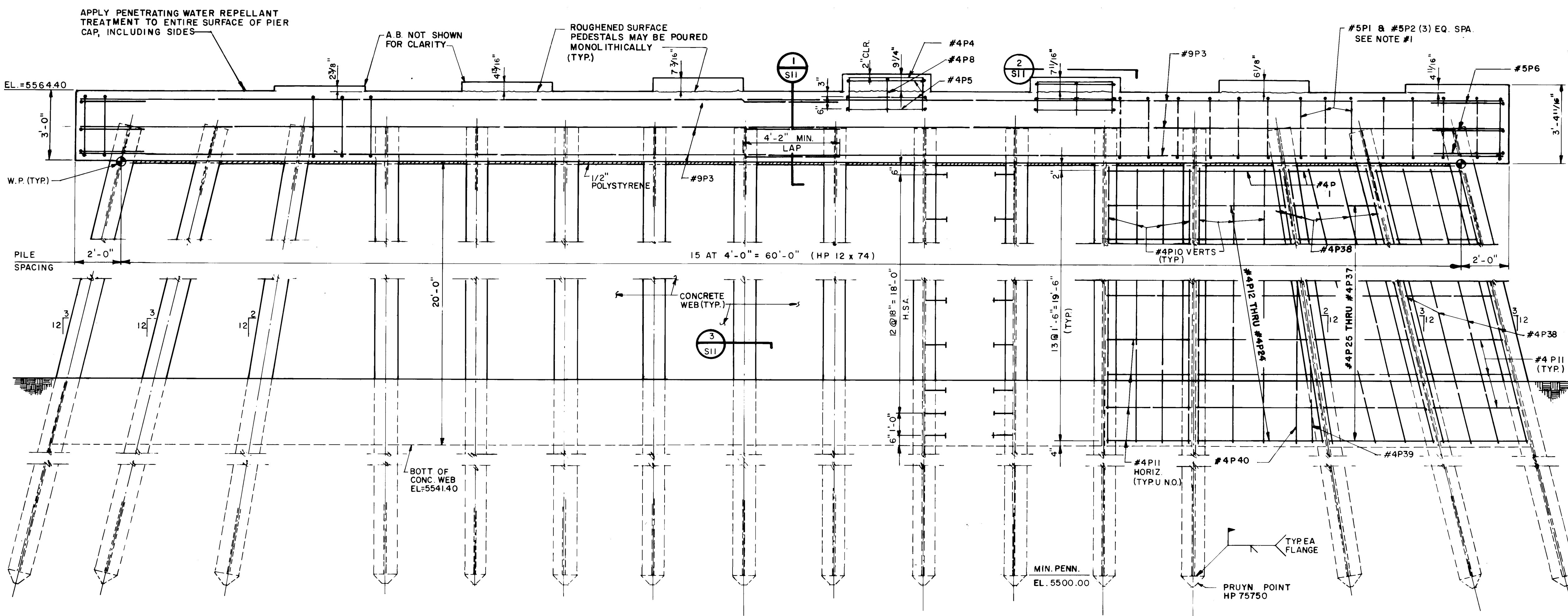
BOVEY ENGINEERS, INC.
ALBUQUERQUE
 DALLAS • DENV. • HOUSTON • SPOKANE • AUSTIN • BATON ROUGE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

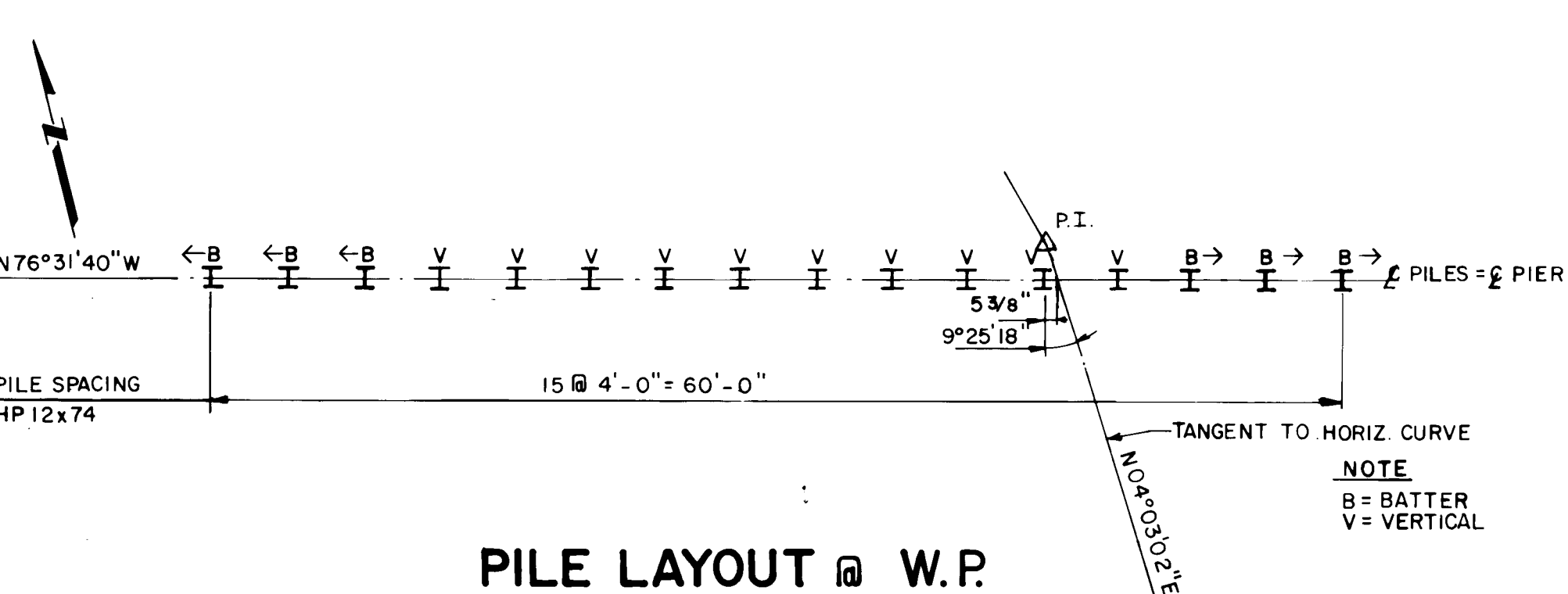
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
WINGWALLS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/22/86	Liquid Waste	W.A. Roca	4/1/86
A.C.E. - Design	<i>[Signature]</i>	6/23/86	Traffic	W.A. Roca	6/23/86
A.C.E. - Hydrology	<i>[Signature]</i>	6/23/86	Water	W.A. Roca	4/1/86
<i>[Signature]</i>	<i>[Signature]</i>				
DRAWING NO. 1826		MAP NO. L-23-Z		SHEET OF 39	



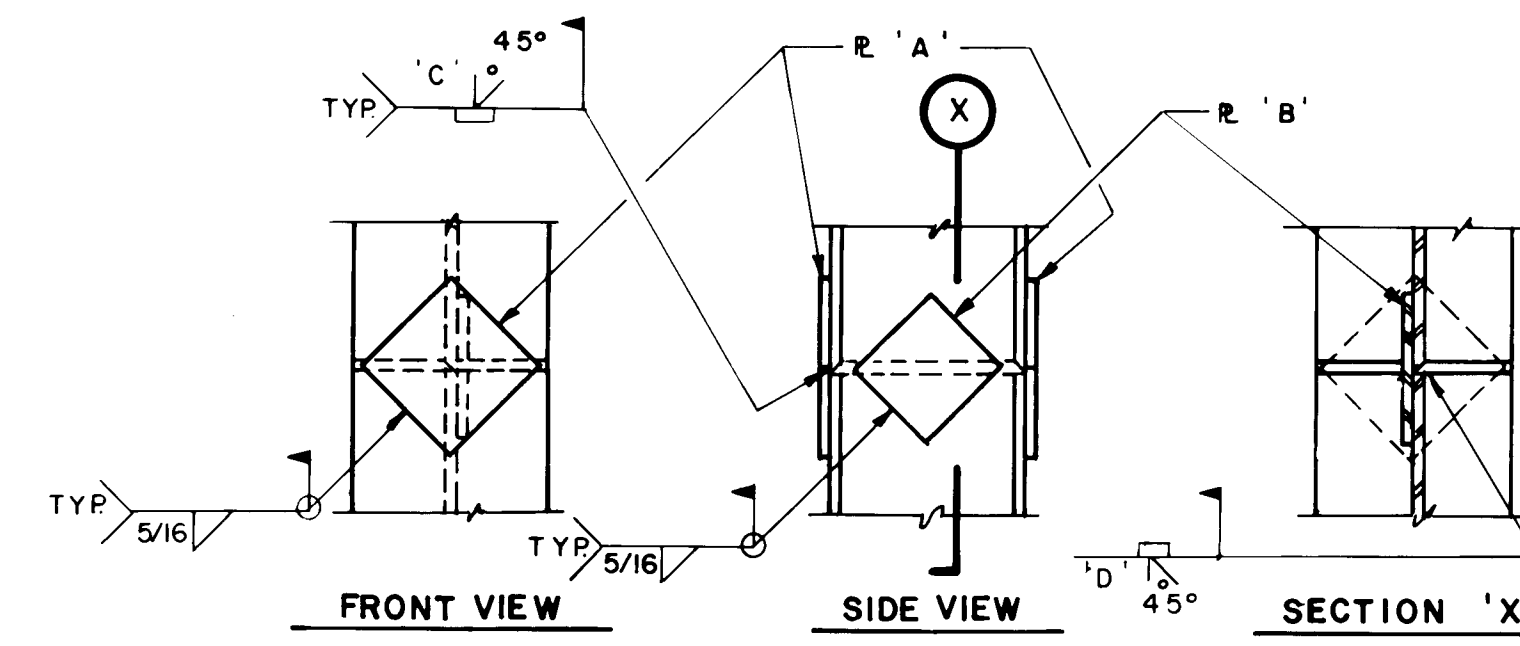
PLAN OF PIER CAP
3/8" = 1'-0"



ELEVATION
3/8" = 1'-0"



PILE LAYOUT @ W.P.

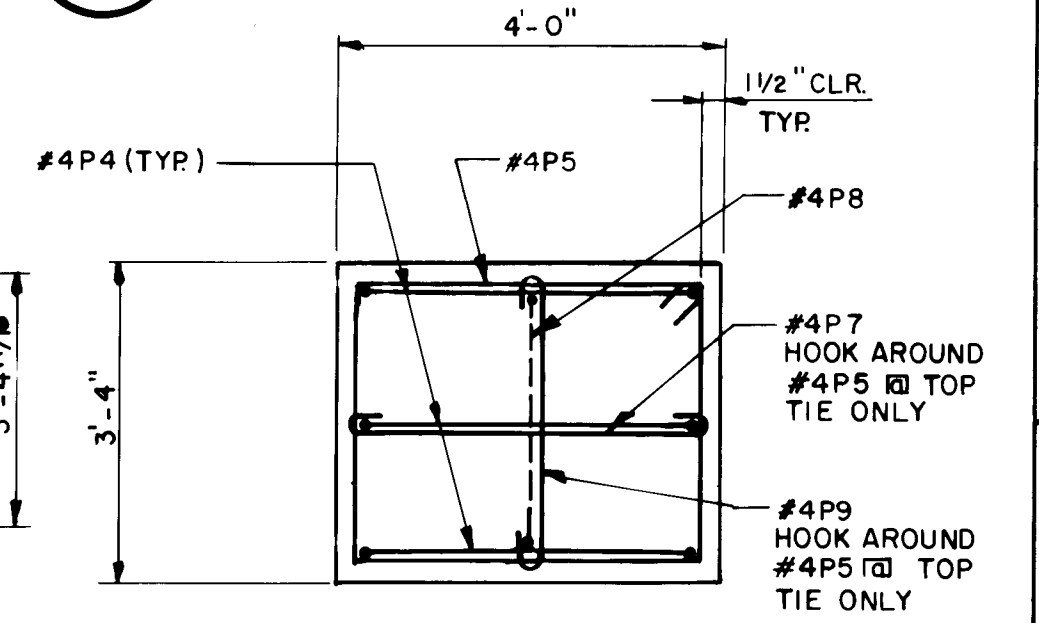


FIELD SPLICE FOR STEEL BEARING PILES

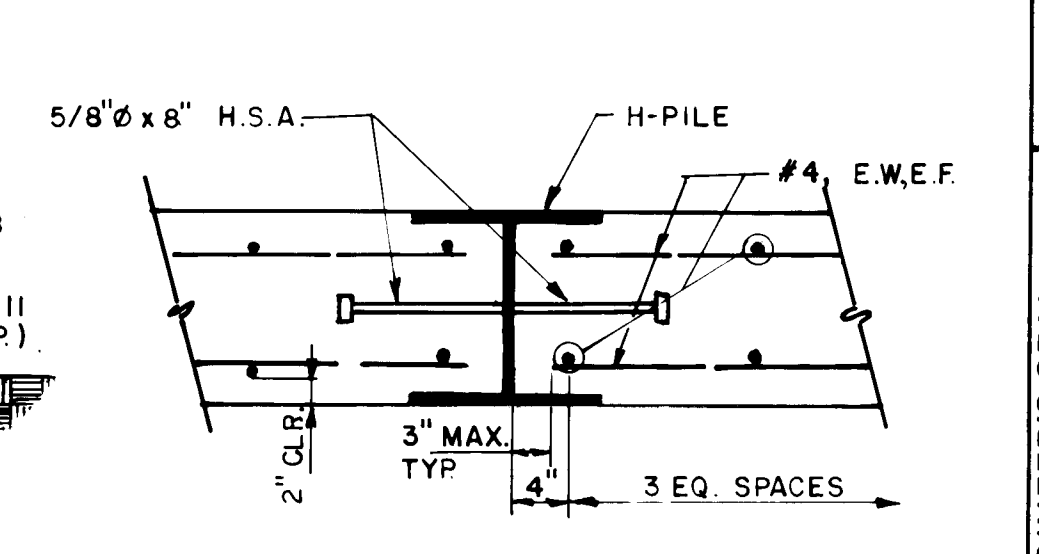
HP BEARING PILES	R 'A'	R 'B'	WELD 'C'	WELD 'D'
HP 10x57	1/2 x 6 1/2 x 6 1/2	1/2 x 5 1/2 x 5 1/2	1/2" 45°	1/2" 45°
HP 12x74	1/2 x 8 x 8	1/2 x 6 1/2 x 6 1/2	1/2" 45°	1/2" 45°

SPICE PLATES SHALL BE A36 STEEL

1 SECTION
1/2" = 1'-0"



2 DETAIL
TYPICAL PEDESTAL PLAN @ LINE 'C' THRU 'H'
1/2" = 1'-0"



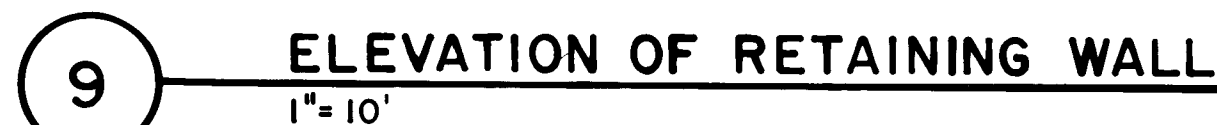
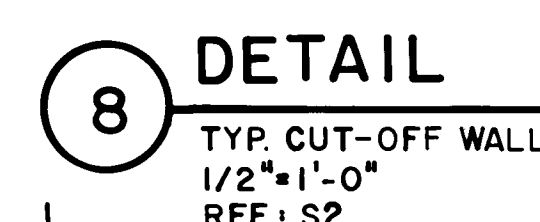
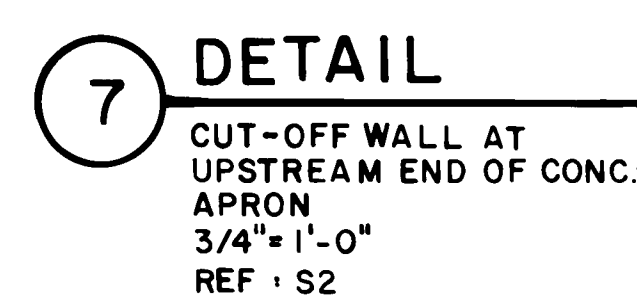
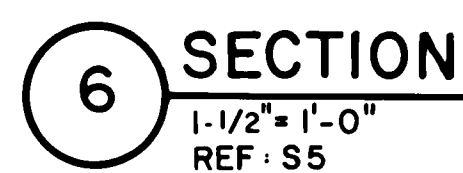
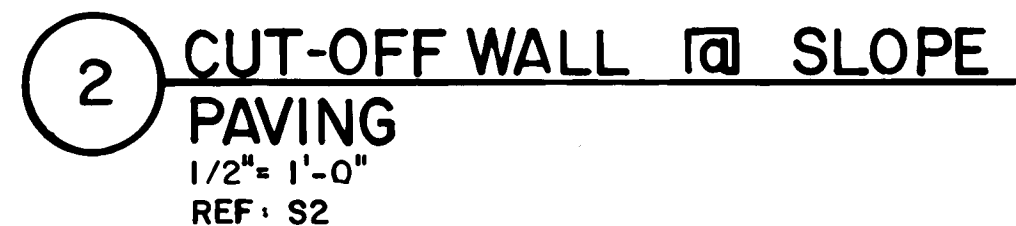
3 SECTION
TYP. CONC. WEB
1" = 1'-0"

- NOTES - PIER**
- BEFORE THE PIER CAP IS POURED THE CONTRACTOR SHALL LOCATE THE POSITION OF ALL ANCHOR BOLTS. STIRRUP BARS SHALL BE RELOCATED AS REQUIRED SO AS TO PROVIDE A MINIMUM OF 2" CLEAR BETWEEN CORED HOLE & RE-BAR. DISREGARD THIS NOTE IF CAST IN PLACE ANCHORS ARE USED.
 - AT HIS OPTION, THE CONTRACTOR MAY USE CAST-IN-PLACE ANCHOR BOLTS OF THE SAME DIAMETER & LENGTH AS SHOWN ON S-6 EXCEPT THAT ALL ANCHORS SHALL HAVE A 4" HOOK. THESE ANCHORS SHALL BE SECURELY FASTENED & SET WITH A TEMPLATE IN THE EXACT LOCATION SHOWN. ADJUST STIRRUP LOCATIONS AS REQUIRED.

BOVAY ENGINEERS, INC.
ALBUQUERQUE
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CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
PIER					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4/24/86	Liquid Waste	<i>[Signature]</i>	4/1/86
A-E-E Design	<i>[Signature]</i>	4/24/86	Traffic	<i>[Signature]</i>	4/1/86
A-E-E Hydrology	<i>[Signature]</i>	4/24/86	Water	<i>[Signature]</i>	4/1/86
DRAWING NO. 1826 MAP NO. L-23-Z SHEET OF 39					

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORK STAKED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR'S FIELD CHECK	DATE	NO.	DATE	NO.	DATE	NO.	DATE
FIELD CORRECTION BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION		REVISIONS		DESIGN		REVISIONS	
NO.		DATE		DATE		DATE	
NO.		DATE		DATE		DATE	


BOVAY ENGINEERS, INC.
ALBUQUERQUE
 HOUSTON • SPOKANE • AUSTIN • BATON ROUGE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
MISCELLANEOUS DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	6/24/06	Liquid Waste	NA. <i>[Signature]</i>	4/11/06
A-E - Design	<i>[Signature]</i>	6/24/06	Traffic	NA. <i>[Signature]</i>	4/11/06
A-E - Hydrology	<i>[Signature]</i>	6/24/06	Water	NA. <i>[Signature]</i>	4/14/06
DRAWING NO. 1826		MAP NO. L-23-Z		SHEET OF 39	

REINFORCING SCHEDULE FOR SUPERSTRUCTURE						
DECK SLAB-SPAN 1						
BAR NO.	TYPE	DIMENSIONS			QUAN.	REMARKS
		"A"	"B"	"C"	LENGTH	
# 5S1	I				179	31'-8"
# 5S2	I				179	37'-1"
# 5S3 *	I				356	34'-5"
# 3S7 *	I					DELETED
# 3S8 *	I				89	52'-0"
# 3S9 *	I				87	38'-0"
# 3S10 *	I				2	24'-0"
# 4S11	I					DELETED
# 4S12	I				75	60'-0"
# 4S13	I				73	30'-0"
# 4S14	I				2	24'-0"
DECK SLAB-SPAN 2						
BAR NO.	TYPE	DIMENSIONS			QUAN.	REMARKS
		"A"	"B"	"C"	LENGTH	
# 5S1	I				179	31'-8"
# 5S4 *	I				356	34'-8"
# 5S5	I				179	37'-7"
# 5S6	I					DELETED
# 3S8 *	I				89	52'-0"
# 3S9 *	I				87	38'-0"
# 3S10 *	I				2	24'-0"
# 4S12	I				75	60'-0"
# 4S13	I				73	30'-0"
# 4S14	I				2	24'-0"
DIAPHRAGMS (TOTAL)						
BAR NO.	TYPE	DIMENSIONS			QUAN.	REMARKS
		"A"	"B"	"C"	LENGTH	
# 4D1	3	2'-9"	4 1/2"	8"	210	7'-0"
# 4D2	3	4'-2"	4 1/2"	8"	84	9'-10"
# 4D3	2	2'-8"	-	-	168	3'-6"
# 4D4	1	-	-	-	84	6'-4"
# 4D5	1	-	-	-	84	7'-5"
APPROACH SLABS (2)						
BAR NO.	TYPE	DIMENSIONS			QUAN.	REMARKS
		"A"	"B"	"C"	LENGTH	
# 4AS1 *	I				60	33'-0"
# 5AS2	I				60	33'-0"
# 4AS3 *	I				126	14'-2"
# 8AS4	5	14'-2"	11"	-	168	15'-1"
# 4AS5	I				64	2'-0"
# 5AS6 *	I				26	20'-2" ATTENUATOR PAD
# 5AS7 *	I				22	4'-3" ATTENUATOR PAD
CONCRETE WALL BARRIER						
BAR NO.	TYPE	DIMENSIONS			QUAN.	REMARKS
		"A"	"B"	"C"	LENGTH	
# 4C1	I				48	45'-4" TO BRIDGE
# 4C2	6	2'-4"	2 1/2"		452	4'-9"
# 4C3	I				24	22'-2" TO APPROACHES
NOTE: * = DENOTES EPOXY-COATED REBAR. REBAR FABRICATOR SHALL VERIFY REINFORCING BAR SCHEDULE.						

REINFORCING SCHEDULE FOR SUBSTRUCTURE															
ABUTMENT NO. 1							WINGWALLS AT ABUTMENT NO. 1								
BAR NO.	TYPE	DIMENSIONS			QUAN.	LENGTH	REMARKS	BAR NO.	TYPE	DIMENSIONS			QUAN.	LENGTH	REMARKS
		"A"	"B"	"C"						"A"	"B"	"C"			
# 10A1	2	40'-0"	-	-	8	41'-6"		# 8W1	1				14	12'-7"	
# 8A2	2	42'-0"	-	-	4	43'-3"		# 8W2	1				14	12'-10"	
# 8A3	2	27'-6"	-	-	4	28'-9"		# 5W3	8	3'-7"	8"	2'-2½"	20	10'-7"	
# 10A4	2	31'-9"	-	-	8	33'-5"		# 5W4	7	2'-2¾"	8"	-	20	3'-4¾"	
# 5A5	8	3'-7¾"	8"	3'-8¾"	46	12'-2"		# 6W5	1	-	-	-	4	1'-8"	GRADE 40
# 5A6	7	3'-8¾"	8"	-	46	4'-10"		# 4W6	1	-	-	-	26	7'-0"	GRADE 40
# 5A7	1				36	1'-10"		# 5W7	1				26	7'-3"	GRADE 40
# 4A8	9	1'-10½"	6½"	2'-8¾"	18	10'-19½"		# 4W8	1				28	15'-6"	
# 4A9	9	4'-4"	6½"	1'-10½"	37	13'-4¾"		# 3W9	4	1'-2¾"	6½"	4"	34	3'-0"	
# 4A10	2	2'-5"	-	-	38	3'-1"		# 4W10	1				8	5'-11"	E WINGWALL
# 4A11	1				21	5'-10"		# 4W11	1				8	5'-5"	W WINGWALL
# 4A12	1				14	7'-5"									
# 5A13	1				14	5'-0"									
# 4A14	10	1'-9½"	1'-8"	4¾"	3	5'-1"									
# 4A15	10	1'-9½"	2'-4"	4¾"	2	6'-5"									
# 4A16	10	1'-9½"	1'-2"	4¾"	2	4'-1"									

BAR TYPES

NOTE:
ALL DIMENSIONS ARE TO CENTER OF BARS
EXCEPT TYPES 5, 7, 8, 9 & 12, WHERE "B"
IS MEASURED TO THE OUTSIDE OF THE BAR.
ALL BARS ARE GRADE 60 (U.N.O.)

BAR SIZE	MAIN REINF.	STIRRUPS & TIES
3	1 3/16"	1 1/8"
4	1 3/8"	1 1/2"
5	2 3/16"	1 7/8"
6	2 3/8"	
7	3 1/16"	
8	3 1/2"	
9	5 3/8"	
10	6"	

NOTE:
** = RADIUS MEASURED TO CENTER
OF REBAR.

AS BUILT INFORMATION

CONTRACTOR: _____ DATE: _____

INSPECTOR: _____ DATE: _____

VERIFICATION BY: _____ DATE: _____

DRAWING NO.: _____

RECORDED BY: _____

BENCH MARKS

NO. _____ DATE: _____

SURVEY INFORMATION

FIELD NOTES: _____

ENGINEER'S SEAL

REDESIGN ABUTMENT NO. 2

REVISIONS

DESIGN

DESIGNED BY: _____ DATE: 7-85

DRAWN BY: _____ DATE: 7-85

CHECKED BY: _____ DATE: _____

SOVAY ENGINEERS, INC.

ALBUQUERQUE

HOUSTON • SPOKANE • AUSTIN • BATON ROUGE

CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

ENGINEERING DIVISION

TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD

REINFORCING BAR SCHEDULE

APPROVALS: ENGINEER DATE: 6/24/86

CITY ENGINEER: _____

DESIGN: _____

HYDROLOGY: _____

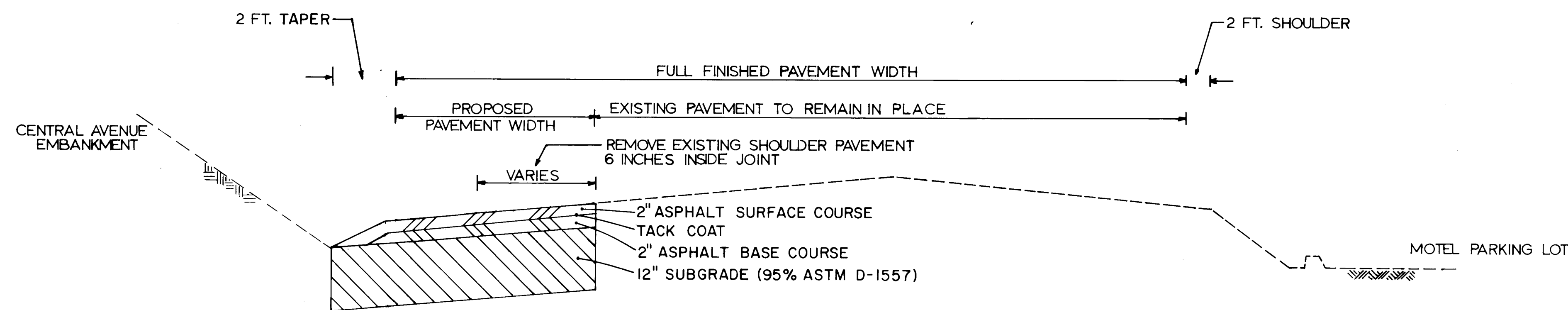
TRAFFIC: _____

WATER: _____

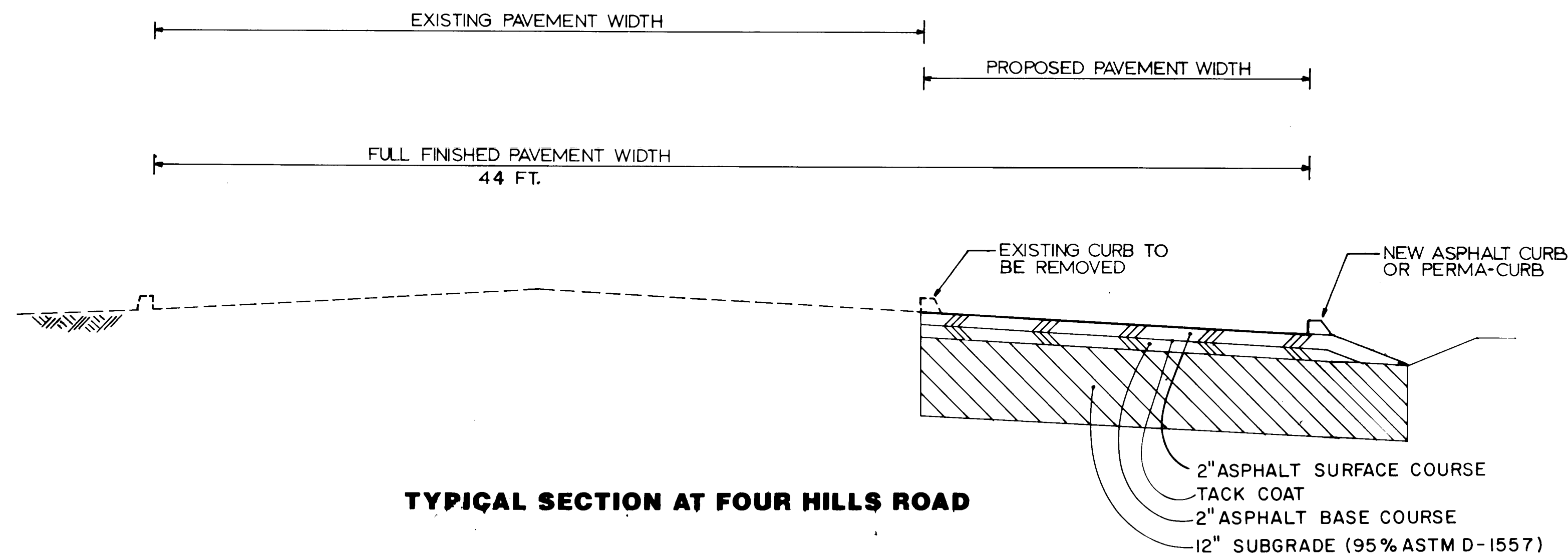
DRAWING NO.: 18 26

MAP NO.: L-23-Z

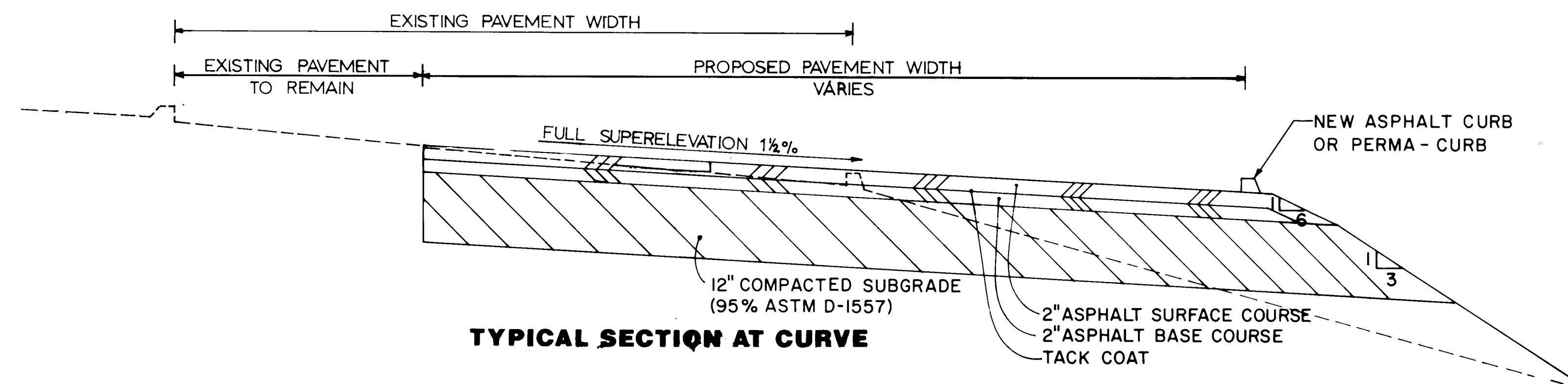
SHEET: S13 OF 39



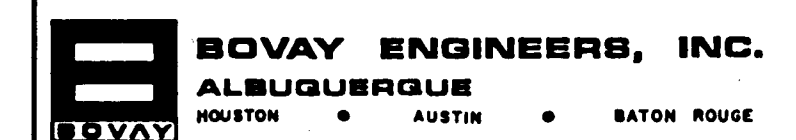
TYPICAL SECTION AT FRONTAGE ROAD



TYPICAL SECTION AT FOUR HILLS ROAD



TYPICAL SECTION AT CURVE



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD

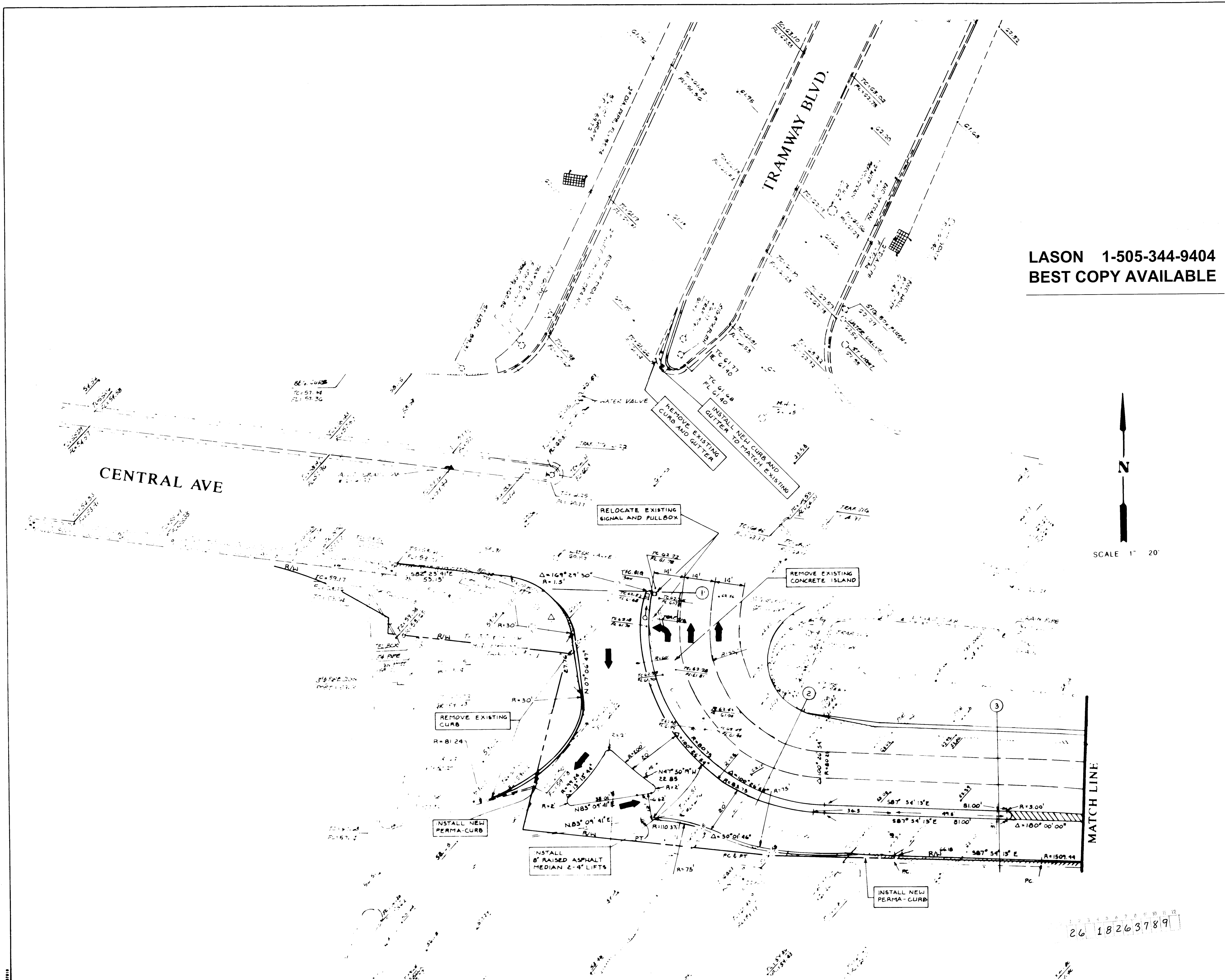
FOUR HILLS ROAD REALIGNMENT - TYPICAL SECTIONS

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

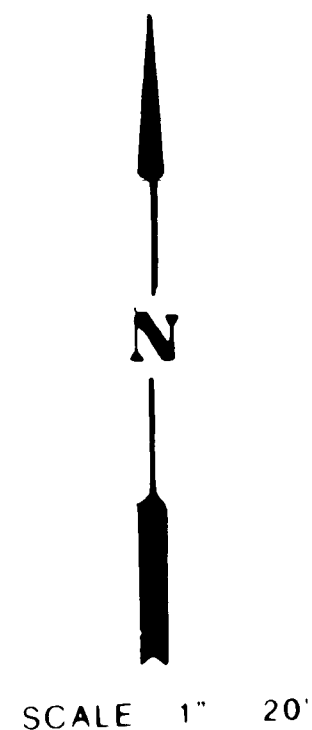
DRAWING NO. 1826 MAP NO. SHEET R1 OF 10

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS			DESIGN		
CONTRACTOR	DATE					NO.	BY	DATE				NO.	DATE	BY	DESIGNED BY	DRAWN BY	CHECKED BY
INSPECTOR'S	DATE																
FIELD CHANGE BY	DATE																
VERIFICATION BY	DATE																
FIELD CORRECTION BY	DATE																
MICRO-FILM INFORMATION																	
RECORDED BY	DATE																
NO.																	

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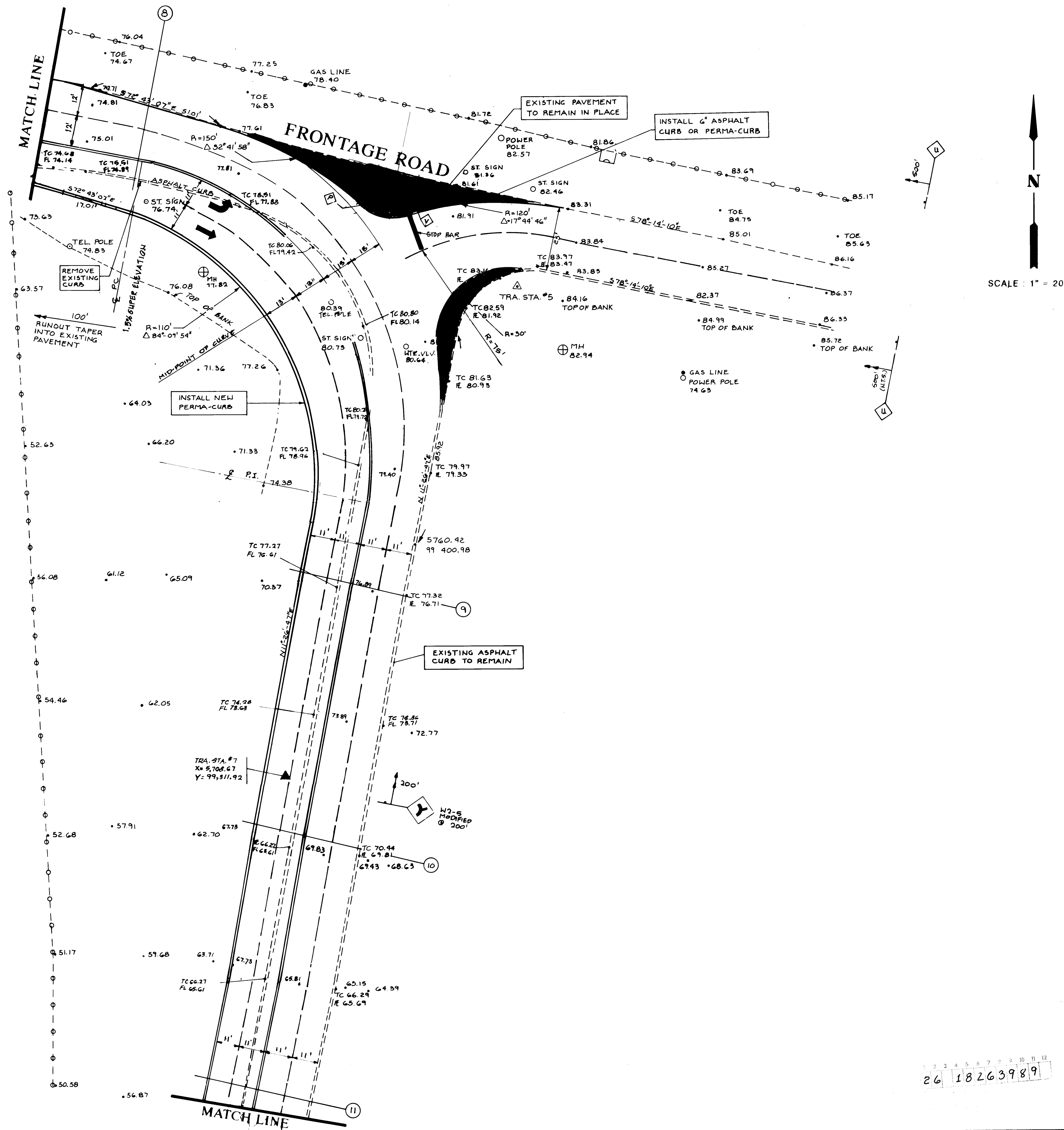


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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
FOUR HILLS ROAD REALIGNMENT - PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG Chair					
Trans Dev					
Utility Dev					
DRAWING NO. 1826		MAP NO.		SHEET R2 OF 10	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO	BY	DATE		CONTRACT NO.	DATE
						WORK ORDER NO.	DATE
						INSPECTION BY	DATE
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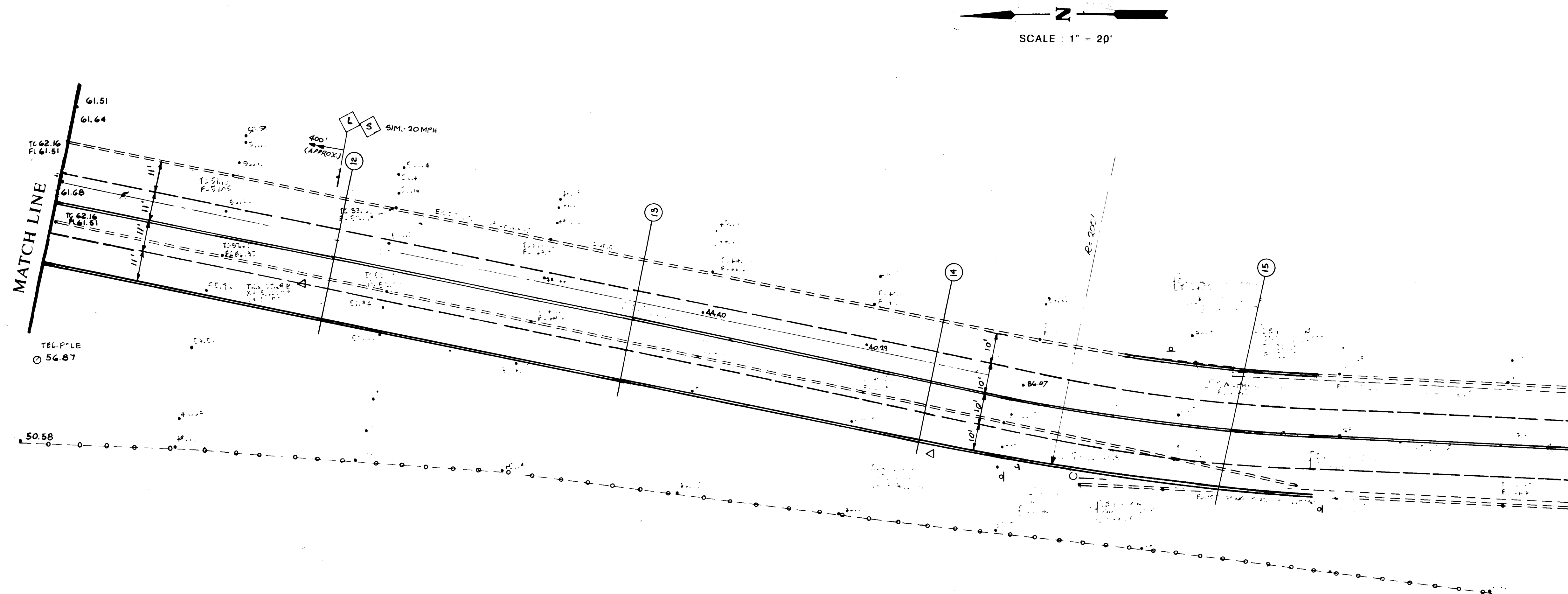


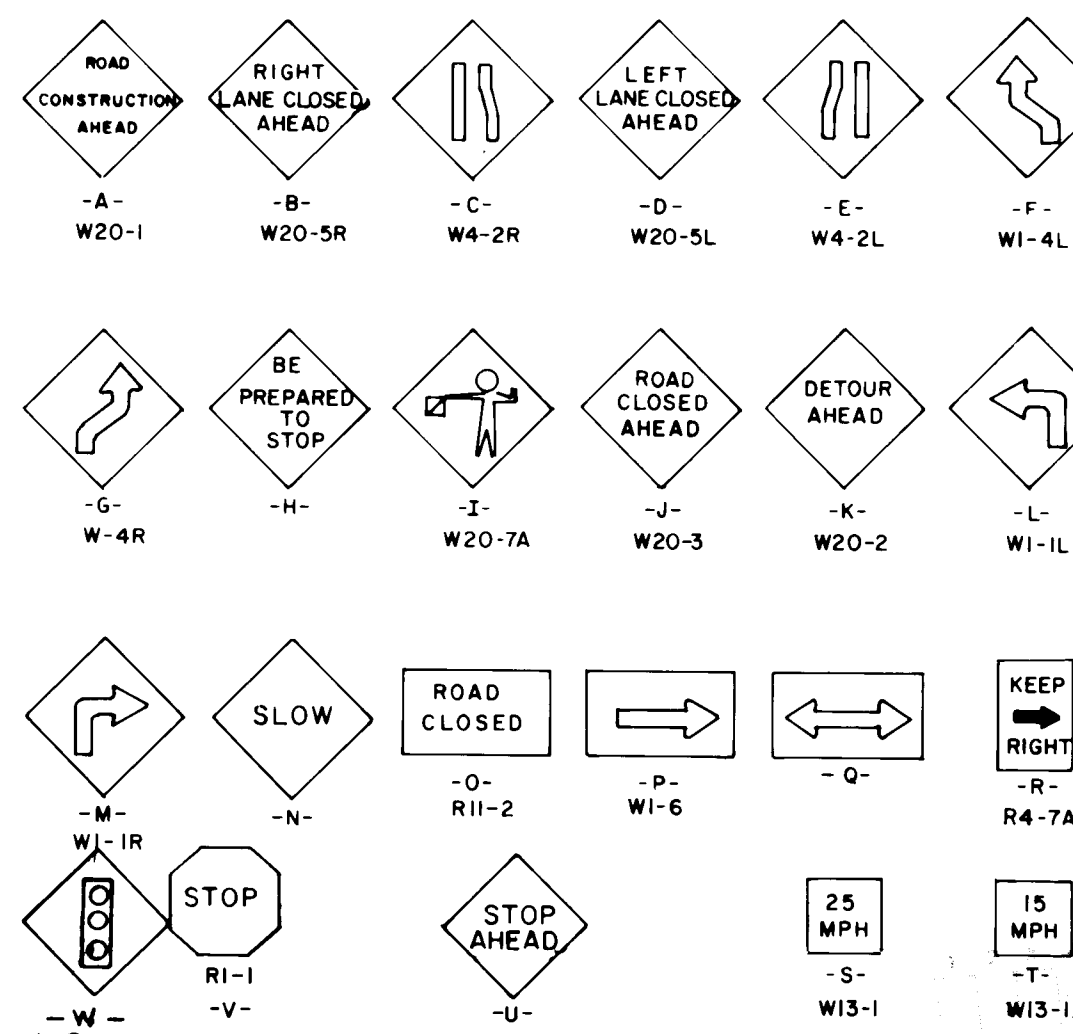
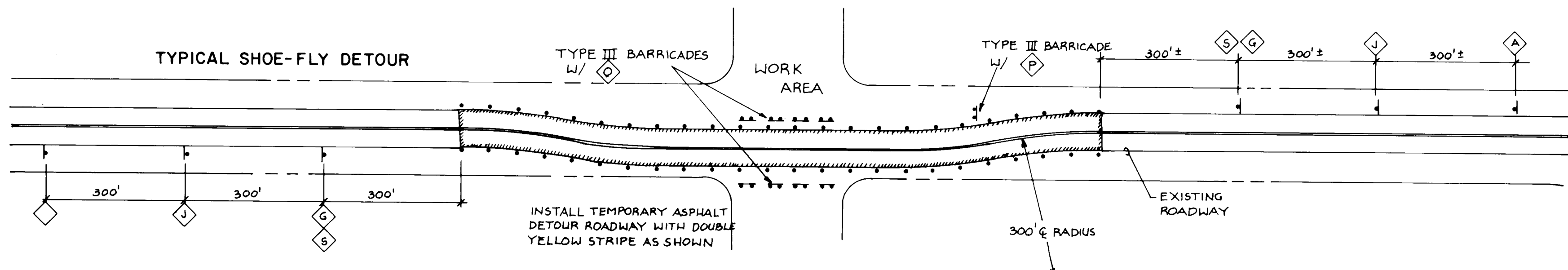
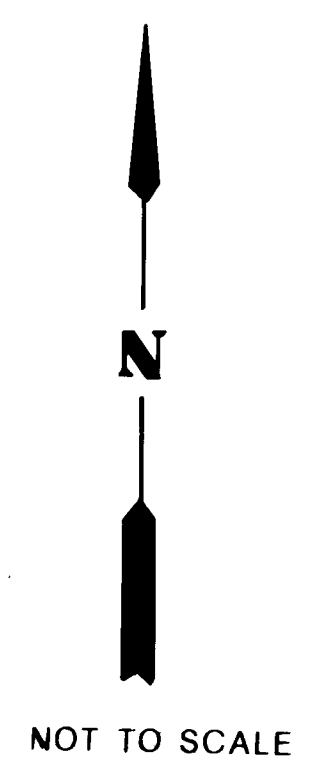
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
FOUR HILLS ROAD REALIGNMENT - PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
DRAWING NO. 1826		MAP NO.		SHEET R4 OF 10	

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS		
CONTRACTOR	WORKED BY	DATE	INSPECTOR'S	ACCEPTANCE BY	DATE	NO.	BY	DATE				NO.	DATE	BY
MICRO-FILM INFORMATION														
RECORDED BY	NO.	DATE												





TRAFFIC CONTROL NOTES

1. Contractor must comply with Section 19 of Albuquerque Standard Specs. for Public Works Construction.
2. Contractor must maintain two 11 foot lanes on 4 Hills Road and the Frontage Road at all times. Lane closures shall be limited to 9 A.M. to 4 P.M.
3. The installation of additional pavement on the frontage road between Central and 4 Hills Road shall be accomplished without disrupting the existing traffic flow pattern.
4. Contractor must notify Traffic Engineering five working days prior to completion of project so that final striping can be coordinated. Contractor must maintain the existing traffic pattern through barricading until the final striping has been completed or five working days after notice of completion date.
5. All barricades and vertical panels must have lights as per Section 19 of the Standard Specifications.
6. Construction of the intersection of 4 Hills and the Frontage Rd. shall be accomplished in three phases so that two-way traffic can be maintained on all roads at all times.

Phase 1. Contractor shall install temporary asphalt and shift traffic as shown in the plan set. Temporary asphalt is required on 4 Hills Road in order to maintain two-way traffic in up-coming phases. Construct the southwest section of the new alignment. Install all additional pavement required on 4 Hills Road between the bridge and the Frontage Road.

Phase 2. Route traffic on the completed section of new alignment as shown. Shift the traffic from the Frontage Road east of the intersection north, creating a work area for the southeast quadrant of the intersection. Construct the south quadrant of the new alignment. See phase 2. Barricades and vertical panels shall be spaced at a maximum of 10 feet when with in 100 feet of the new curve.

Phase 3. Shift traffic on the Frontage Road east of the intersection south, so that the remaining portion of the new intersection can be completed. Traffic on 4 Hills Road will remain the same as in phase 2.

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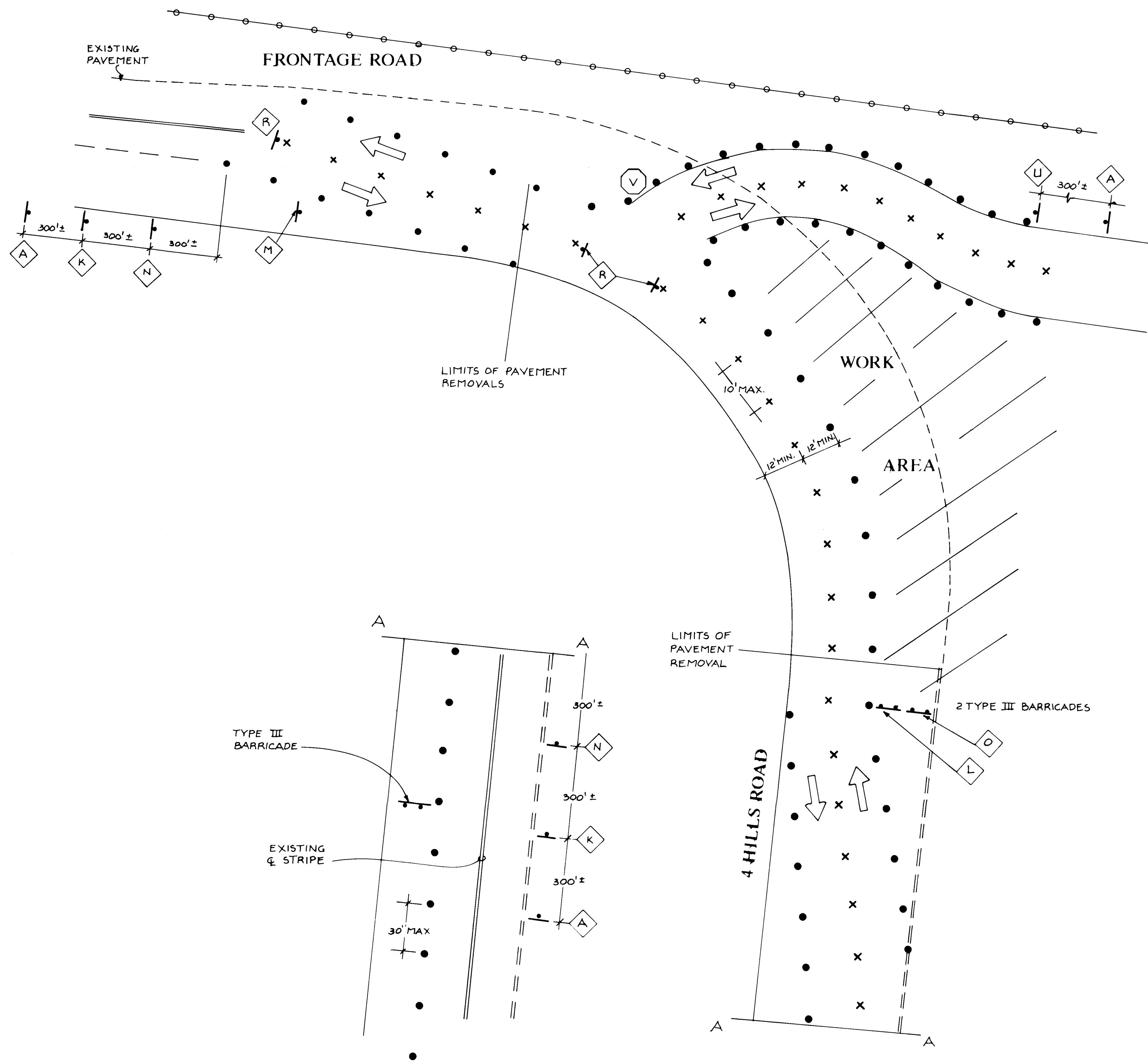
BOVAY ENGINEERS, INC.
HOUSTON • ALBUQUERQUE • BATON ROUGE
AUSTIN •

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD
FOUR HILLS ROAD REALIGNMENT - TRAFFIC CONTROL PLAN

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

DRAWING NO. 1826	MAP NO.	SHEET R6 OF 10
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD

FOUR HILLS ROAD REALIGNMENT - TRAFFIC CONTROL PLAN

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

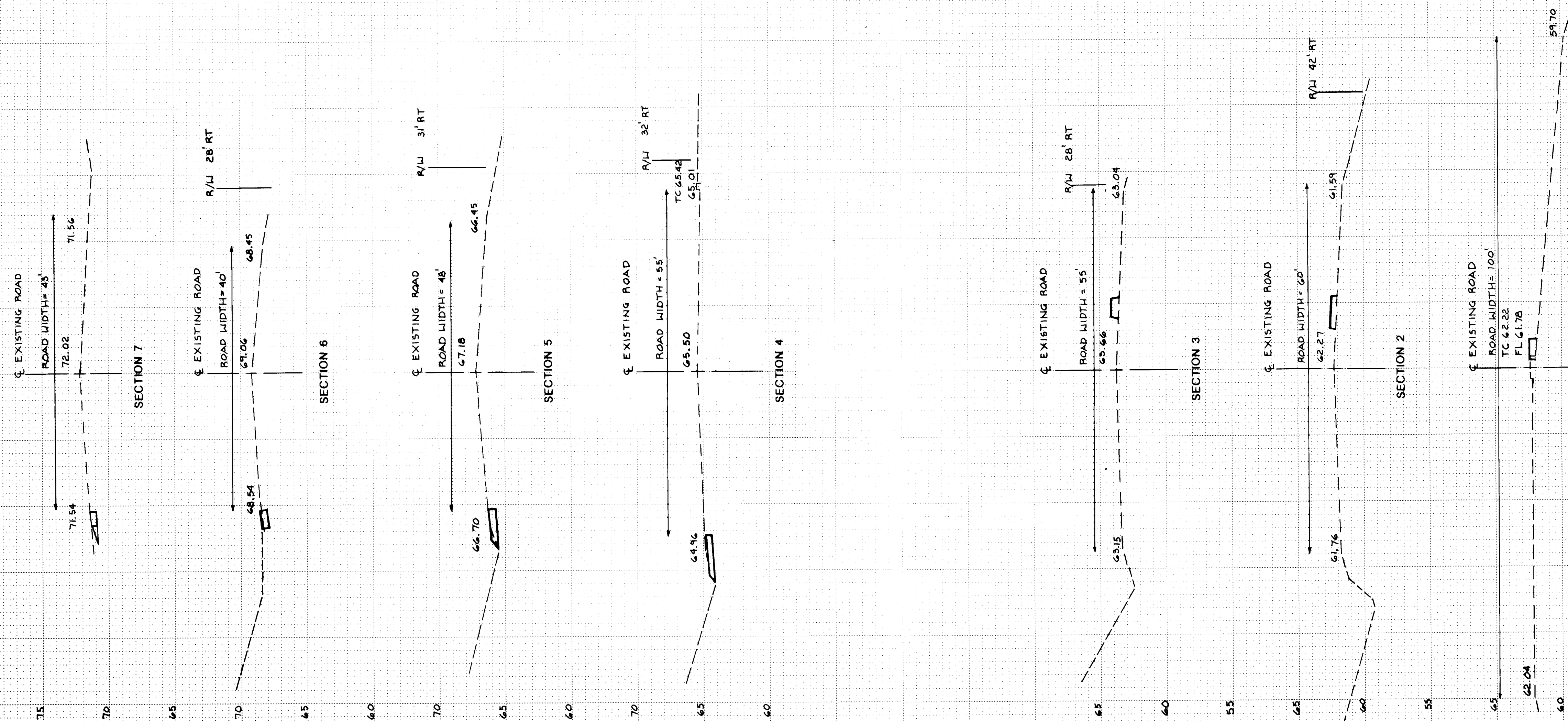
DRAWING NO. **1826**
MAP NO.
SHEET **R7** OF **10**

REVISIONS		BY	
NO.	DATE	DATE	DATE

DESIGN		CHECKED BY	
NO.	DATE	DATE	DATE

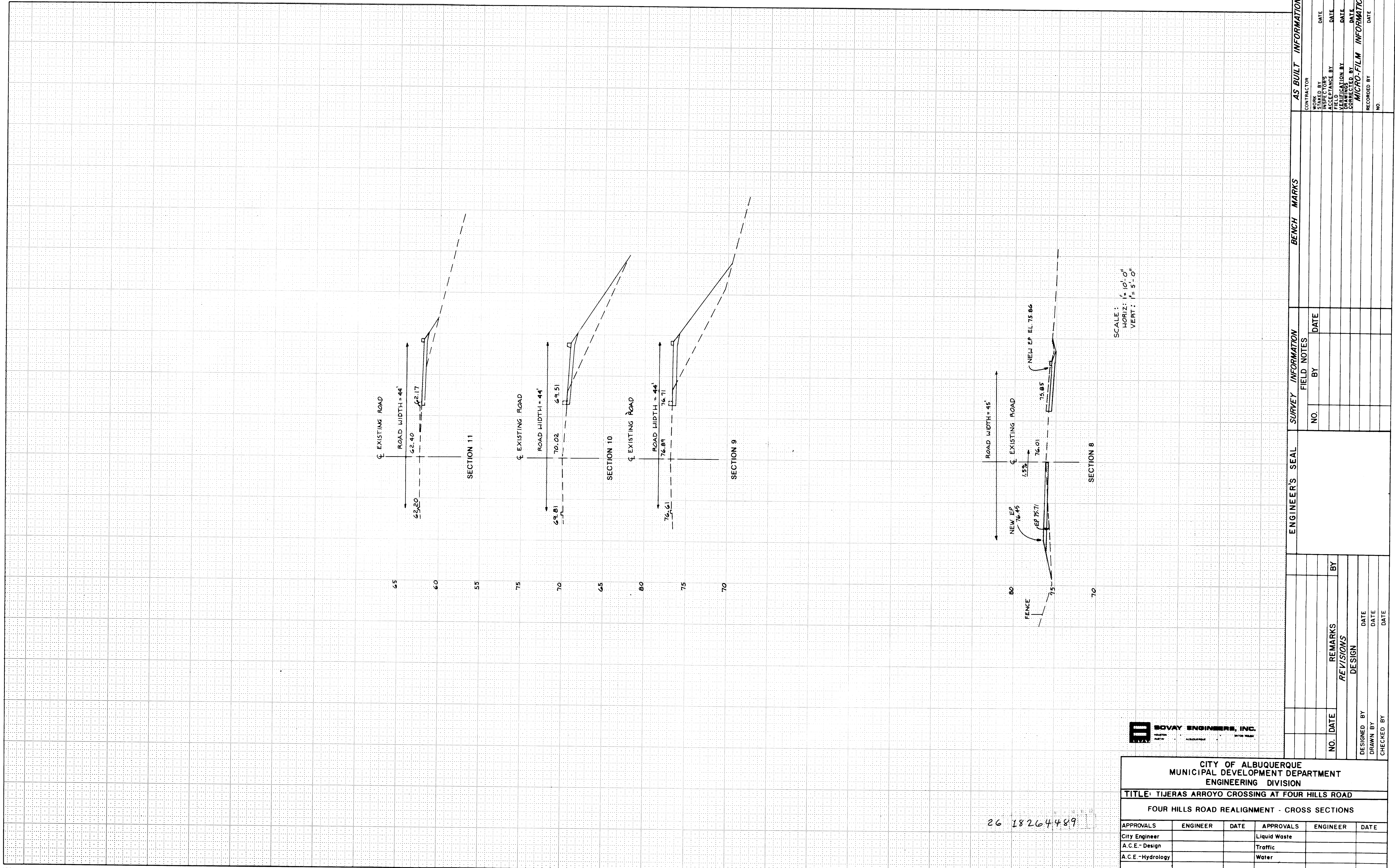
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	FIELD NO.	BY	DATE	CONTRACTOR	WORKED BY	DATE

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SCALE: "= 10'-0"
HORIZ: "= 5'-0"
VERT: "= 5'-0"

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
FOUR HILLS ROAD REALIGNMENT - CROSS SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO. 1826			SHEET R8 ^{OF} 10		

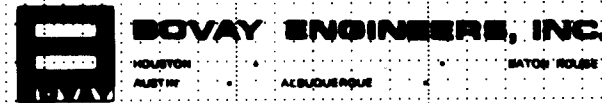
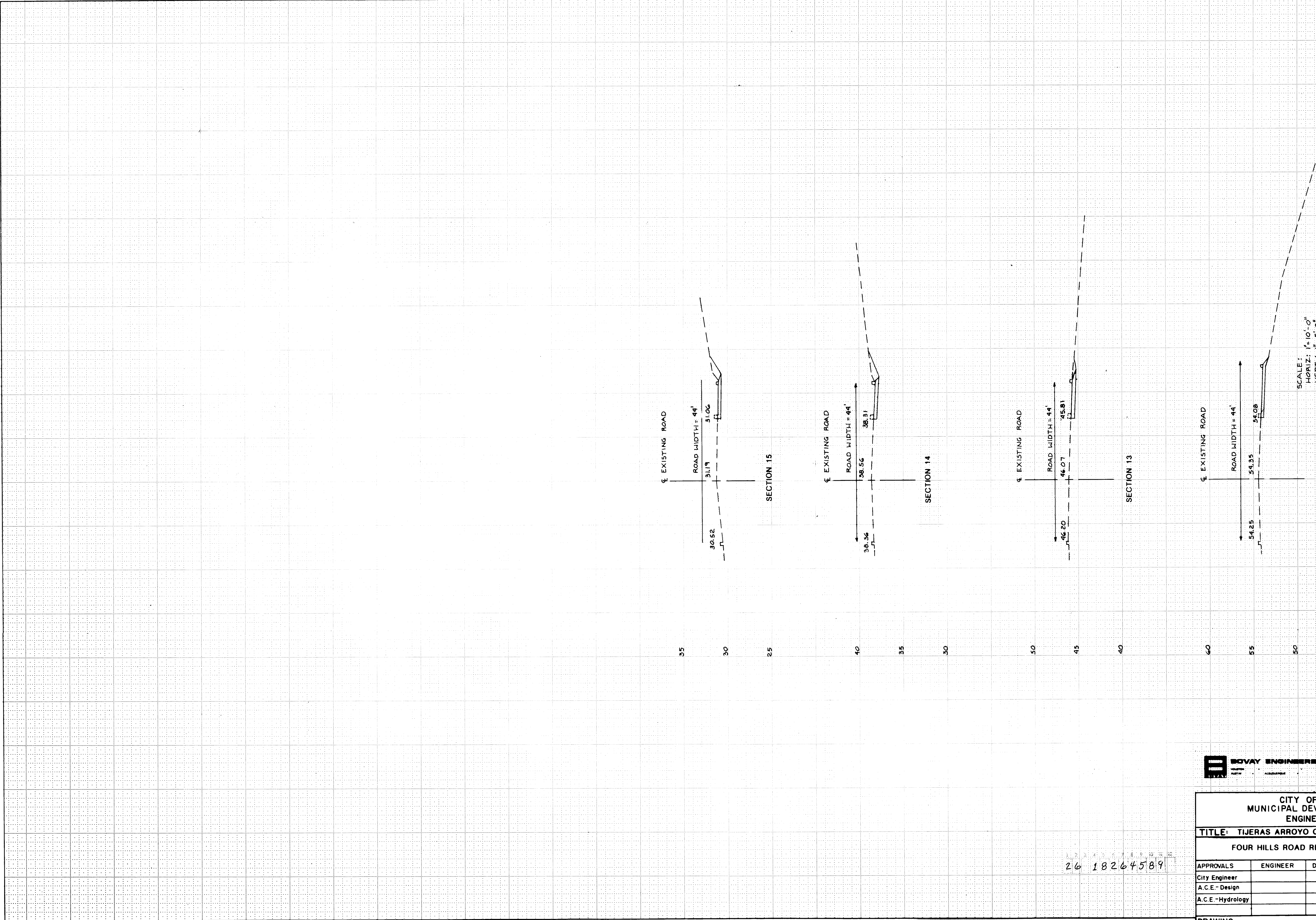


SCALE:
HORIZ: 1" = 10'-0"
VERT: 1" = 5'-0"



CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD					
FOUR HILLS ROAD REALIGNMENT - CROSS SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1826			SHEET R9 OF 10		

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
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							FIELD ACCEPTANCE BY	DATE
							FIELD DRAWINGS CORRECTED BY	DATE
							MICRO-FILM INFORMATION	DATE
							RECORDED BY	DATE
							NO.	



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: TIJERAS ARROYO CROSSING AT FOUR HILLS ROAD

FOUR HILLS ROAD REALIGNMENT - CROSS SECTIONS

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

DRAWING NO. 1826

SHEET R10 OF 10

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ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
			FIELD NOTES					
			NO.	BY	DATE		CONTRACTOR	
							WORK	DATE
							STAMPED BY	
							ACCEPTANCE BY	DATE