

CITY OF ALBUQUERQUE
NEW MEXICO



CHANNEL LINING RECONSTRUCTION
& NEW BRIDGE CONSTRUCTION
PIEDRA LISA ARROYO
SNOWHEIGHTS BLVD. TO MARTHA ST.
&
MARTHA ST. BRIDGE

INDEX OF DRAWINGS

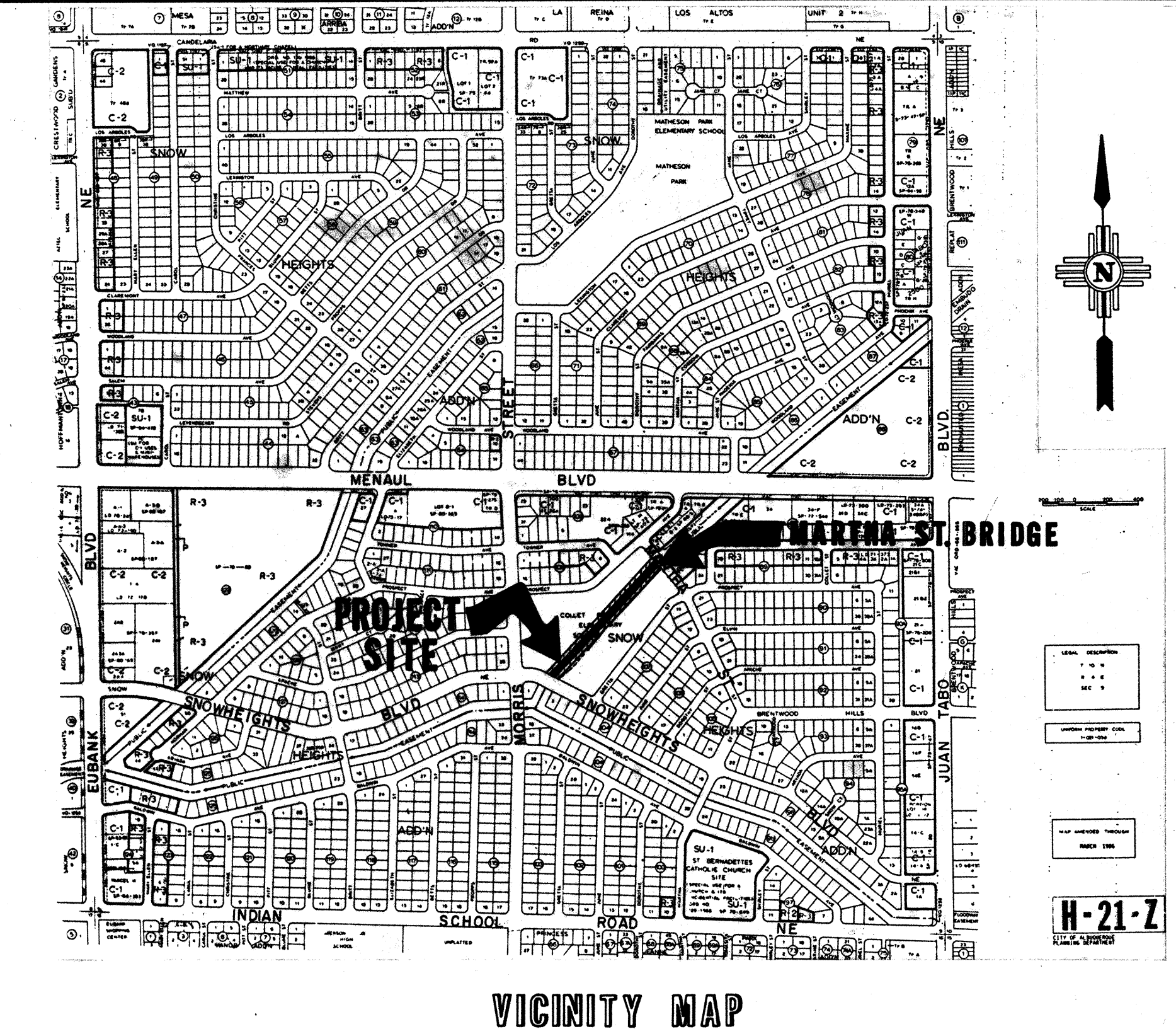
- 1. COVER SHEET
- 2. TYPICAL CHANNEL SECTIONS & DETAILS
- 3. MARTHA ST. N.E. - TYPICAL CROSS-SECTION & DETAILS
- 4. CHANNEL PLAN & PROFILE
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TRAFFIC CONTROL NOTES

- 1. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR CONSTRUCTION, 1986.
- 2. CONTRACTOR SHALL LIMIT OPERATION WITHIN ROADWAY TO THE HOURS SPECIFIED BY THE BARRICADING OR CONSTRUCTION CO-ORDINATION ENGINEER AT 768-2552.

WATER SHUT-OFF PLAN

- 1. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (823-4200) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO DOING ANY WORK AFFECTING THE EXISTING 6" WATERMAIN IN MARTHA ST. N.E.
- 2. WATER SYSTEMS DIVISION WILL CLOSE THE EXISTING VALVES IN MARTHA ST. AT STA 0+50 (4' 11") AND AT STA 2+40 (4' 9 1/2"), AND OPEN THEM AGAIN WHEN THE WATERMAIN RELOCATION IS COMPLETED. THERE ARE NO SERVICES THAT WILL BE AFFECTED BY THIS SHUT-OFF.

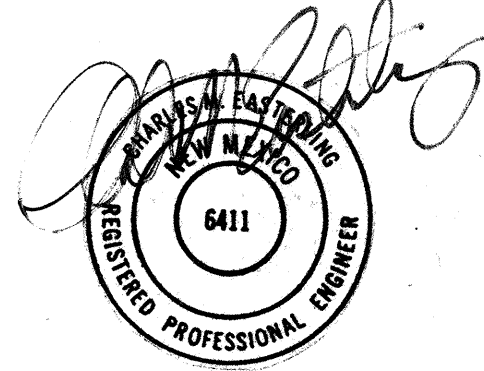


GENERAL NOTES

- 1. 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, 1986 (REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS").
- 2. THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION TO RECEIVE A BARRICADING PERMIT.
- 3. CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEMS DIVISION THREE (3) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING PUBLIC WATER UTILITIES.
- 4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 768-1234, FOR LOCATION OF EXISTING UTILITIES.
- 5. 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 DELAY.
- 6. ALL GAS, ELECTRIC, TELEPHONE LINES, CABLE, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE RELOCATED BY THE RESPONSIBLE UTILITY COMPANY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.
- 7. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.
- 8. BACKFILL COMPACTION IN STREET AREAS SHALL BE ACCORDING TO SPECIFIED STREET USE.
- 9. ALL TRENCH BACKFILL OUTSIDE OF STREET AREAS SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557.
- 10. WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE PROJECT ENGINEER, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT.
- 11. TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- 12. SIDEWALKS AND WHEELCHAIR RAMPS SHALL BE CONSTRUCTED WITHIN THE CURB RETURNS WHEREVER A NEW CURB RETURN IS CONSTRUCTED FOR ALL DRIVES INTERSECTING PUBLIC RIGHT-OF-WAY.
- 13. IF CURB IS DEEPER FOR A DRIVE PAD OR A HANDICAP RAMP, THE DRIVE PAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- 14. 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.
- 15. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- 16. THE CONTRACTOR WILL BE REQUIRED TO CONFINED HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERSIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES.
- 17. A DISPOSAL SITE FOR ALL EXCESS EXCAVATED MATERIAL, ASPHALTIC PAVING, CONCRETE CURBS AND SIDEWALKS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE PROJECT ENGINEER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THEREOF SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

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

PLANS PREPARED UNDER DIRECTION OF:



DATE 11-22-88

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 PARADISE BLVD. N.W.
ALBUQUERQUE, NEW MEXICO 87114
(505) 898-8021

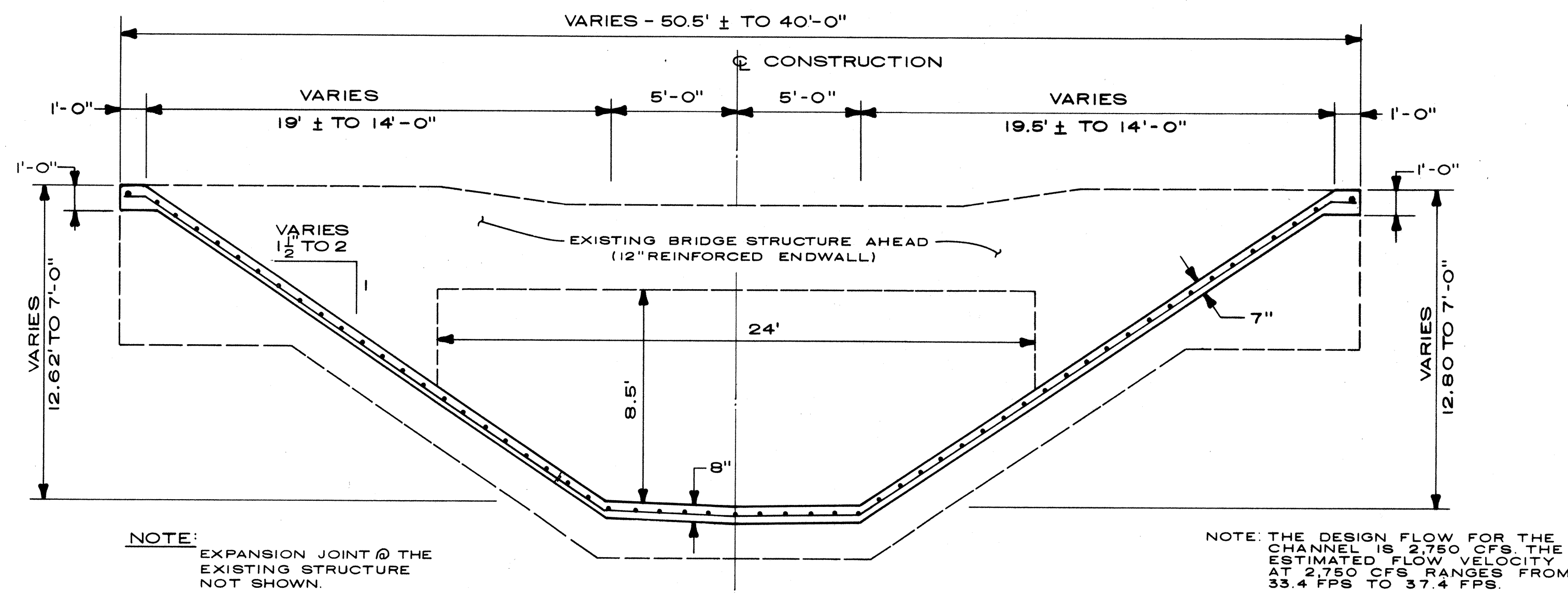
APPROVED FOR CONSTRUCTION



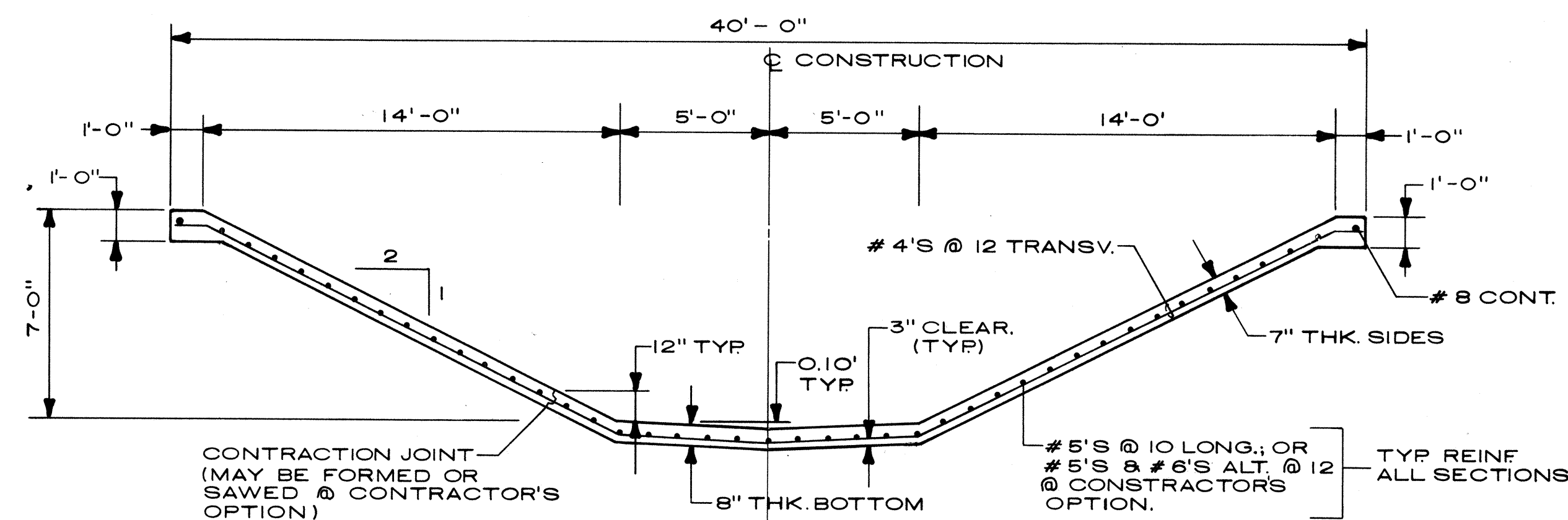
CITY ENGINEER

PROJECT NO. **3603**

SHEET **1** OF **13**



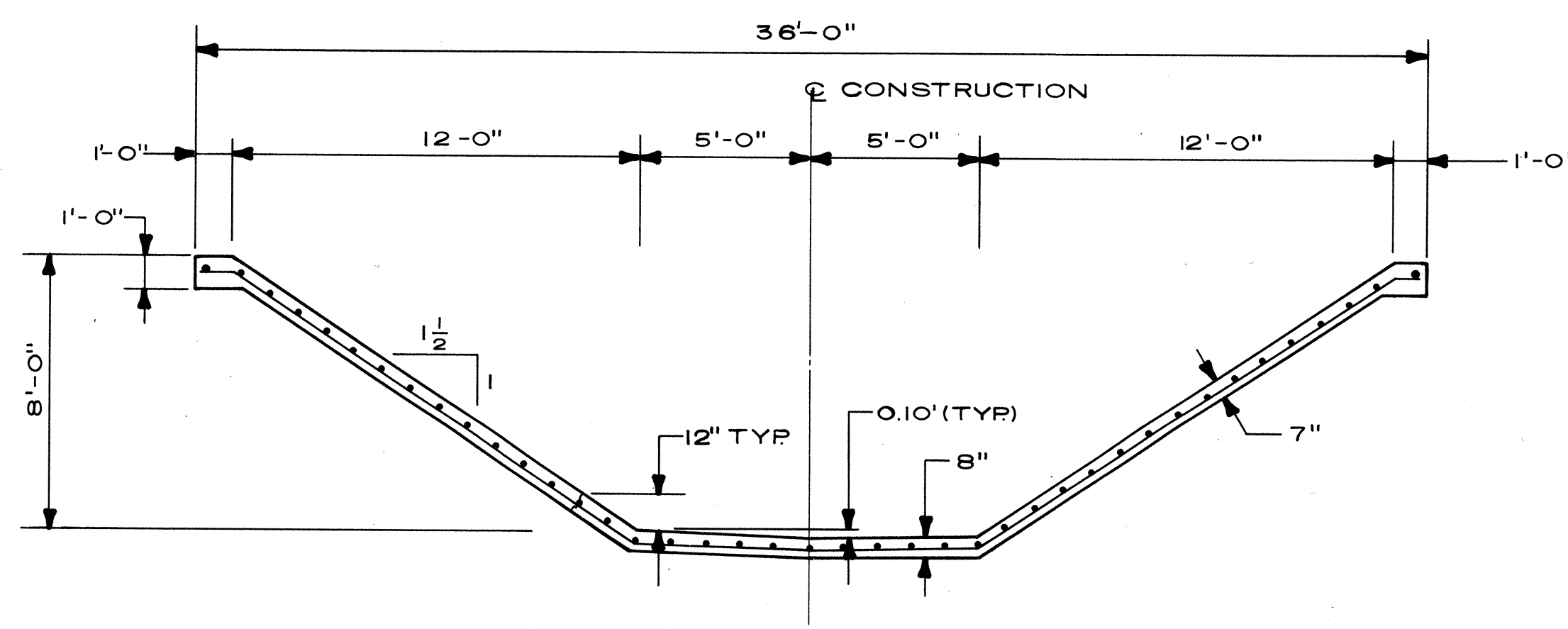
TYPICAL CHANNEL X-SECTION
TRANSITION FROM EXISTING BRIDGE @ STA. 1+23.7' TO STA. 2+00
SCALE: 1/4" = 1'-0"



TYPICAL CHANNEL X-SECTION

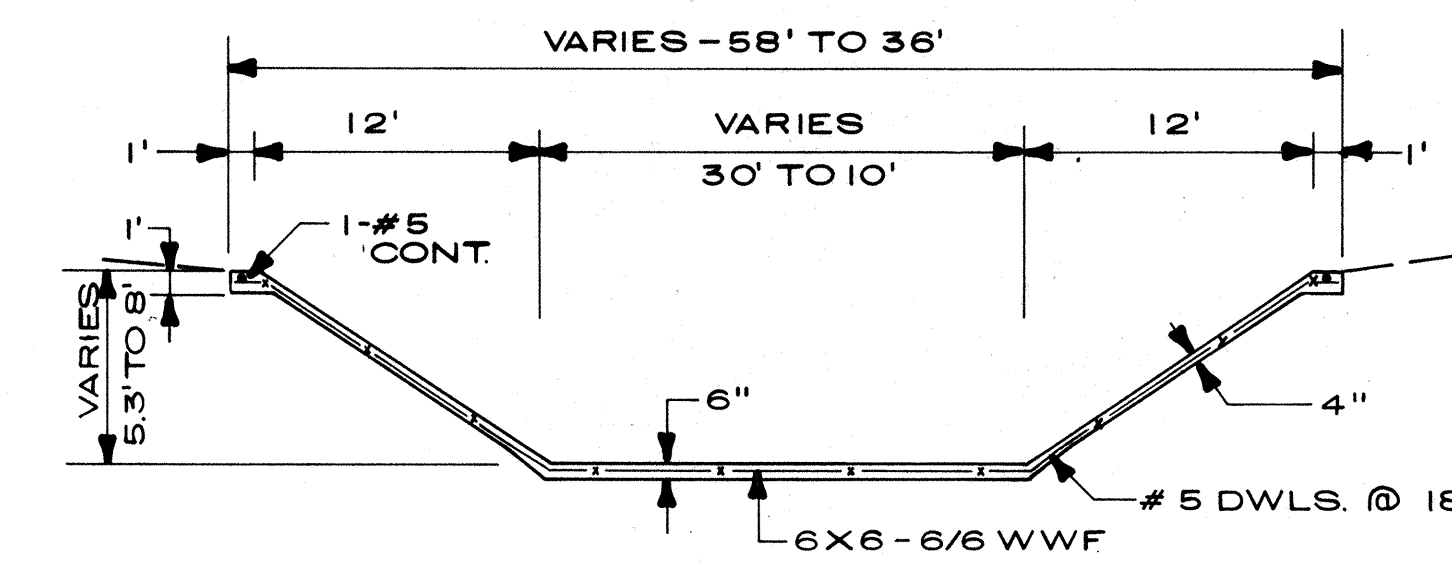
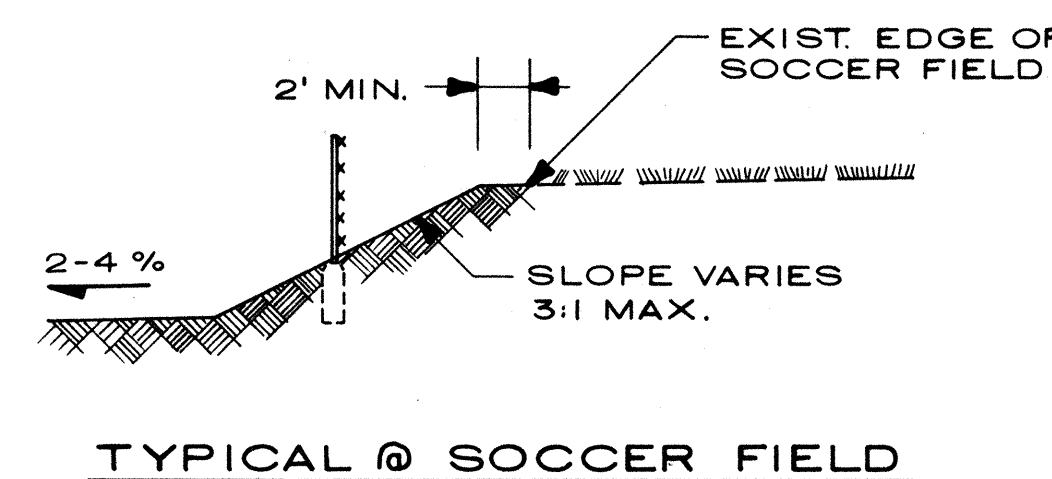
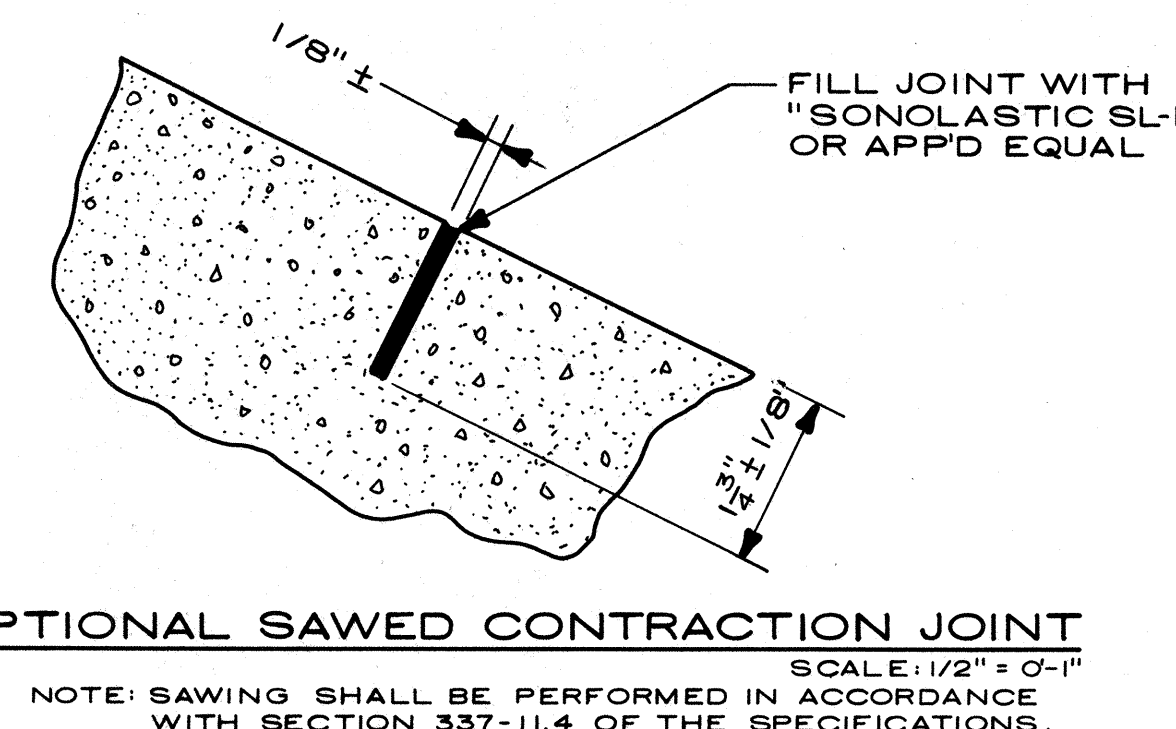
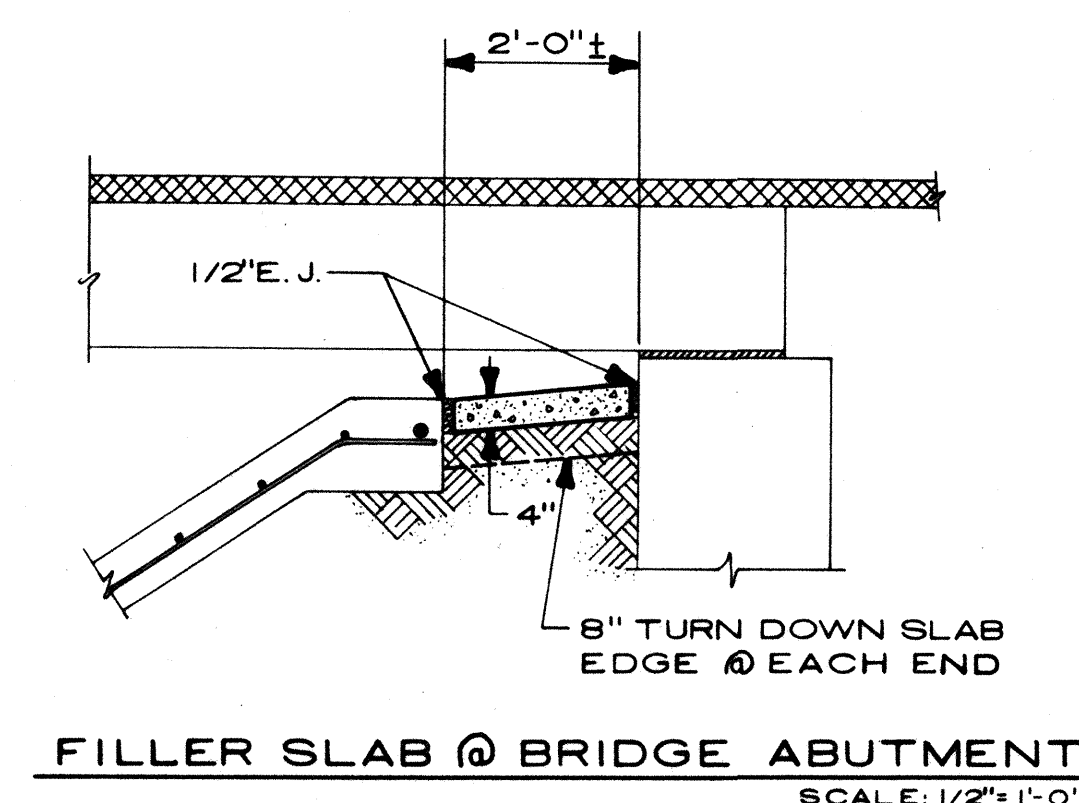
STA. 2+00 TO STA. 9+25.90
SCALE: 1/4" = 1'-0"

(UNIFORM TRANSITION FROM STA. 9+25.90 TO STA. 10+00)



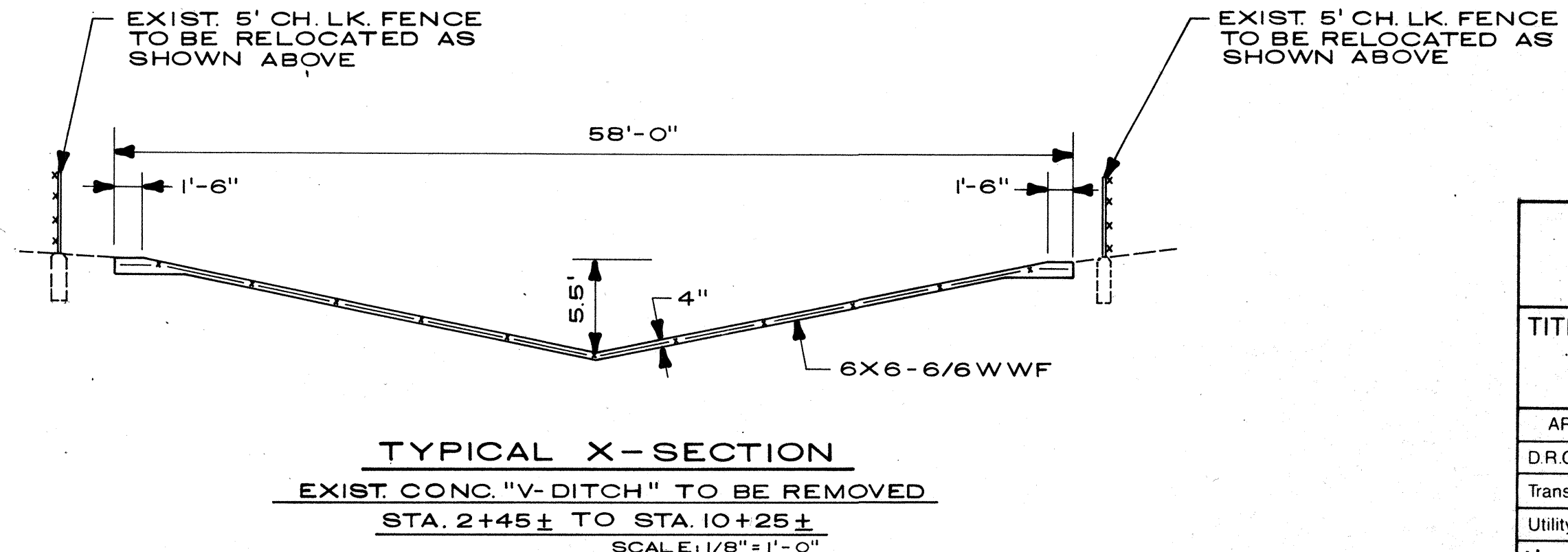
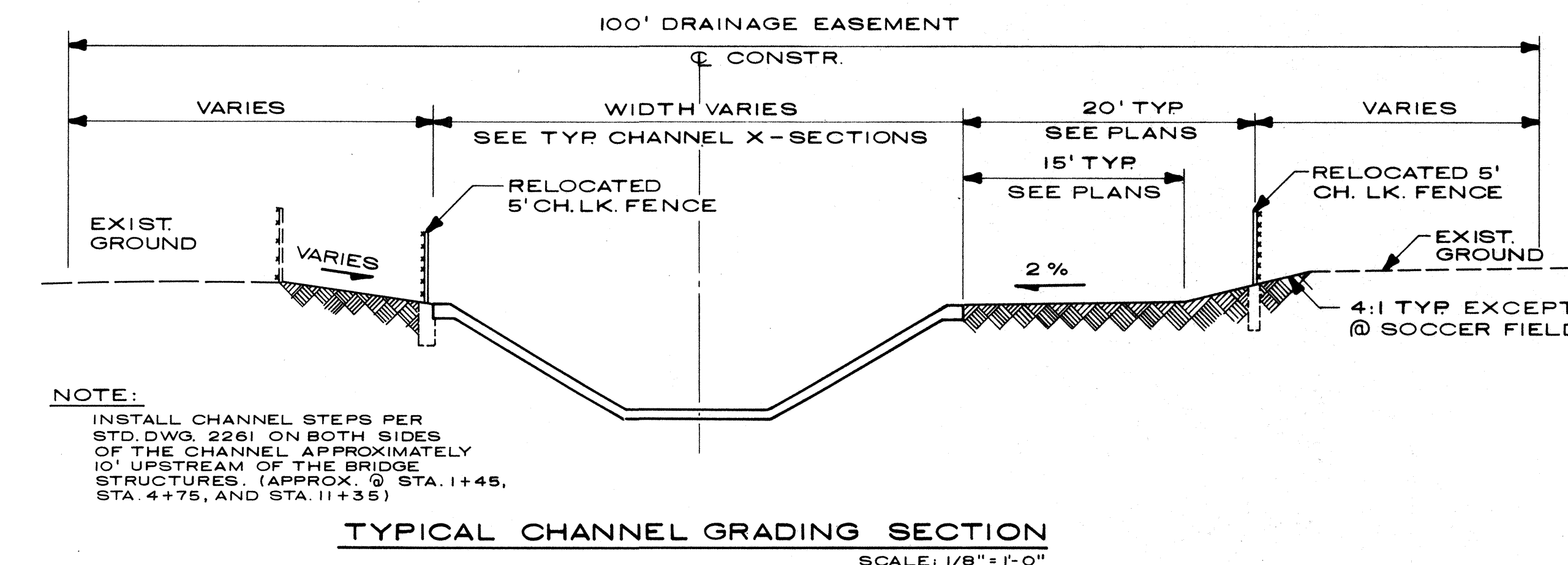
TYPICAL CHANNEL X-SECTION

STA. 10+00 TO STA. 11+92
SCALE: 1/4" = 1'-0"

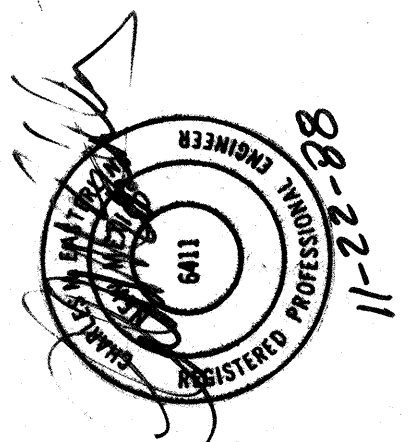


TYPICAL X-SECTION

EXIST. CONC. CHANNEL LINING TO BE REMOVED
STA. 11+42 ± TO STA. 11+92 ±
SCALE: 1/8" = 1'-0"



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACT NO.	WORK ORDER NO.	DATE	BY	CONTRACT NO.	WORK ORDER NO.	DATE	BY	NO.	BY	DATE	NO.	BY	DATE	NO.	BY
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PIEDRA LISA ARROYO TYPICAL CHANNEL SECTIONS & DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
Hydrology					
DRAWING NO.	3603	MAP NO.	H-21	SHEET	2 OF 13

NE P/L

50' R/W

C CONSTR.

VARIES

3'-6"

2'-7 1/2"

14'-0"

14'-0"

2'-7 1/2"

3'-6"

VARIES

4'-10 1/2" ±

4" S.W.

C&G

C&G

4" S.W.

4'-10 1/2" ±

EXIST. RET. WALL W/ WOOD FENCE

REMOVE & REPLACE EXISTING ASPH. PVM'TS & LANDSCAPING AS DIRECTED BY THE ENGINEER. SEE PLANS.

STD. C&G

2%

0.6%

4.2%

2%

RELOCATE EXISTING 5' CH. L.K. FENCE TO P/L

10:1 MAX. @ PARK

4:1 MAX. @ SCHOOL

NOTE:

THE CONTRACTOR MAY STOCKPILE AND RE-USE EXISTING LANDSCAPE GRAVEL AND RR TIES. INSTALL NEW 6" PLASTIC SHEETING, AND REPLACE PLANTS AND TREES THAT CANNOT BE SATISFACTORILY TRANSPLANTED WITH THE SAME KIND AND SIZE.

1 1/2" AC SFC, 1500, M

1 1/2" AC BS, 1500, M

4" SUBBS

SUBGRADE PRER, RES. 6"

COMPACTED SUBGRADE 90%

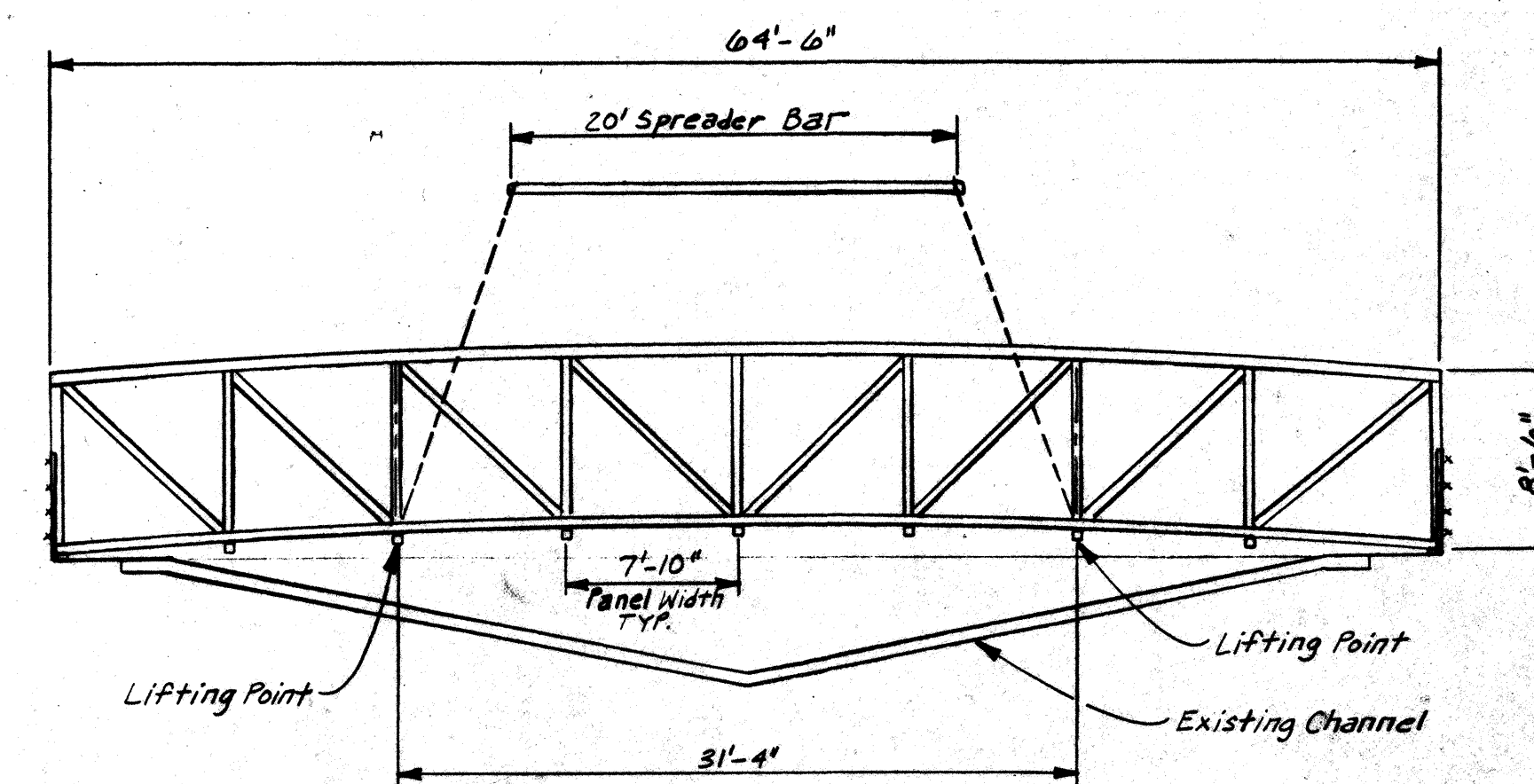
Diagram illustrating the elevation view of the guardrail wing. The components and dimensions are as follows:

- GUARDRAIL WING**: The main structure on the left.
- REMOVABLE POST W/ RUBBER SLEEVE**: A post located 6' from the guardrail wing.
- STATIONARY POST**: A post located 6' from the removable post.
- EXIST. RET. WALL W/ WOOD FENCE**: A wall and fence structure located 3.5' ± from the stationary post.

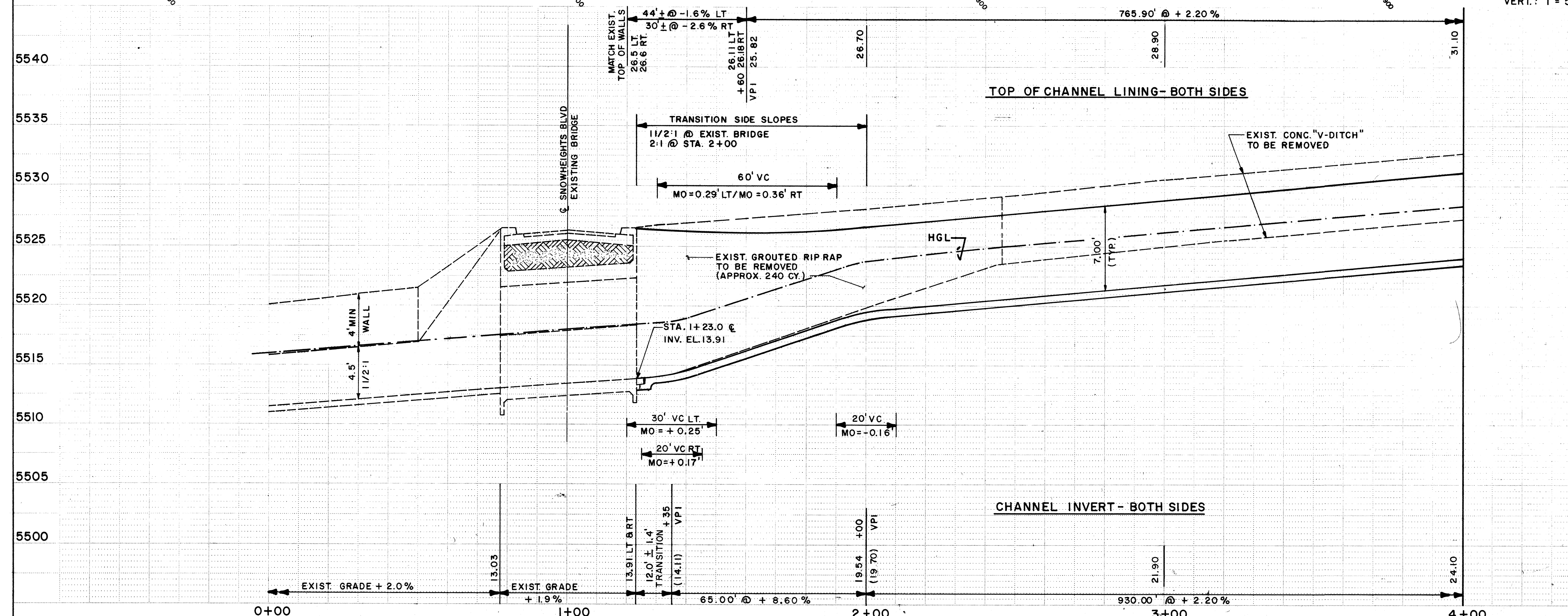
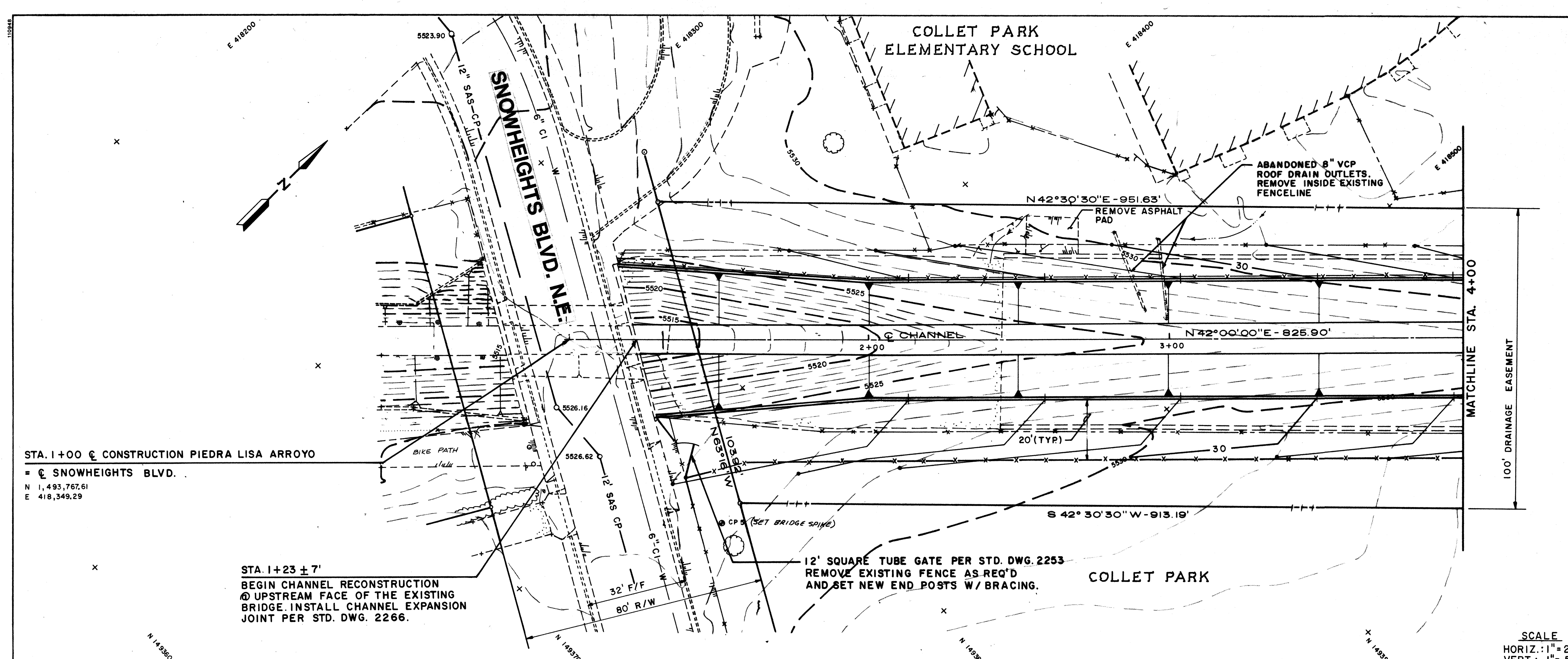
NOTE:
SEE STD. DWG. 2250 FOR POST DETAILS

DETAIL @ BICYCLE PATH ENTRANCE

STA. 2 + 41.5, LT. SCALE: 1/4"= 1'-0"

[illegible]

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE:		PIEDRA LISA ARROYO MARTHA ST. N.E. TYPICAL X-SECTION & DETAILS			
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	<i>11/29/13</i>			
Trans. Dev					
Utility Dev					
<i>Hydrology</i>	<i>Rog. & Shum</i>	<i>11/29/13</i>			
DRAWING NO.	MAP NO.		SHEET		OF
3603	H-21		3		13



SURVEY CONTROL POINTS

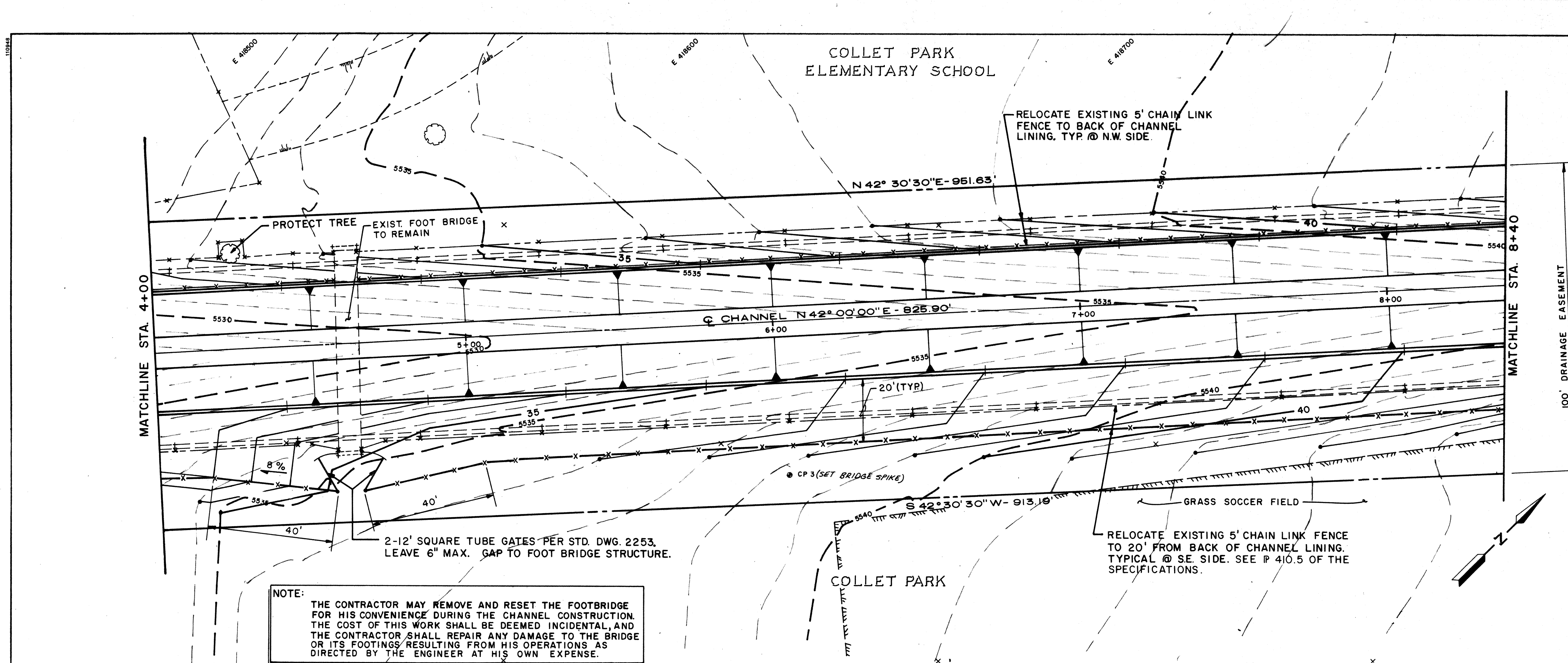
CP3 - N 1,494,108.63 E 418,722.89 ELEV. 5538.24
CP4 - N 1,494,416.93 E 418,987.05 ELEV. 5546.06
CP5 - N 1,493,764.77 E 418,428.83 ELEV. 5527.85

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK	ACS 8-H21-A BRASS CAP @ S.W. QUADR. MENAUL BLVD. & MORRIS ST. N.E. INTX.	DATE	FIELD NOTES	BY		REVISIONS
STAKED BY	DATE	BLVD. & MORRIS ST. N.E. INTX.	DATE	NO.	DATE		
ACCEPTANCE BY	DATE	ELEV. 5531.08	DATE	S. ROMERO JR. & ASSOCIATES	7/88		
FIELD	DATE	ACS 9-H21-A \"X\" CHISELED ON CURB @ N.W. QUADR. OF MENAUL BLVD. & JANE ST. N.E. INTX.	DATE			DESIGNED BY	DESIGN
CORRECTED BY	DATE	ELEV. 5565.70	DATE			DRAWN BY	DATE
RECORDED BY	DATE		DATE			CHECKED BY	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

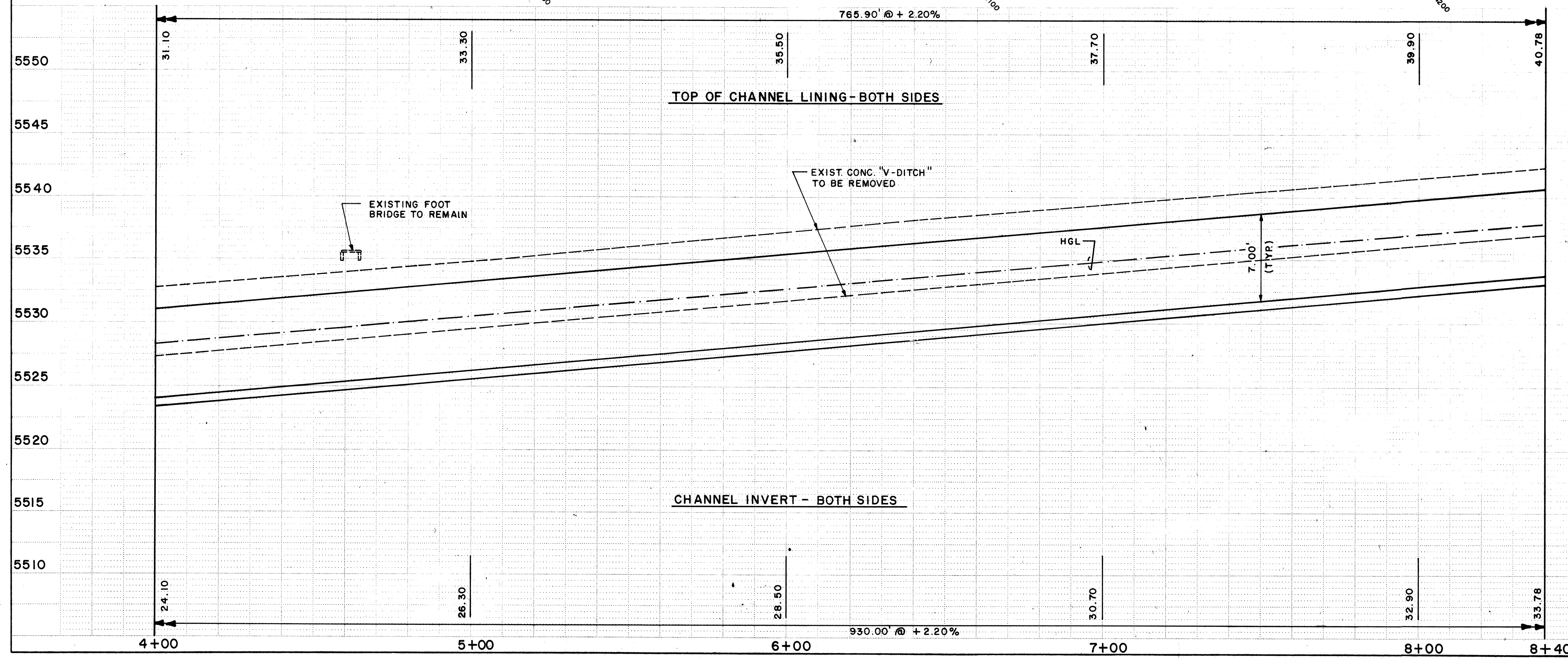
TITLE: PIEDRA LISA ARROYO CHANNEL PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		11/28/88			
Trans. Dev.					
Utility Dev.					
DRAWING NO.	3603	MAP NO.	H-21	SHEET	4 OF 13



NOTE:
THE CONTRACTOR MAY REMOVE AND RESET THE FOOTBRIDGE FOR HIS CONVENIENCE DURING THE CHANNEL CONSTRUCTION. THE COST OF THIS WORK SHALL BE DEEMED INCIDENTAL, AND THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE BRIDGE OR ITS FOOTINGS RESULTING FROM HIS OPERATIONS AS DIRECTED BY THE ENGINEER AT HIS OWN EXPENSE.

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



NOTE: THE EXISTING NORTHWEST SIDE CHAINLINK FENCE SHALL REMAIN IN PLACE DURING THE CHANNEL CONSTRUCTION TO DISCOURAGE THE SCHOOL CHILDREN FROM ENTERING THE CONSTRUCTION AREA.

THE CONTRACTOR MAY REMOVE THE SOUTHEAST SIDE FENCE, BUT SHALL THEN PROVIDE & MAINTAIN A TEMPORARY FENCE (5 FT. HOGWIRE ON DRIVEN STAKES, OR APP'D EQUAL) TO SEPARATE THE PLAYGROUND AREA FROM THE CONSTRUCTION ACCESS ROUTE.

BOTH FENCES SHALL BE RE-SET AS SOON AS POSSIBLE AFTER COMPLETION OF THE CHANNEL CONSTRUCTION WEST OF MARTHA ST. N.E.

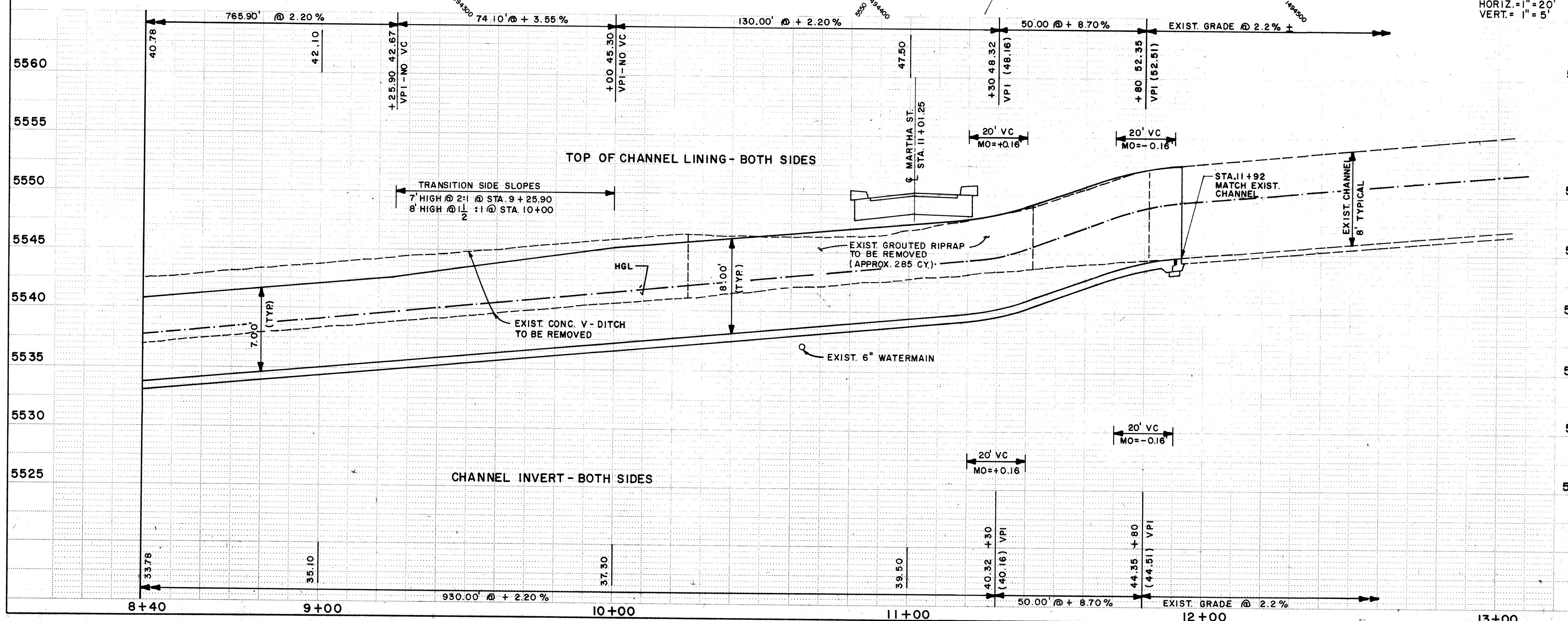
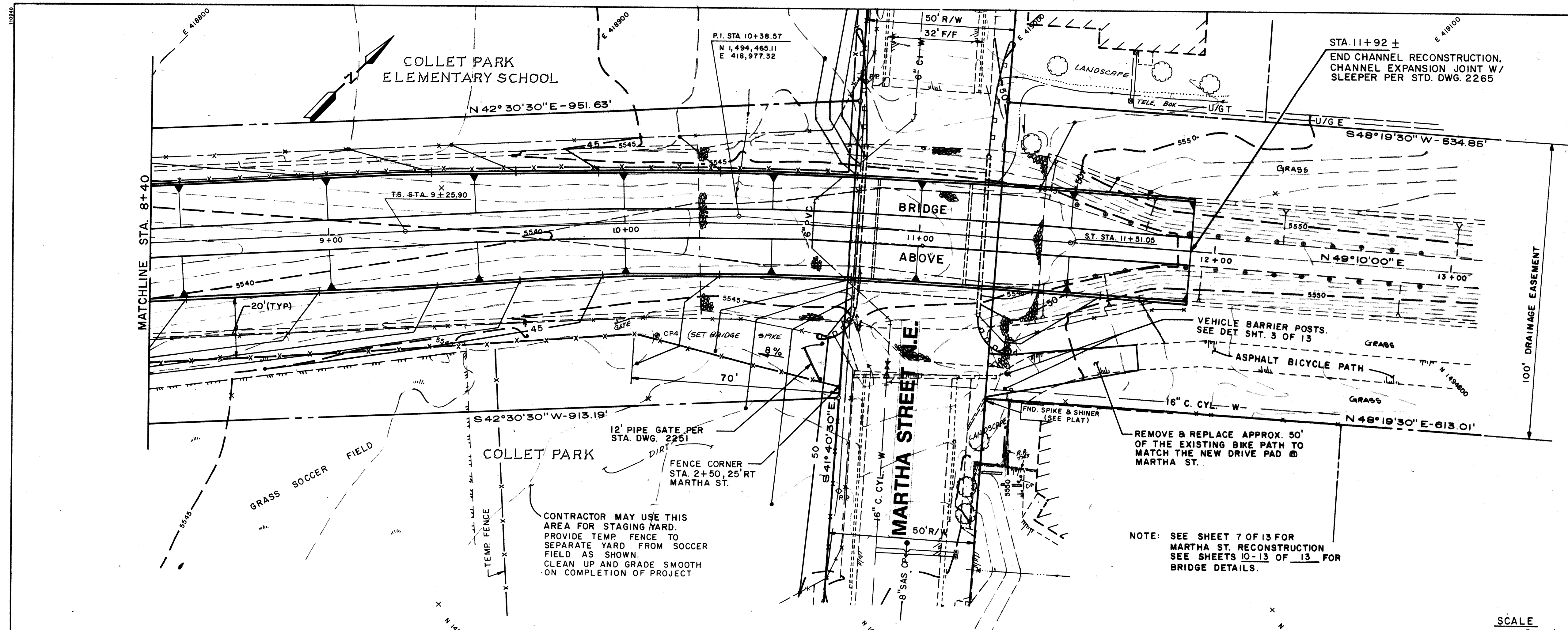
AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	WORK BY	DATE	DATE	ACS 8-H21-A	BRASS CAP @ S.W. QUADR. MENAUL	DATE	DATE	NO.	BY	DATE	DATE				
INSPECTED BY	DATE	DATE	DATE	BLVD. & MORRIS ST. N.E. INTX.	ELEV. 5531.08	7/88									
FIELD LAYOUT BY	DATE	DATE	DATE												
DRAWINGS CORRECTED BY	DATE	DATE	DATE	ACS 9-H21-A "X" CHISELED ON CURB @ N.W. QUADR. OF MENAUL BLVD & JANE ST. N.E. INTX.	ELEV. 5565.70										
RECORDED BY	DATE	DATE	DATE												
NO.															

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **PIEDRA LISA ARROYO**
CHANNEL PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	10/10/88			
Trans. Dev.					
Utility Dev.					
Checked by	<i>[Signature]</i>	11/20/88			

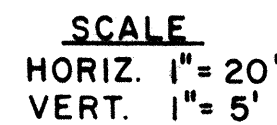
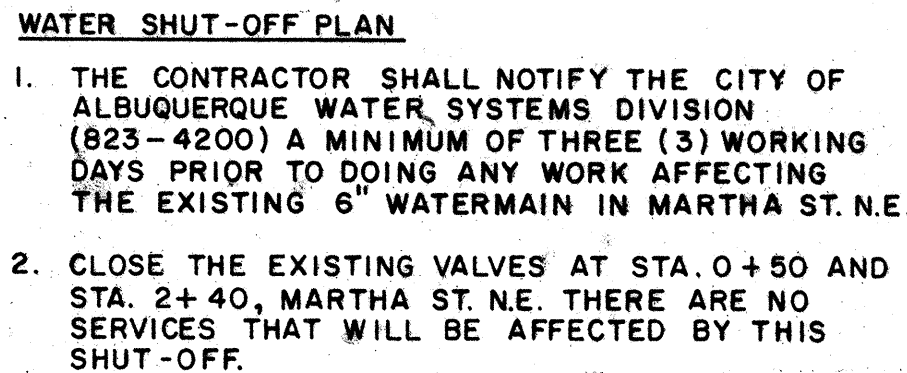
DRAWING NO. **3603** MAP NO. **H-21** SHEET **5** OF **13**



DOUBLE-SPIRAL CURVE DATA

T.S. = STA. 9+25.90
 P.I. = STA. 10+38.57
 S.S. = STA. 10+38.47
 S.T. = STA. 11+51.05 ON SPIRAL
 STA. 11+51.25 ON TANGENT
 $R_c = 900.00'$
 $\Delta = 7^\circ 10' 00''$
 $L_s = 112.574'$
 $\theta = 3^\circ 35' 00''$
 $Y_c = 2.35'$
 $X_c = 112.53'$
 $P = 0.59'$
 $K = 56.28'$
 $\theta = 1^\circ 11' 40''$
 $LT = 75.06'$
 $ST = 37.54'$
 $LCH = 112.55'$
 $TS = 112.67'$
 $ES = 2.35'$
 $Y_1 = L_1^3 / 6 R_c$
 $L_1 = L_1^3 / 607,898$

ENGINEER'S SEAL				SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION			
				NO. _____ BY _____ S. ROMERO JR. & ASSOCIATES DATE 7/88				CONTRACTOR _____ WORK _____ STAKED BY _____ DATE _____ ACCEPTED BY _____ DATE _____ FIELD _____ DATE _____ CORRECTED BY _____ DATE _____ MICRO-FILM _____ DATE _____ RECORDED BY _____ NO. _____							
				REMARKS REVISIONS NO. DATE 1. 10-10-88 2. 10-10-88 3. 10-10-88				DESIGNED BY HCA DRAWN BY J.E.L. CHECKED BY J.E.L.							
				TITLE: PIEDRA LISA ARROYO CHANNEL & PLAN PROFILE				CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP							
APPROVALS D.R.C. Chair _____ Trans. Dev. _____ Utility Dev. _____ Mapology _____ DRAWING NO. 3603				APPROVALS ENGINEER _____ DATE _____ MAP NO. H-21				SHEET 6 OF 13							



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PIEDRA LISA ARROYO MARTHA ST. N.E. WATERMAIN RELOCATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
	<i>[Signature]</i>	<i>11/20/88</i>			
Trans. Dev.					
Utility Dev.					
<i>Hydrology</i>	<i>Roger A. Klein</i>	<i>11/20/88</i>			
DRAWING NO.	3603		MAP NO.	H-21	
			SHEET	8	OF 13

GENERAL NOTES & ESTIMATED QUANTITIES
BRIDGE PLAN & PROFILE
TRANSVERSE & LONGITUDINAL SECTION THRU BRIDGE
ABUTMENT & WINGWALL DETAILS

METAL RAILING TYPE D CITY OF ALBUQUERQUE DWG. 2604
METAL BARRIER MATERIALS AND PLACEMENT PROCEDURES
CITY OF ALBUQUERQUE DWG. 2610
METAL BARRIER (BREAKAWAY) TYPE "C" END ANCHORAGE
(WOOD POSTS) CITY OF ALBUQUERQUE DWG. 2635

DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS 1983 EDITION & CURRENT INTERIMS.

DESIGN STRESSES: STRUCTURAL STEEL-AASHTO M-183, FS=20,000. PSI

REINFORCED CONCRETE:
SUPERSTRUCTURE: F'C=3,000. PSI AT 28 DAYS
F'C=1,200. PSI FS=24,000. PSI
SUBSTRUCTURE: F'C=3,000. PSI AT 28 DAYS
FC=1,200. PSI FS=24,000. PSI GRADE 60
N=9 FS=20,000. PSI GRADE 40

LIVE LOAD: HS-20-44

WEARING SURFACE: 30 PSF ALLOWANCE FOR FUTURE WEARING SURFACE.

HORIZONTAL EARTH PRESSURE: 36 LBS./CU. FT. EQUIVALENT FLUID PRESSURE AND 2 FT. SUBCHARGE.

WIND VELOCITY: 80 MPH

MAXIMUM COMPUTED PILE LOAD.

ABUT. NO. 1 : 50 KIPS

ABUT. NO. 2 : 50 KIPS

PRESTRESSED CONCRETE:

BEAMS: FC1 (MIN. COMP STRENGTH OF CONC. AT
TIME OF INITIAL PRESTRESS) = 4750 PSI
FC = 5500 PSI, N = 7, 1/2" DIA. HIGH TENSILE
STRENGTH 7 WIRE STRANDS.
INITIAL PRESTRESS = 26910. LBS/STRAND,
FS = 41300. LBS/STRAND, FY = 35100. LBS/STRAND
INTERIOR BEAMS: FSE = 22402 LBS/STRAND, PRESTRESS LOSS = 6508 LBS/STRAND
EXTERIOR BEAMS: FSE = 21843 LBS/STRAND, PRESTRESS LOSS = 7067 LBS/STRAND
CONVENTIONAL REINFORCING STEEL: FS = 20000. PSI, FY = 40000. PSI
ALLOWABLE FOR FUTURE WEARING SURFACE = 30. LBS/SQ. FT.
LIVE LOAD = HS-20-44

[illegible]

1. ELASTOMERIC BEARING PAD
2. WATERPROOFING MEMBRANE
3. PREFORMED BITUMINOUS JOINT FILLER

NOTE:

ITEMS LISTED ABOVE SHALL BE INCIDENTAL TO THE COST OF OTHER ITEMS FOR THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFORE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIAL REQUIRED BY STANDARD DRAWINGS, SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

1. WORKMANSHIP AND MATERIAL SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION.
2. CONCRETE FOR STRUCTURAL CAST-IN-PLACE CONCRETE USE CLASS A. CHAMFER ALL EXPOSED EDGES OF CONCRETE STRUCTURES 3/4 INCH UNLESS NOTED OTHERWISE ON THE DETAILS.
3. REINFORCING BARS, ALL REINFORCING BARS SHALL CONFORM TO AASHTO M-31, GRADE 60, UNLESS NOTED OTHERWISE ON THE DETAILS DIMENSIONS REFER TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE ON THE DETAILS.
4. STRUCTURAL STEEL TO BE CARBON STEEL CONFORMING TO AASHTO SPECIFICATIONS M-193 UNLESS NOTED OTHERWISE ON THE DETAILS. SHOP PLANS MUST BE APPROVED BY THE ENGINEER BEFORE FABRICATION IS STARTED.
5. FOUNDATION DATA, FOUNDATION DATA SHOWN ON PLANS ARE FOR DESIGNERS ONLY. THE ENGINEER IS NOT RESPONSIBLE FOR ANY INTERPRETATION OR ASSUMPTIONS MADE BY THE CONTRACTORS BASED ON THIS INFORMATION.
6. CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS, ELEVATIONS AND DETAILS PERTAINING TO THE EXISTING STRUCTURE WHICH WILL BE INVOLVED IN THE NEW CONSTRUCTION BEFORE PROCEEDING WITH THE NEW WORK.
7. ALL PREFORMED BITUMINOUS JOINT FILLER SHALL CONFORM TO AASHTO SPECIFICATION M-213. COST OF JOINT FILLER IS INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFORE.
8. METAL BRIDGE RAILING POSTS AND TUBES SHALL RECEIVE ONE PRIME COAT OF RED LEAD IN COMPLIANCE WITH SECTION 615 OF THE STANDARD SPECIFICATIONS AND TWO COATS OF PAINT CONFORMING TO ASSHTO M-70, TYPE 1, CLASS B. PAINT SHALL BE TINTED COLOR SAMPLES SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.
9. MEMBERS SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS SECTION 512, PRECAST PRESTRESSED CONCRETE MEMBERS.
10. WATERPROOFING MEMBRANE SHALL CONSIST OF PAVING FABRIC ("PETRO MAT", "AMOPAVE", OR APPROVED EQUAL) WITH APPROXIMATELY 0.25 GAL./SQ. YD. OF HOT APPLIED ASPHALT CEMENT (AC-10), AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

* APPLICATION IS FOR PETRO MAT, IF ALTERNATE MATERIAL IS USED FABRIC TEST SECTIONS WILL BE REQUIRED.

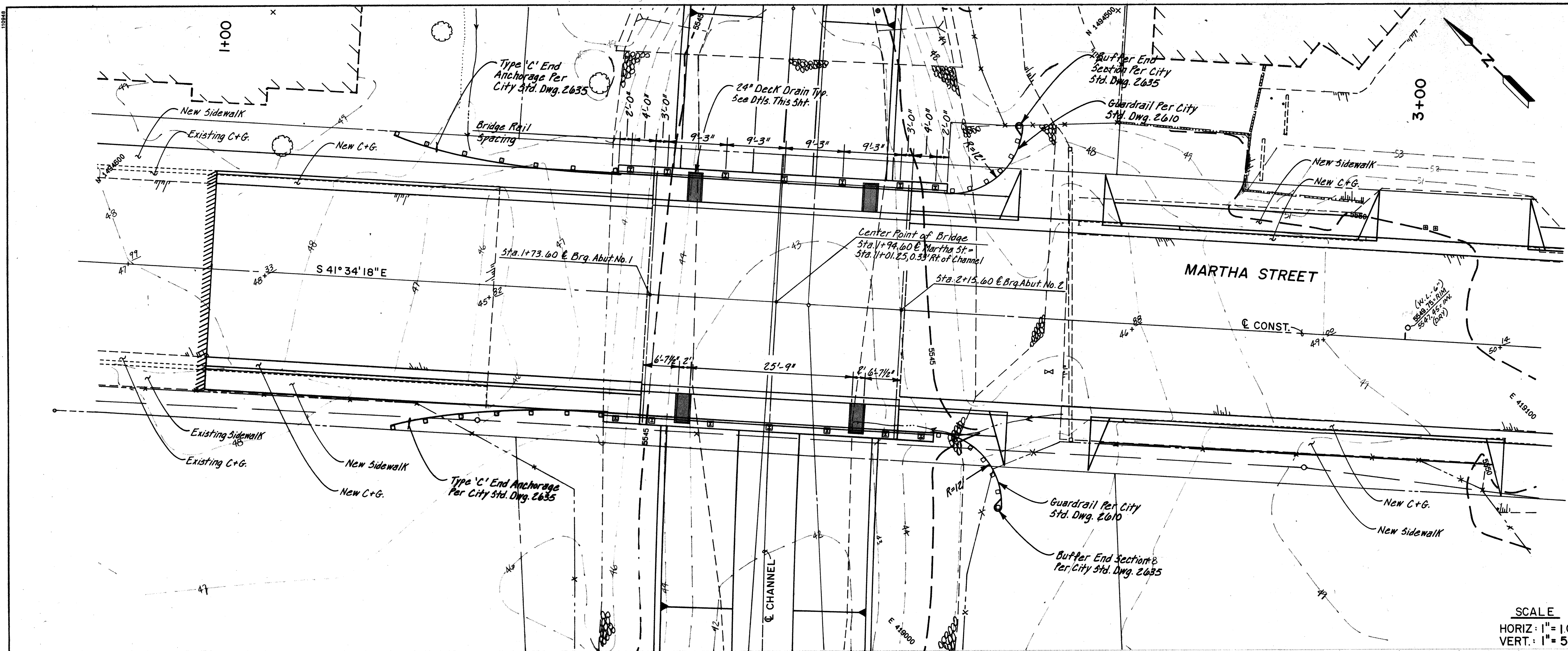
SPECIFICATION FOR AUGERED-PRESSURE GROUTED PILING INSTALLATION

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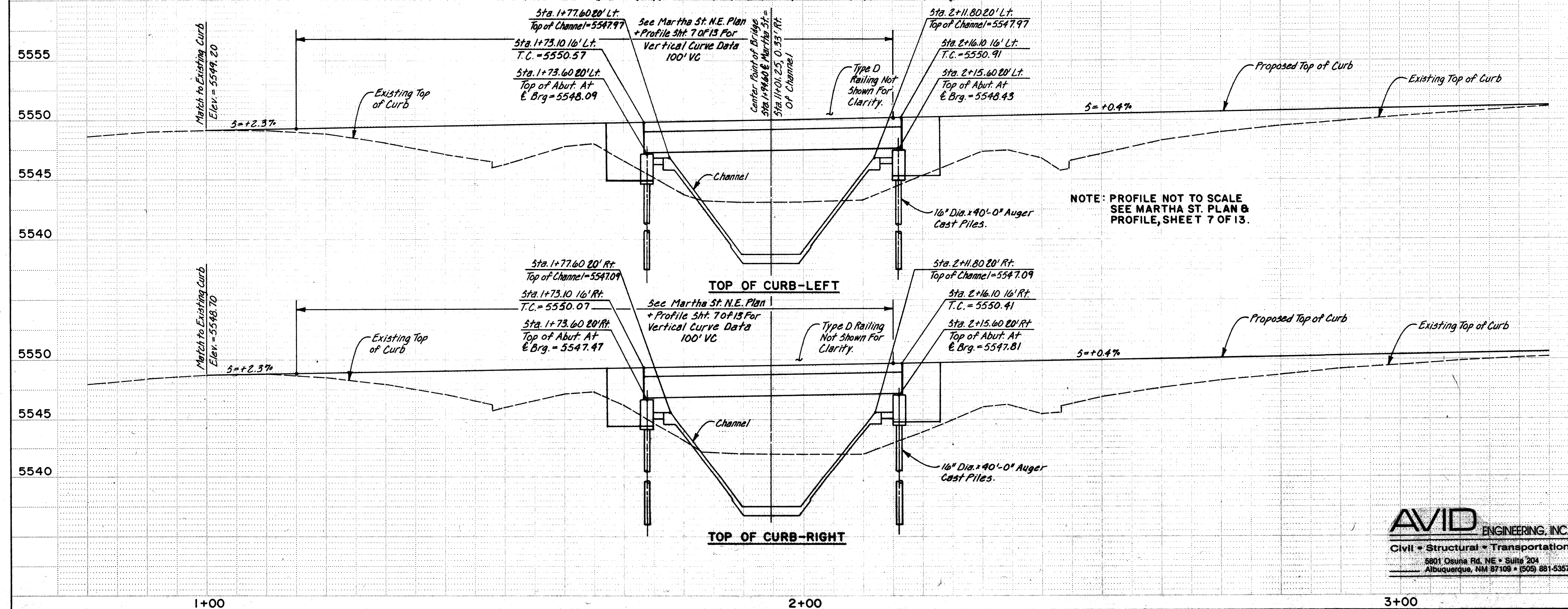
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: BRIDGE GENERAL NOTES & ESTIMATED QUANTITIES

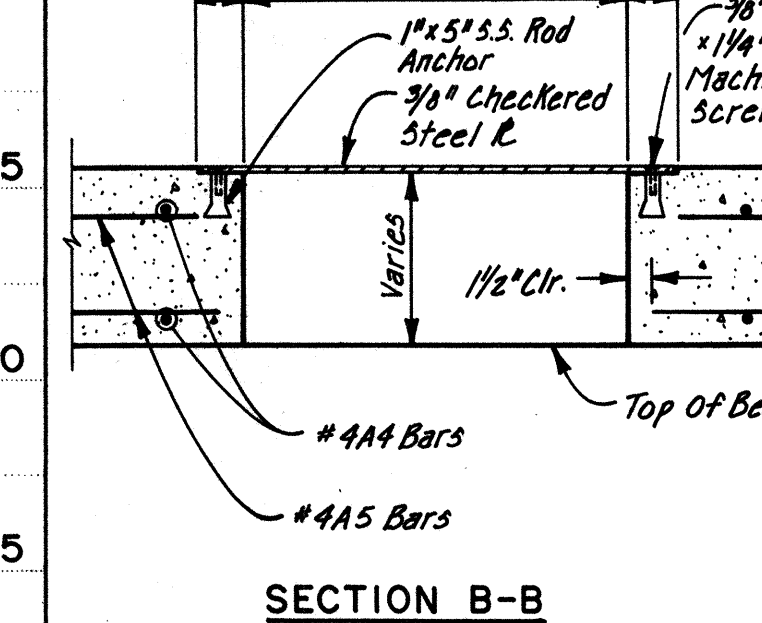
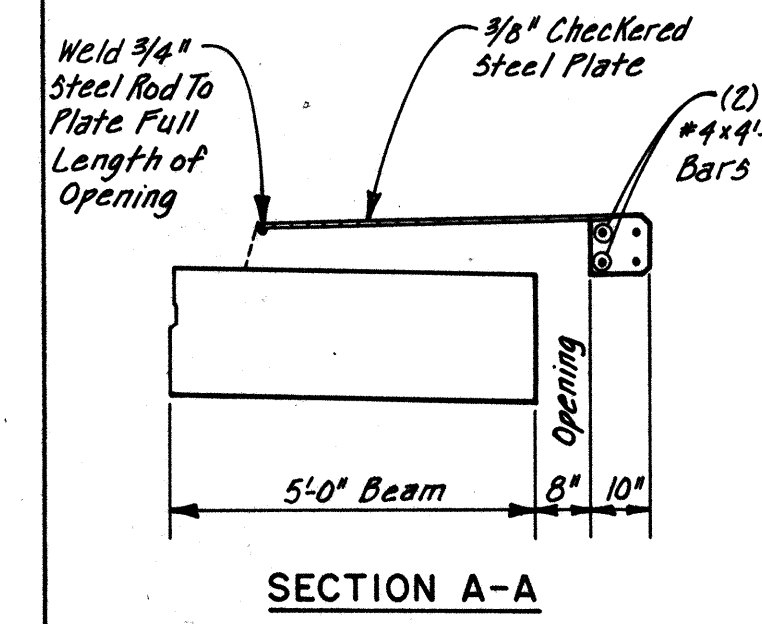
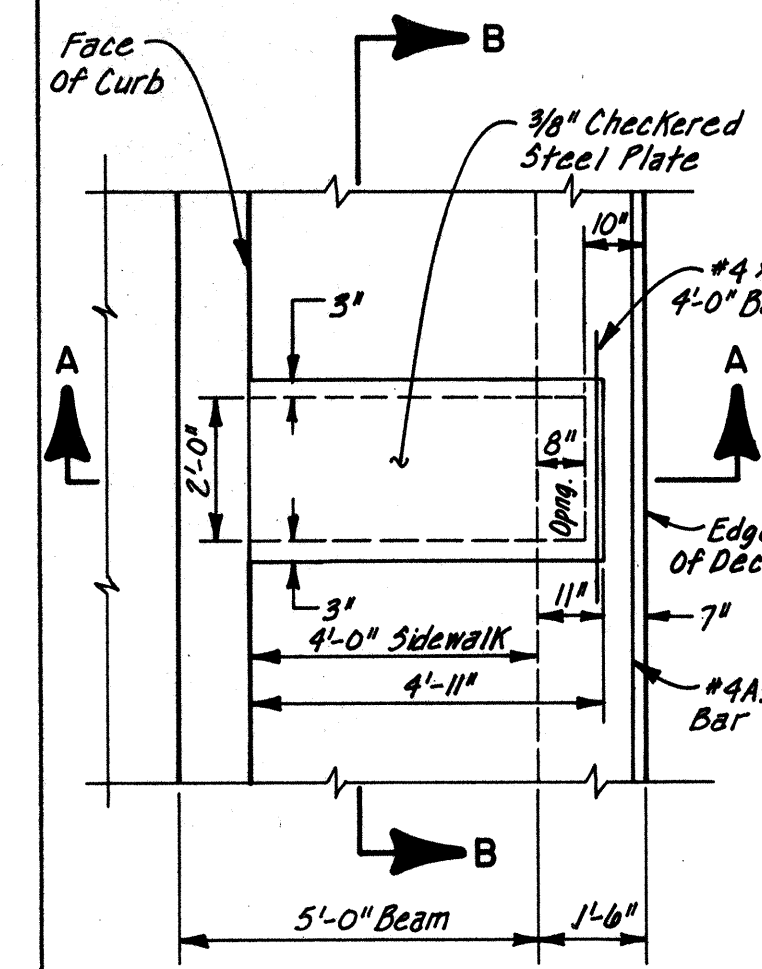
APPROVALS		ENGINEER	DATE	APPROVALS		ENGINEER	DATE
D.R.C. Chair			11/28/88				
Trans. Dev.							
Utility Dev.							
Hyperocy		Page & Shum	11/28/88				
DRAWING NO.		3603		MAP NO.		SHEET OF	
		H-21				10 13	



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



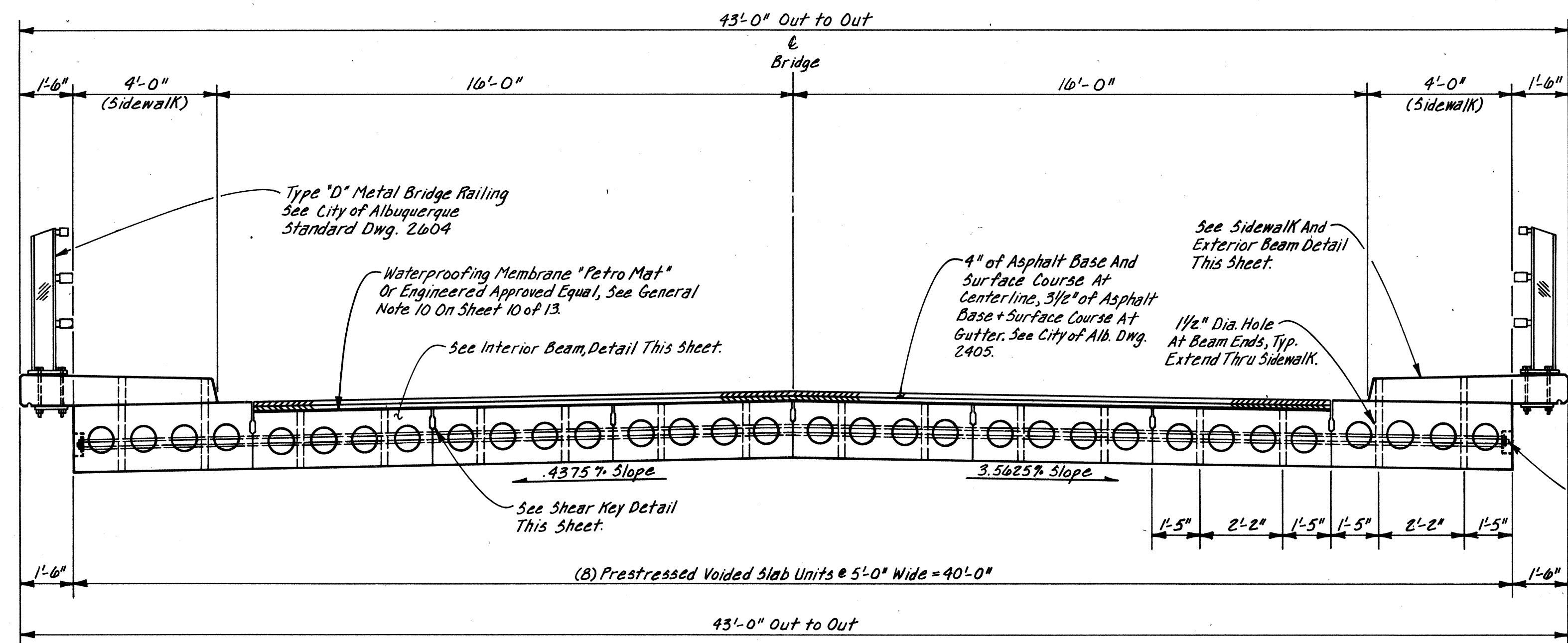
AVID ENGINEERING, INC.
Civil - Structural - Transportation
5801 Duane Rd. NE • Suite 204
Albuquerque, NM 87109 • (505) 881-5357



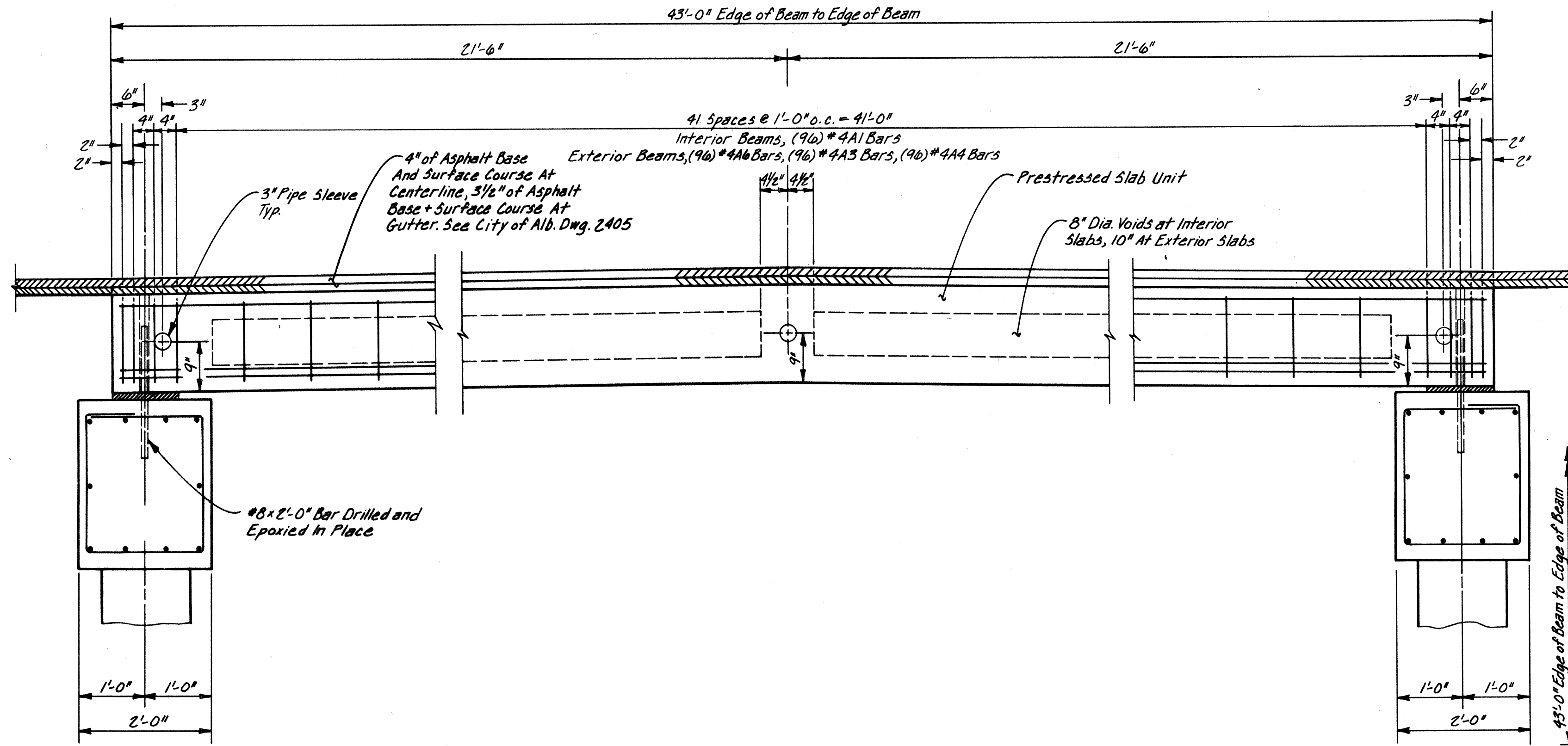
- Notes:
1. 3/8" Checkered Steel Plate shall be Stress Relieved After Fabrication. Clean Surface of Plate and Framing Members and Paint w/ One Shop Coat Red Oxide And Two Finish Coats Aluminum Paint (AA3HTO M-69).
 2. For Securing Plate Use 1"x5" S.S. Rod Anchor, Red Head Multi-Set II SRM-38 Anchor, Or Approved Equal. Install Per Manufacturer's Instructions At Max. 24" o.c. A Minimum of 2 Per Side And One Within 6' of Each End.
 3. 3/8"-16 x 1/4" Countersunk, F.H. Stainless Steel Machine Screw, shall be Used to Attach Plate.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: BRIDGE PLAN & PROFILE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	4/22/88			
Trans. Dev.					
Utility Dev.					
DRAWING NO.	3603	MAP NO.	H-21	SHEET	11 OF 13

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	NO.	ACS B-H21-A	BLVD. & MORRIS ST. N.E. INTX.	DATE	NO.	BY	DATE			
INSPECTOR'S	DATE	NO.	DATE	ELEV. 5531.08	7/88	NO.	BY	DATE			
ACCEPTANCE BY	DATE	NO.	DATE	VERIFICATION BY	DATE	NO.	BY	DATE			
CORRECTED BY	DATE	NO.	DATE	QUADR. OF MENEAL BLVD. & JANE ST. N.E. INTX.	DATE	NO.	BY	DATE			
MICRO-FILM INFORMATION			REVISIONS			DESIGN			REVISIONS		
RECORDED BY	DATE	NO.	NO.	DATE	DATE	NO.	DATE	DATE	NO.	DATE	DATE



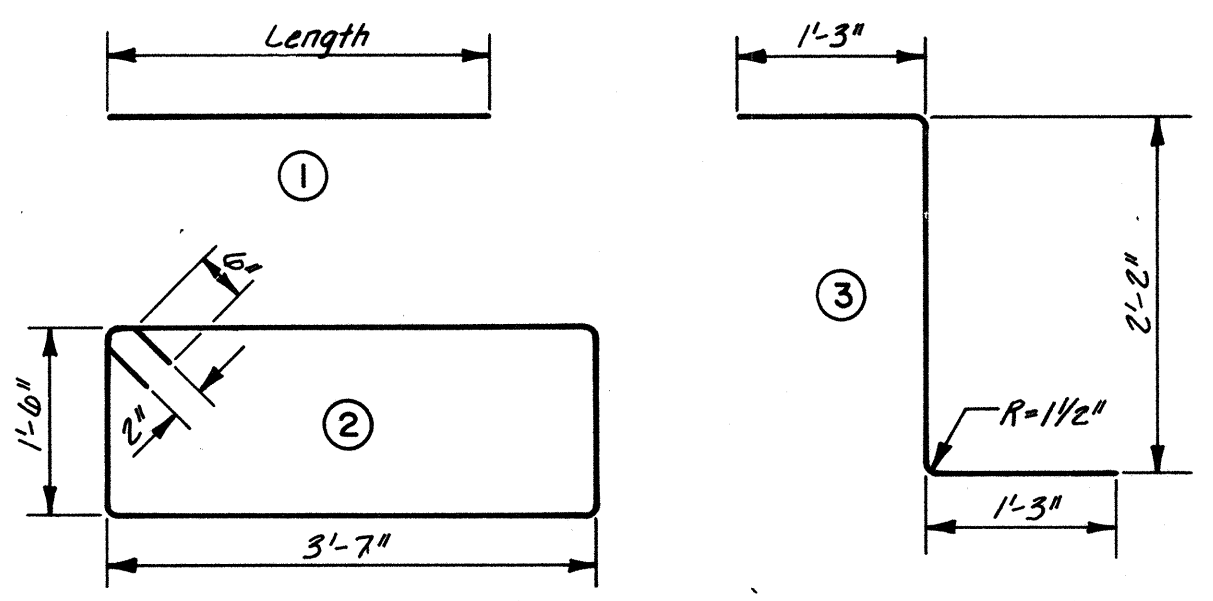
TRANSVERSE SECTION THRU BRIDGE
NO SCALE



LONGITUDINAL SECTION THRU BRIDGE
NO SCALE

EXTERIOR BEAM (2) REQUIRED

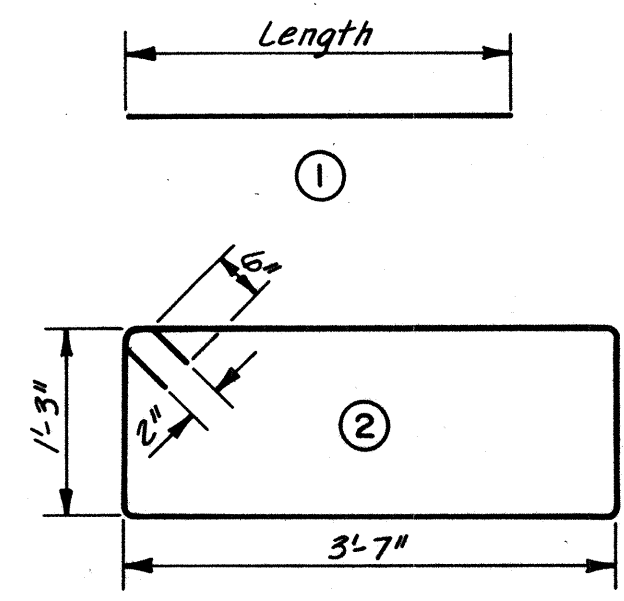
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A2	1	4	42'-9"	8
#4A3	3	4	4'-7"	96
#4A4	1	4	5'-2"	96
#4A5	1	4	42'-9"	10
#4A6	2	4	10'-10"	96



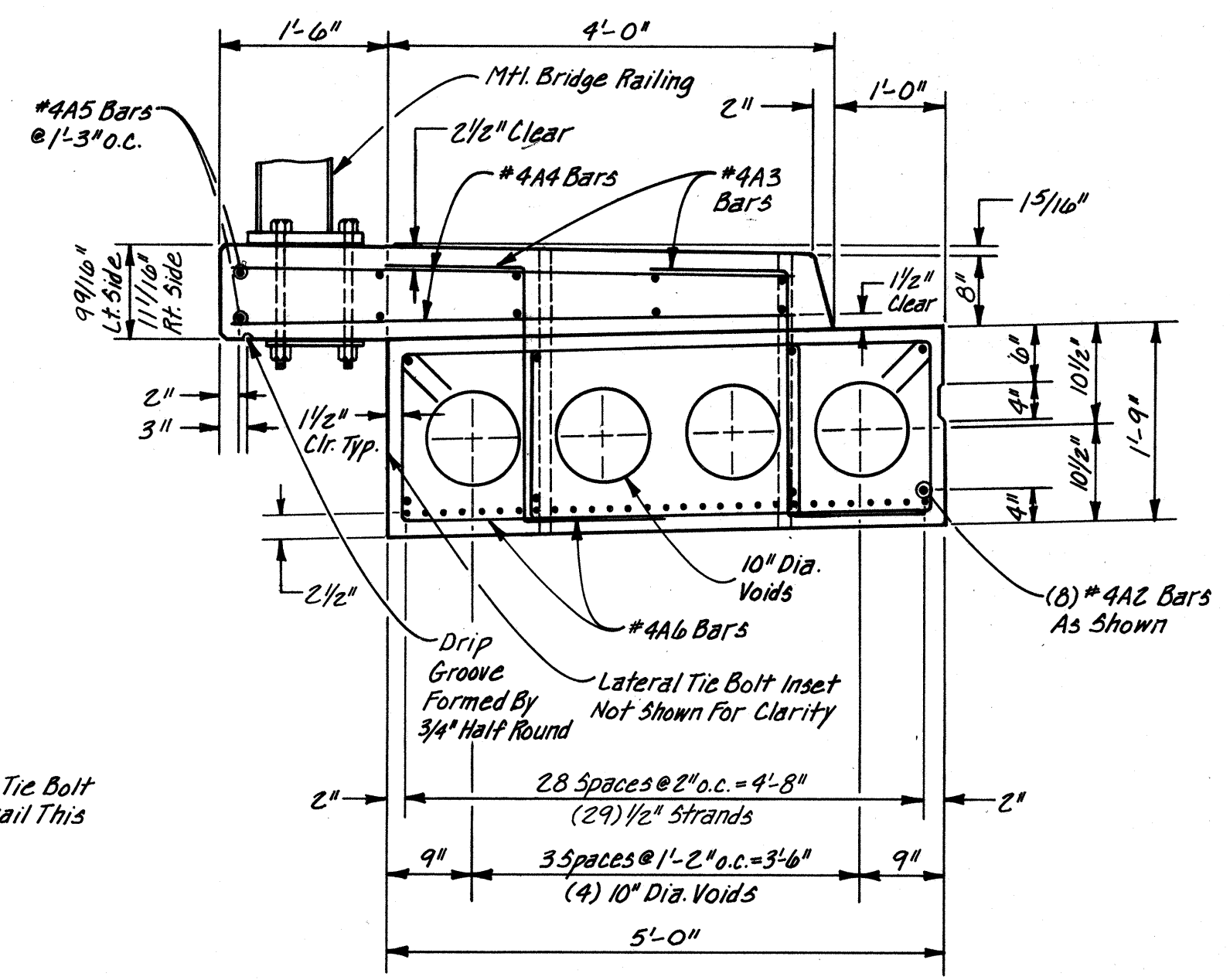
BAR BENDING DIAGRAM (EXTERIOR BEAMS)
NO SCALE

INTERIOR BEAM (6) REQUIRED

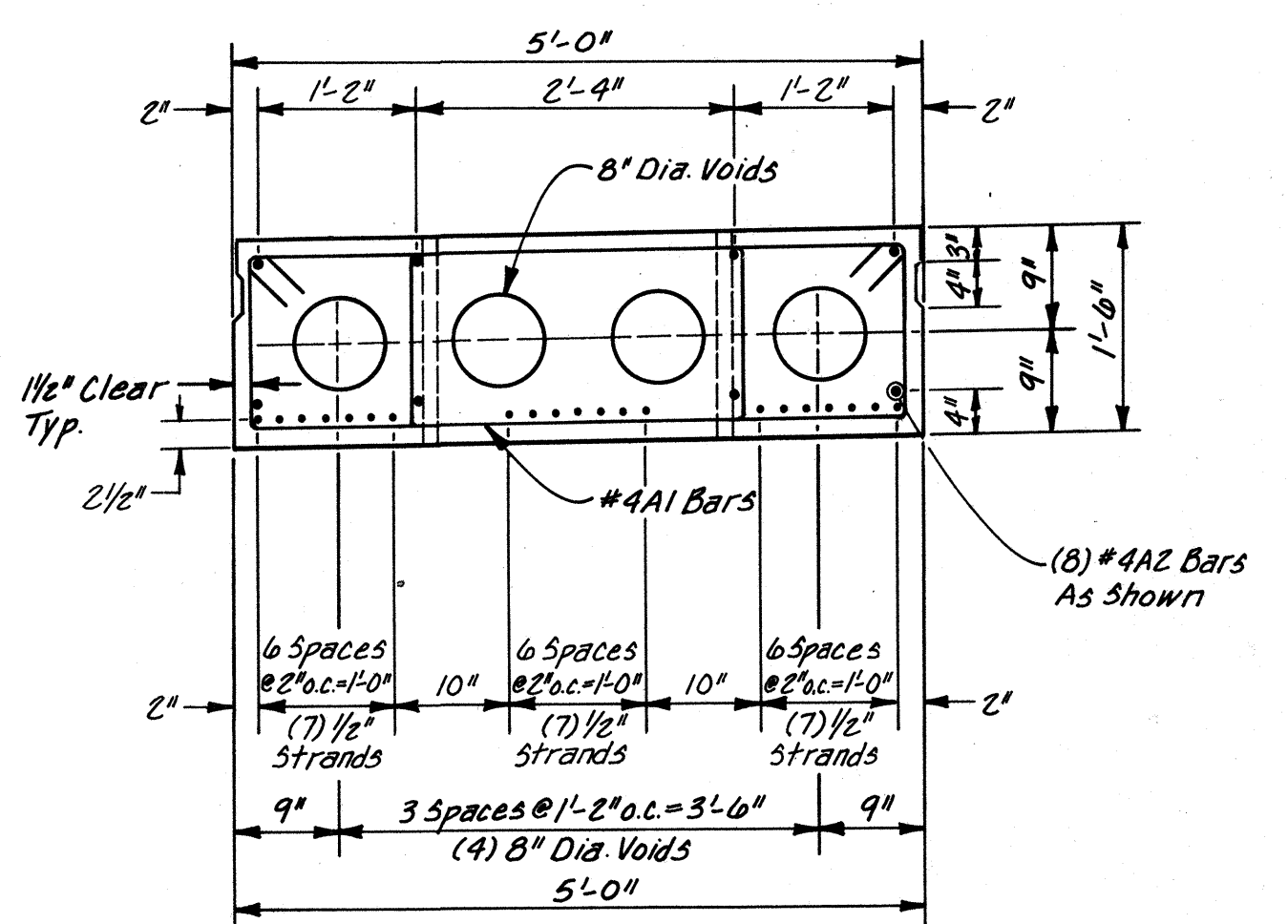
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A1	2	4	10'-4"	96
#4A2	1	4	42'-9"	8



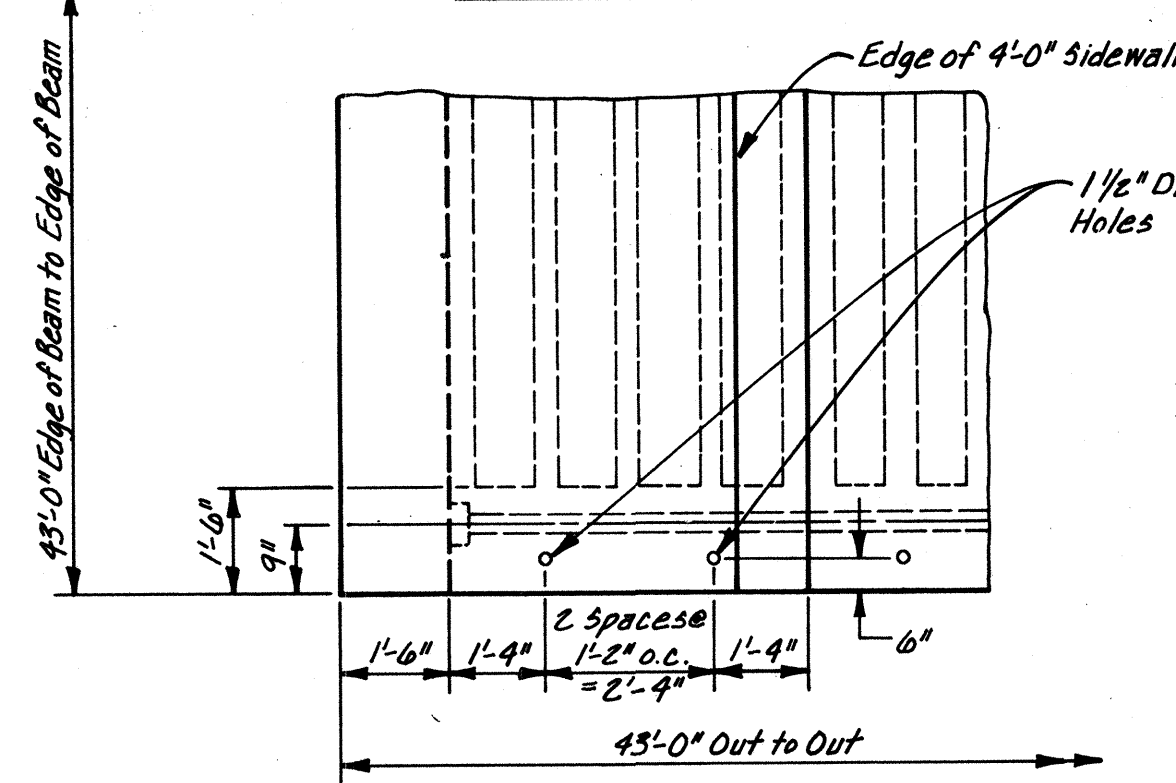
BAR BENDING DIAGRAM (INTERIOR BEAMS)
NO SCALE



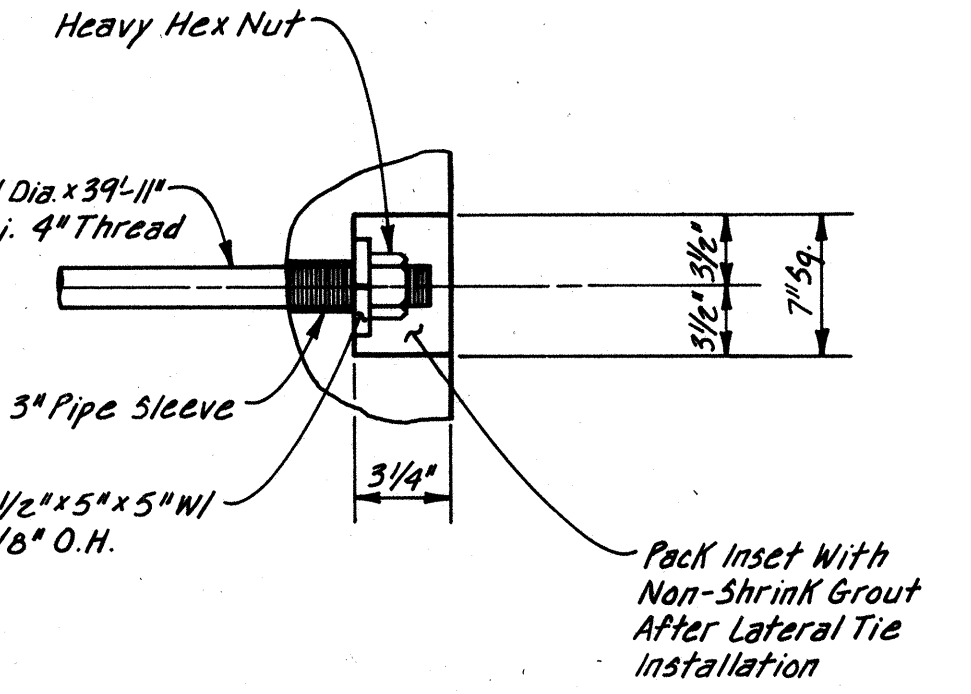
SIDEWALK & EXTERIOR BEAM DETAIL



INTERIOR BEAM DETAIL



PARTIAL PLAN



LATERAL TIE AND INSET

SHEAR KEY DETAIL

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
SUPERSTRUCTURE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
DESIGNED BY			DATE		
DRAWN BY			DATE		
CHECKED BY			DATE		

REVISIONS

NO.	DATE	REMARKS
1		DESIGN

DRAWING NO. 3603 **MAP NO.** H-21 **SHEET** 12 **OF** 13

ENGINEER'S SEAL

AS BUILT INFORMATION

CONTRACTOR	WORK	DATE
ACS 8-H21-A BRASS CAP @ S.W. QUADR. MENAUL	BLVD. & MORRIS ST. N.E. INTX.	
ELEV. 5531.08		

BENCH MARKS

DATE	BY
7/88	S. ROMERO JR. & ASSOCIATES

SURVEY INFORMATION

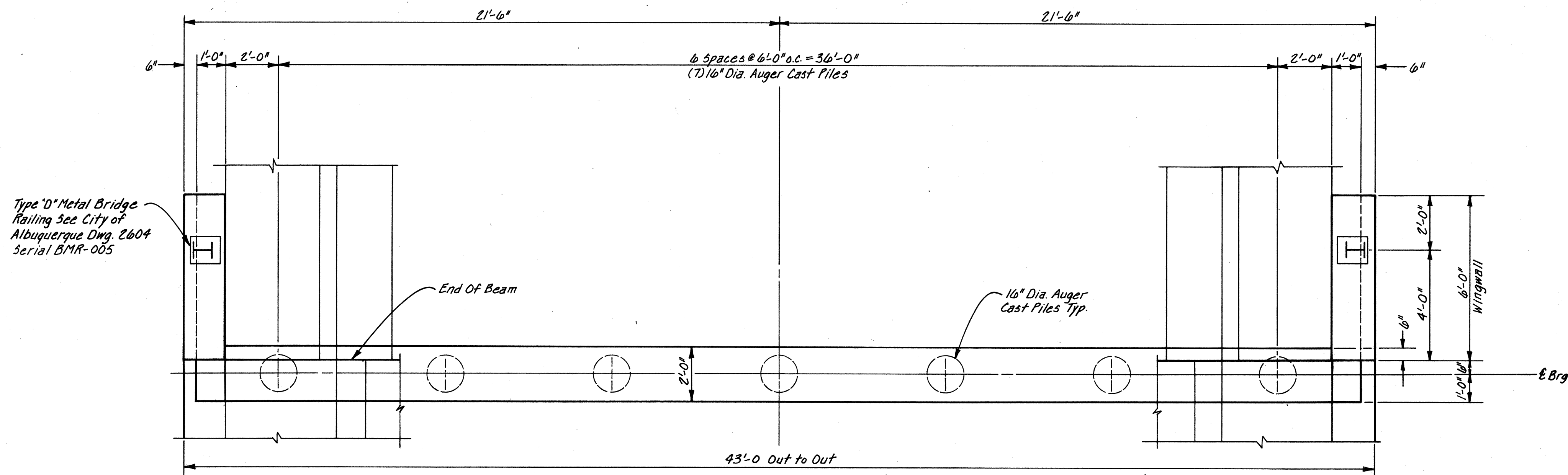
FIELD NOTES	DATE	BY

NO. 1 **DATE** 7/88 **BY** S. ROMERO JR. & ASSOCIATES

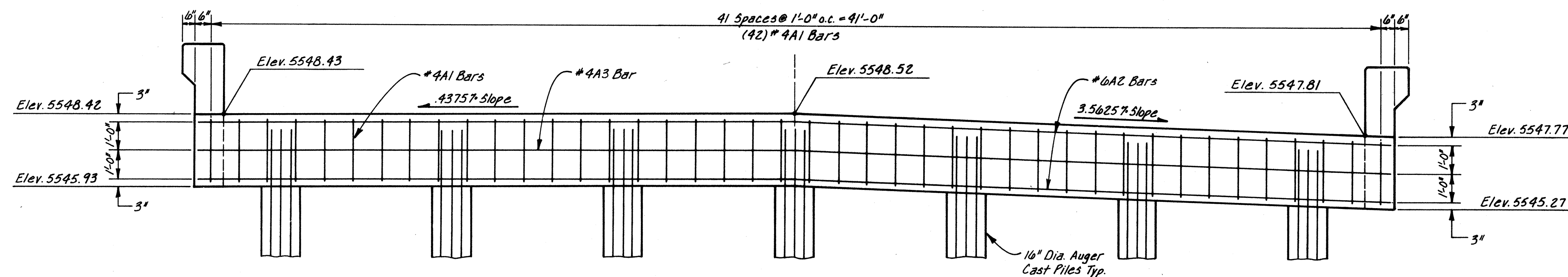
REVISIONS

NO.	DATE	REMARKS
1		DESIGN

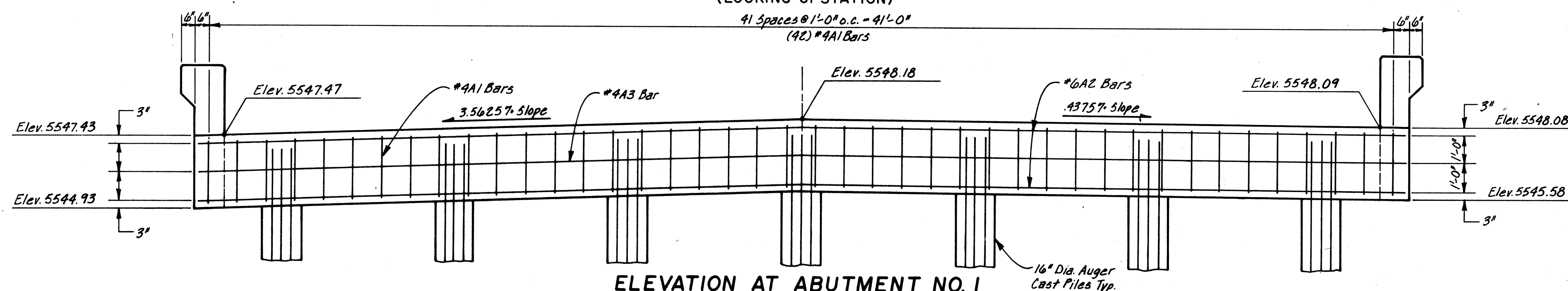
DESIGNED BY **DATE** **DRAWN BY** **DATE** **CHECKED BY** **DATE**



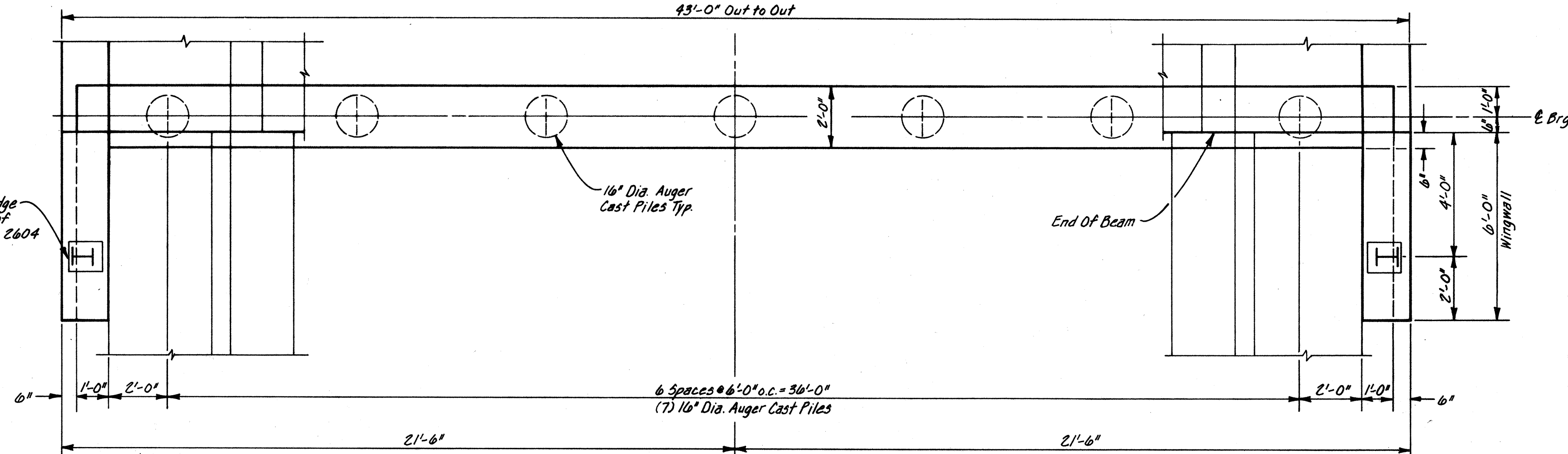
PLAN AT ABUTMENT NO. 2



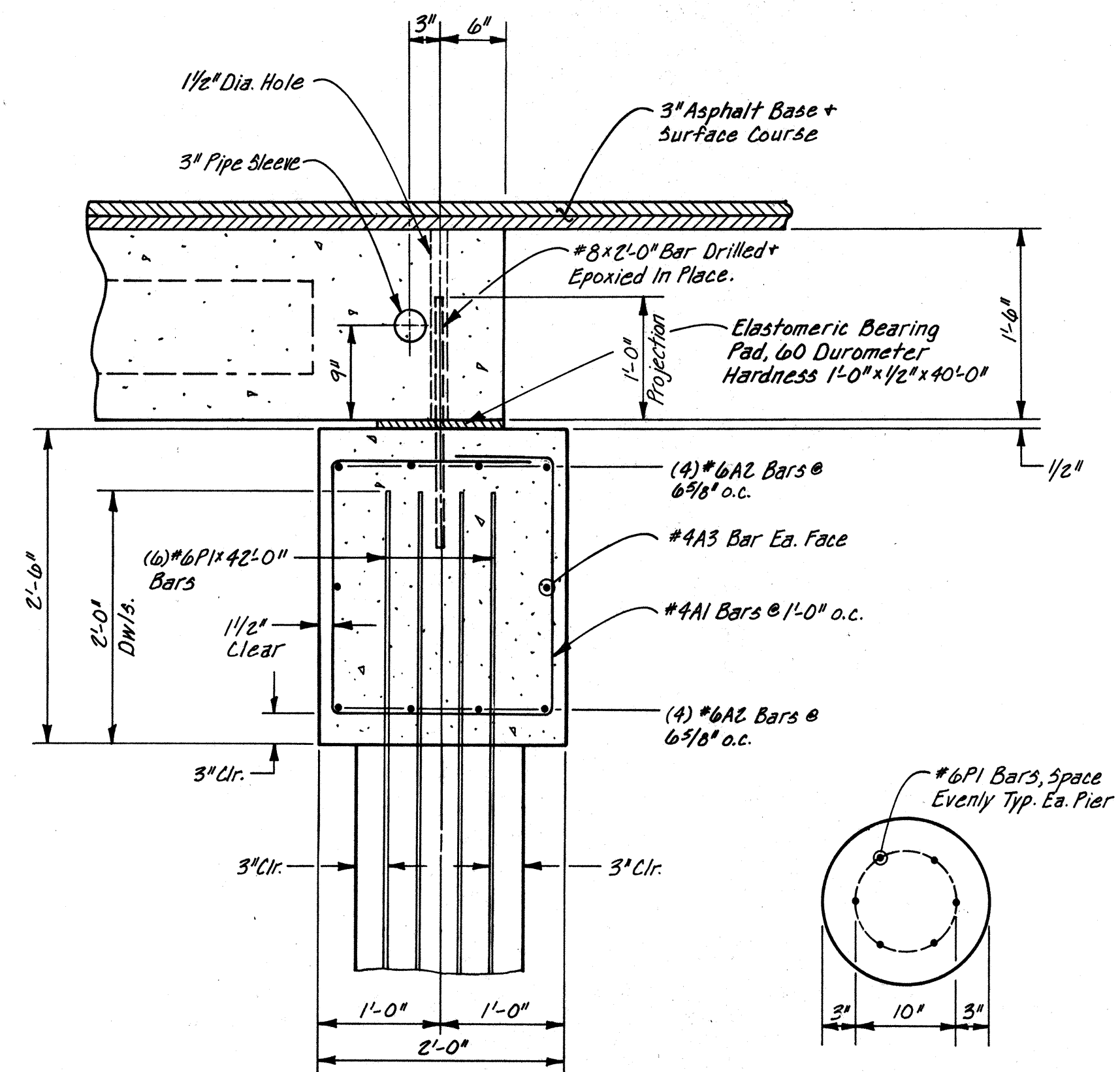
ELEVATION AT ABUTMENT NO. 2
(LOOKING UPSTATION)



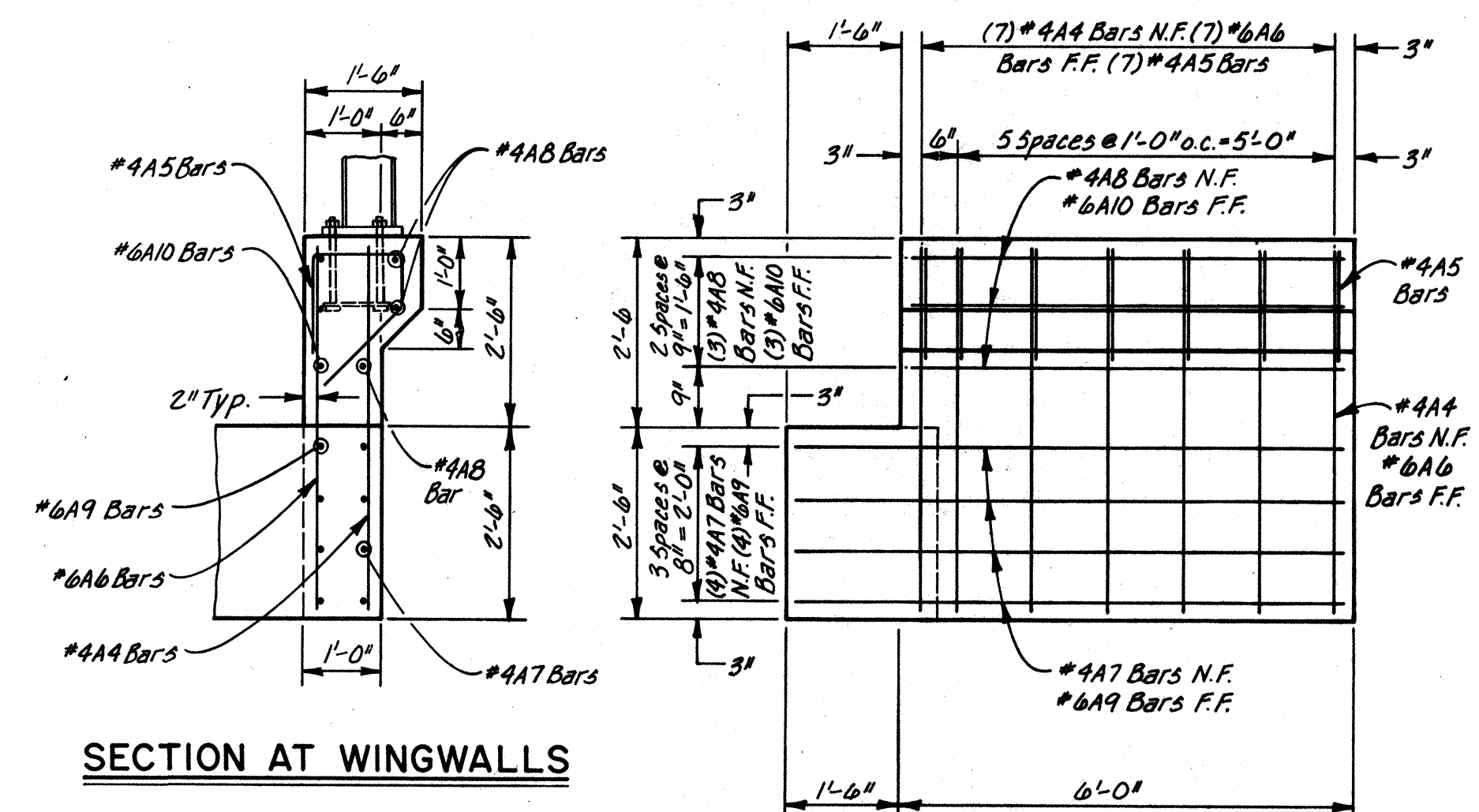
ELEVATION AT ABUTMENT NO. 1
(LOOKING DOWNSTATION)



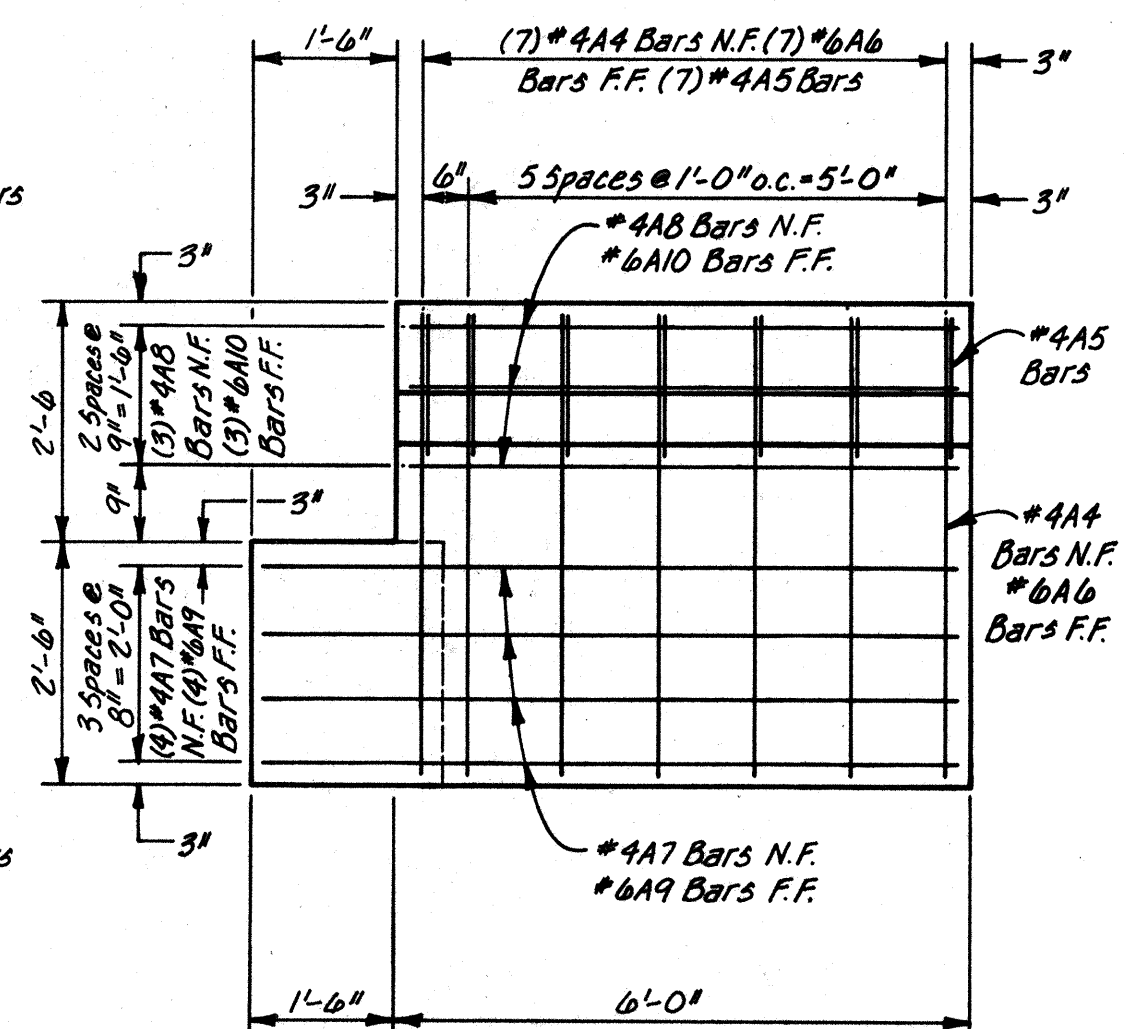
PLAN AT ABUTMENT NO. 1



ABUTMENT SECTION



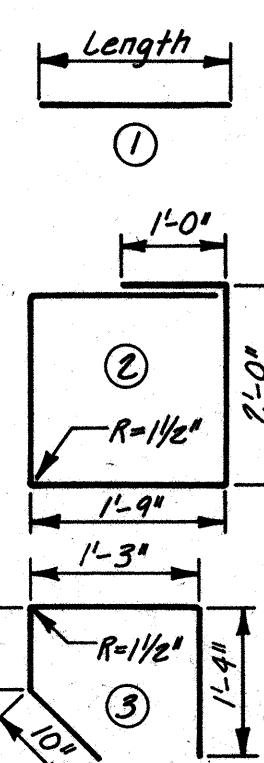
SECTION AT WINGWALLS



ELEVATION AT WINGWALLS

REINFORCING STEEL FOR
ABUT. NO. 1 & ABUT. NO. 2

REGULAR GRADE 60 BARS				
BAR	TYPE	SIZE	LENGTH	NO. REQ'D
#4A1	2	4	8'-6"	84
#4A2	1	4	42'-9 1/4"	16
#4A3	1	4	42'-9 1/4"	4
#4A4	1	4	4'-9"	28
#4A5	3	4	4'-3"	28
#4A6	1	6	4'-9"	28
#4A7	1	4	7'-3"	16
#4A8	1	4	5'-9"	12
#4A9	1	6	7'-3"	16
#4A10	1	6	5'-9"	12
#4A11	1	6	42'-0"	84



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:					
ABUTMENT & WINGWALL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					
Hydrology					
DRAWING NO.	3603	MAP NO.	H-21	SHEET	13 OF 13

AS BUILT INFORMATION	
CONTRACTOR	DATE
INSPECTOR'S NAME	DATE
FIELD ENGINEER BY	DATE
VERIFICATION BY	DATE
CORRECTED BY	DATE
RECORDED BY	DATE
NO.	

BENCH MARKS	
ACS 8-H21-A BRASS CAP @ S.W. QUADR. MENAUL BLVD. & MORRIS ST. N.E. INTX.	DATE
ELEV. 5531.08	7/88
QUADR. OF MENAUL BLVD. & JANE ST. N.E. INTX.	DATE
ELEV. 5565.70	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY S. ROMERO JR. & ASSOCIATES	7/88

ENGINEER'S SEAL	
REGISTERED PROFESSIONAL ENGINEER	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE