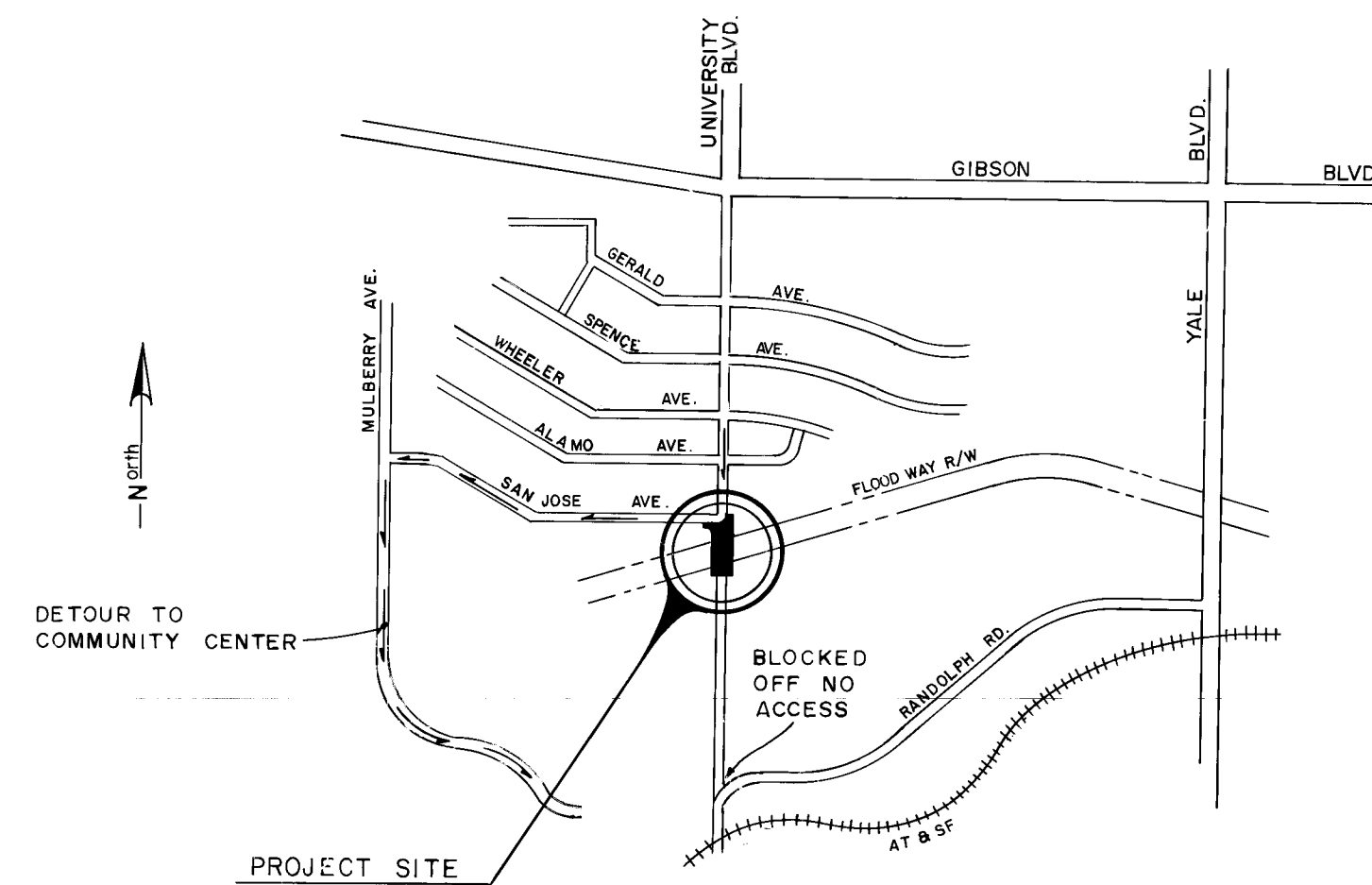
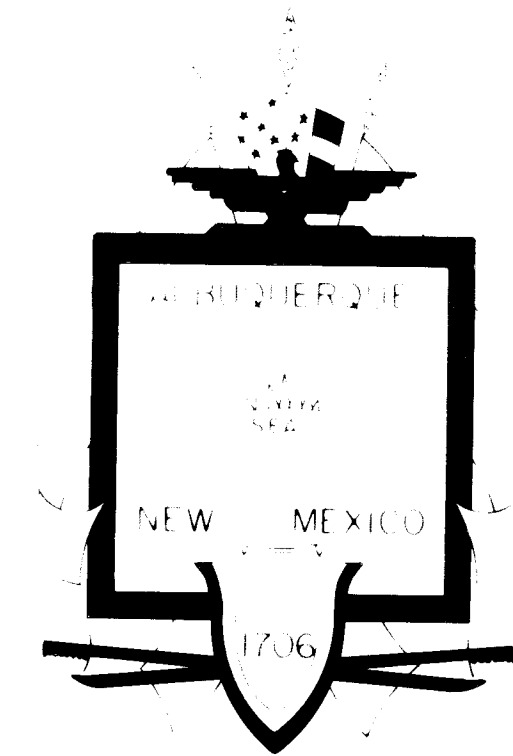




LOCATION MAP

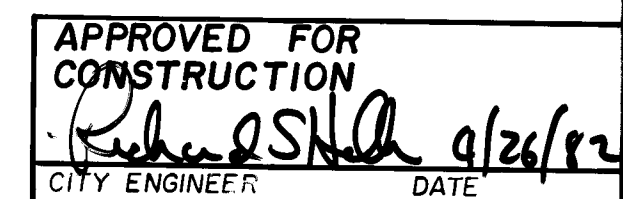
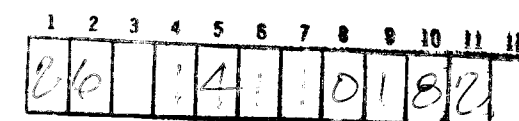
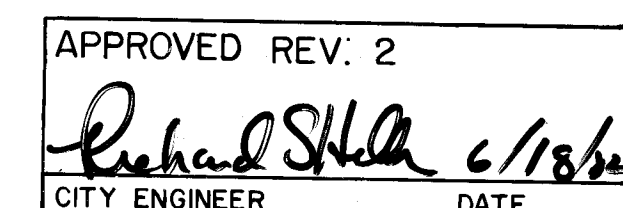
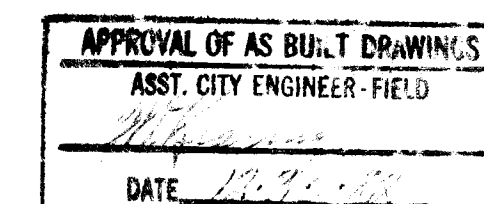


CITY OF ALBUQUERQUE, NEW MEXICO
MUNICIPAL DEVELOPMENT DEPARTMENT

INDEX

DESCRIPTION	SHEET No.
TITLE SHEET	1
REMOVAL PLAN & PARTIAL MATERIALS LIST	2
CHANNEL LINING, ABUTMENTS WING WALL PLAN & PROFILE	3
ROAD PLAN & PROFILE	4 (Revision 2)
BRIDGE PLAN & DETAILS	5
BRIDGE GUARD RAIL DETAILS	6
WING WALL PLAN & DETAILS	7
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KIRTLAND ADDITION FLOODWAY BRIDGE



GARDNER, MASON & ASSOC.
ALBUQUERQUE, NEW MEXICO

DATE MAY 1981

1411

GENERAL NOTES

- The contractor shall remove and dispose of existing curb and gutter and asphalt pavement from driveway station 0 + 45.70 to station 1 + 24.56 as shown on this sheet and on sheet 4. All removals shall be saw cut to a neat line.
- The contractor shall remove and dispose of existing concrete channel lining, headwalls and wingwalls from channel station 0 + 00 to station 1 + 27.0 as shown on this sheet. The existing 72 inch culverts shall be removed and disposed of per contract Item No. K-85.
- The contractor is to remain within the limits of construction as shown on this sheet and sheet 4. Parks and Recreation Department personnel will remove sod and sprinkler system lines after the contractor has staked the limits of construction and prior to moving equipment on site. The contractor will give Parks and Recreation one week for their removal.
- The contractor shall notify the City Surveyor prior to removing the existing Bench Mark as shown on sheet 4.
- Concrete used for the abutments and wingwalls shall have a compressive strength of 4,000 pounds. Concrete used for precast members shall have a compressive strength of 5,500 pounds. Lining should be "Fly Ash" added minimum 6 sacks.
- The quantities shown on these plans are for contractors information only.
- Park and Community Center traffic will be detoured via San Jose Avenue, Mulberry Avenue and the existing dirt road. University Blvd. will be closed to all traffic within the limits of construction.
- The unpaved access road from Mulberry to the Community Center shall be graded and maintained by the contractor. This item to be considered incidental to construction with no separate payment.
- Precast Tee Beams shall be designed in accordance with the requirements in these plans. They shall meet the design load for HS20 loading and shall meet or exceed AASHTO standards.
- The contractor shall complete the grading within the limits of construction to the satisfaction of the Parks and Recreation Department so that sod may be replaced.
- New Mexico Standard Specifications for Public Works Constructions - 1979 Edition will be referred to hereon as the "Standard Specification".
- 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 "Contract Documents for City-Wide Utilities and Cash Paving No. 30" and the standard specification.
- 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.
- Two 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 obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

LEGEND

Water	W
Sanitary Sewer	S
Storm Sewer	SS
Gas Line	G
Match existing	
Limits of Construction	---
New Sidewalk	
New Curb and Gutter	

ABBREVIATIONS

T.W. Top of Wall	B.C. Back of Curb
T.C. Top of Curb	F.G. Finished Grade
O.C. On Center	S Sanitary Sewer
T.S.W. Top of Sidewalk	W Water
T.F. Top of Footing	G Gas
S.W. Sidewalk	B.B. Back to Back
F.L. Flow line	W.W.F. Welded Wire Fabric
R.C.P. Reinforced Concrete Pipe	C.I. Cast Iron
D.P. Drive Pad	D.I. Ductile Iron
	S.S. Storm Sewer



14110282

CITY OF ALBUQUERQUE
MUNICIPAL ENGINEERING DEPARTMENT
ENGINEERING DIVISION

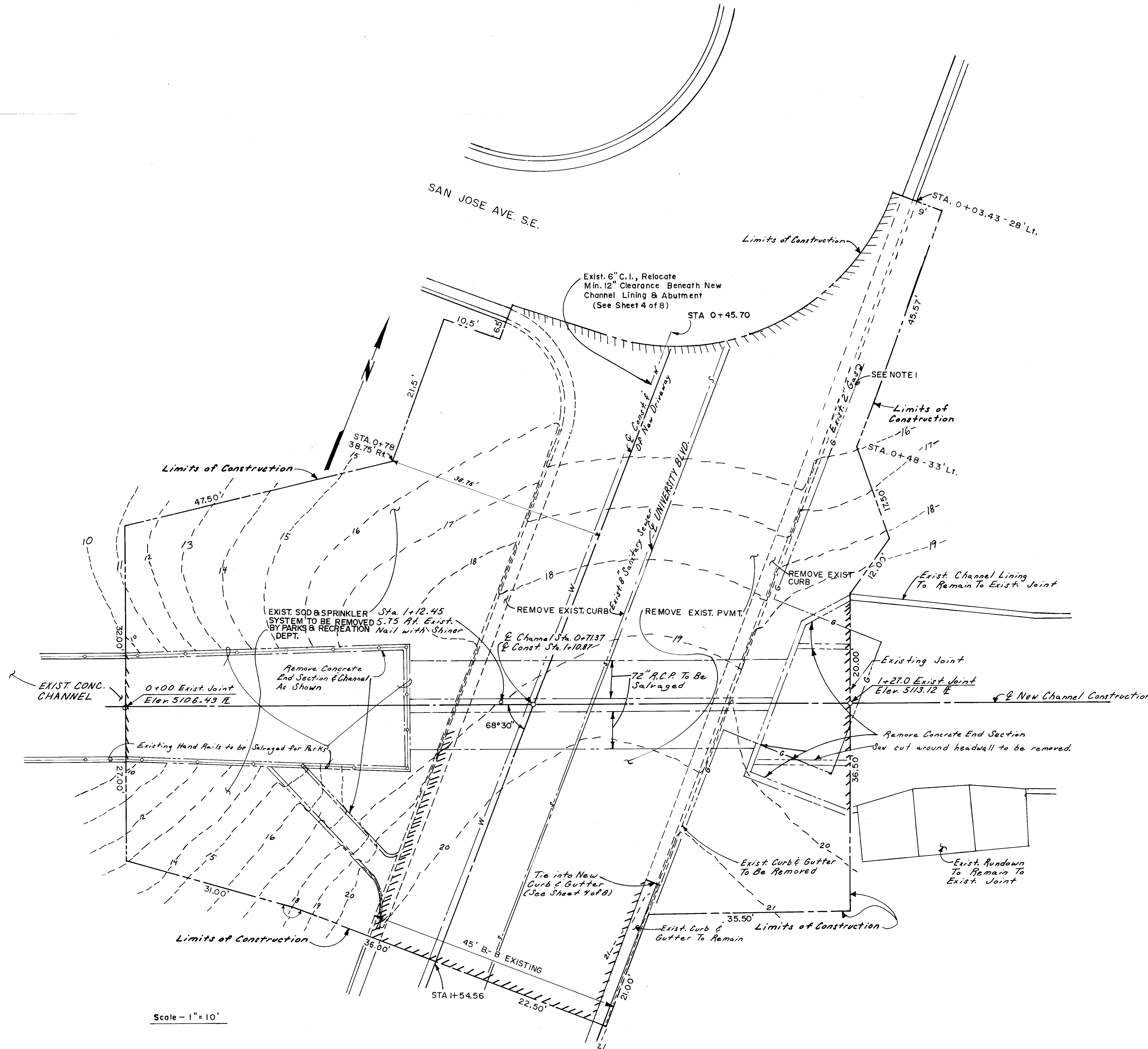
TITLE
**KIRTLAND ADDITION
FLOODWAY BRIDGE**
GENERAL NOTES, REMOVAL ITEMS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY ENGINEER	A.C.E. Design	4/26/82	Liquid Waste	4/26/82	
	A.C.E. Hydrology	4/26/82	Traffic	4/26/82	
			Water	4/26/82	

GARDNER, MASON & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

DRAWING NO. **1411**

SHEET 2 OF 8



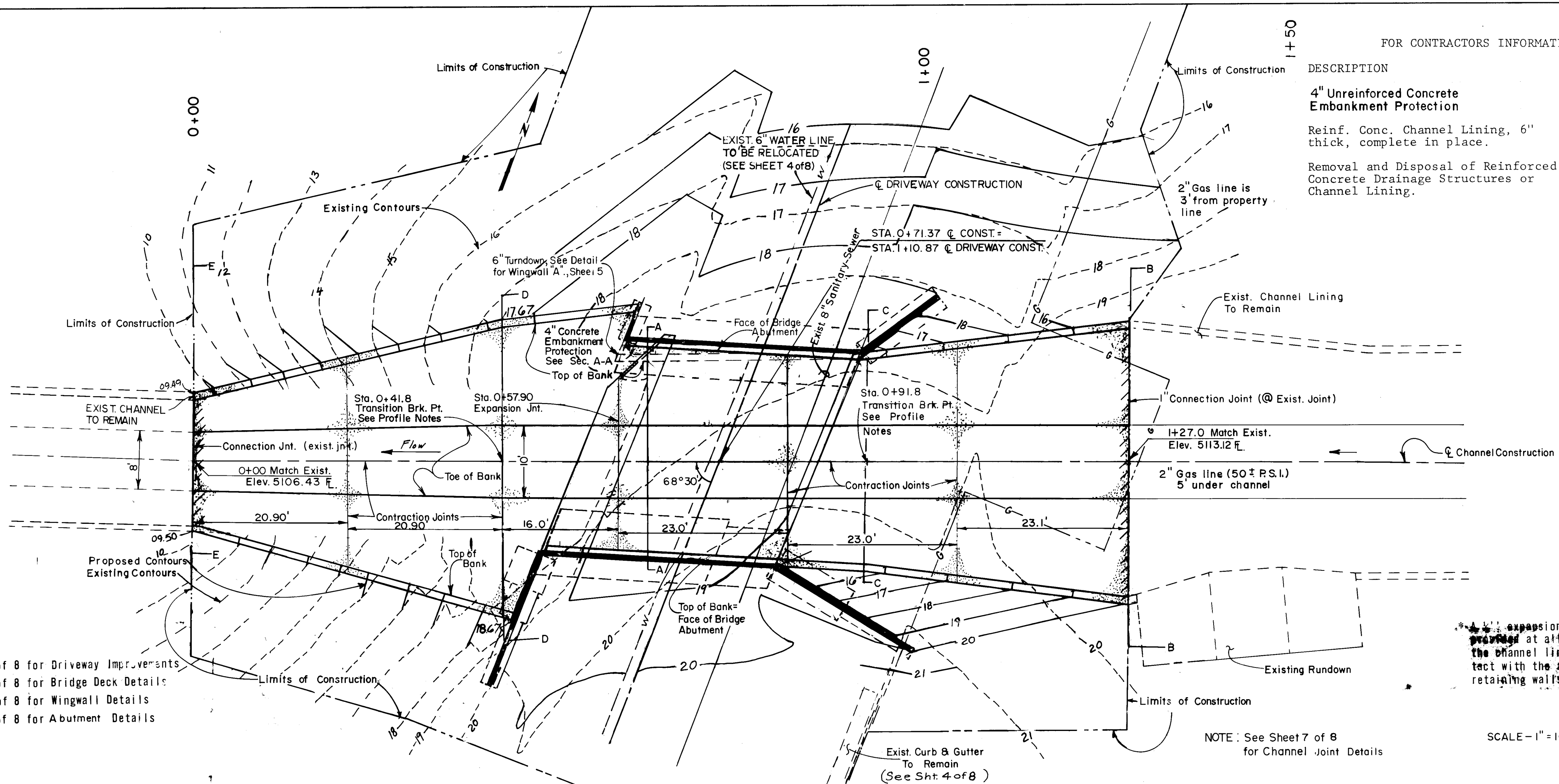
PLAN

DATE	BY
SURVEYED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NO.	

PROFILE

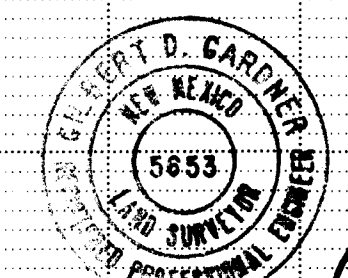
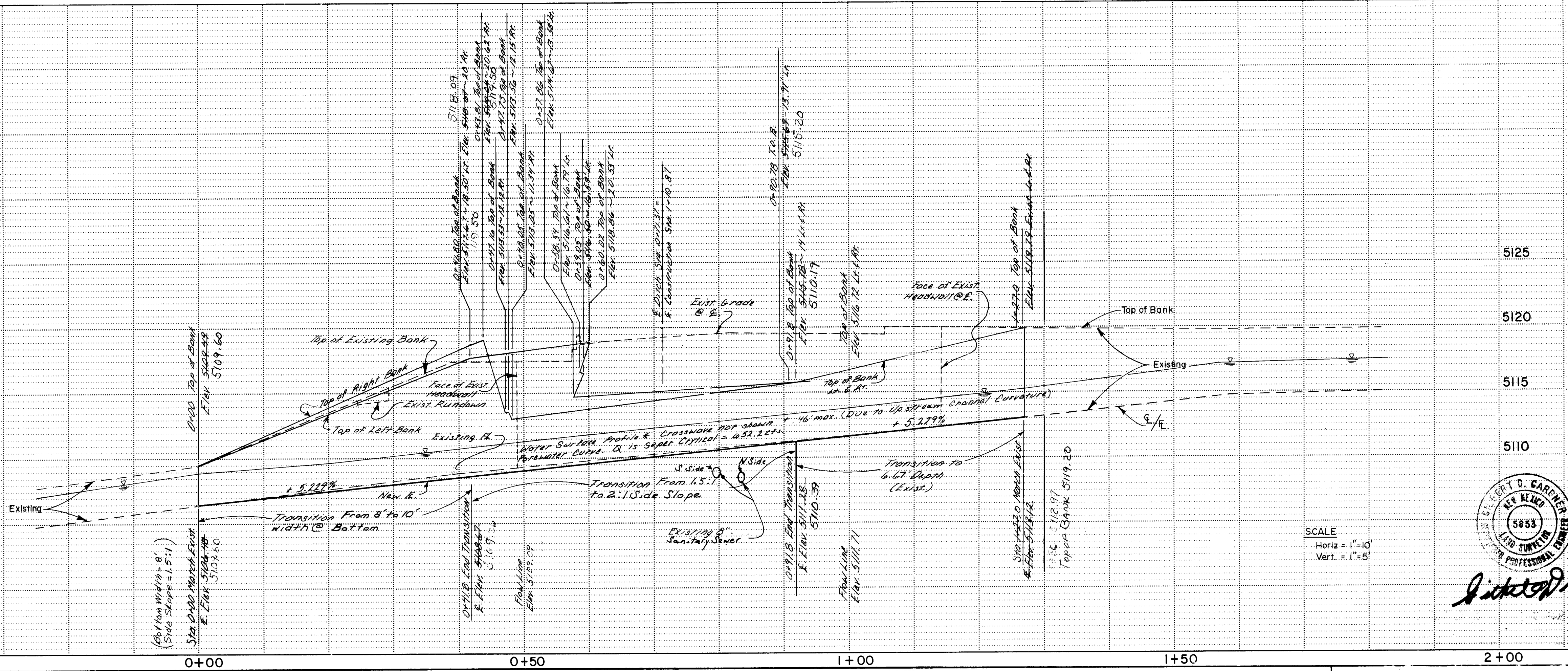
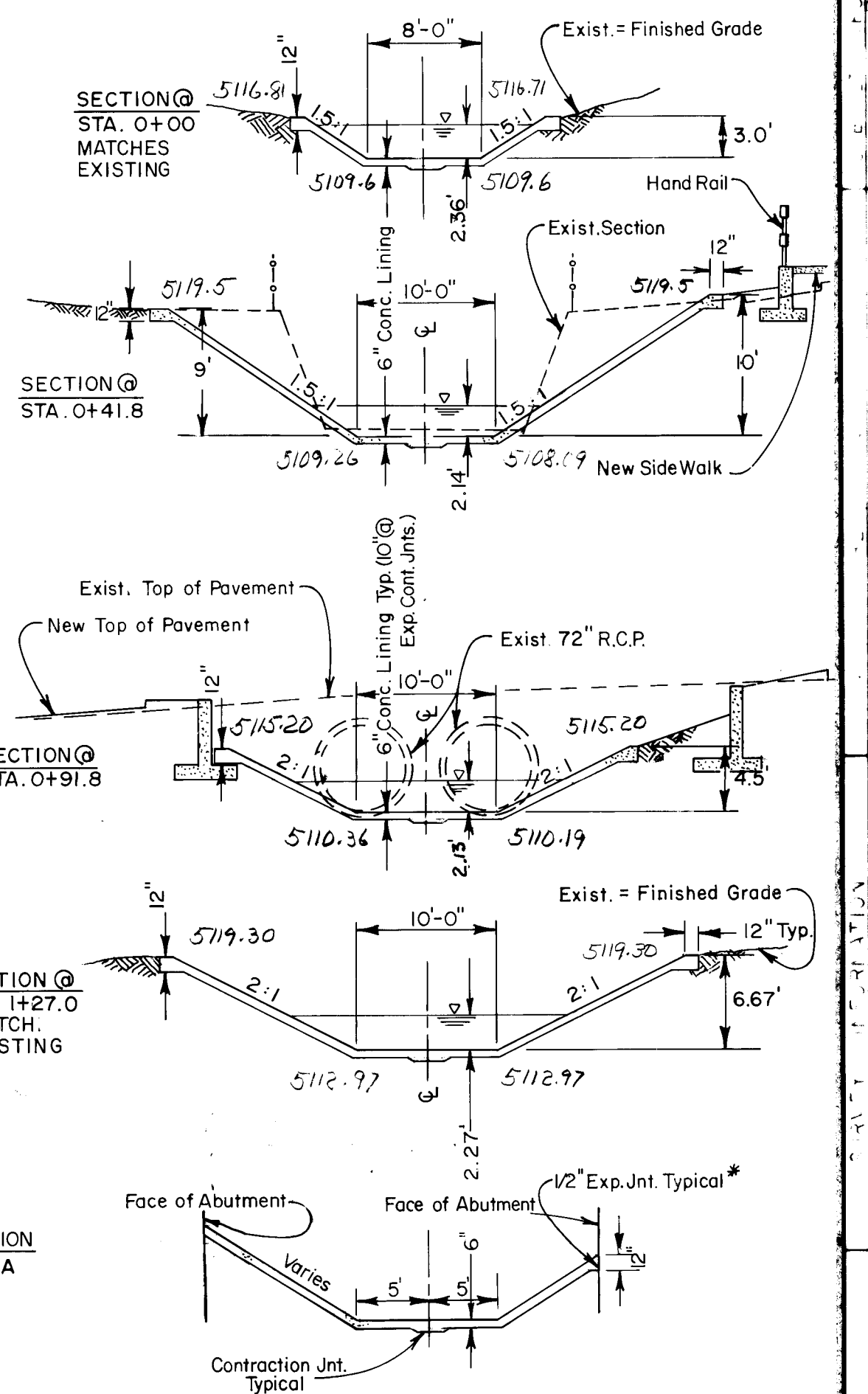
DATE	BY
SURVEYED	
GRADES CHECKED	
B. M. NOTED	
STRUCTURE NOTATION CHECKED	
NO.	

See sheet 4 of 8 for Driveway Improvements
See sheet 5 of 8 for Bridge Deck Details
See sheet 7 of 8 for Wingwall Details
See sheet 8 of 8 for Abutment Details



FOR CONTRACTORS INFORMATION ONLY

DESCRIPTION	UNIT	QUANTITY
4" Unreinforced Concrete Embankment Protection	SF	15
Reinf. Conc. Channel Lining, 6" thick, complete in place.	SF	4290
Removal and Disposal of Reinforced Concrete Drainage Structures or Channel Lining.	CY	30



KIRTLAND ADDITION
FLOODWAY BRIDGE
CHANNEL IMPROVEMENTS

DATE 11-80
DATE 11-80
DATE 11-80

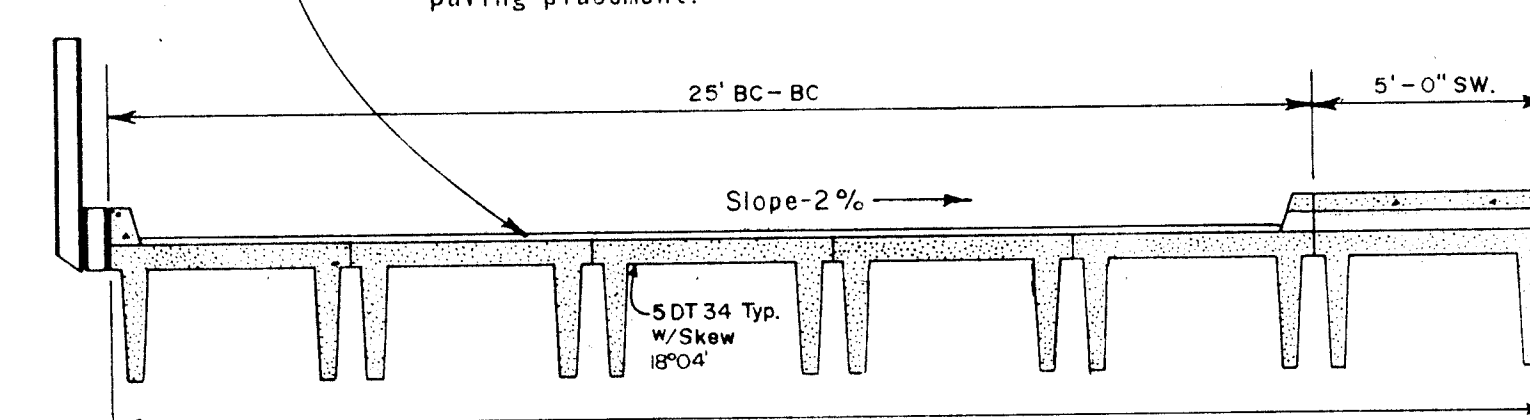
1411

SHEET 3 OF 8

DESCRIPTION	UNIT	QUANTITY
Portland Cement Reinf. Conc. for headwalls, retaining walls and general usage, in place.	CY	60
Asphaltic Conc. Surface Course, 2" thick, 1500 lb. stability, machine laydown.	SY	85
Remove and return exist. 72" Reinforced Concrete pipe.	LF	128
Prestressed Conc. Double Tee Beams, 5' x 31.56'	SF	950
2" Schedule 40 Steel Pipe Hand Rail	Lb	2355
Reinforced Curb.	CY	1.5
Reinforced Sidewalk.	CY	4
Waterproof Membrane Underliner.	SY	85

2" HMAAC 1500# Stability w/waterproof membrane underliner. "Corlisle" sure-seal liquesol waterproofing membrane or approved equal (Sweets)

NOTE: No finish required on precast D. T.'s and 1/4" joints between T.'s. are to be grouted w/non shrink grout prior to membrane and paving placement.



1-#5 Continuous Hooks down @ ends & Exp. Jnt.

Top of Precast Obl. T

Double T Steel

Guard Rail Inserts

Const. Joint

Dimensions: 12 3/8", 18", 12 1/4", 76", 13", 1 1/2", 2 1/2", 1 1/2", 1 1/2", 1 1/2"

1- #4 Continuous Hooks down @ ends & Exp. Jnt.

2- 3'-3 3/16"

3- 1 1/2"

4- Nosepiece Anchors @ Blockouts

5- #5 Sidewalk Reinforcement

6- 6" Blk.Out

7- 13"

8- 1 1/2"

9- 18"

10- 11 13/16"

11- 5/8"

12- 12 3/4"

13- 1 1/2"

14- 76°

15- Top of Precast Obl. T

16- Double T Steel

17- Guard Rail Inserts

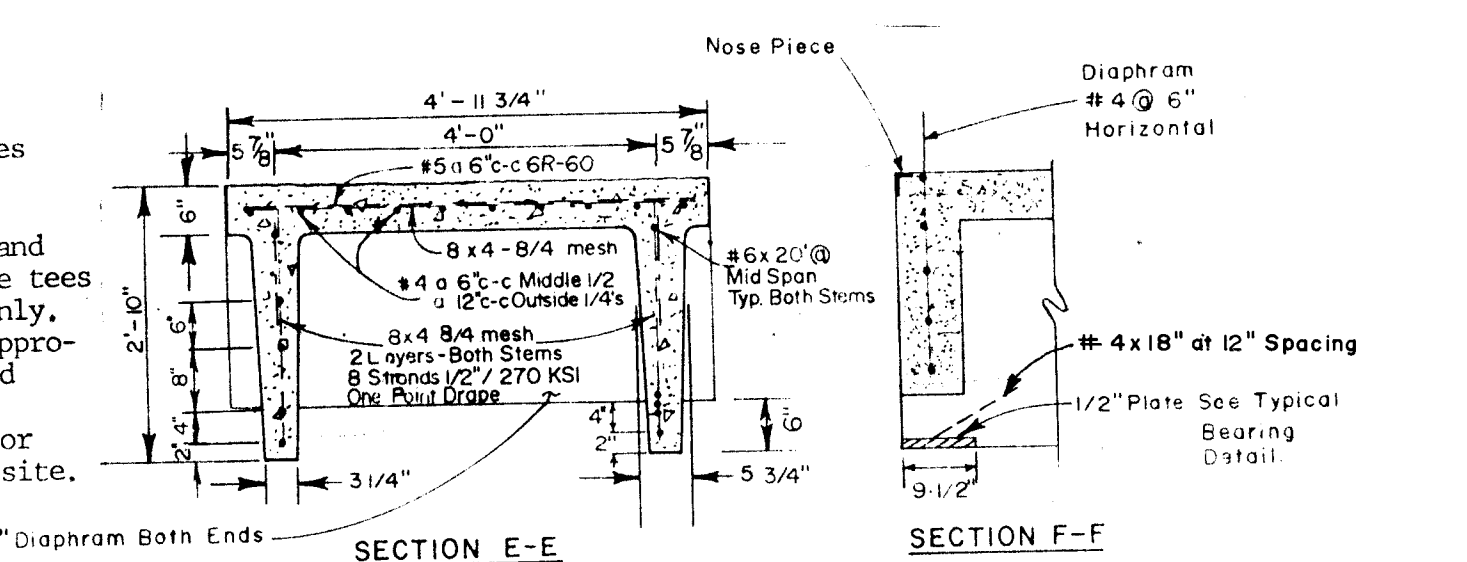
18- 1 1/2"

19- 3/4" Joint Between T's

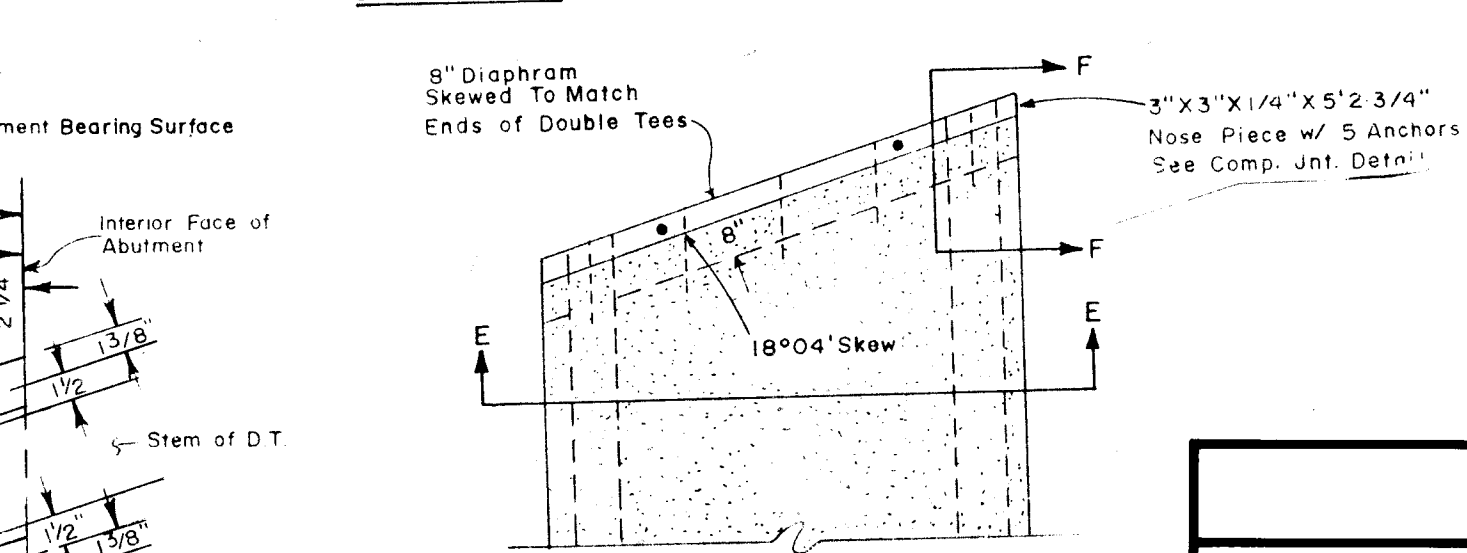
[illegible]

NOTE: Compression joint to be covered with a 4" wide 1/4" steel plate where sidewalk is to be placed. Compression joint in sidewalk to be over bridge compression joint.

NOTE * Steel Placement and configuration for double tees shown for information only. Contractor to provide appropriate shop drawings and design calculations for review and approval prior to actual placement on site.



SECTION F-F

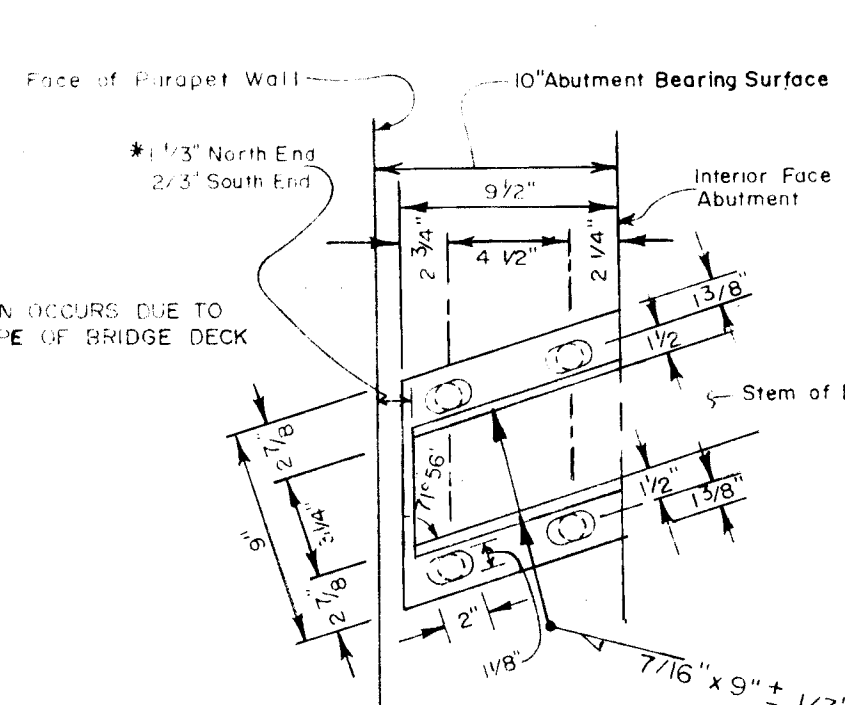


PLAN

DOUBLE TEE DETAIL

Scale: 1" = 2'

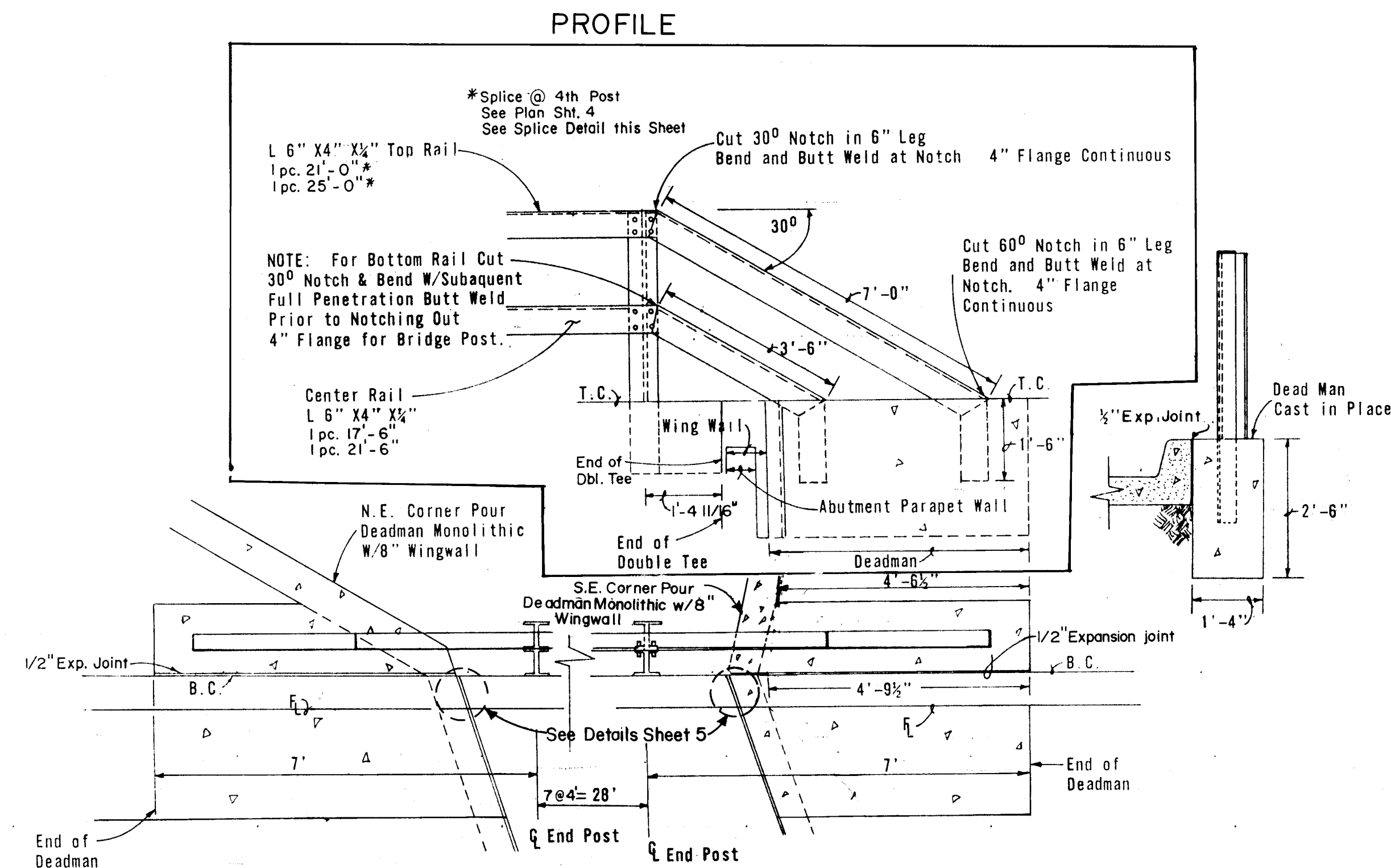
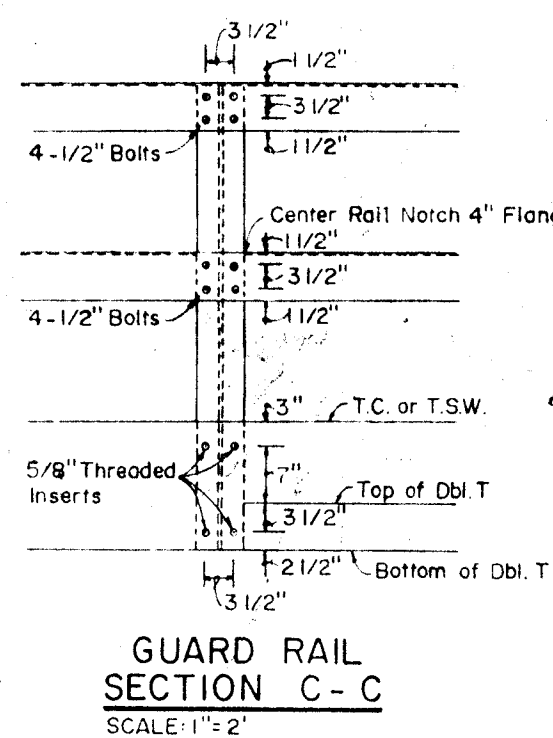
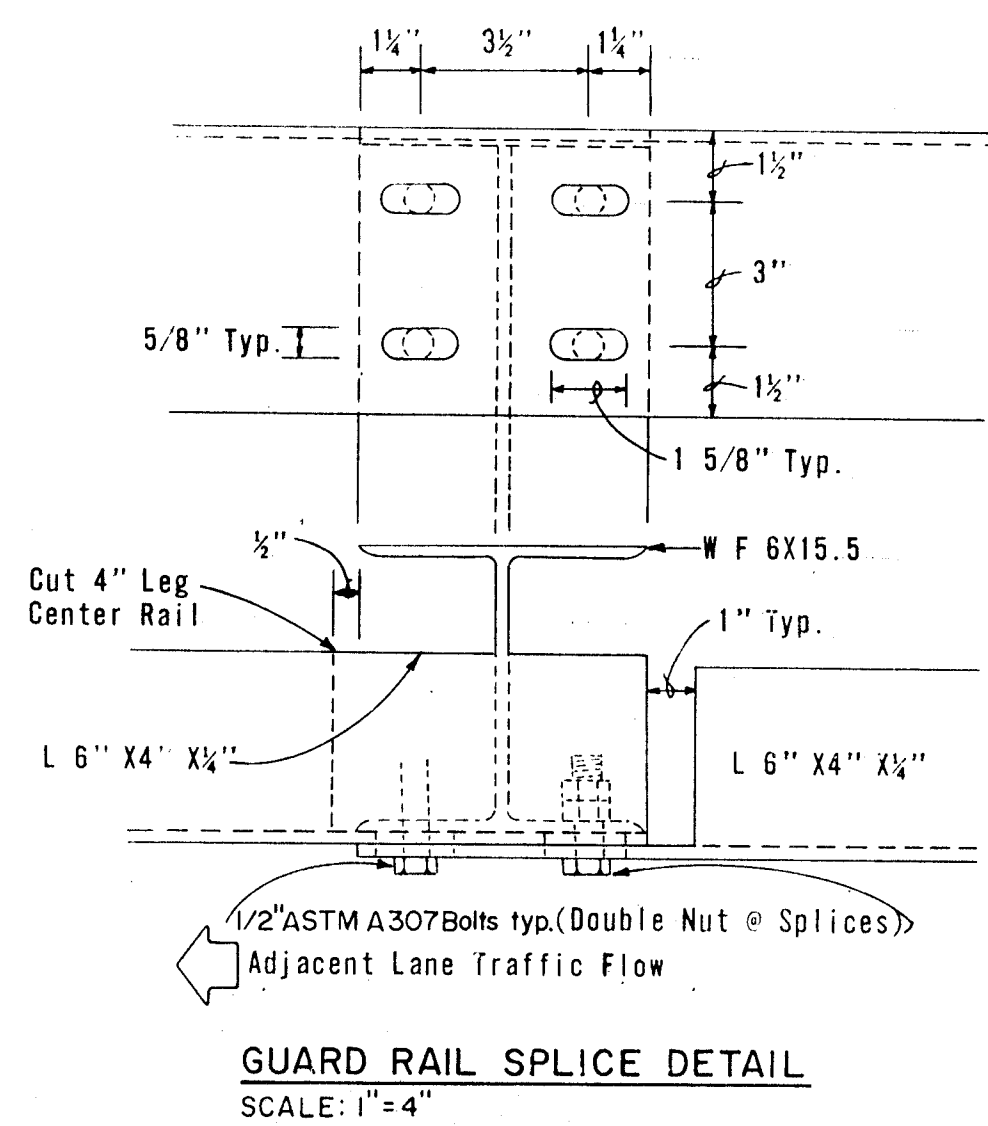
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NO SCALE

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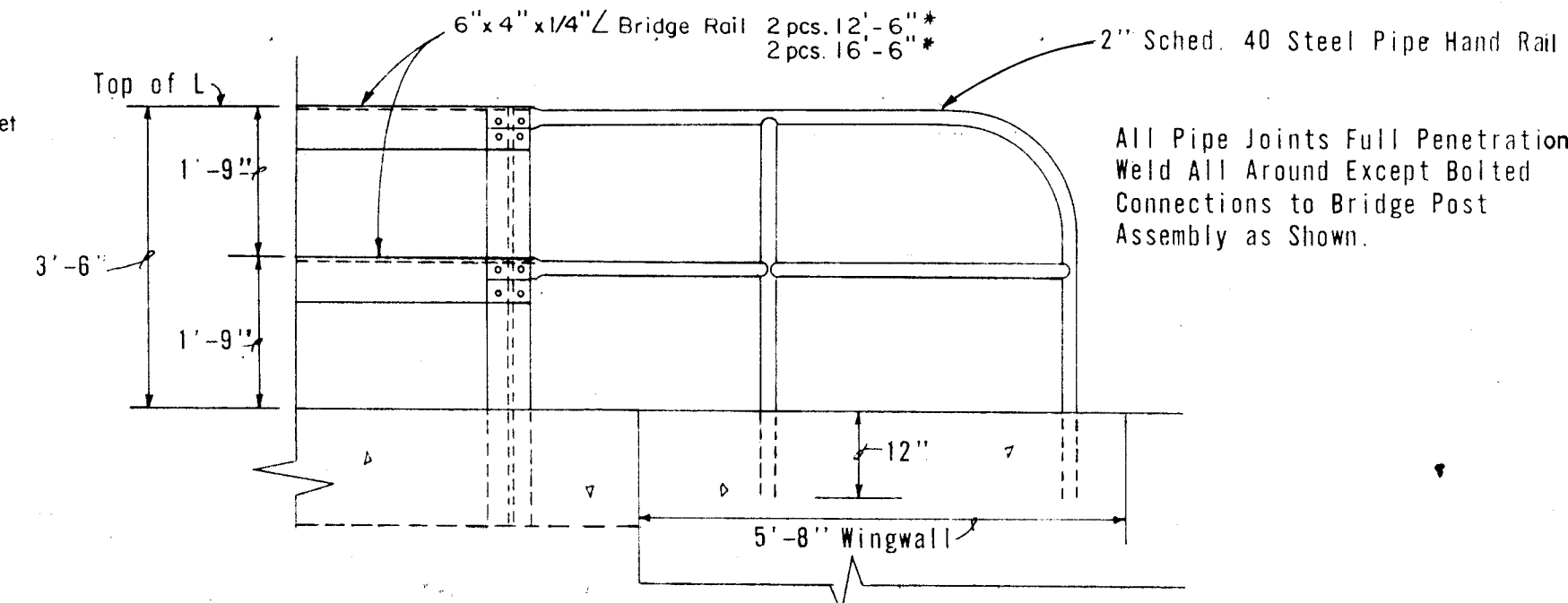
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	4/26/82	Liquid Waste	N/A <i>[Signature]</i>	3/14/82
A.C.E. Design	<i>[Signature]</i>	4/26/82	Traffic	N/A <i>[Signature]</i>	
A.C.E. Hydrology	<i>[Signature]</i>		Water	N/A <i>[Signature]</i>	3/18/82

NO.	1711	SHEETS OF 5
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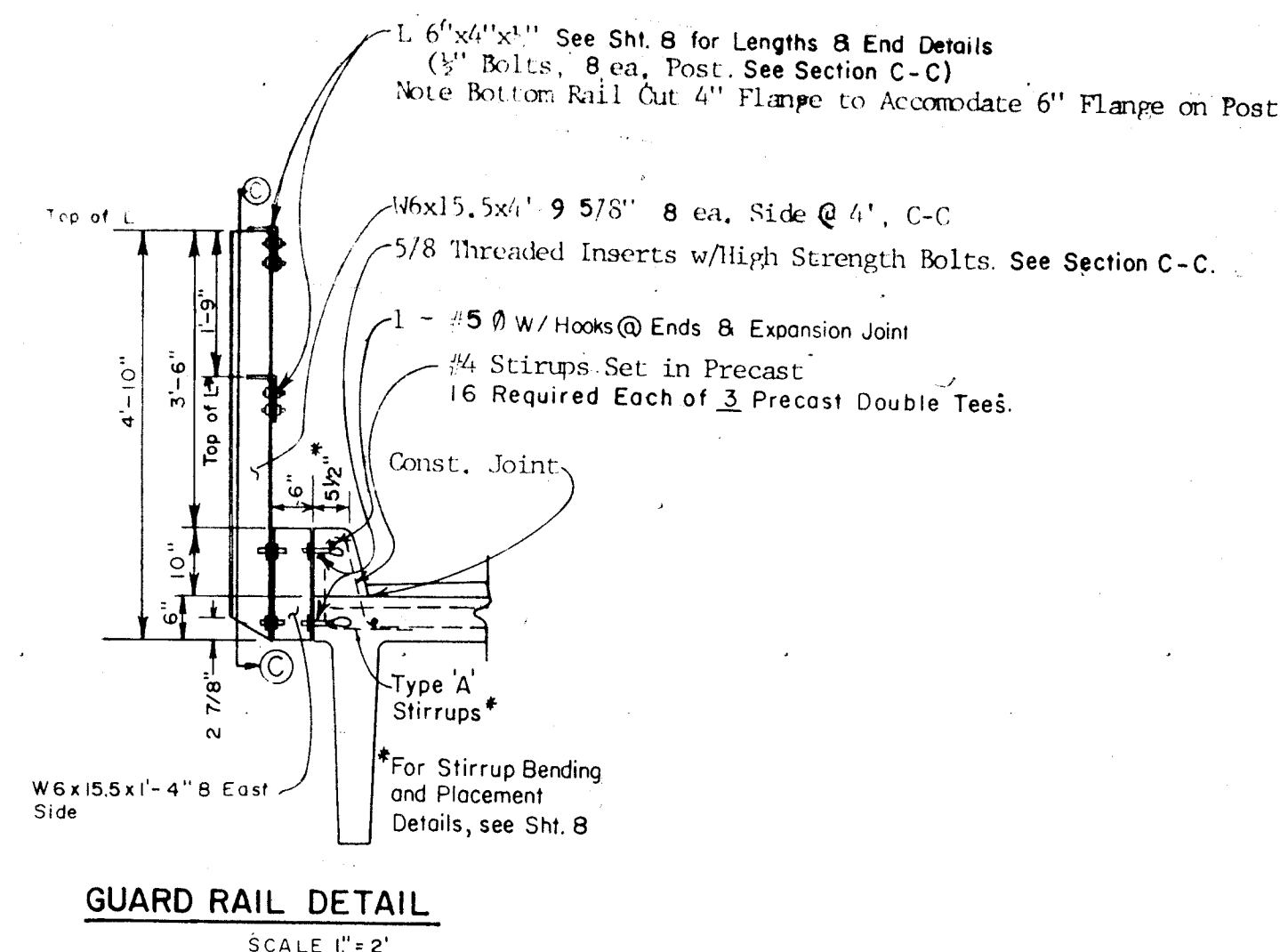
GARDNER, MASON & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO



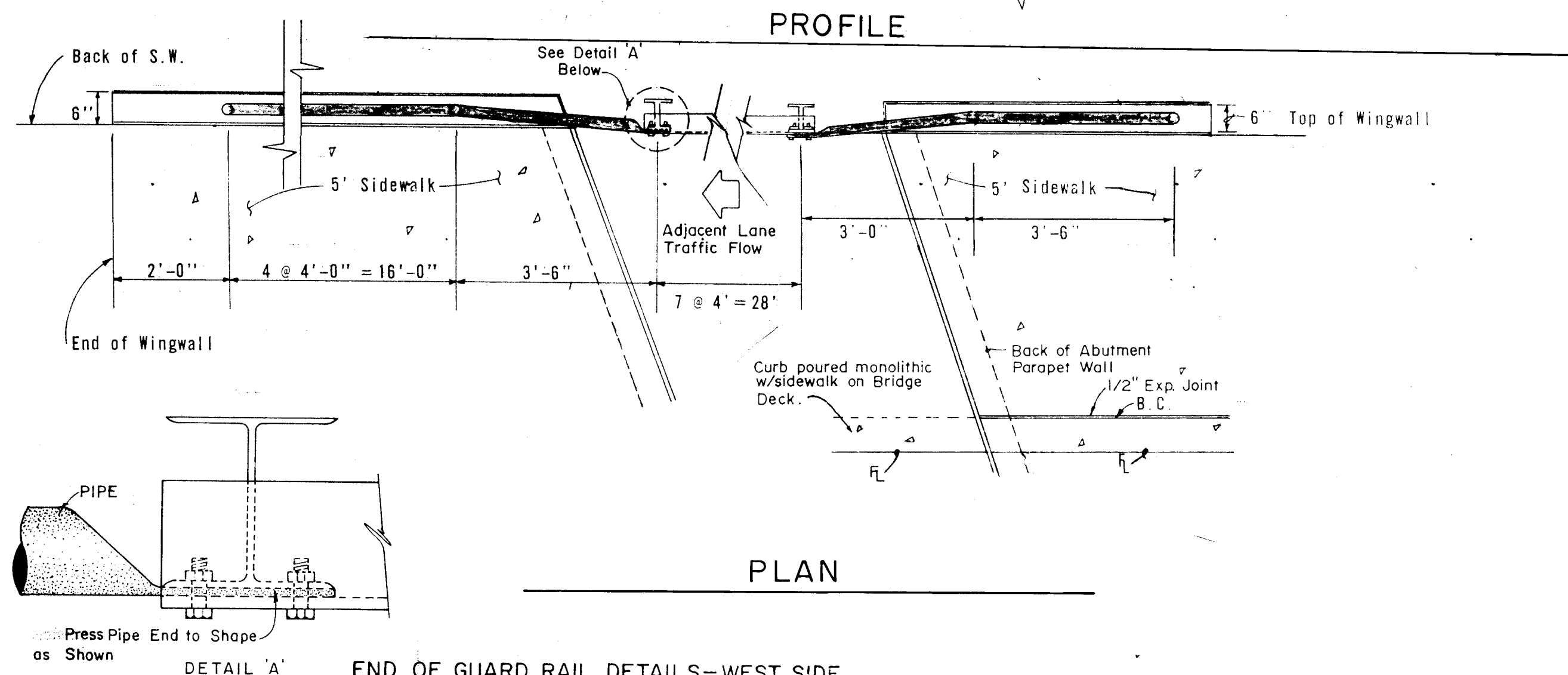
END OF GUARD RAIL DETAILS-EAST SIDE



END OF GUARD RAIL DETAILS-WEST SIDE



GUARD RAIL DETAIL

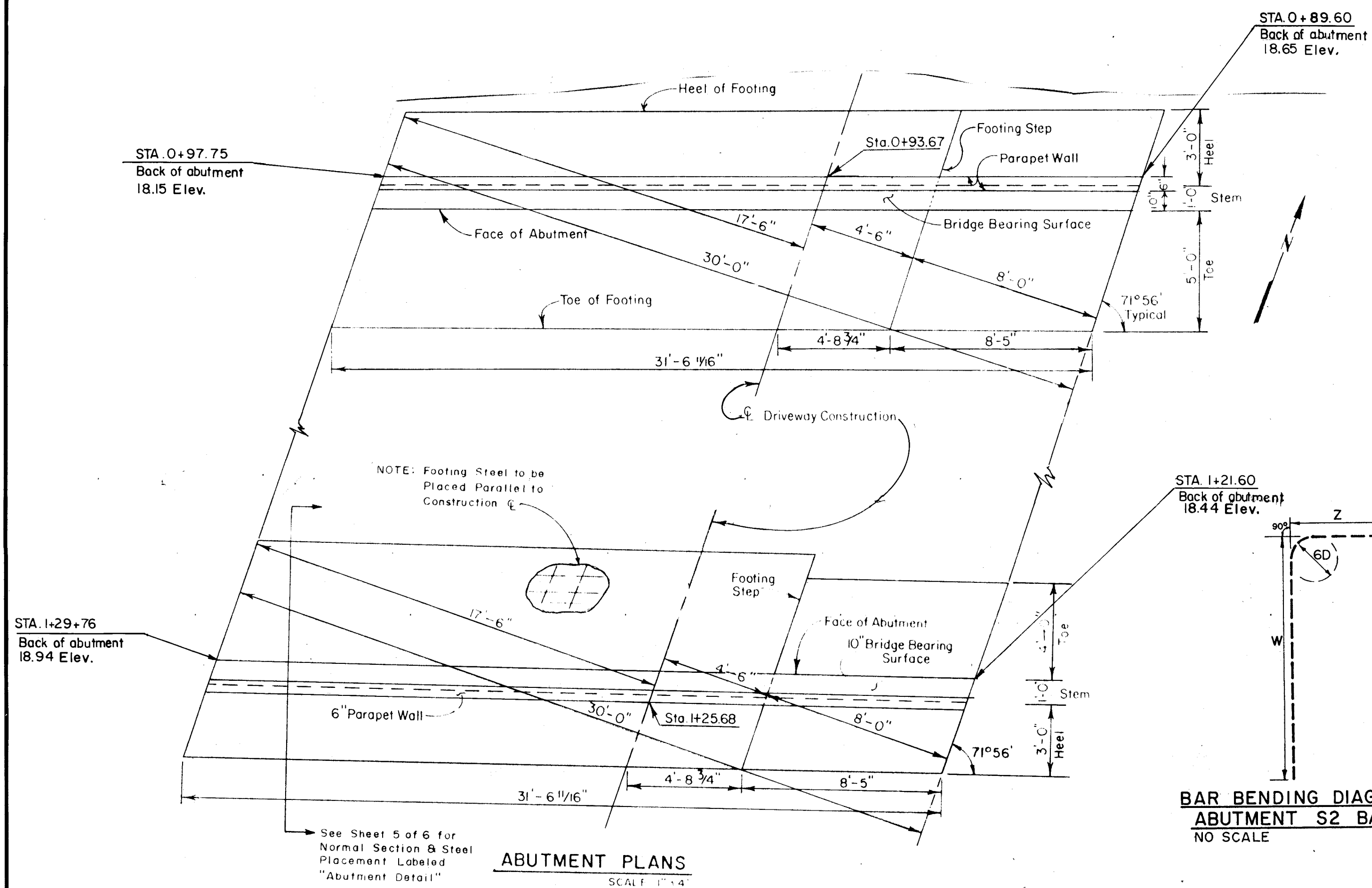


CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE KIRTLAND ADDITION FLOODWAY BRIDGE BRIDGE RAILING DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	11-26-80	Hydrologist	<i>[Signature]</i>	11-26-80
A.C.E. Design	<i>[Signature]</i>	11-26-80	Traffic	<i>[Signature]</i>	11-26-80
A.C.E. Hydrology	<i>[Signature]</i>	11-26-80	Water	<i>[Signature]</i>	11-26-80
DESIGNED BY G.D.G.			DATE 11-80		
DRAWN BY R.R.			DATE 11-80		
CHECKED BY R.M.			DATE 11-80		
DRAWING NO. 1411			SHEET 6 OF 8		

06 1141 10680

GARDNER, MASON & ASSOCIATES, INC.
ALBUQUERQUE, NEW MEXICO

REVISIONS				REFERENCES			SURVEY INFORMATION			BENCH MARKS		AS-BUILT INFORMATION	
DATE	BY	REMARKS	DESIGN	MAP NO.	EST. NO.	W.O. NO.	NO.	DATE	FIELD NOTES	CONTRACTOR	WORK		
5/15/81				G.G.			2	12-79	GUARDANT OF INTERSECTION OF SAN JOSE AVE. & UNIVERSITY BLVD. SE. AC5 BRASS TABLET IN SPILLWAY APPROX. ELEVATION = 5179.00	Accepted By M. NASHAWAT Date 11/82 Corrected By F. BELSOL Date 11/82			
										Recorded By	DATE		
										No.			



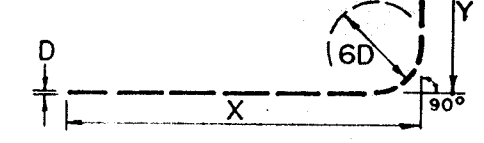
REINFORCING SCHEDULE ABUTMENTS						
TYPE	SIZE	SPACING	NUMBER	LENGTH	COMMENTS	
F	#8	7 5/8"	94	72'-9 1/2" 5/16"	Bend up into stem @ 8" C.C. W 2'-6" Lap	X=5'-10 13/16" Y=3'-5"
F1	#4	16"	54	26'-8'-2" 28'-22'-10 5/8"	*1st. 12 bars S.E. sections In 8' stepped sections In 22' sections	X=4'-10 3/16" Y=3'-5"
F2	#5	12"	60	52'-9'-2 1/2" 8'-8'-2 1/2"	*1st. 8 bars S.E. section	
F3	#4	11 3/8"	64	6'-1 3/8"	Bend up into stem @ 12" C.C. W 18" Lap	X=3'-9 5/8" Y=2'-5"
S	#6	8"	94	12'-4'-1 8/8" 35'-6'-3 4/4" 12'-4'-6 3/4" 35'-4'-9 3/4"	S.E. 8" S.W. 22" N.E. 8" N.W. 22" Lap with F bars	
S1	#4	16"	18	16'-31'-3 5/8" 2-22'-10 5/8"	S.W. 22"	
S2	#4	12"	64	9'-5'-3/8" 23'-7'-1" 9'-5'-7" 23'-5'-10"	S.E. 8" W=4'-0 5/8" Z=1'-1" S.W. 22" W=6'-1 1/4" N.E. 8" W=4'-7 1/4" N.W. 22" W=4'-10 1/4" Bend Horiz. @ Bearing surface & lap w/F3 bars. Length of lap varies.	
S3	#4	12"	64	4'-8 3/4"	45° Bend up into parapet wall	
S4	#4	16"	6	31'-5 5/8"		

BAR BENDING DIAGRAM
ABUTMENT S3 BARS
NO SCALE

REINFORCING SCHEDULE WING WALL D						
SECTION	TYPE	SIZE	SPACING	NUMBER	LENGTH	COMMENTS
SECTION A	F	#6	12"	5	5'-10 5/8"	Bends up into wall (2' Lap)
	F1	#4	-	1	4'-8 1 2"	
	F2	#4	12"	5	5'-3"	
	F3	#4	31 1 4"	3	4'-8 1 2"	
	S	#4	12"	5	6'-6 1 2"	
	S1	#4	16"	*10	4'-5'-1 1 2" 6'-9'-3"	*5 ea. face. Bottom 4 bars Top 6 bars
SECTION B	S2	#4	18"	4	6'-10 1 2"	
	F S	#4	12"	5	6'-5 3/4"	Bends up into wall
	F1	#4	-	1	5'-5 1 2"	Extends 12" into Section A
	F2	#4	18"	3	3'-9"	
	F3	#4	22 1 4"	3	4'-4"	
	S1	#4	12"	5	5'-5 1 2"	Extends 12" into Section A
SECTION C	F S	#4	16"	8	4'-2'-10 3/4" 4'-3'-2 9/16"	1st 4 from Abutment end, Bend up into wall. 1st 4 from Abutment end, Bend up into wall.
	F1	#4	-	1	10'-9 1 2"	Extends 12" into Section B
	F2	#4	16"	8	1'-11"	
	F3	#4	22 1 2"	2	9'-8"	
	S1	#4	16"	2	10'-9 1 2"	Extends 12" into Section B

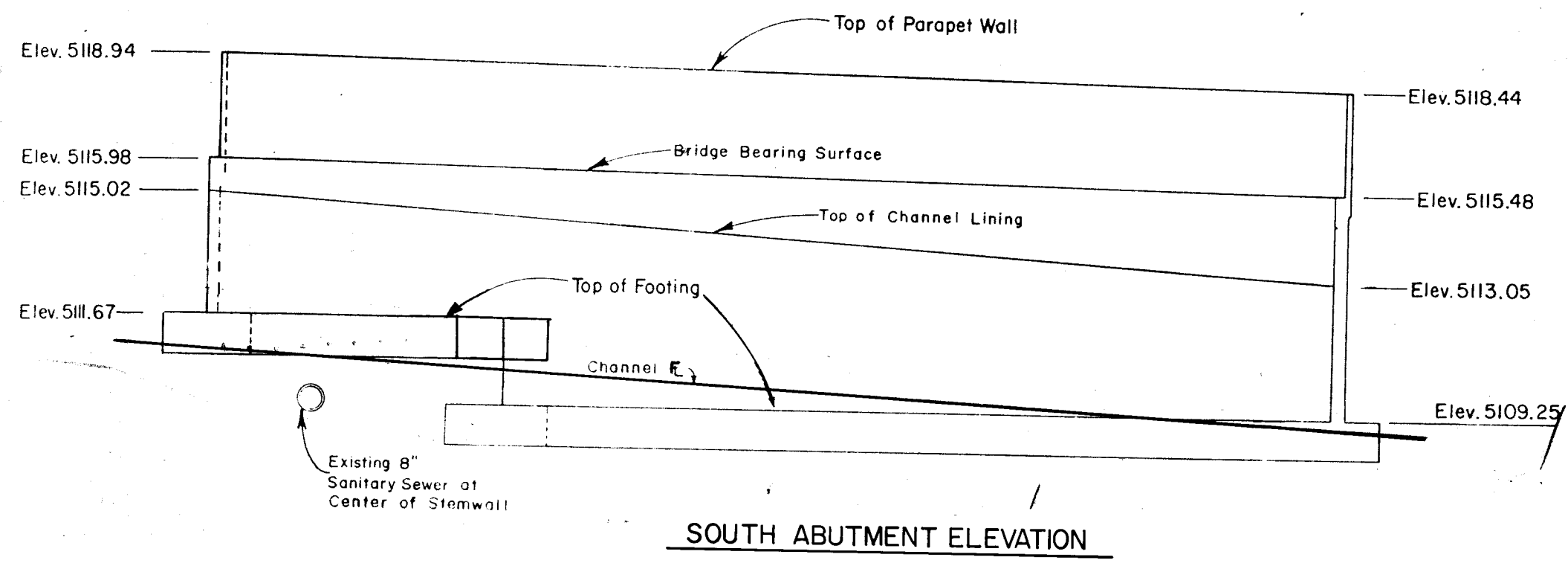
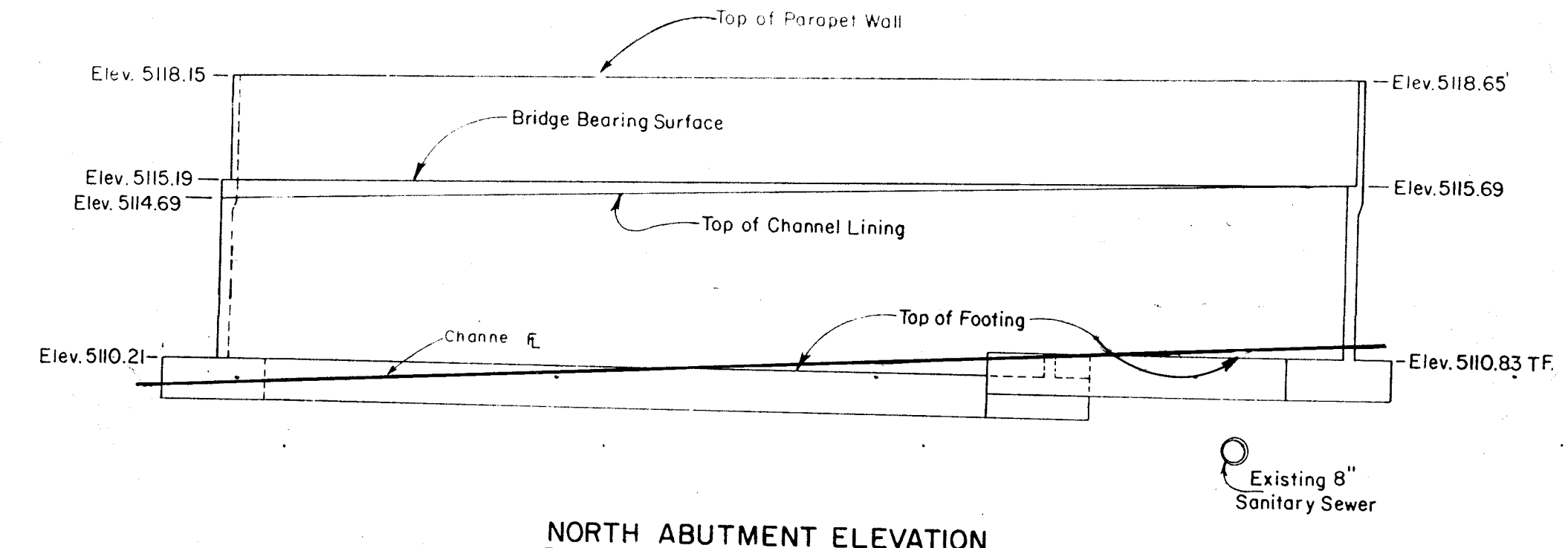
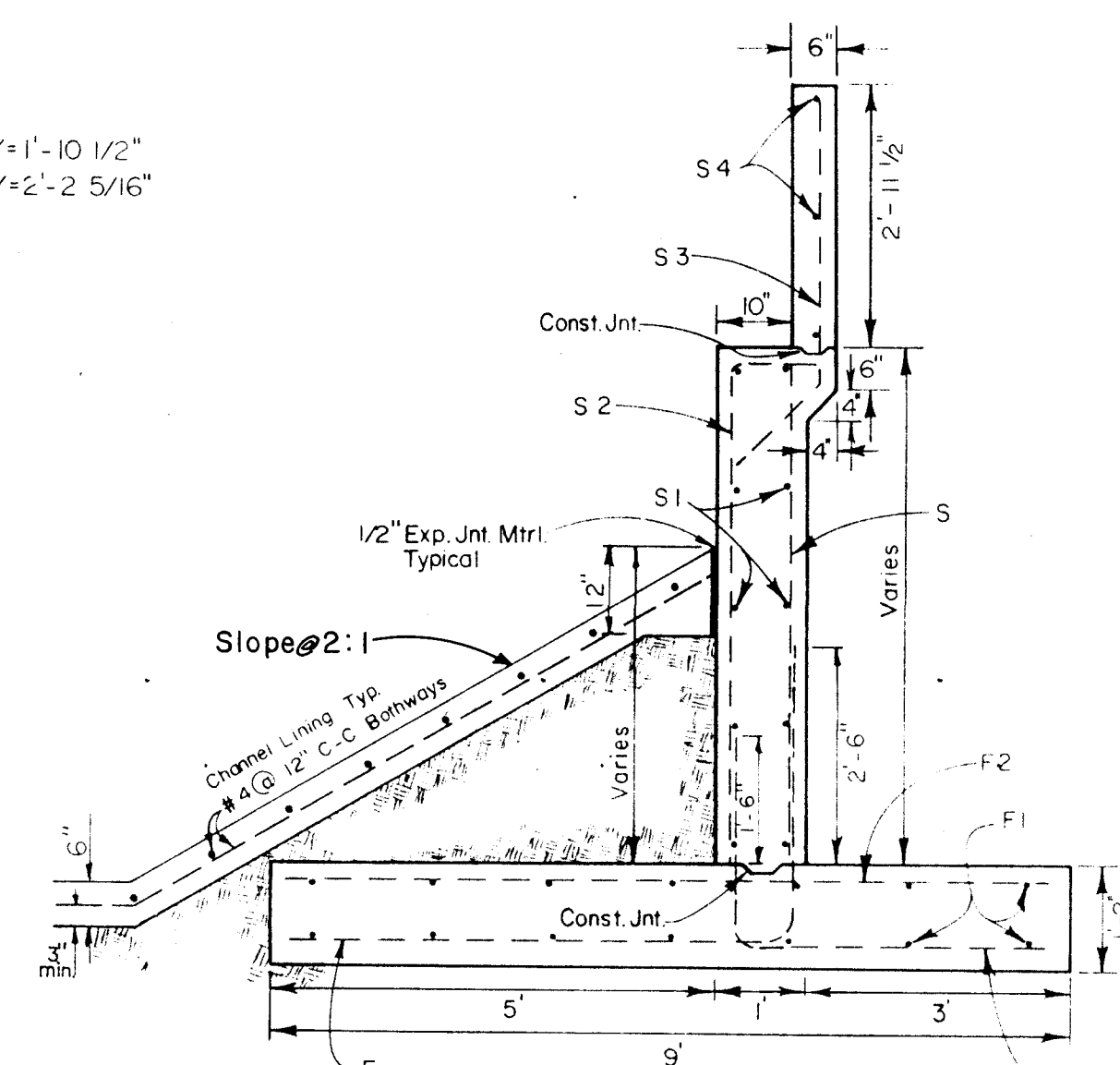
REINFORCING SCHEDULE WING WALL C						
SECTION	TYPE	SIZE	SPACING	NUMBER	LENGTH	COMMENTS
SECTION D	F	#5	12"	11	4'-6 15/16"	Bends up into wall w/ 16" lap
	F1	#4	-	1	10'-3"	
	F2	#4	18"	8	4'-3"	
	F3	#4	25"	3	10'-9"	
	S	#4	12"	11	5'-10 1 2"	
	S1	#4	12"	*6	2'-10'-3" 4'-21'-3"	4 top bars continuous with 4' section
SECTION E	F S	#4	12"	11	6'-0 5/16"	Bends up into wall
	F1	#4	-	1	10'-10 1 2"	
	F2	#4	18"	8	2'-9"	
	F3	#4	33"	2	10'-10 1 2"	
	S1				See S1 above	

REINFORCING SCHEDULE WING WALLS A&B						
WALL	TYPE	SIZE	SPACING	NUMBER	LENGTH	COMMENTS
WALL A	F/S	#4	16"	5	4'-9 1/2"	Bends up into wall
	F1	#4	-	1	5'-5"	
	F2	#4	16"	5	4'-2'-3" 1'-1'-6"	
	F3	#4	26"	2	1'-5'-5" 1'-4'-6"	
	S1	#4	16"	3	5'-5"	
WALL B	F/S	#4	12"	13	6'-6 1/8"	Bends up into wall
	F1	#4	-	1	12'-6 1/2"	
	F2	#4	18"	9	3'-3"	
	F3	#4	39"	2	12'-6 1/2"	
	S1	#4	12"	5	12'-6 1/2"	



BAR BENDING DIAGRAM
F, F3, & F/S BARS
NO SCALE
*So noted where footing steel bends up continuous w/wall steel.

ABUTMENT DETAIL - NORMAL SECTION
SCALE: 1" = 2'



Signature of Gilbert D. Cardenas

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE KIRTLAND ADDITION FLOODWAY BRIDGE ABUTMENT DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	11/80	Liquid Waste	<i>[Signature]</i>	11/80
A.C.E. Design	<i>[Signature]</i>	11/80	Traffic	<i>[Signature]</i>	11/80
A.C.E. Hydrology	<i>[Signature]</i>	11/80	Water	<i>[Signature]</i>	11/80
DRAWING NO. 1411			SHEET 8 OF 8		