

CONSTRUCTION PLAN FOR BRIDGE DECK REPAIR

BRIDGE NO. 02501

C.S.A.H. 24 OVER RUM RIVER AT ST. FRANCIS.

BRIDGE NO. 02521

C.S.A.H. 3 (COON RAPIDS BLVD. BY-PASS) OVER BURLINGTON NORTHERN P.R. IN COON RAPIDS.

BRIDGE NO. 02522

C.S.A.H. 3 (COON RAPIDS BLVD. BY-PASS) OVER EAST RIVER ROAD N.B. (C.S.A.H. 1) IN COON RAPIDS.

BRIDGE NO. 02523

C.S.A.H. 2 OVER YARD TRACKS AT NORTH TOWN.

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3	BR. NO. 02521 GENERAL PLAN # ELEV.
4	BR. NO. 02522 GENERAL PLAN # ELEV.
5	BR. NO. 02523 GENERAL PLAN # ELEV.
6	RECONSTRUCT EXP. JTS. TYPE 1
7	RECONSTRUCT EXP. JTS. TYPE 2
8	APPROACH OVERLAY # TAPER DETAILS
8	RECONSTRUCT EXP. JTS. TYPE 3
9	DRAIN DETAILS
9	WATERPROOF EXPANSION DEVICE
10	TRAFFIC CONTROL DETAILS

SCHEDULE OF QUANTITIES

ITEM NO.	ITEM	UNIT	BRIDGE NO.				TOTAL
			02501	02521	02522	02523	
2021.501	MOBILIZATION	LUMP SUM	1				1
2101.501	CONCRETE, MIX NO. SPECIAL	CU. YD.	83	162	157	376	778
0101.604	WEARING COURSE FINISH	SQ. FT.	11720 (P)	22800 (P)	21780 (P)	53834 (P)	110134 (P)
2102.591	EXPANSION JT. DEVICES TYPE 2.5'	LIN. FT.	60			88	148 (P)
2133.505	REMOVE SLAB TYPE 1	SQ. FT.	300	150	150	400	1000
0433.601	SCARIFY BRIDGE DECK	SQ. FT.	11720 (P)	22800 (P)	21780 (P)	53834 (P)	110134 (P)
0433.601	SCARIFY BITUM. APPROACH	SQ. FT.	1750	7200	7250	4400	20600
0433.601	RECONSTRUCT EXP. JT. TYPE 1	LIN. FT.	60			88	148 (P)
0433.601	RECONSTRUCT EXP. JT. TYPE 2	LIN. FT.		173	266		439 (P)
0433.601	RECONSTRUCT EXP. JT. TYPE 3	LIN. FT.				88	88 (P)
2361.504	ASPHALT CEMENT	TON	2	9	9	6	26
2361.508	WEARING COURSE MIXTURE	TON	25	105	105	65	300
0563.604	TEMPORARY LANE MARKING	LIN. FT.				7500	7500
2102.501	PAVEMENT MARKING REMOVAL	SQ. FT.				2000	2000
0564.626	TRAFFIC CONTROLS	LUMP SUM	1				1
0563.623	TRAFFIC CONTROL	LUMP SUM	1				1

CONSTRUCTION NOTES:

THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" 1978 EDITION SHALL GOVERN.

NO REMOVAL WILL BE PERMITTED UNTIL THE REMOVAL LIMITS HAVE BEEN OUTLINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. REMOVAL AND RECONSTRUCTION SHALL CONFORM TO SPEC. 2433.

PROVIDE SAW CUT IN CONCRETE WEARING COURSE OVER ALL CONSTRUCTION JOINTS IN EXISTING SLAB AND APPROACH PANELS. SEAL WITH CONCRETE JOINT SEALER PER SPEC. 3123.

THE CONTRACTOR SHALL MAKE FIELD MEASUREMENTS AS NECESSARY, PRIOR TO FABRICATION OF THE EXPANSION JOINT DEVICES AND CURB OR RAIL PLATES, TO ASSURE PROPER FIT IN THE FINAL WORK.

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
COUNTY ENGINEER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
*Robert R. Linn*  
DATE 4.5.17 REG. NO. 4311 ENGINEER

PLANS PREPARED BY  
ERICKSON ENGINEERING CO.  
3340 REPUBLIC AVE.  
ST. LOUIS PARK, MINNESOTA 55426

TITLE SHEET	DES: _____	DR: R.H.	APPROVED: _____	BRIDGE NO. 02501
	CHK: _____	CHK: _____		02521
	SHEET NO. 1 OF 10 SHEETS			02522
				02523

CONSTRUCTION PLAN FOR BRIDGE DECK REPAIR

BRIDGE NO. 02501  
C.S.A.H. 24 OVER RUM RIVER AT  
ST. FRANCIS.

BRIDGE NO. 02521 C.S.A.H. 3 (COON RAPIDS BLVD. BY-PASS) OVER BURLINGTON NORTHERN R.F. IN COON RAPIDS.
BRIDGE NO. 02522 C.S.A.H. 3 (COON RAPIDS BLVD. BY-PASS) OVER EAST RIVER ROAD N.B. (C.S.A.H. 1) IN COON RAPIDS.
BRIDGE NO. 02523 C.S.A.H. 2 OVER YARD TRACKS AT NORTHTOWN.

SHT NO.	TITLE SHEET
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2	BR. NO. 02501 GENERAL PLAN # ELEV.
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11	WATERPROOF EXPANSION DEVICE
12	TRAFFIC CONTROL DETAILS

SCHEDULE OF QUANTITIES		BRIDGE NO.					TOTAL
ITEM NO.	ITEM	UNIT	02501	02521	02522	02523	
2021.501	MOBILIZATION	LUMP SUM	1				1
2401.501	CONCRETE, MIX NO. SPECIAL	CU. YD.	83	162	157	376	778
0401.604	WEARING COURSE FINISH	SQ. FT.	11720 (P)	22800 (P)	21780 (P)	53834 (P)	110134 (P)
2402.591	EXPANSION JT. DEVICES TYPE 2.5	LIN. FT.	60			88	148 (P)
2433.505	REMOVE SLAB TYPE 1	SQ. FT.	300	150	150	400	1000
0433.601	SCARIFY BRIDGE DECK	SQ. FT.	11720 (P)	22800 (P)	21780 (P)	53834 (P)	110134 (P)
0433.601	SCARIFY BITUM. APPROACH	SQ. FT.	1750	1200	1250	4400	20600
0433.607	RECONSTRUCT EXP. JT. TYPE 1	LIN. FT.	60			88	148 (P)
0433.607	RECONSTRUCT EXP. JT. TYPE 2	LIN. FT.		173	266		439 (P)
0433.607	RECONSTRUCT EXP. JT. TYPE 3	LIN. FT.				88	88 (P)
2361.504	ASPHALT CEMENT	TON	2	9	9	6	26
2361.508	WEARING COURSE MIXTURE	TON	25	105	105	65	300
0563.604	TEMPORARY LANE MARKING	LIN. FT.				7500	7500
2102.501	PAVEMENT MARKING REMOVAL	SQ. FT.				2000	2000
0564.626	TRAFFIC CONTROLS	LUMP SUM	1				1
0563.623	TRAFFIC CONTROL	LUMP SUM	1				1

CONSTRUCTION NOTES:

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NOTE

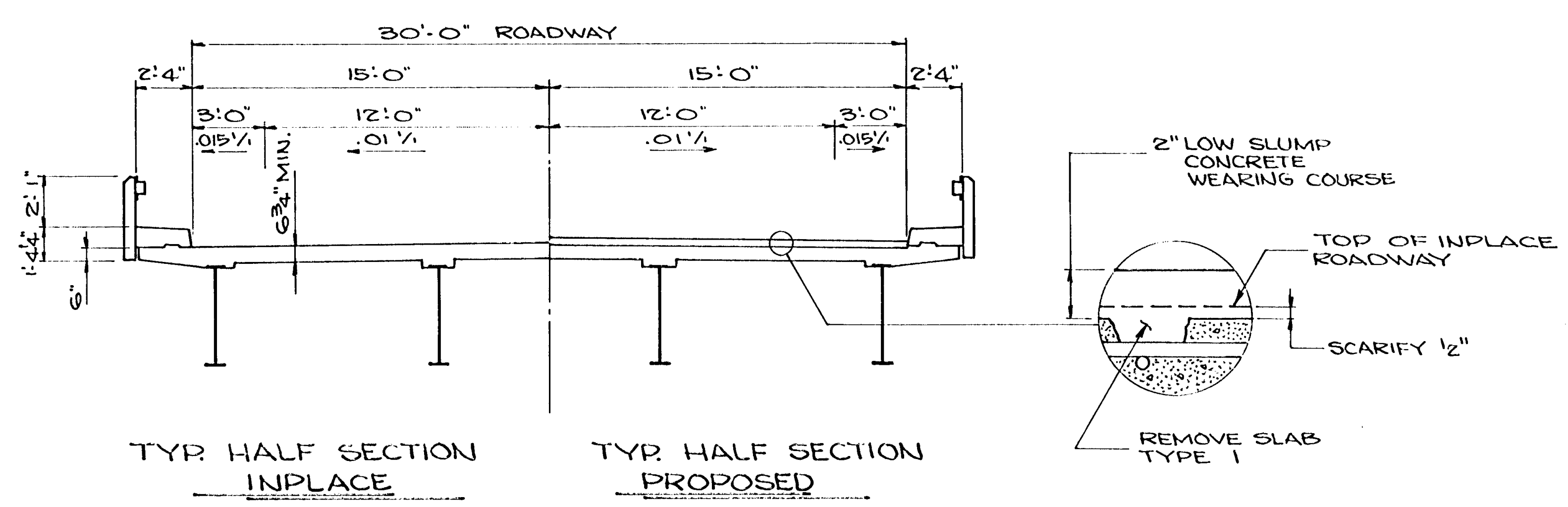
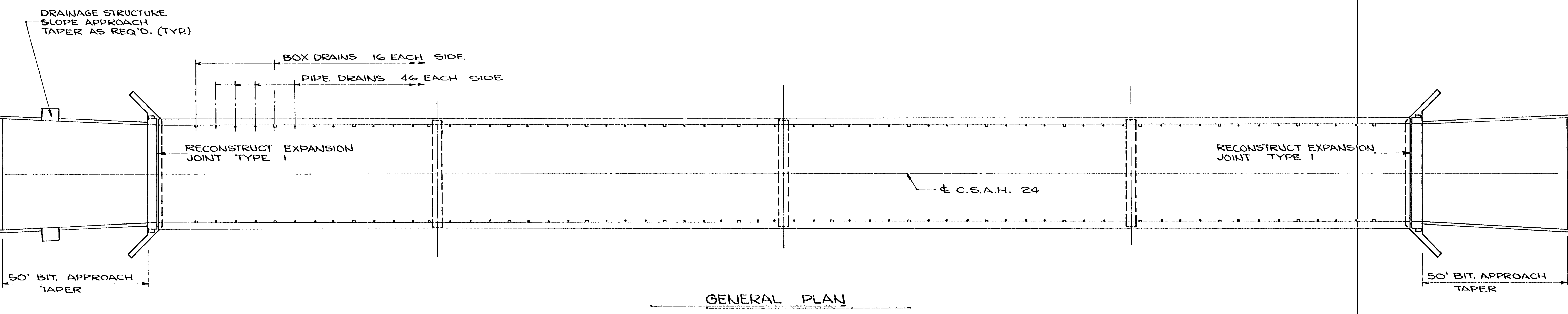
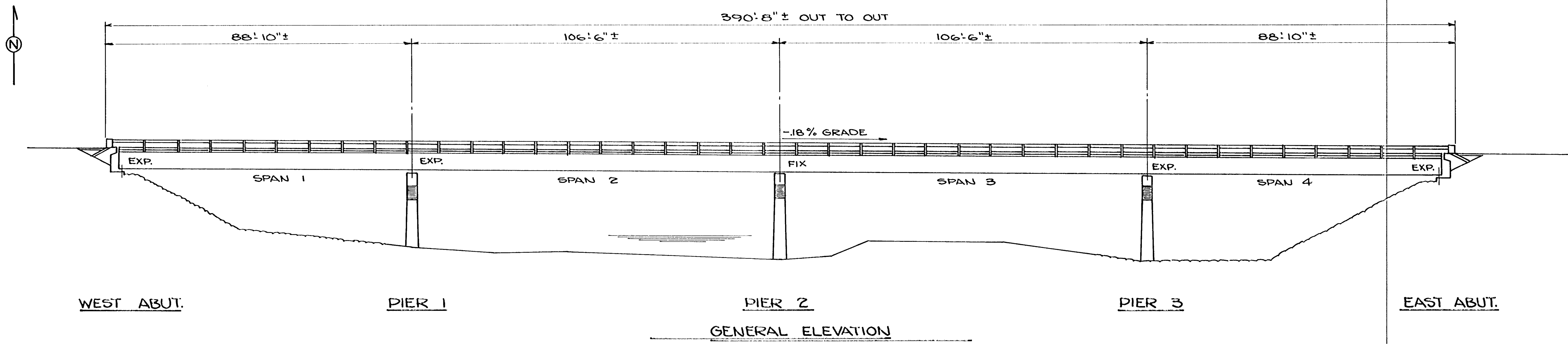
CONTRACT A IS FOR BRIDGE NO. 02501 ONLY.

APPROVED *Lawrence K. Lund* 4-13-79  
COUNTY ENGINEER DATE

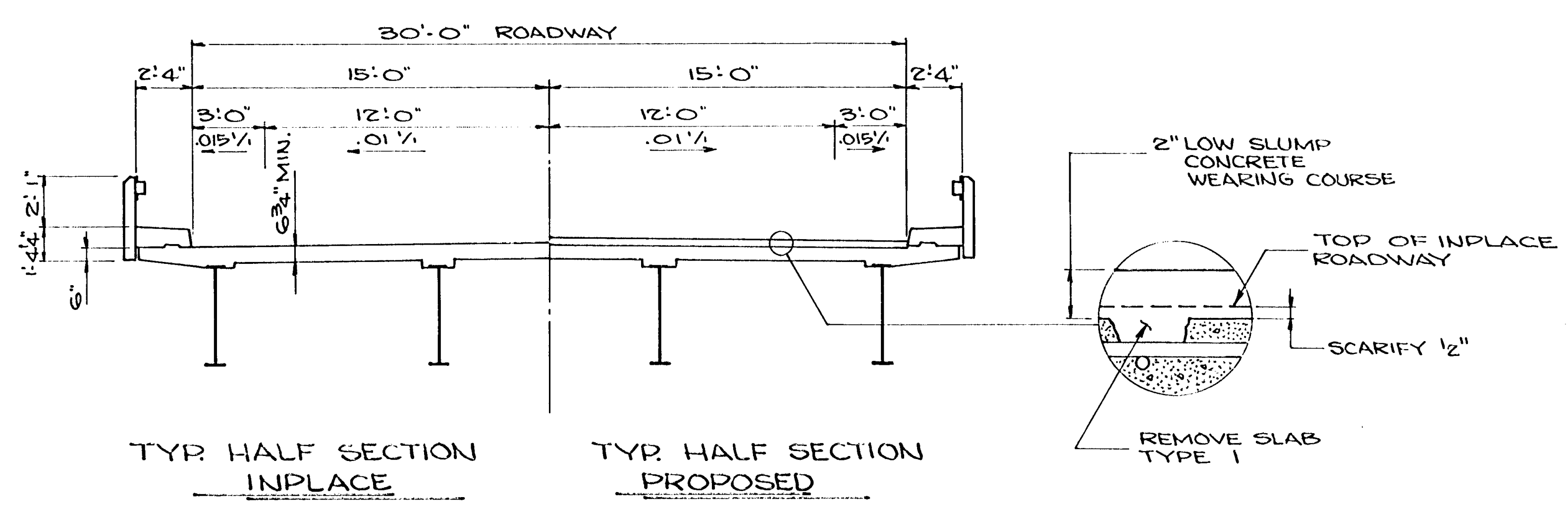
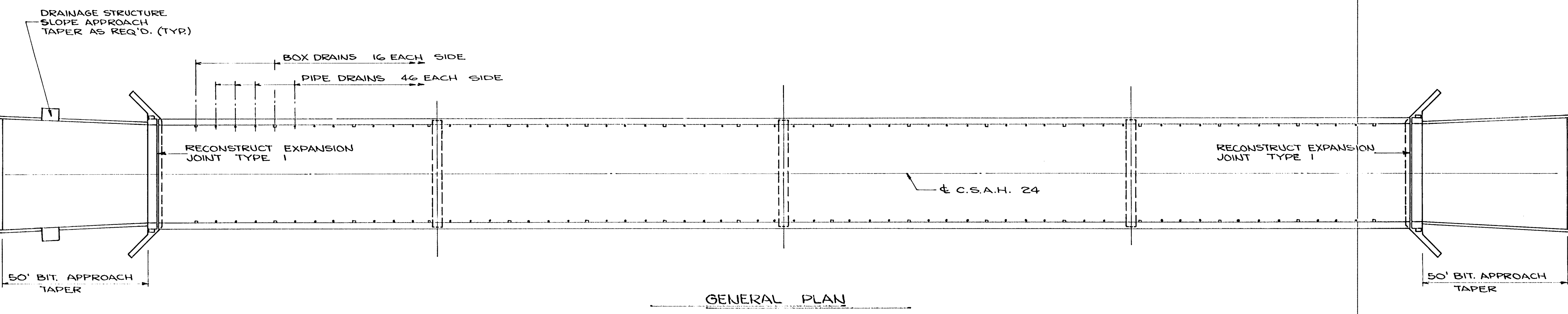
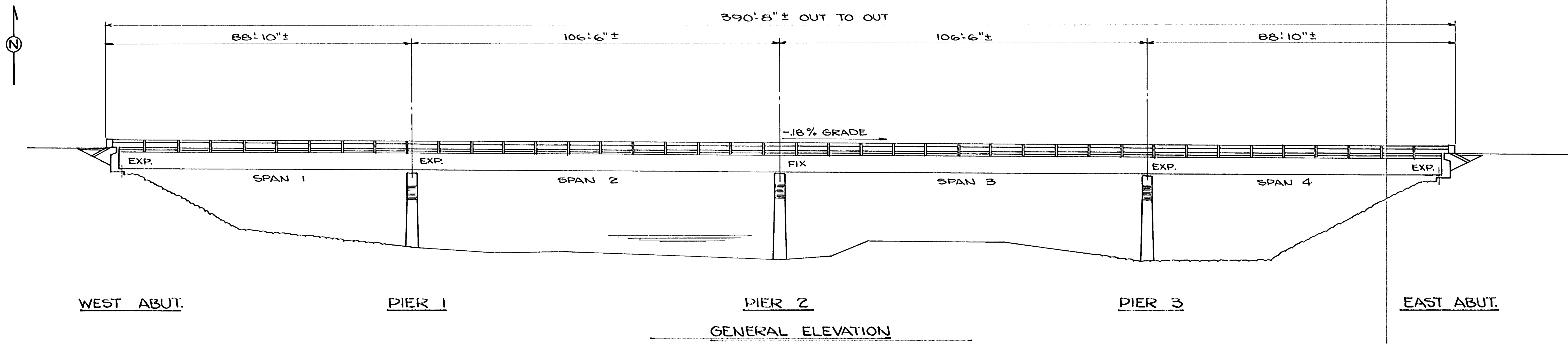
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
4-13-79 6924 *Lawrence K. Lund*  
DATE REG. NO. ENGINEER

PLANS PREPARED BY  
ERICKSON ENGINEERING CO.  
3340 REPUBLIC AVE.  
ST. LOUIS PARK, MINNESOTA 55426

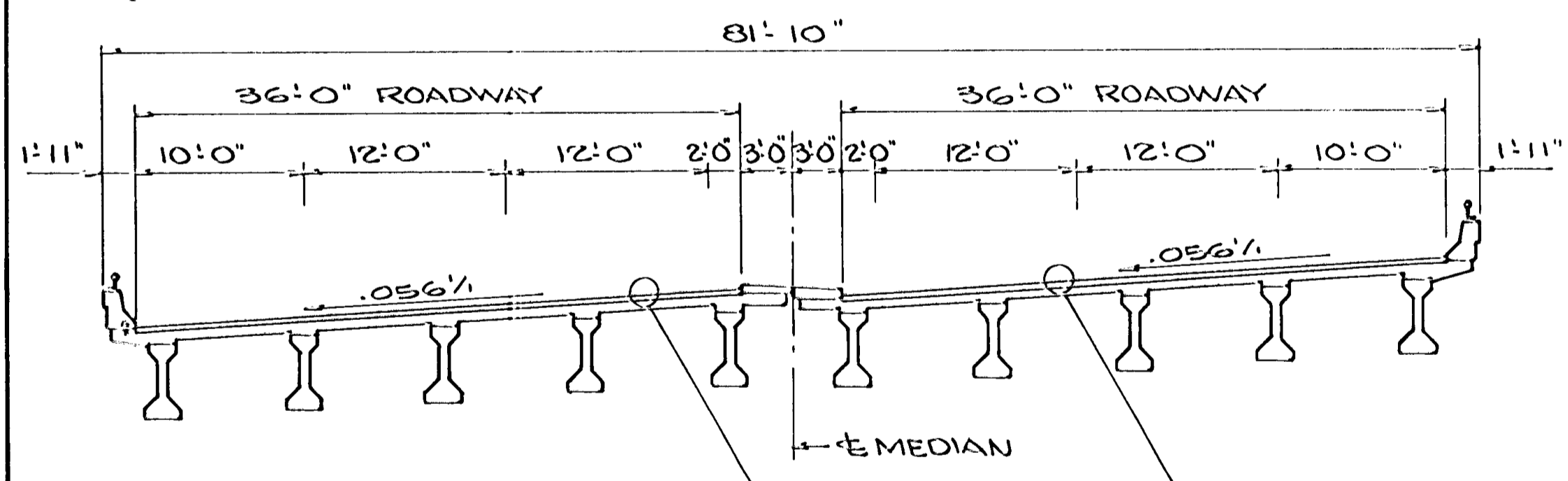
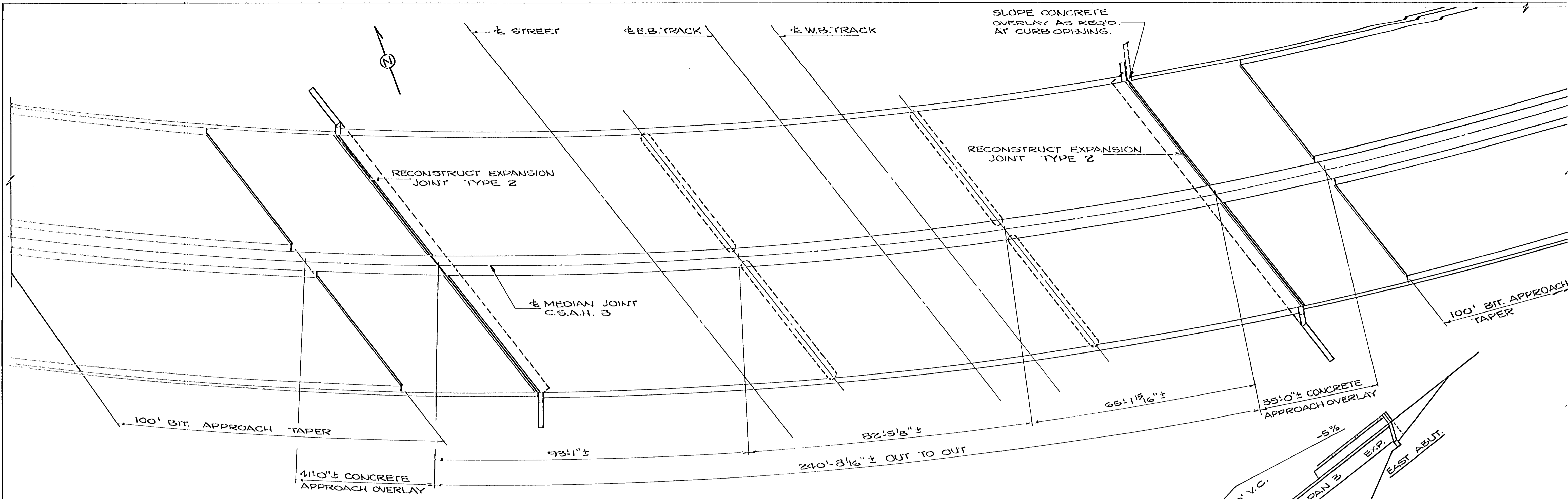
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SHEET NO. 1 of 11 SHEETS				



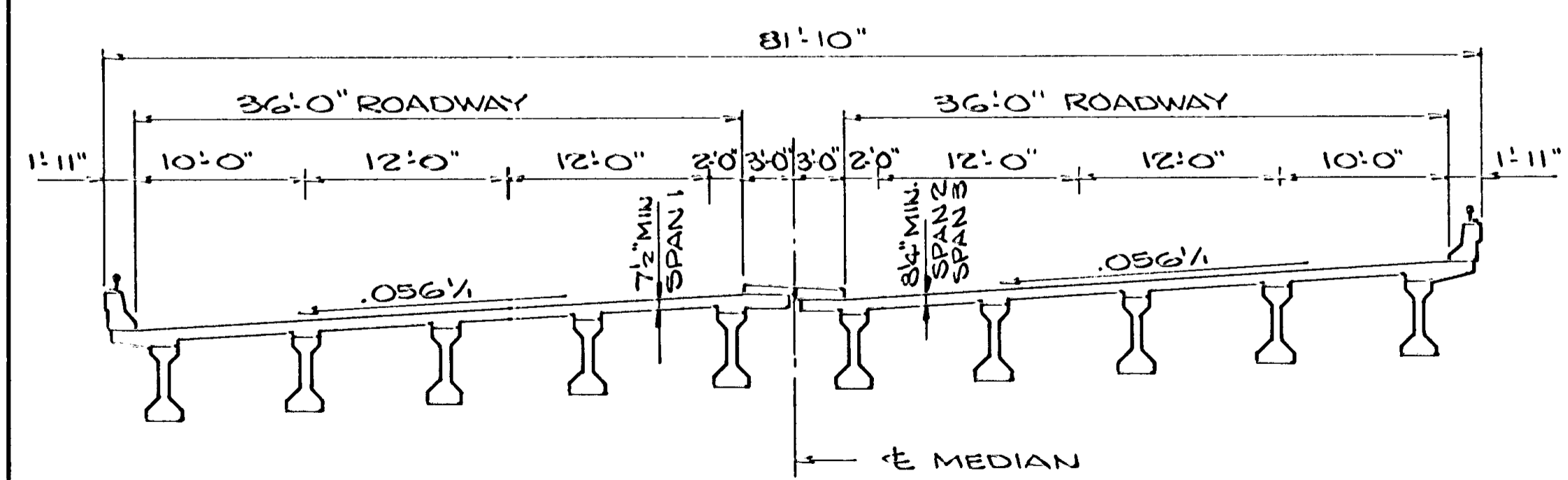
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C.S.A.H. 24 OVER RUM RIVER AT ST. FRANCIS, ST. FRANCIS TWP.		CHK:	CHK:		02501
		SHEET NO. 2 of 10 SHEETS			



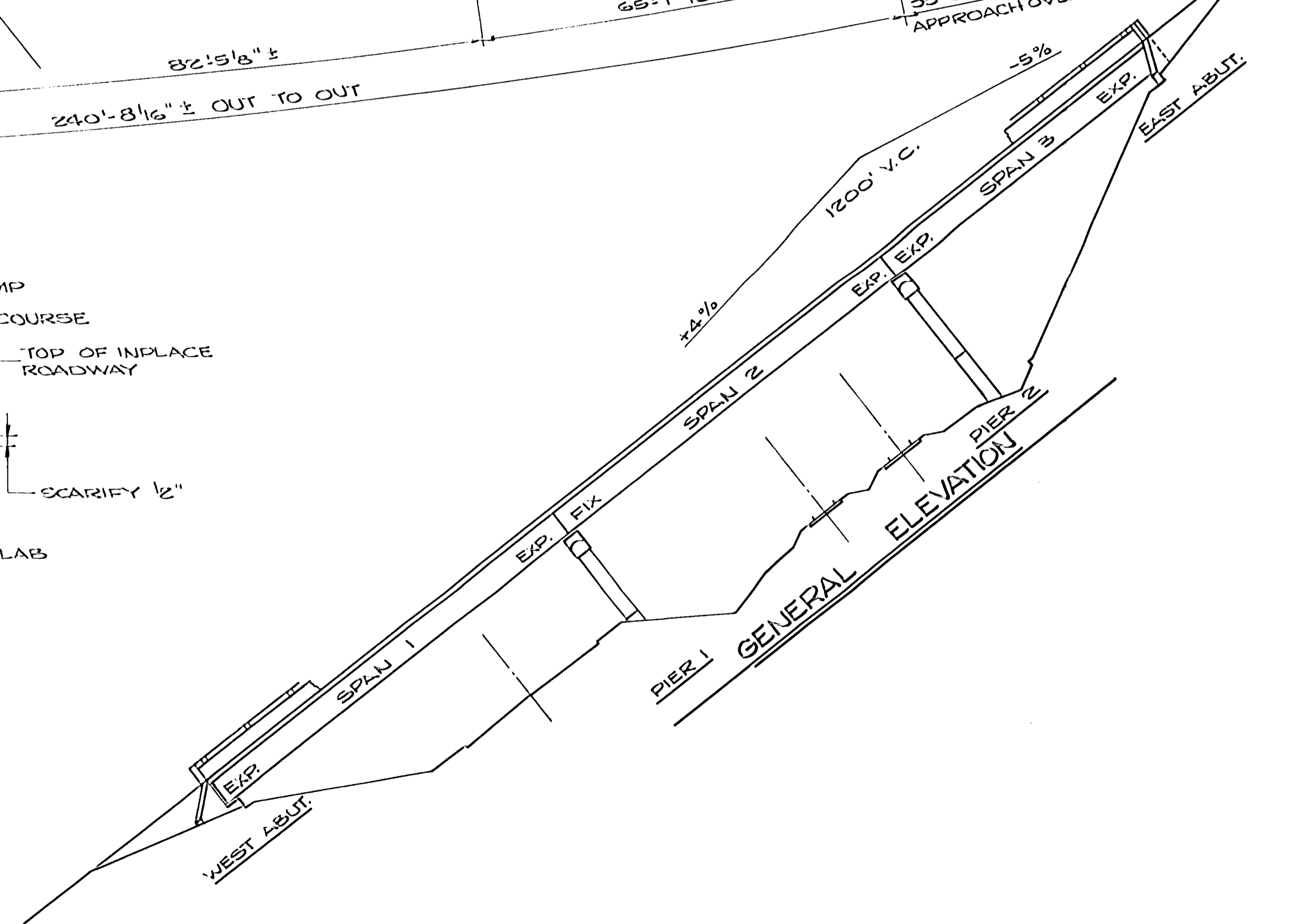
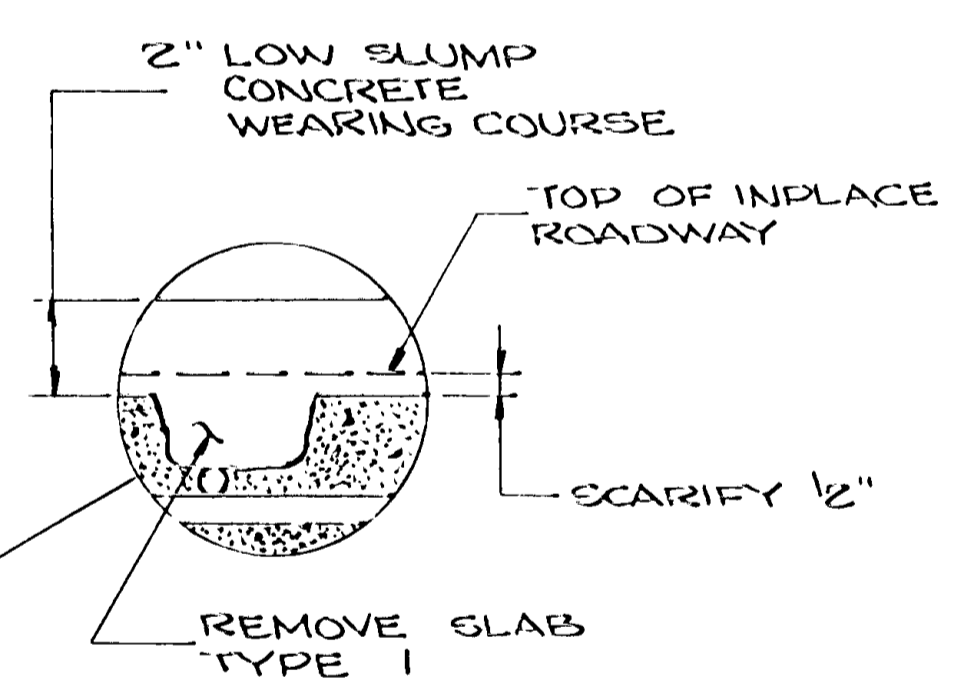
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C.S.A.H. 24 OVER RUM RIVER AT ST. FRANCIS, ST. FRANCIS TWP.		CHK:	CHK:		02501
		SHEET NO. 2 of 10 SHEETS			



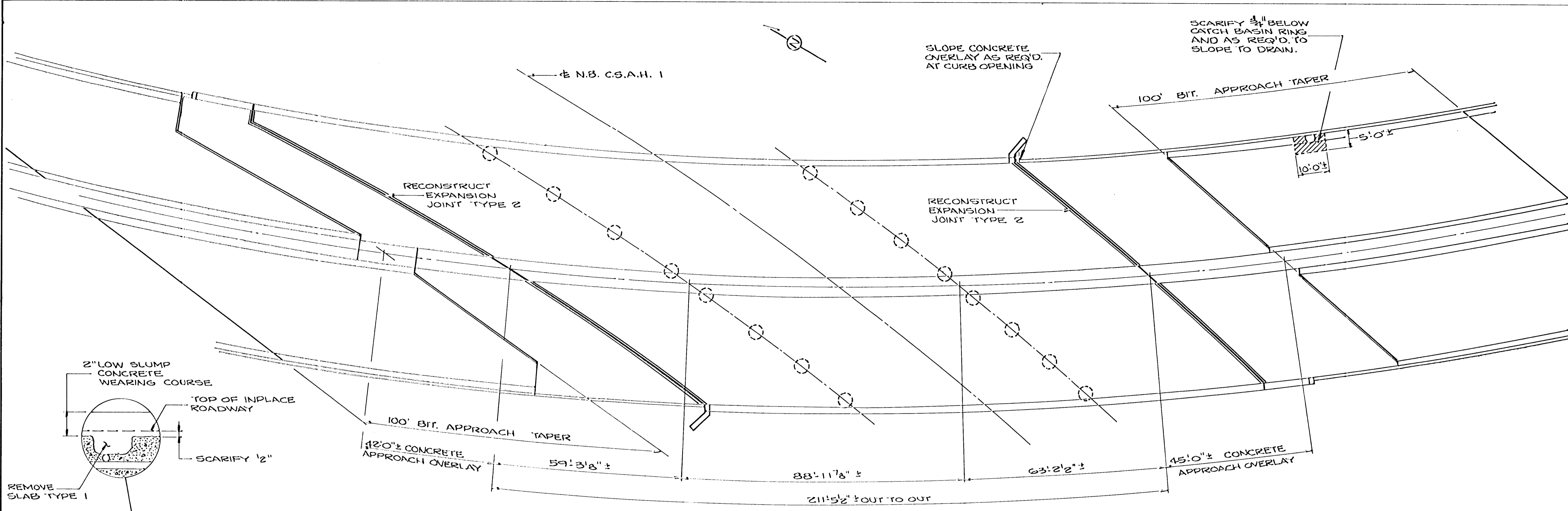
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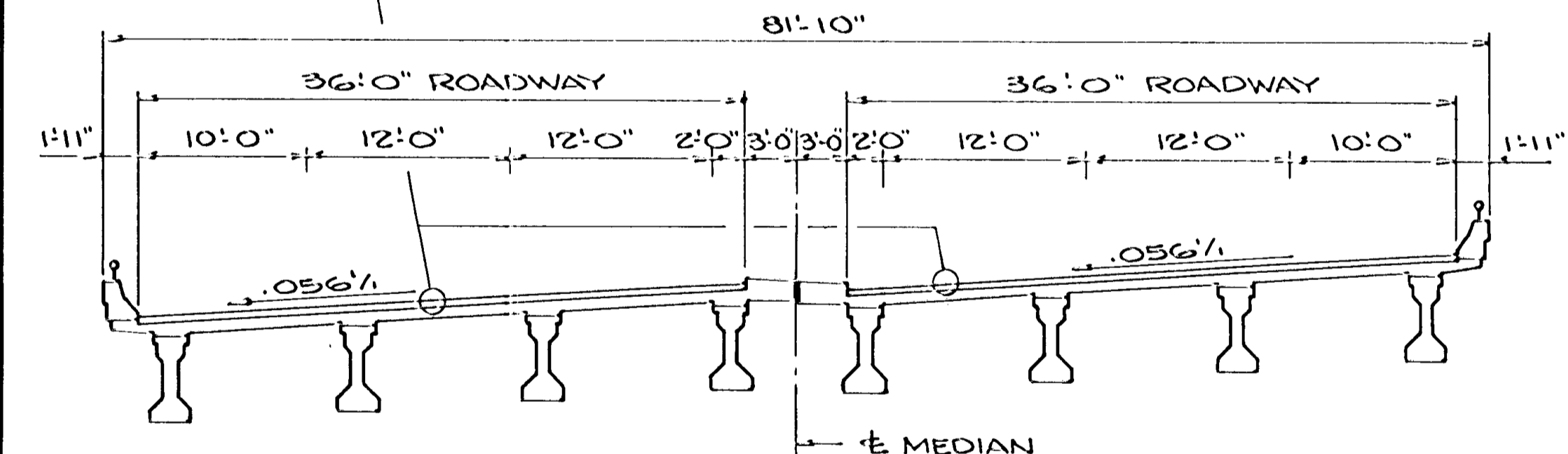
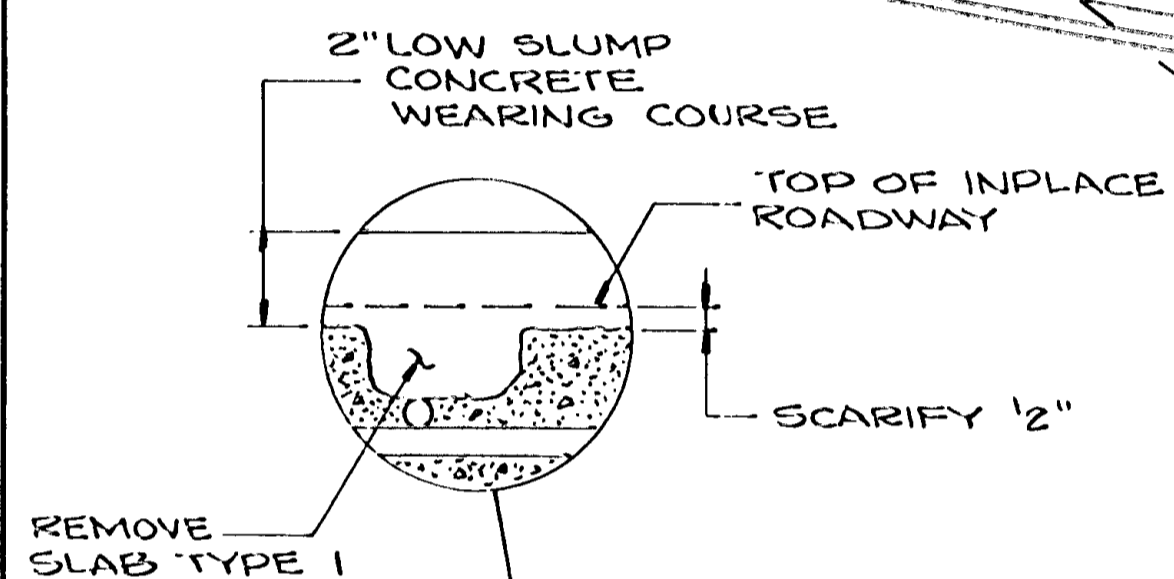
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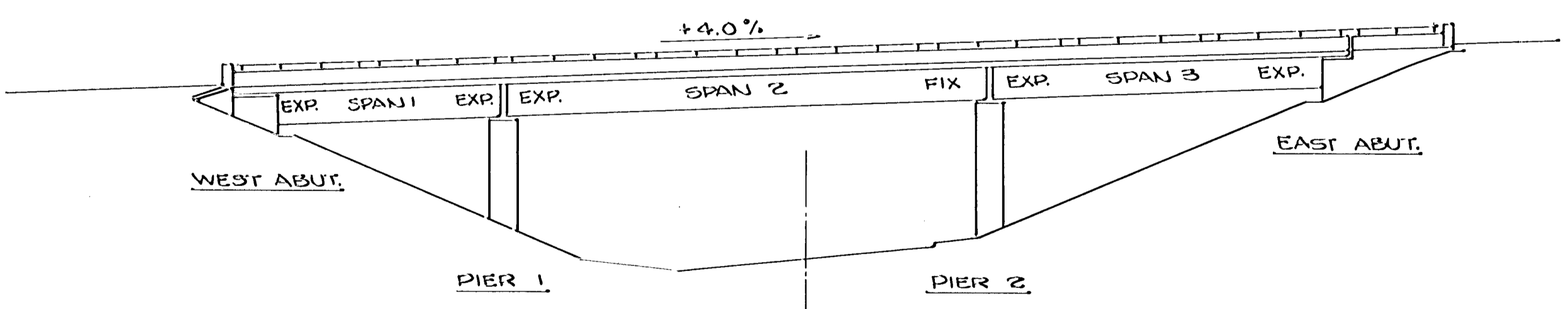
<b>GENERAL PLAN &amp; ELEVATION</b> C.S.A.H. 3 (COON RAPIDS BLVD. BY-PASS) OVER BURLINGTON NORTHERN R.R. IN COON RAPIDS		DES: _____ CHK: _____	DR: R.H. CHK: _____	APPROVED _____	BRIDGE NO. 02521
SHEET NO. 3 of 10 SHEETS					



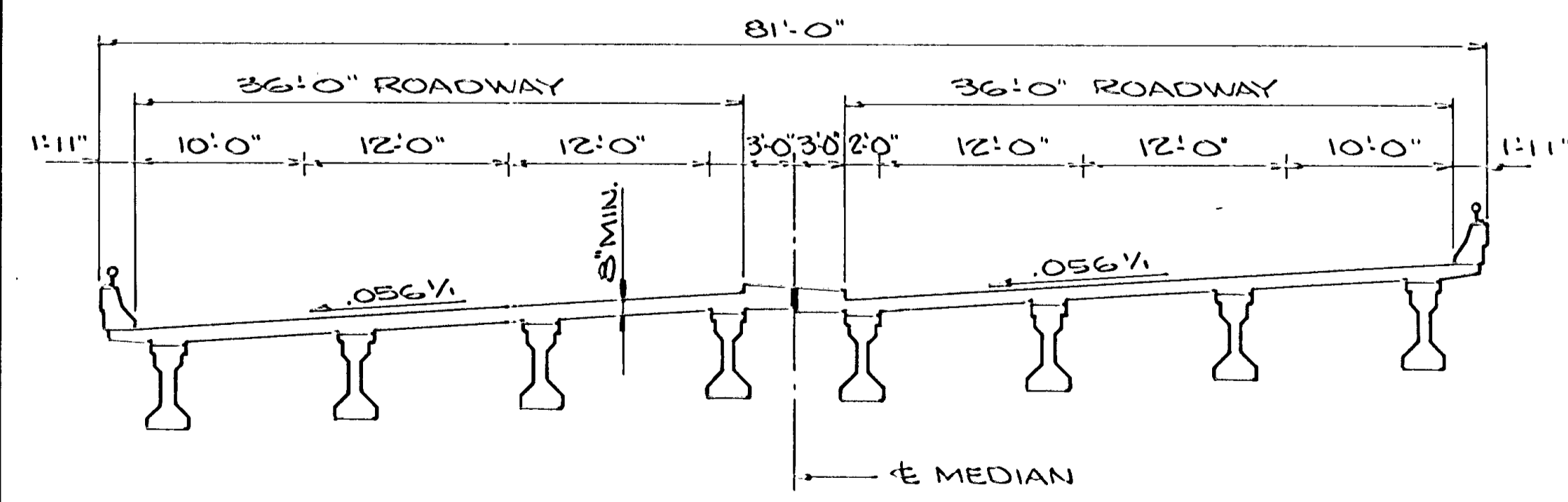
GENERAL PLAN



TYPICAL SECTION PROPOSED

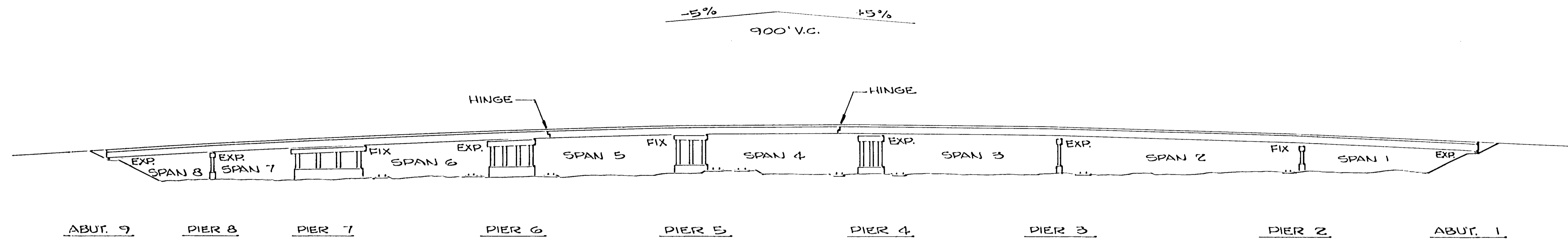


GENERAL ELEVATION

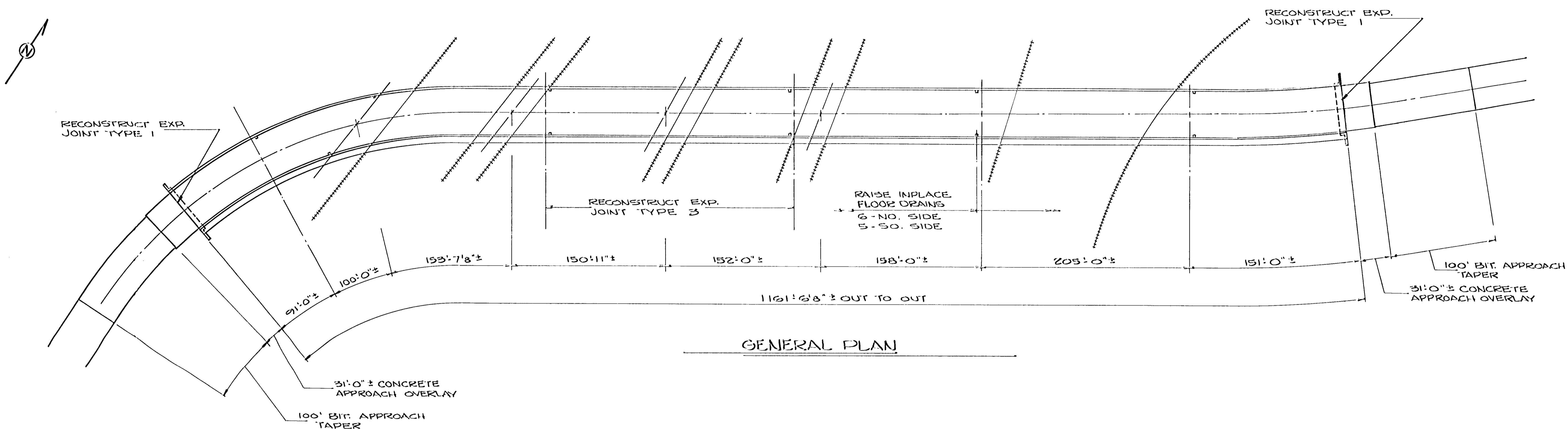


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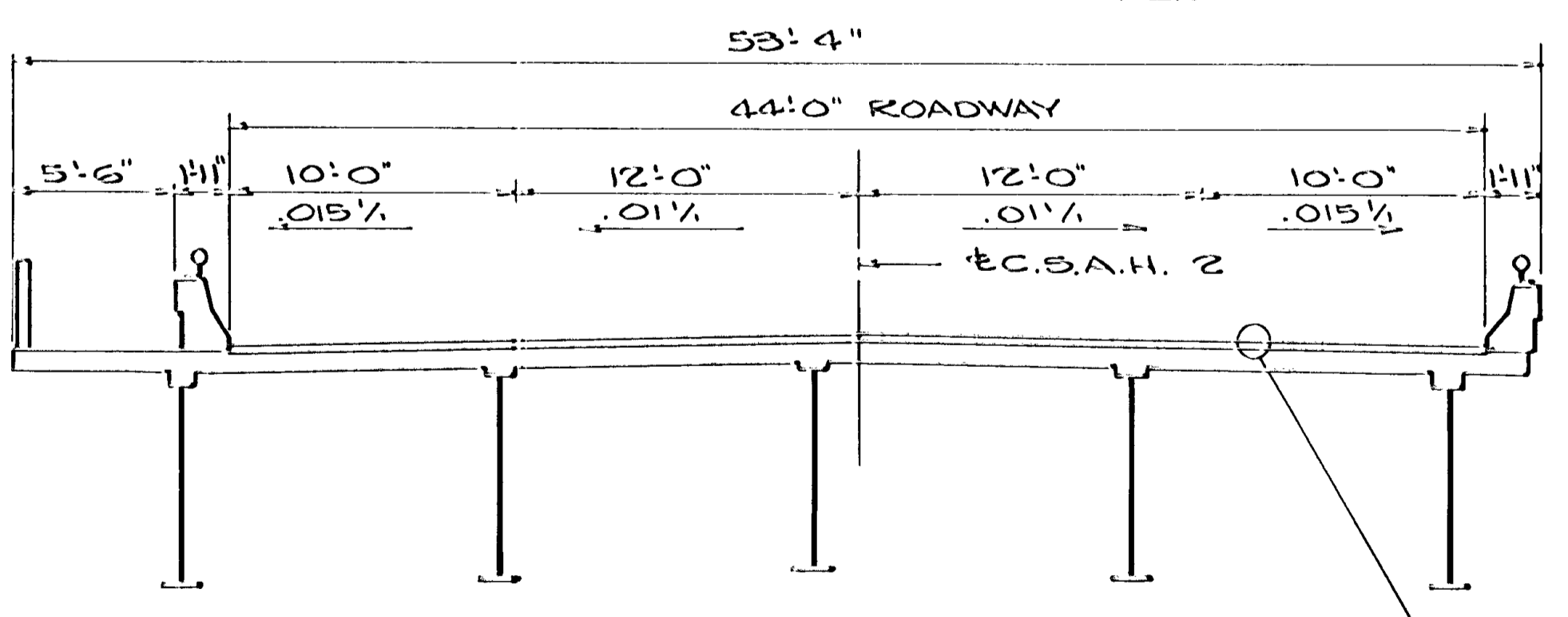
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C.S.A.H. 3 (COON RAPIDS BLVD. BY-PASS) OVER EAST RIVER RD. N.B. (C.S.A.H. 1) IN COON RAPIDS.		CHK:	CHK.		
SHEET NO. 4 of 10 SHEETS					



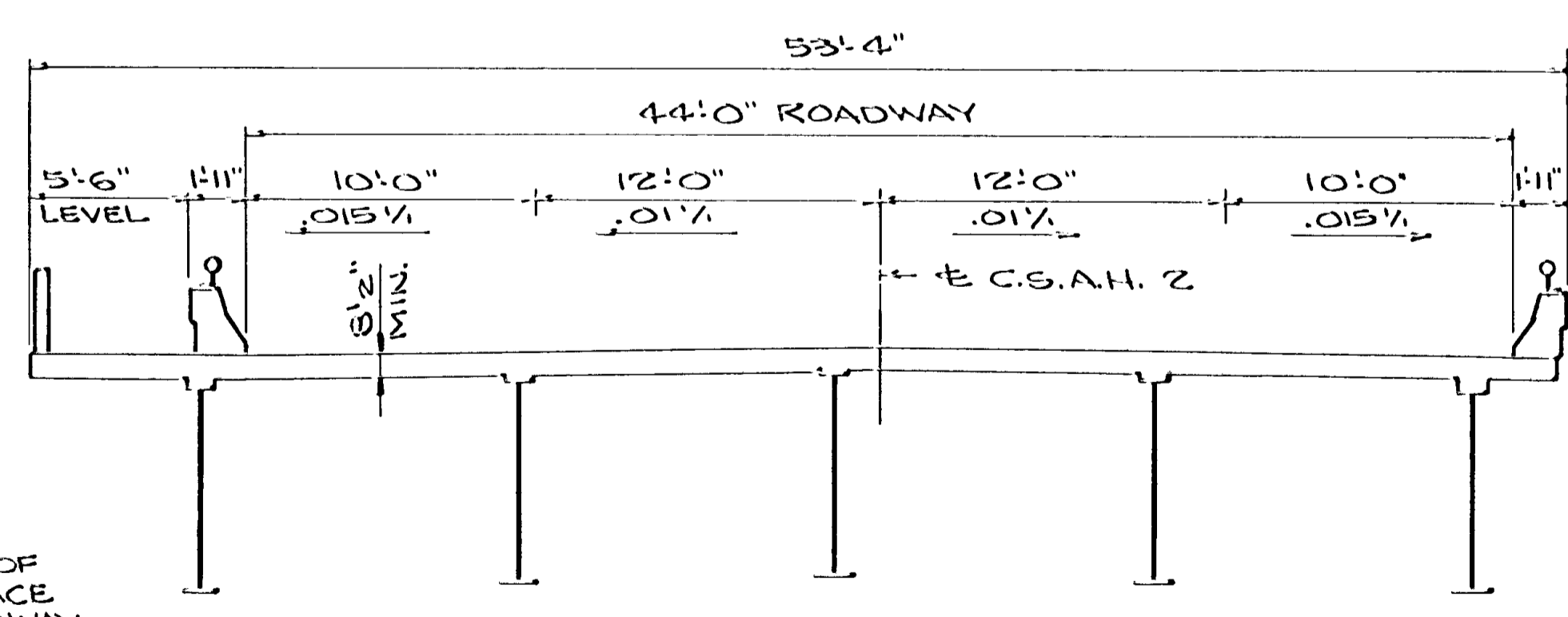
GENERAL ELEVATION



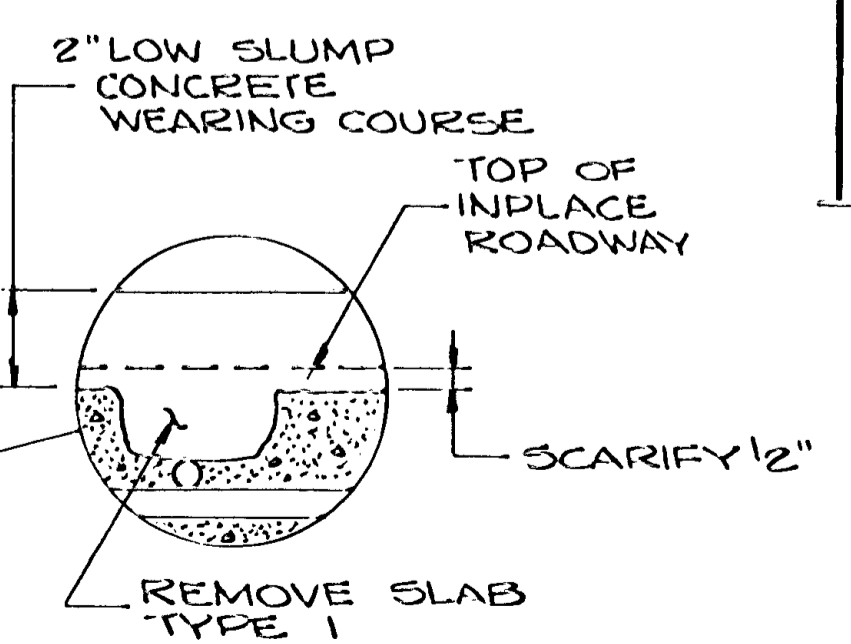
GENERAL PLAN



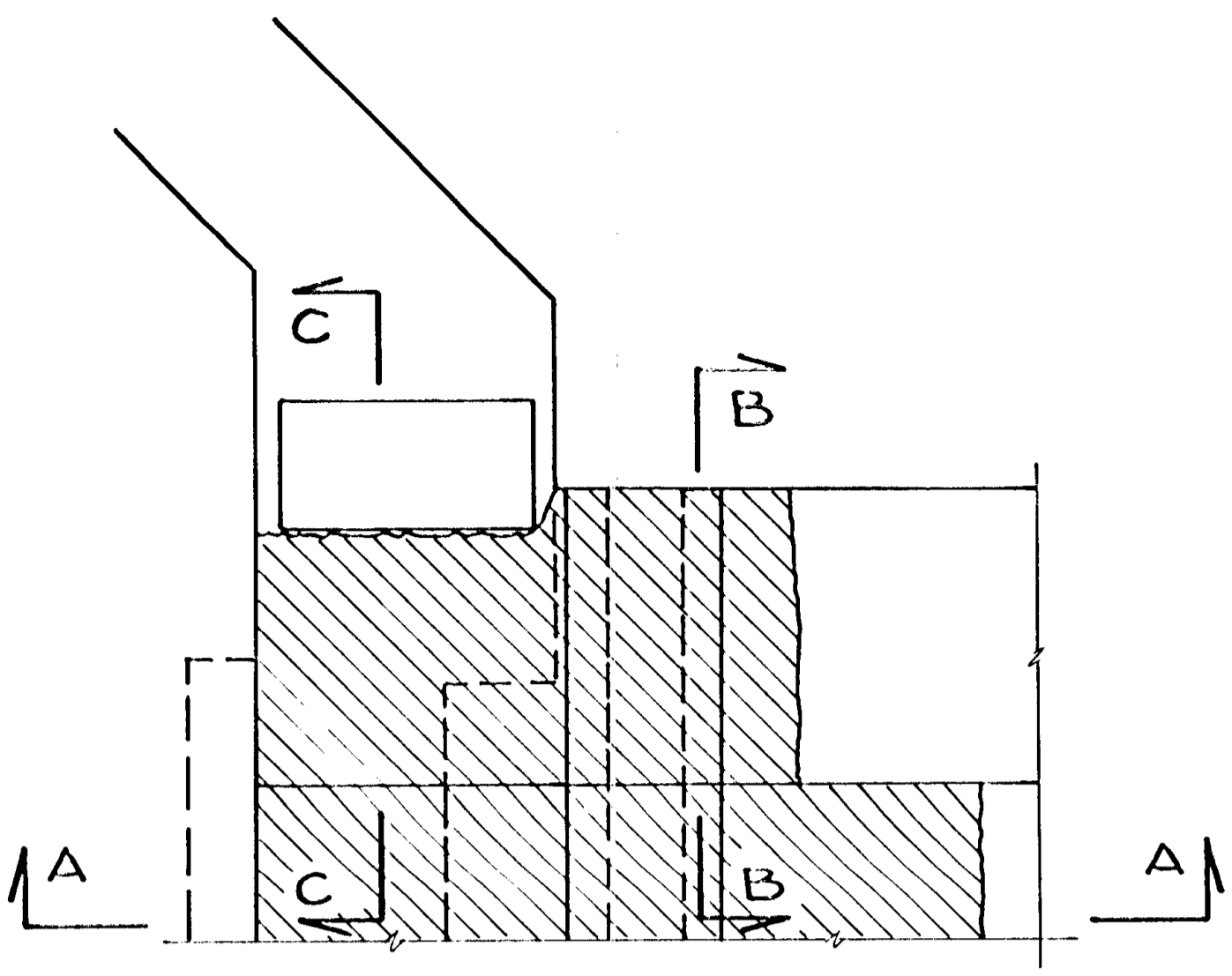
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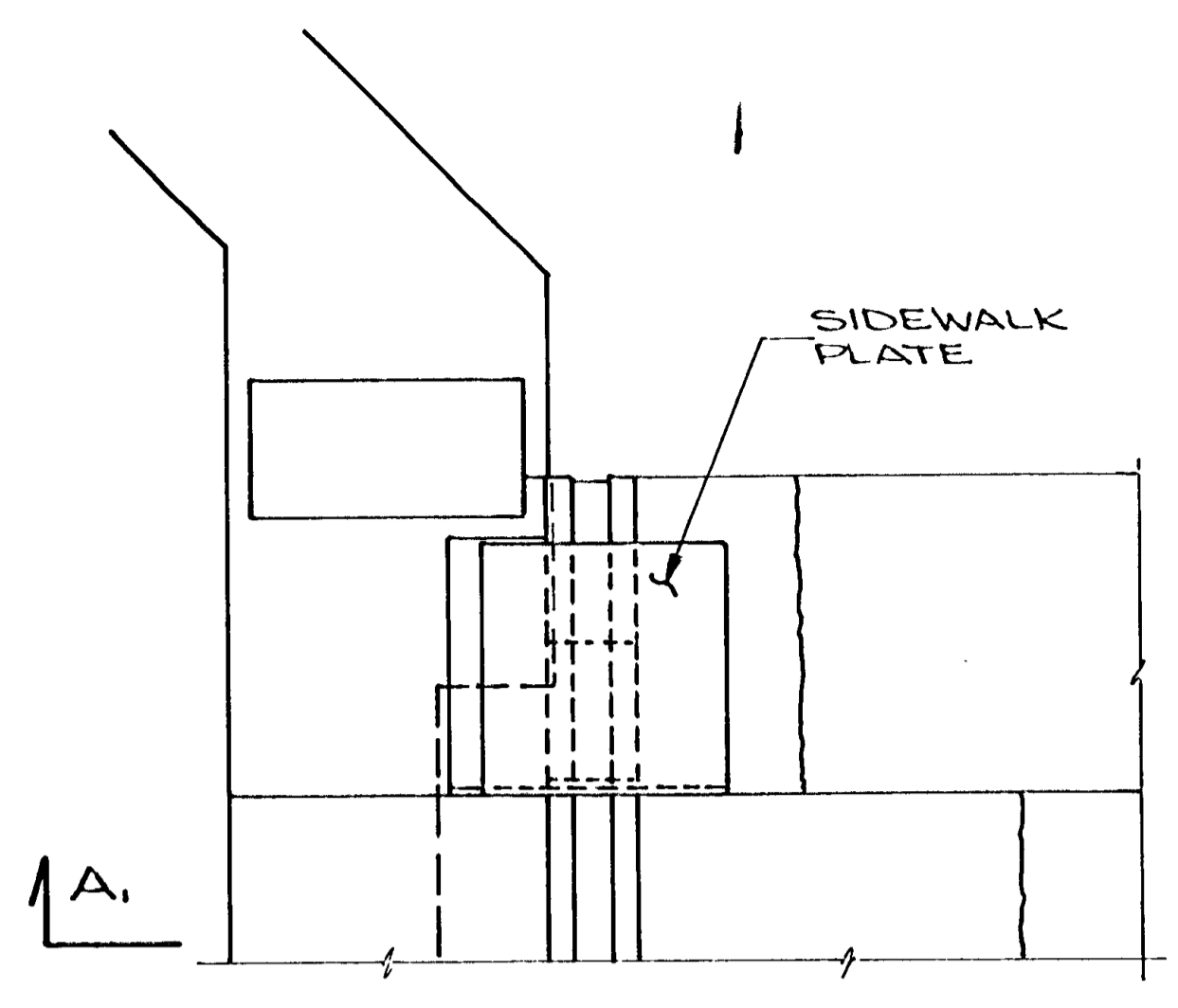
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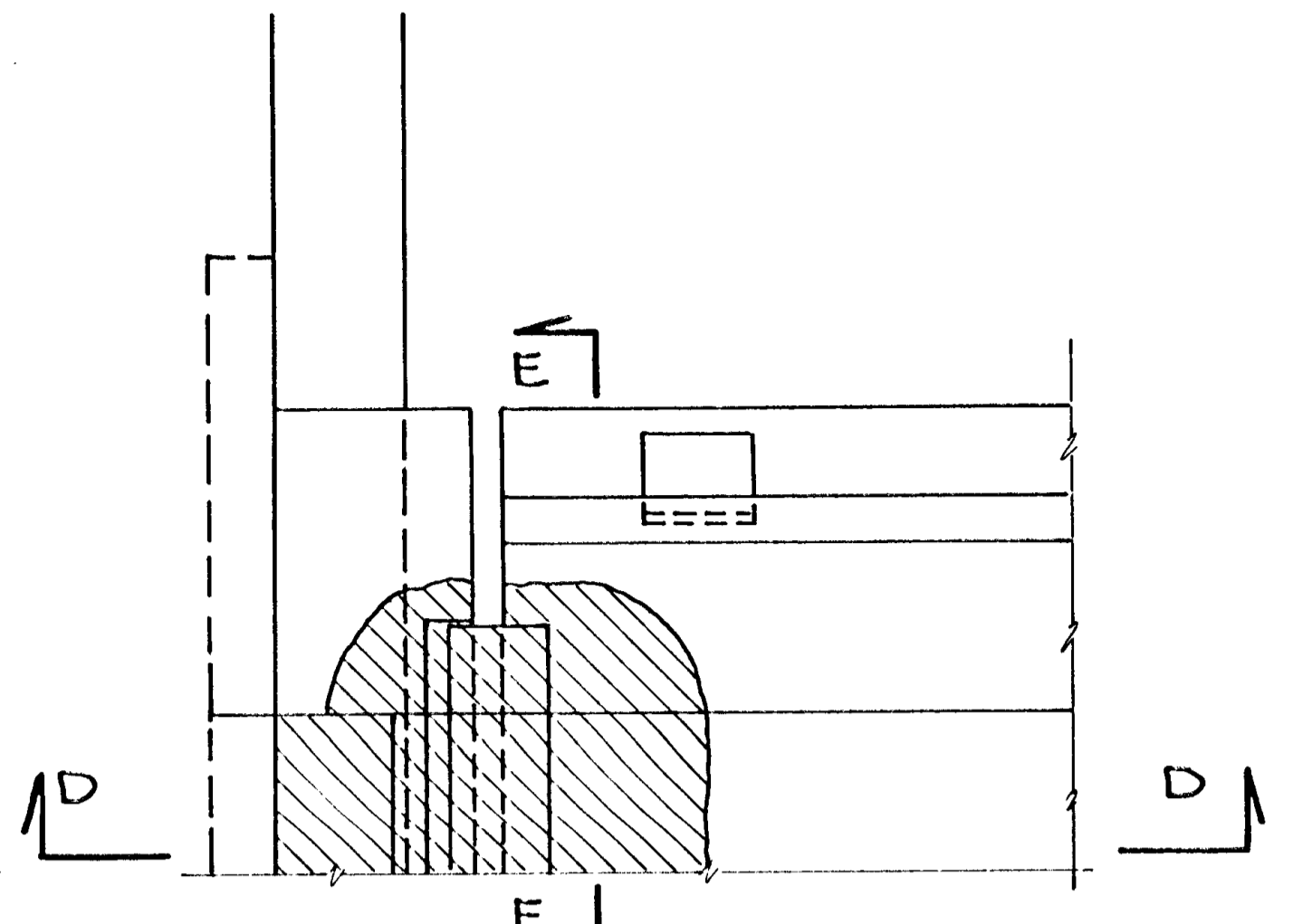
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C.S.A.H. 2 OVER YARD TRACKS AT NORTHTOWN		CHK:	CHK:		
SHEET NO. 5 of 10 SHEETS					



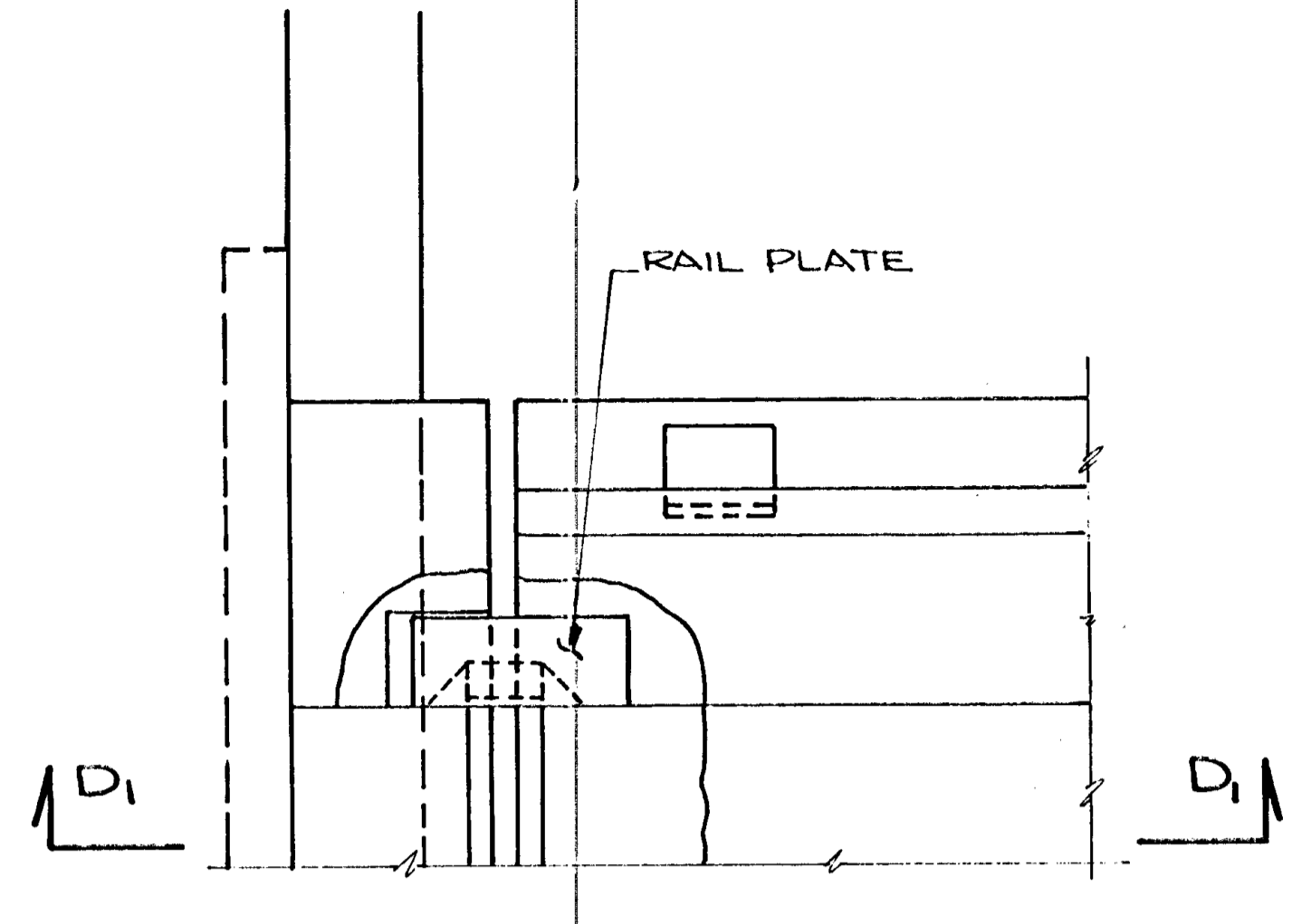
PLAN VIEW - IN-PLACE



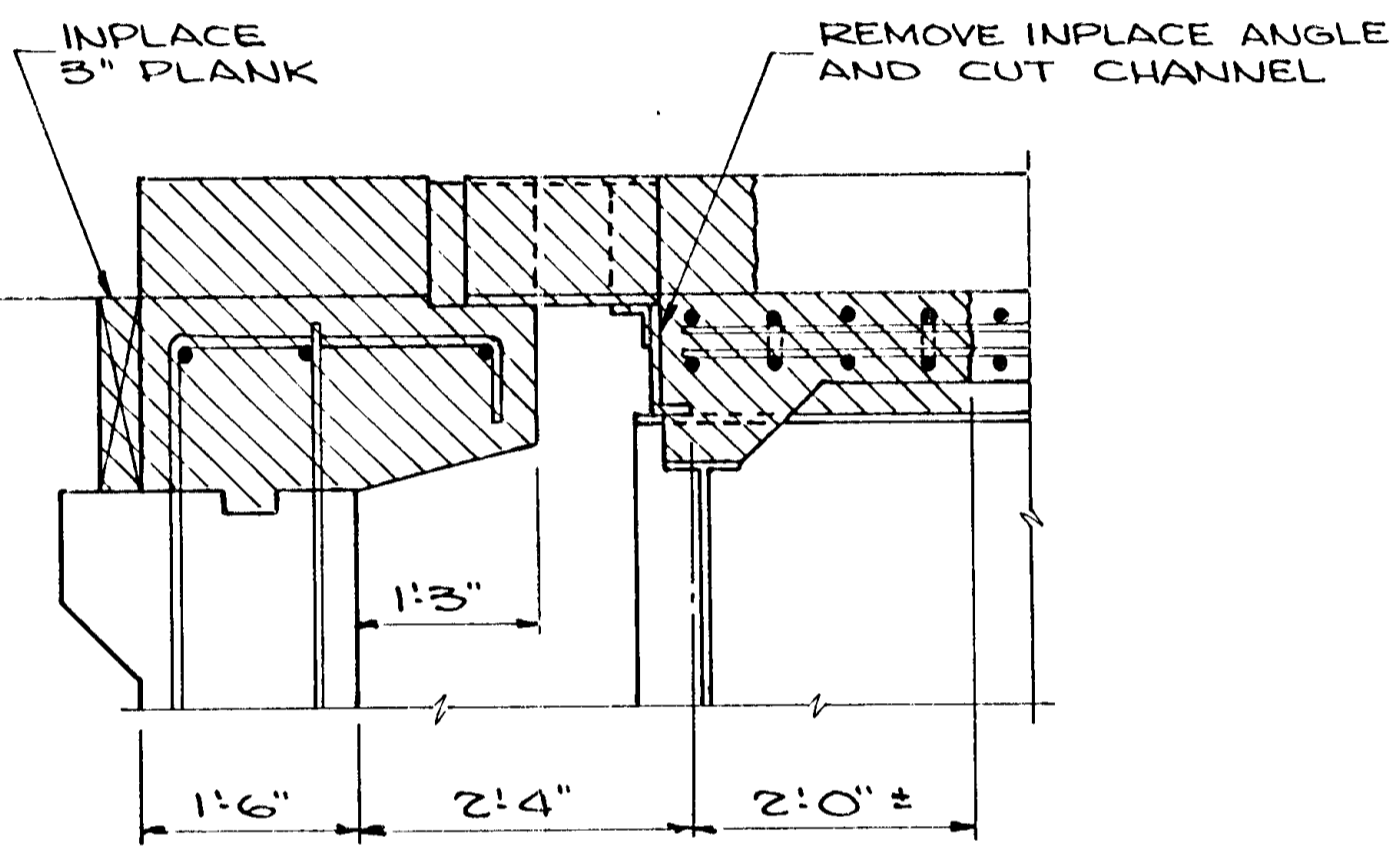
PLAN VIEW - PROPOSED



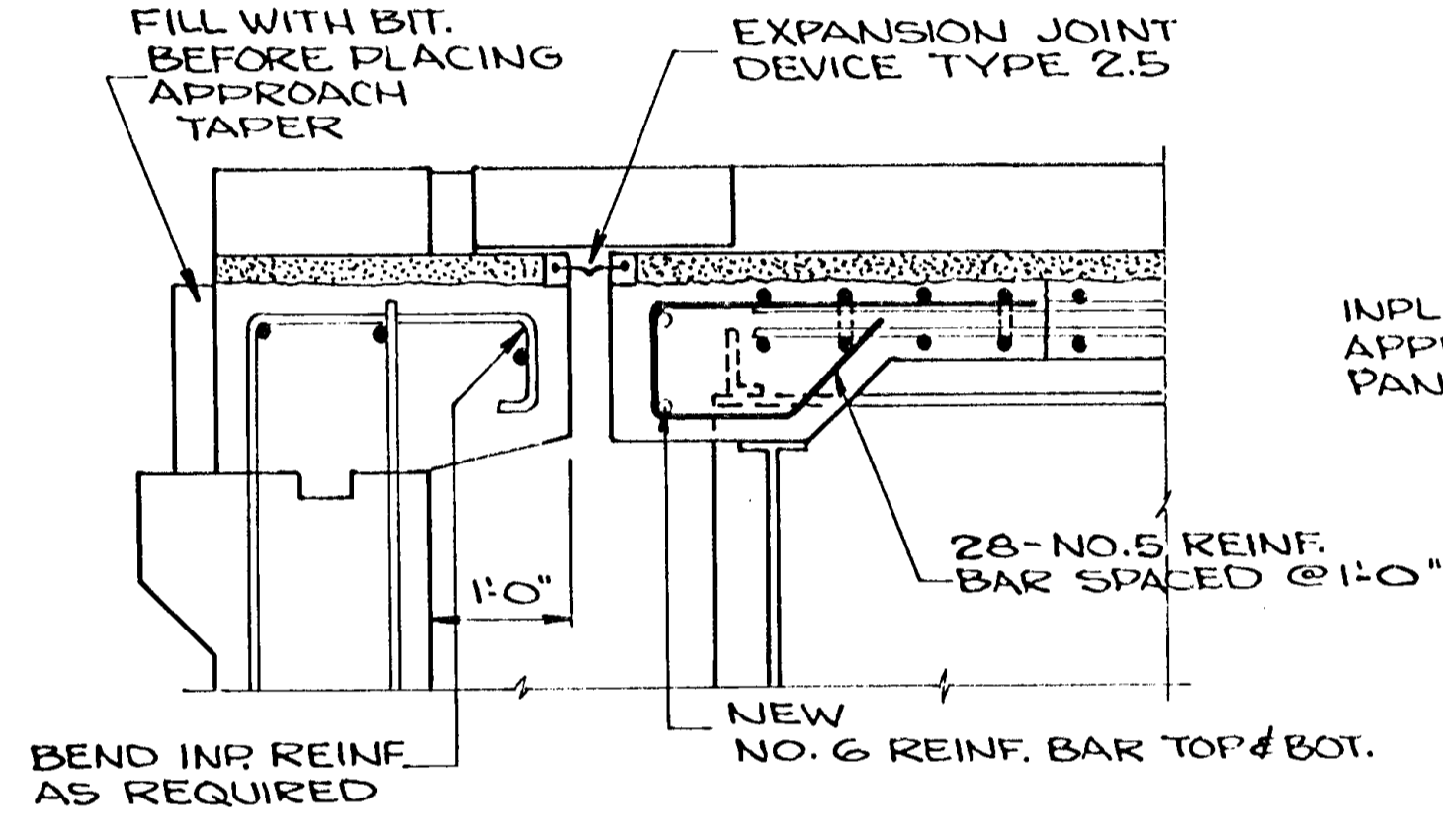
PLAN VIEW - IN-PLACE



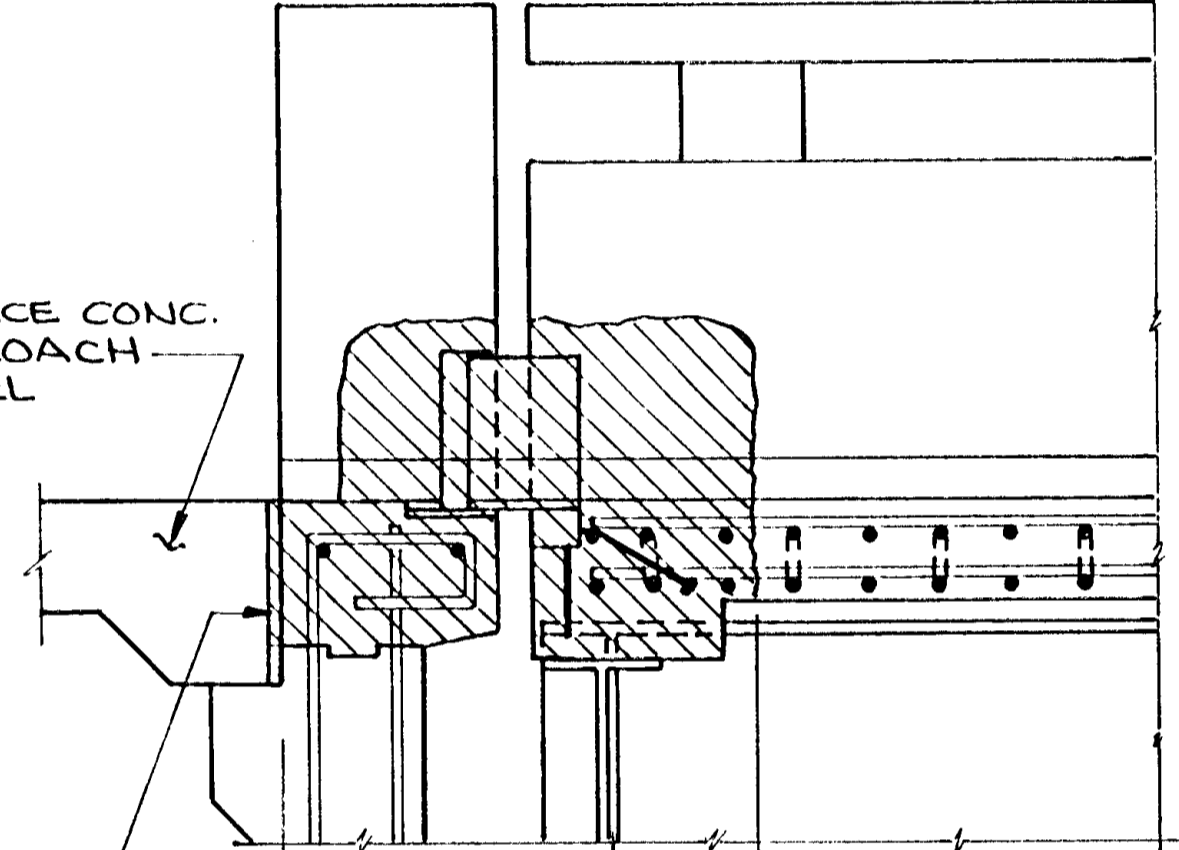
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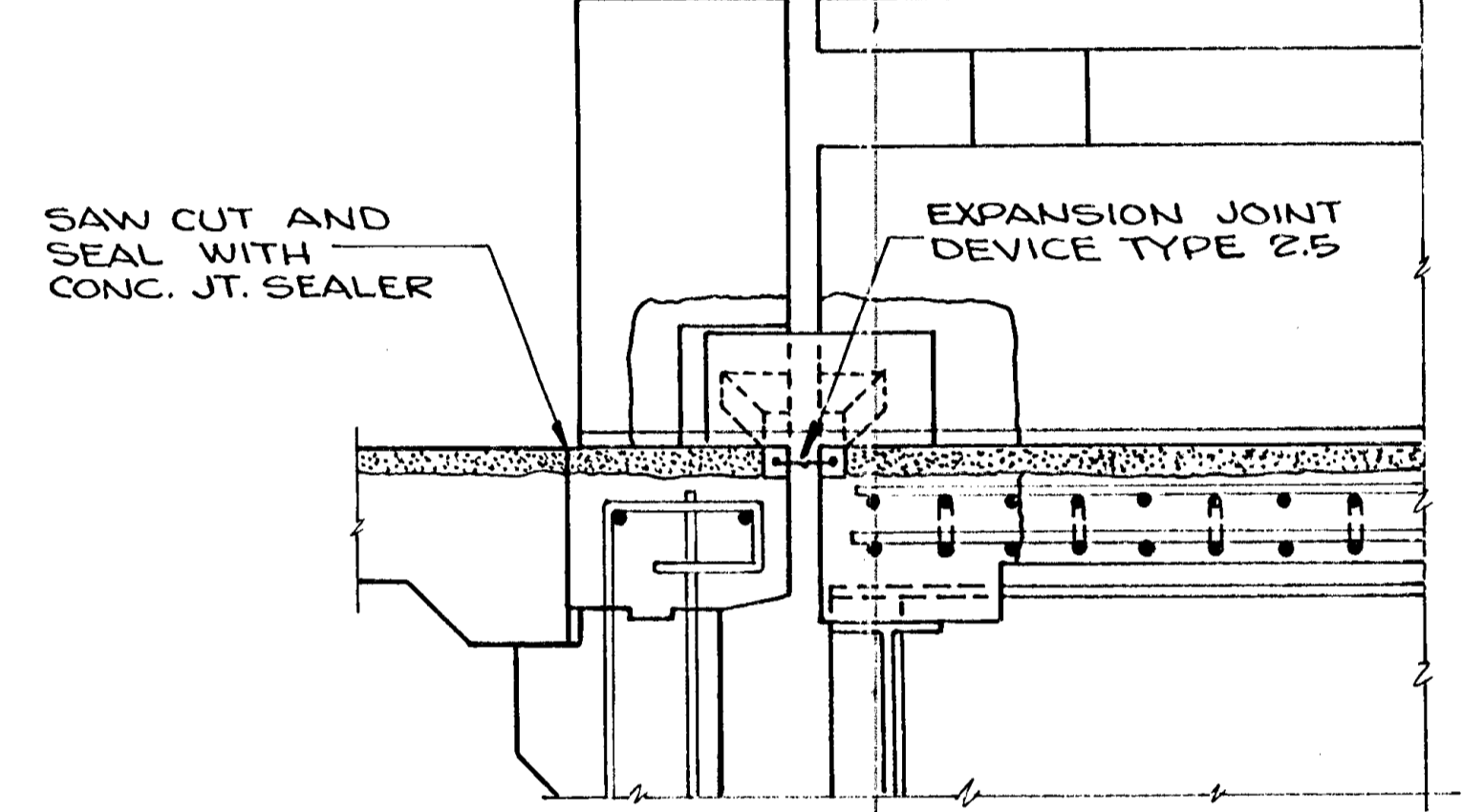
SECTION A-A



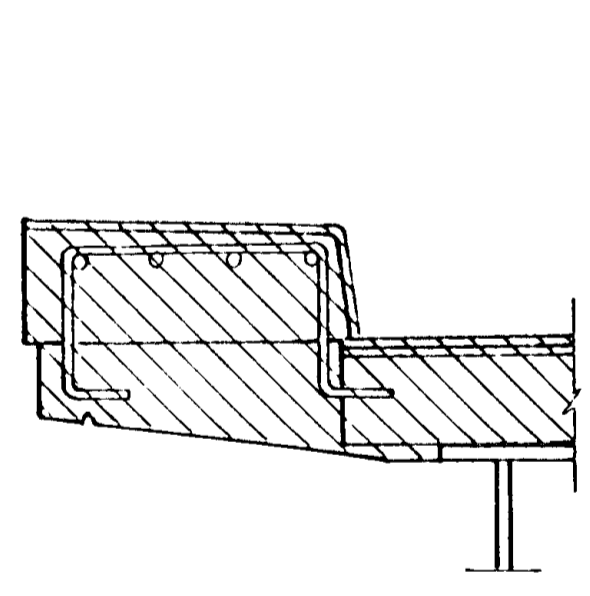
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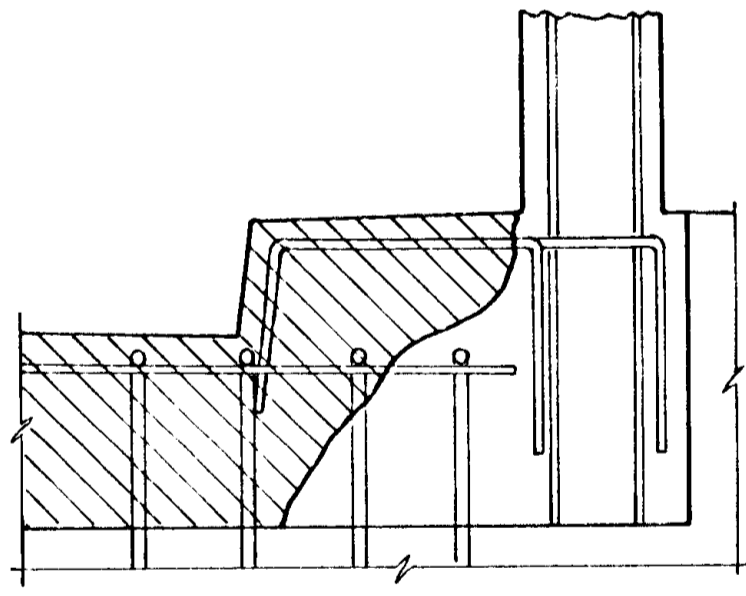
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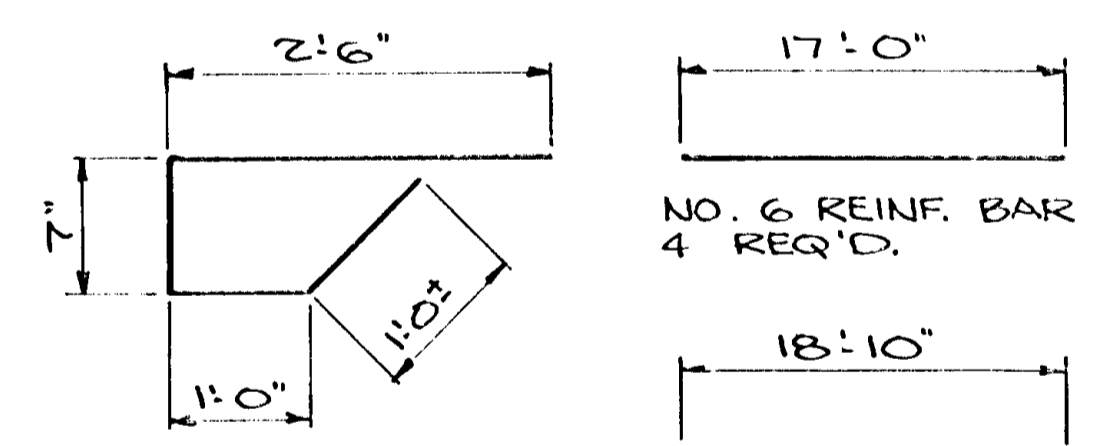
SECTION D1-D1



SECTION B-B



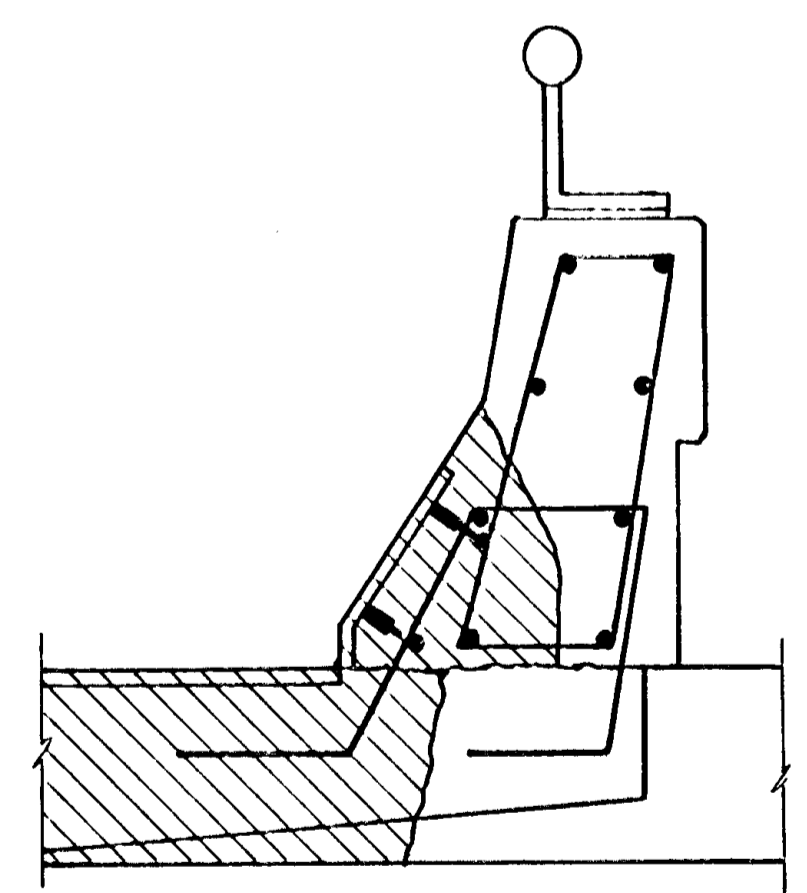
SECTION C-C



NO. 5 REINF. BAR 56 REQ'D.  
NO. 6 REINF. BAR 4 REQ'D.

REINF. BARS INCLUDED IN PRICE BID FOR RECONSTRUCT EXPANSION JOINT.

NOTE: FOR PROPOSED CURB SECTIONS & DETAILS SEE WATERPROOF EXP. DEVICE DETAILS.



SECTION E-E

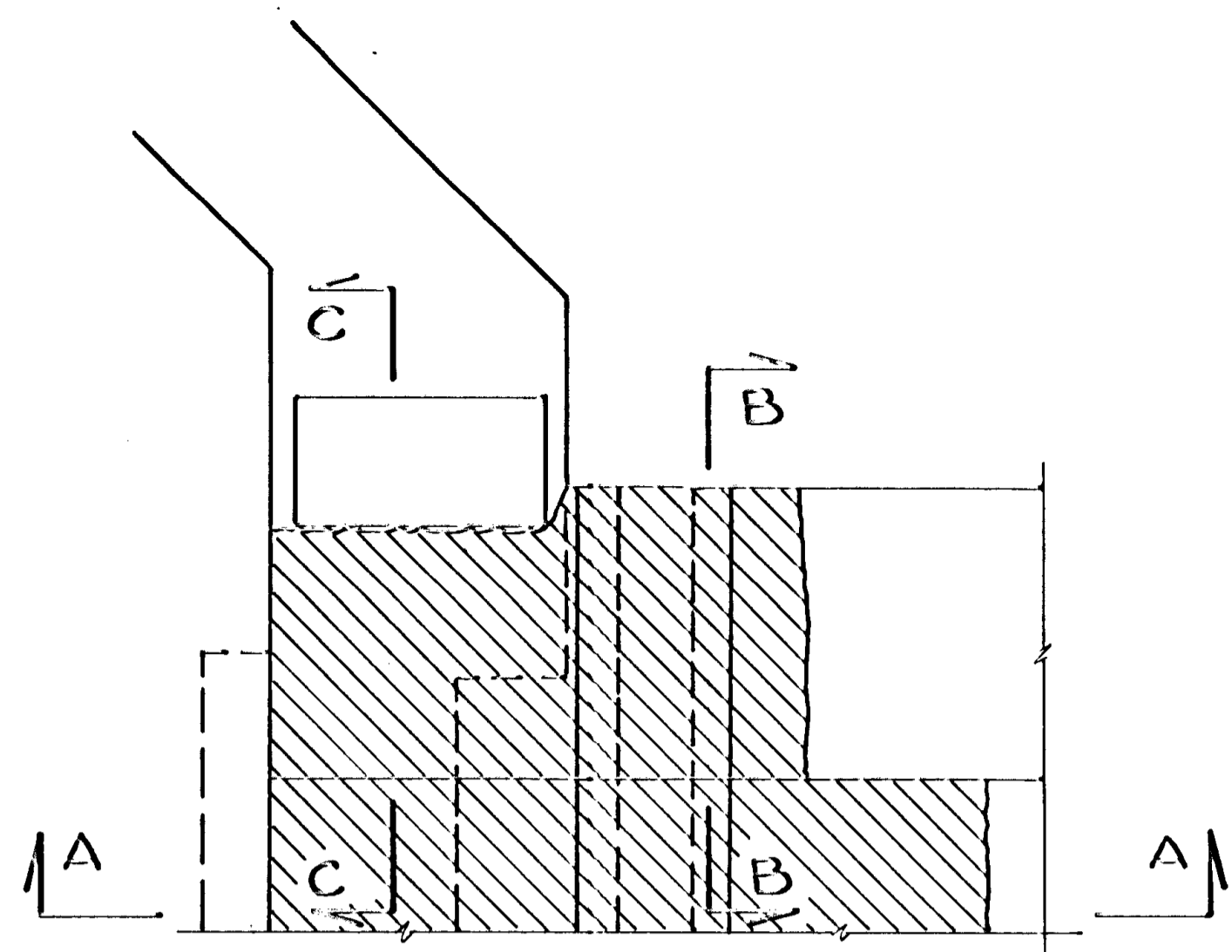
NOTE: FOR PROPOSED RAIL SECTIONS & DETAILS SEE WATERPROOF EXP. DEVICE DETAILS.

RECONSTRUCT EXPANSION JOINT TYPE 1  
BRIDGE NO. 02501

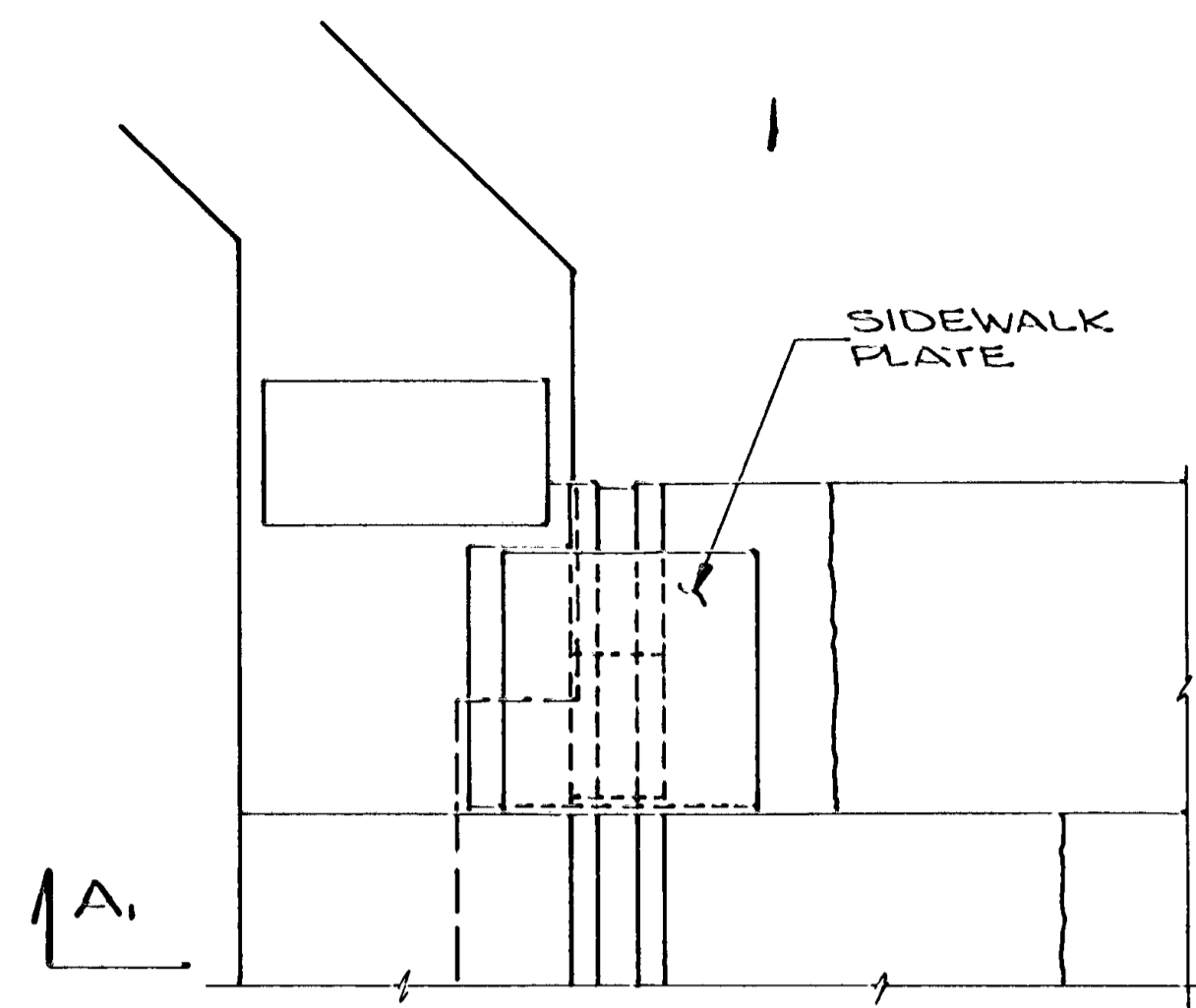
RECONSTRUCT EXPANSION JOINT TYPE 1  
BRIDGE NO. 02523

RECONSTRUCT EXPANSION JOINTS TYPE 1	DES:	DR: R.H.	APPROVED:	BRIDGE NO. 02501 02523
	CHK:	CHK:		
SHEET NO. 6 of 10 SHEETS				

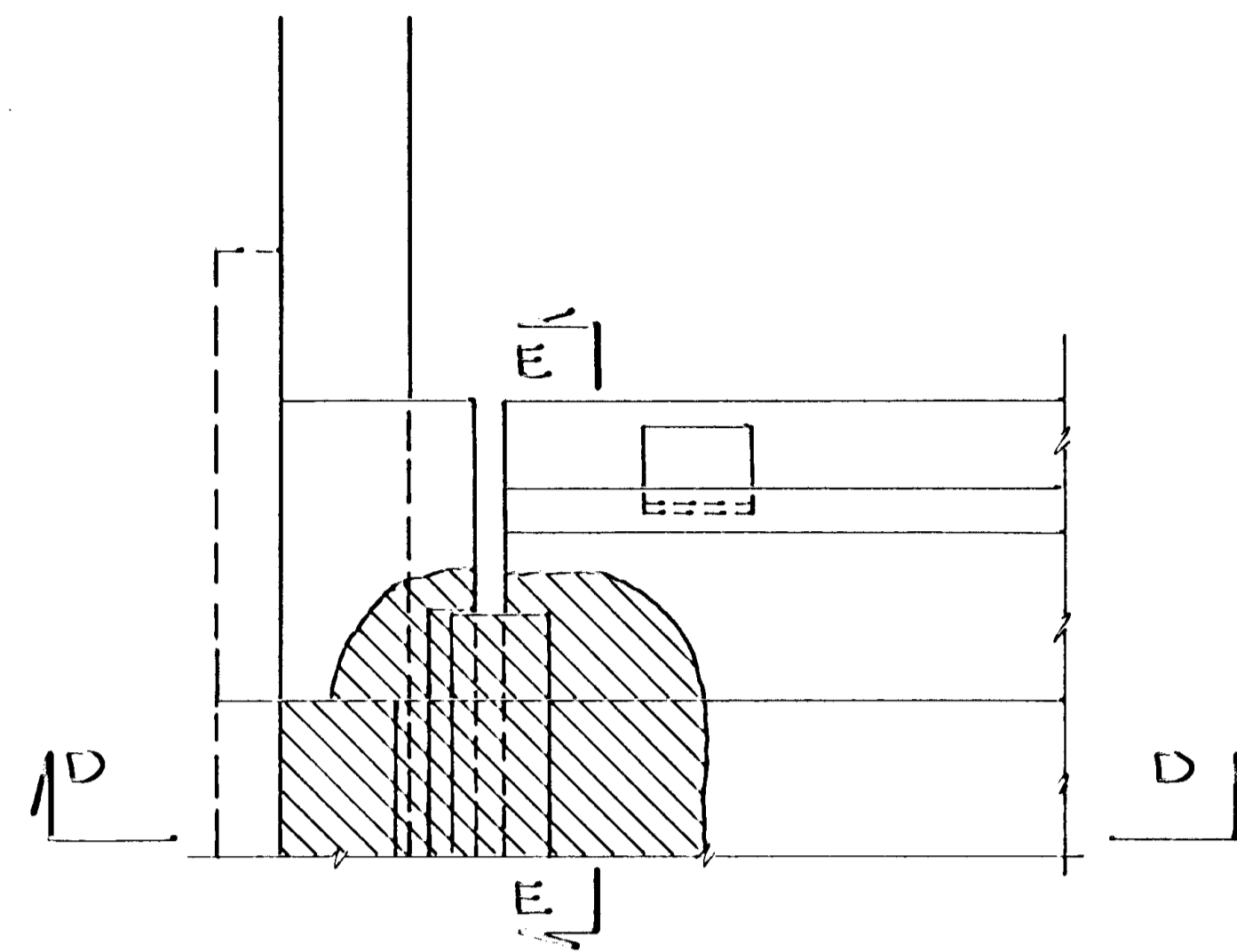




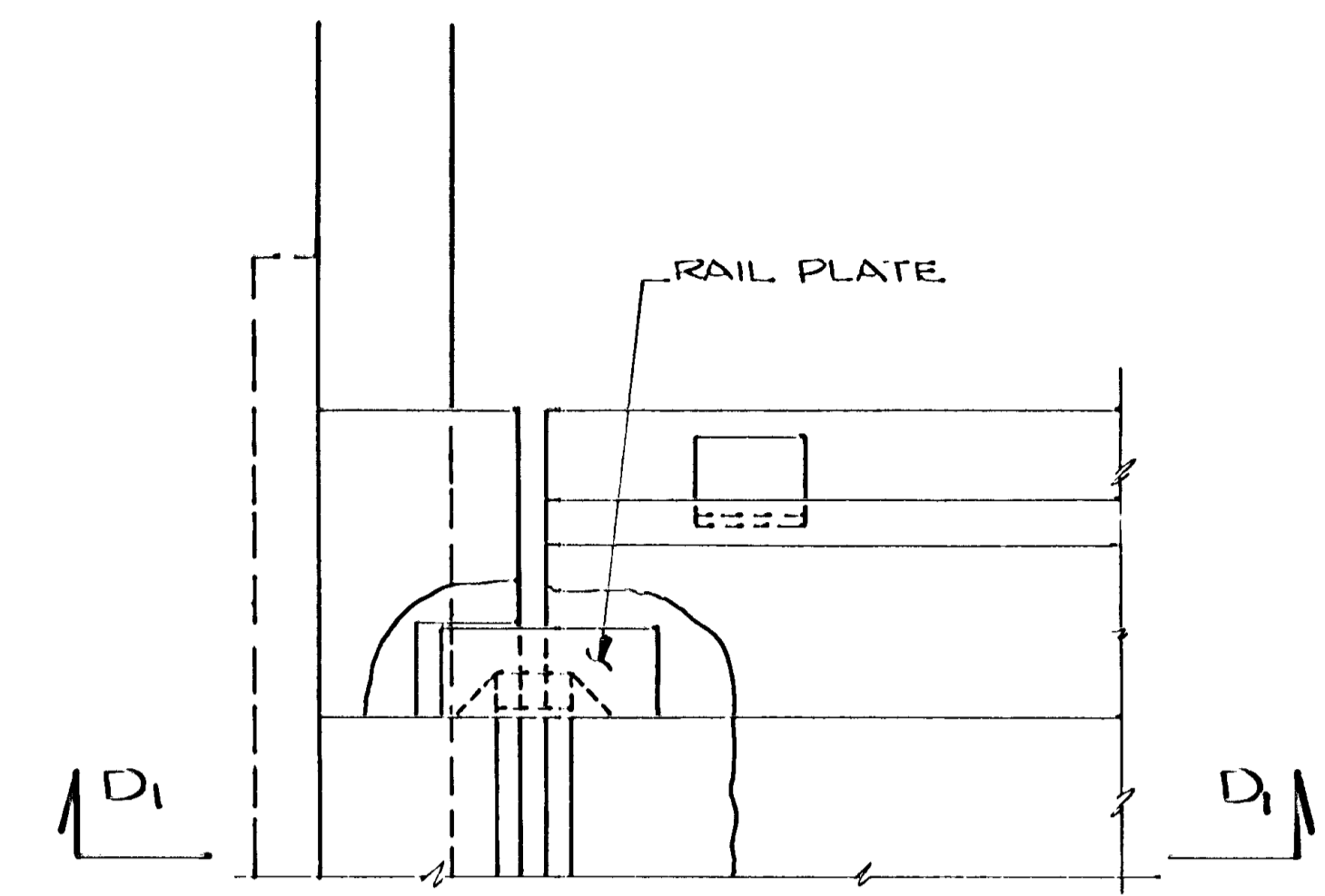
PLAN VIEW - INPLACE



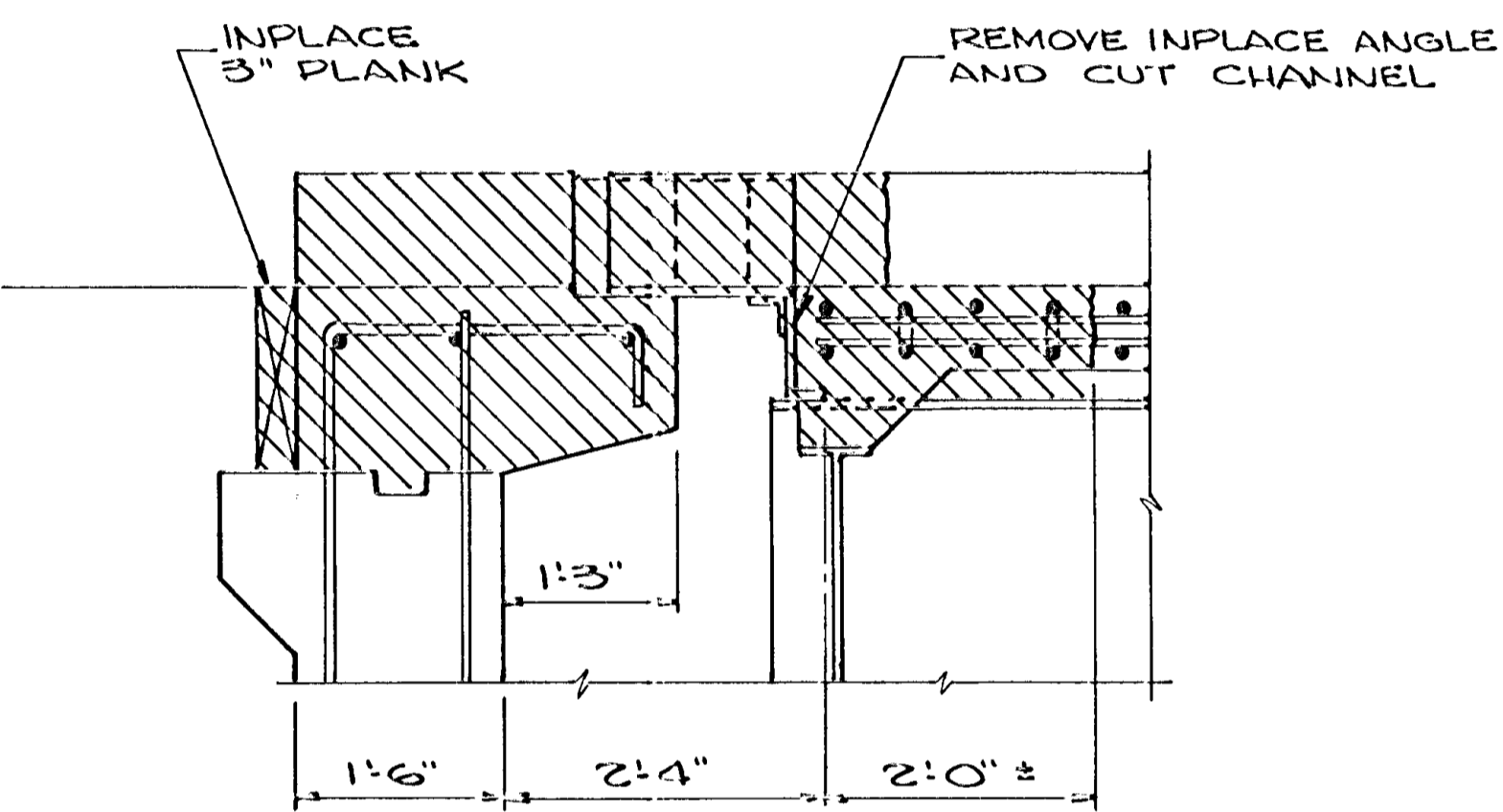
PLAN VIEW - PROPOSED



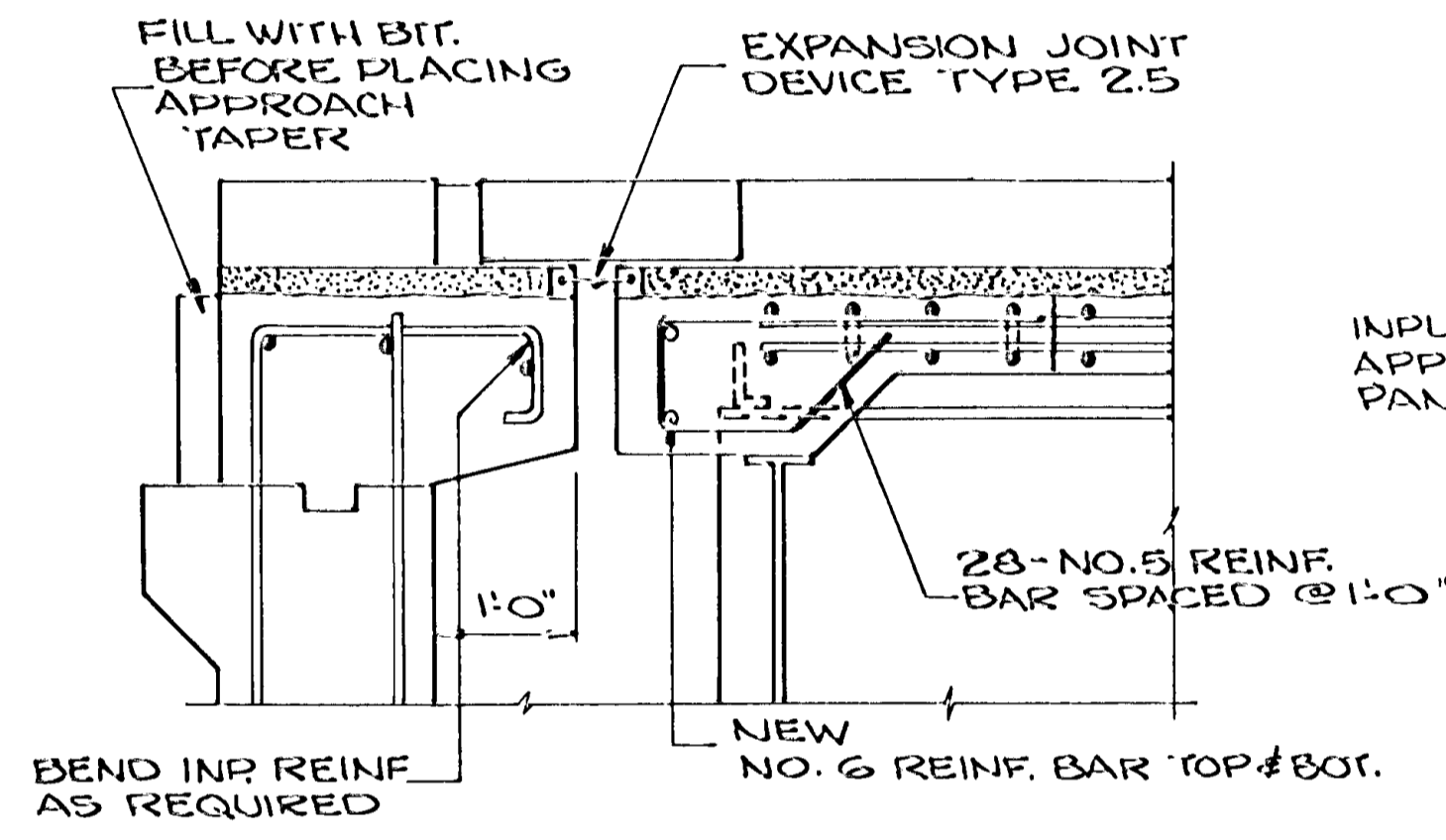
PLAN VIEW - INPLACE



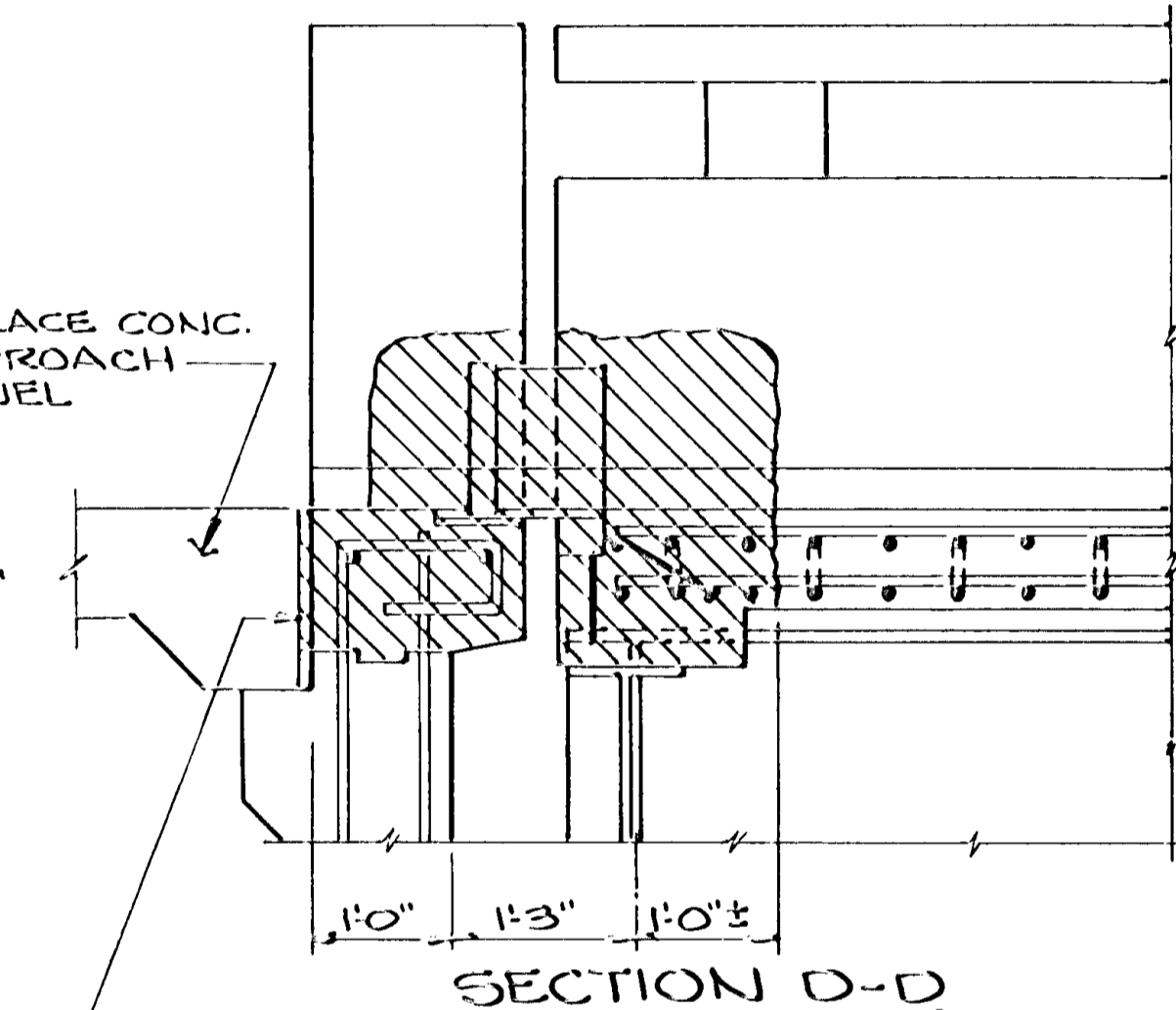
PLAN VIEW - PROPOSED



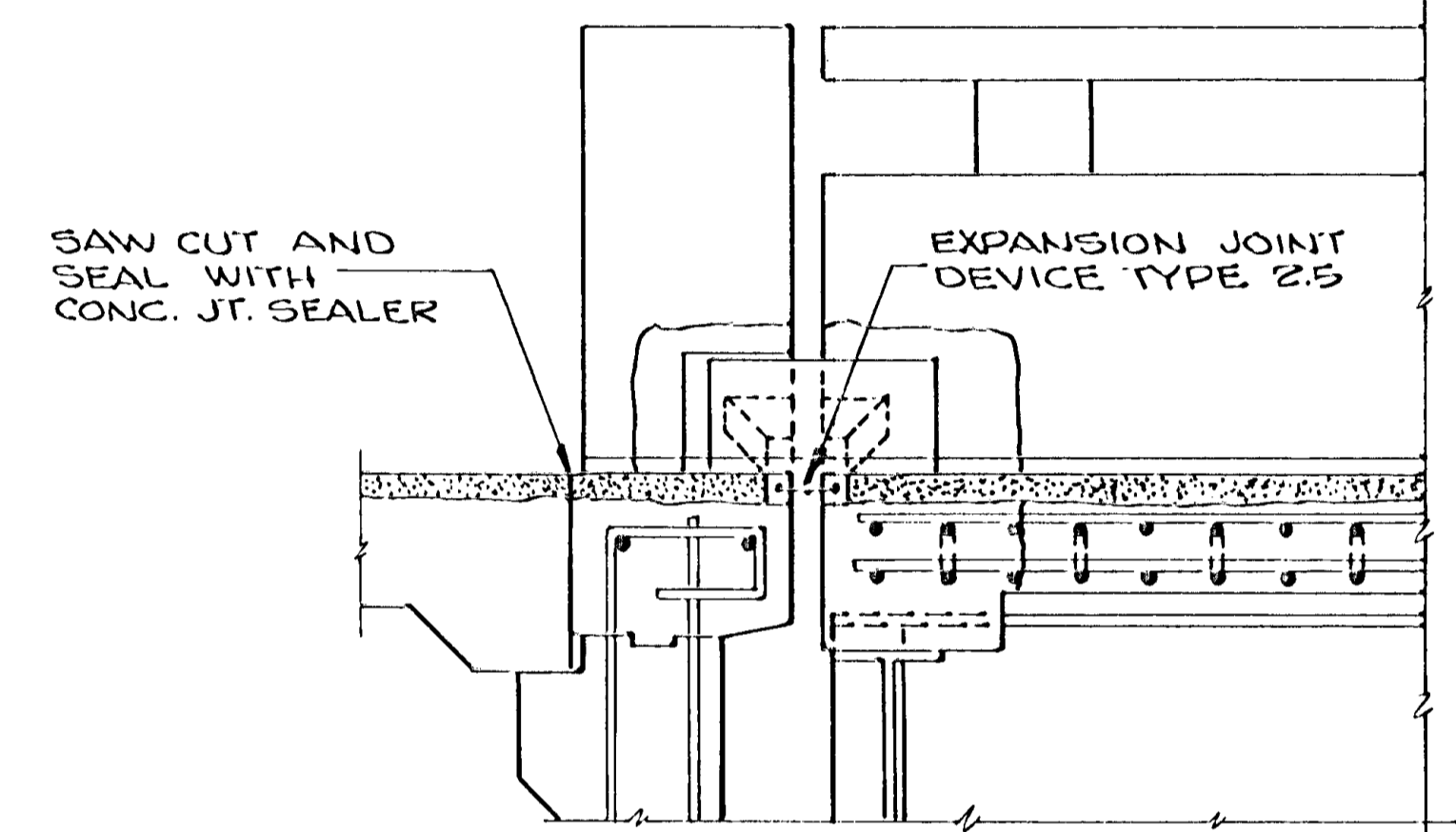
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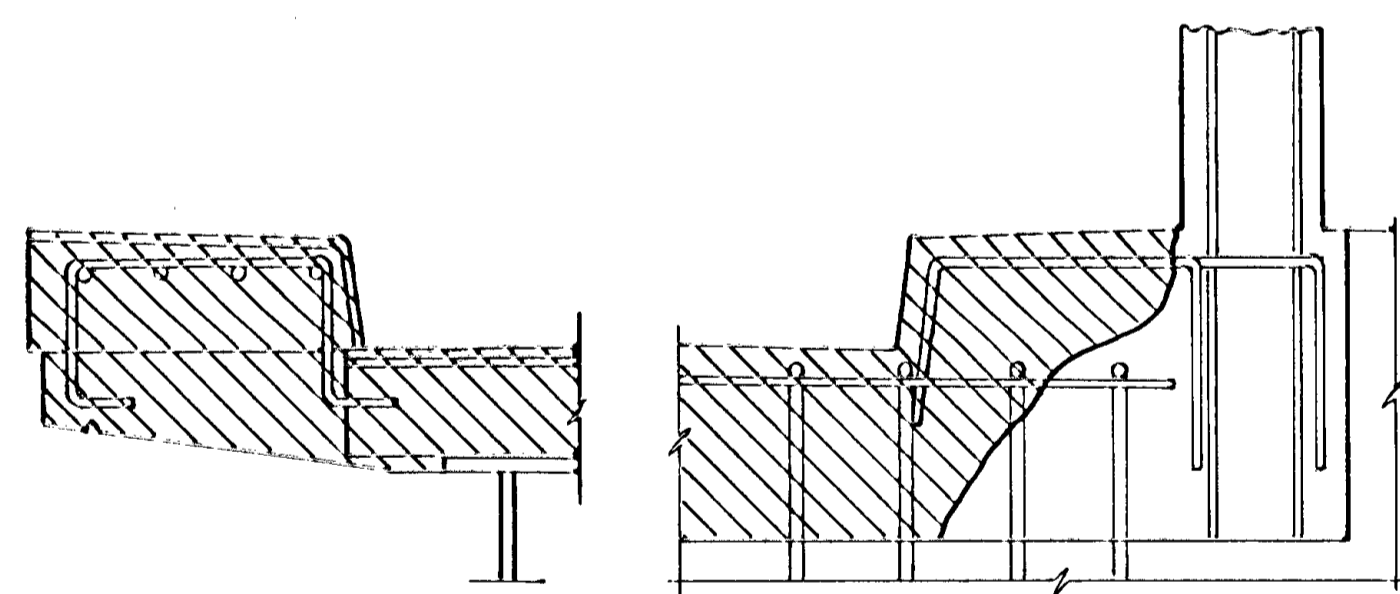
SECTION A1-A1



SECTION D-D

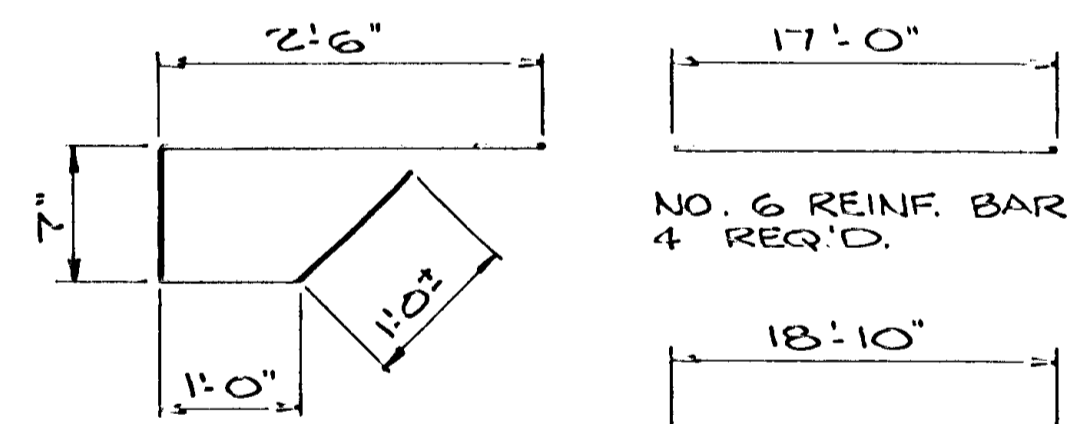


SECTION D1-D1



SECTION B-B

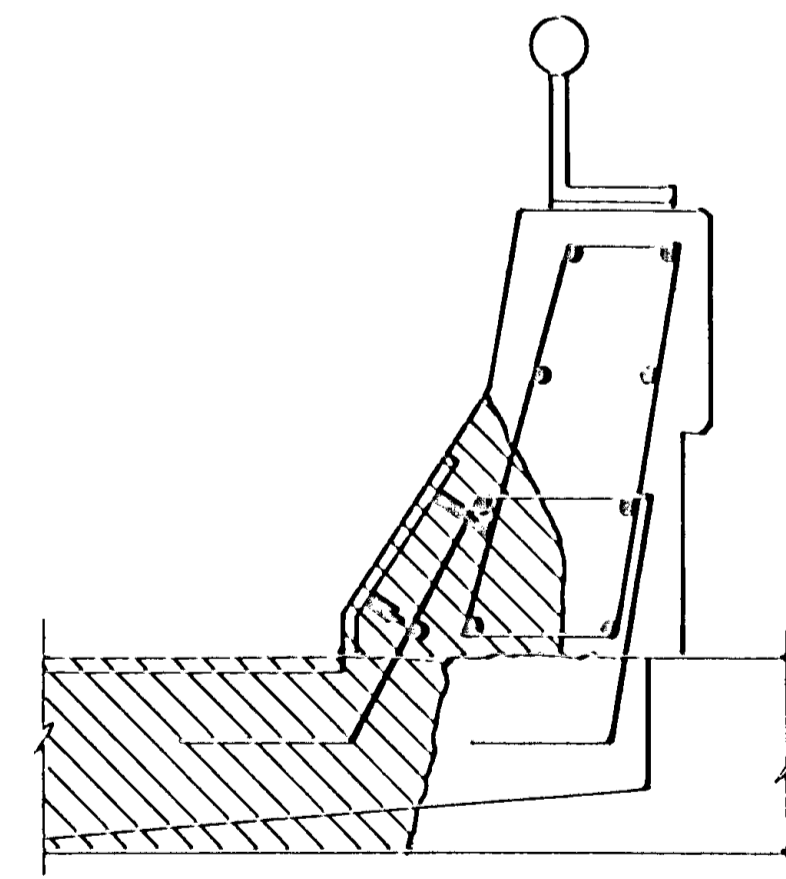
SECTION C-C



NO. 5 REINF. BAR 56 REQ'D. NO. 6 REINF. BAR 4 REQ'D.

REINF. BARS INCLUDED IN PRICE BID FOR RECONSTRUCT EXPANSION JOINT.

NOTE: FOR PROPOSED CURB SECTIONS & DETAILS SEE WATERPROOF EXP. DEVICE DETAILS.



SECTION E-E

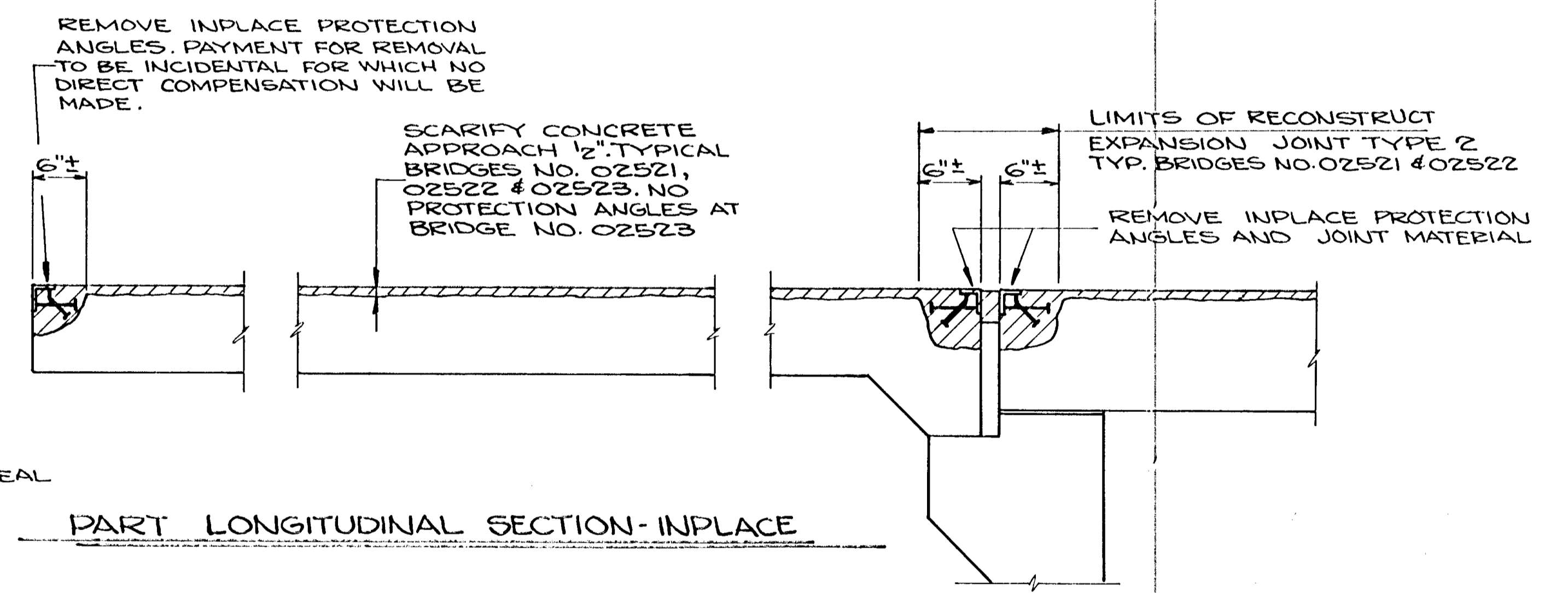
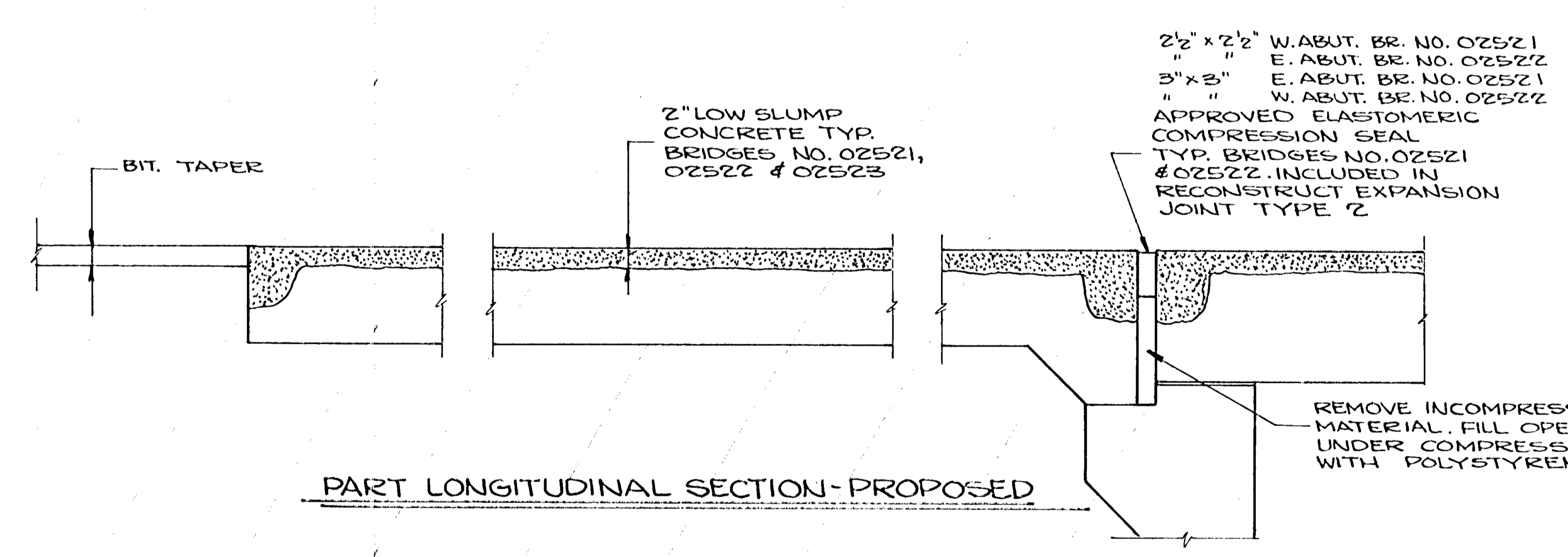
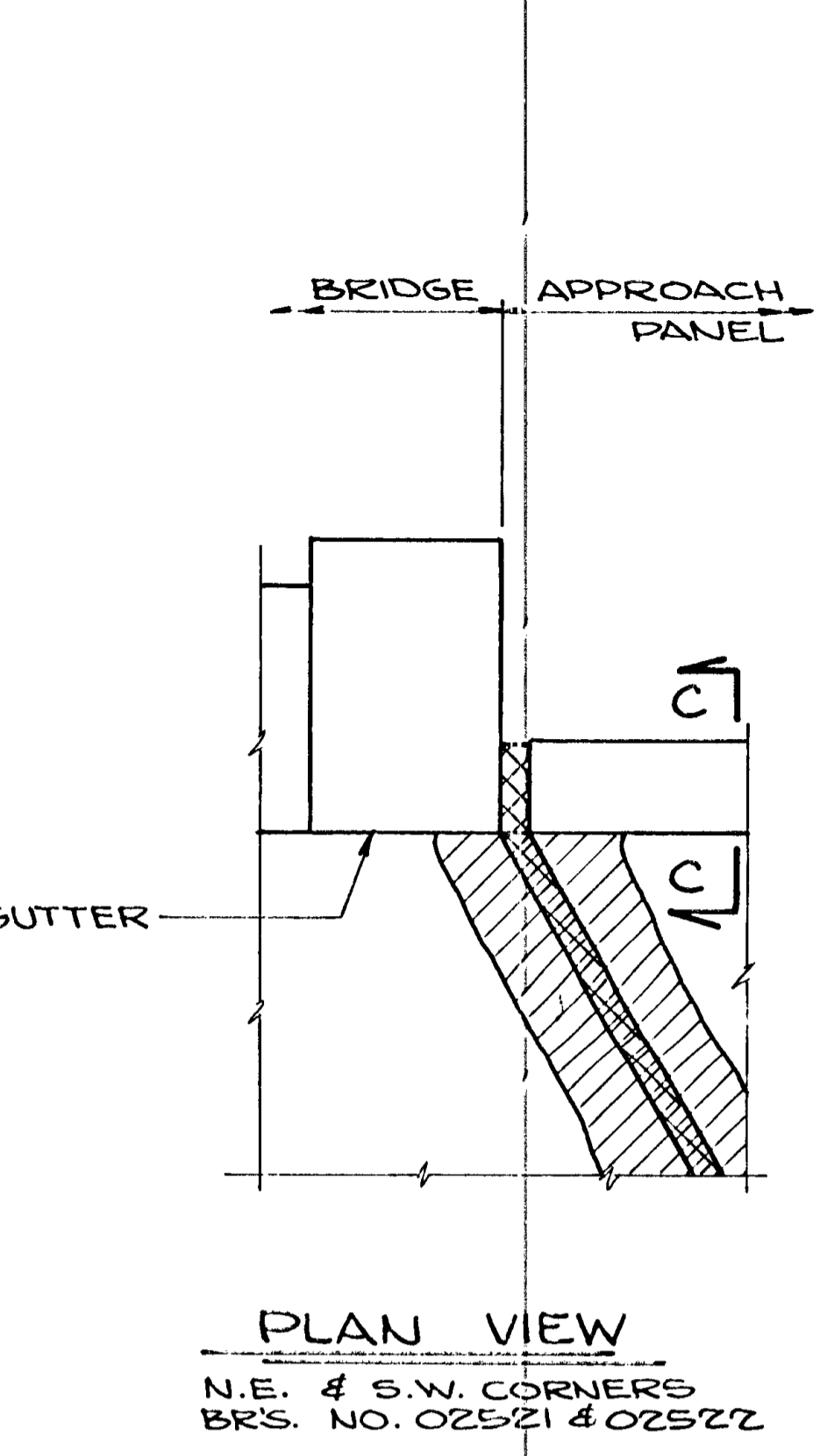
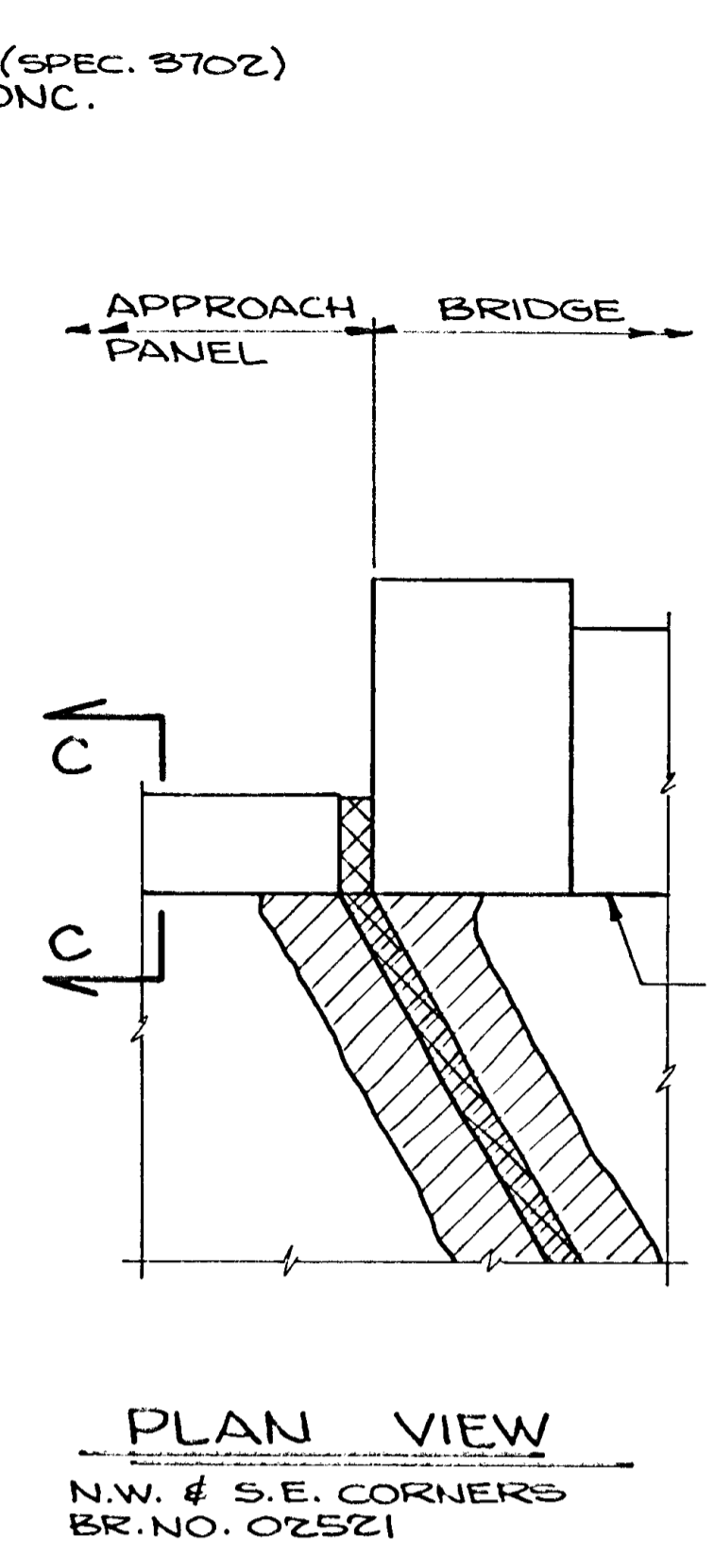
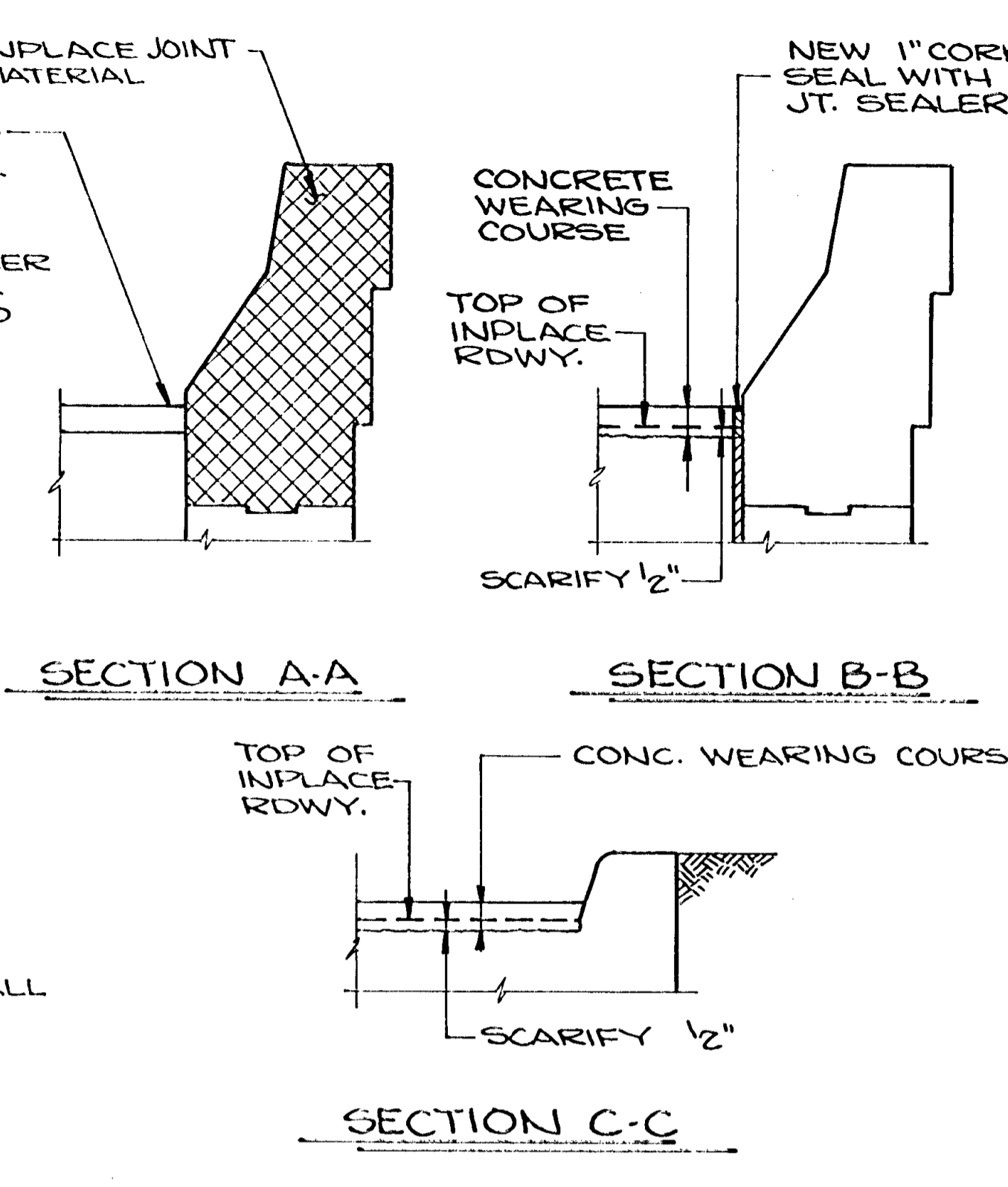
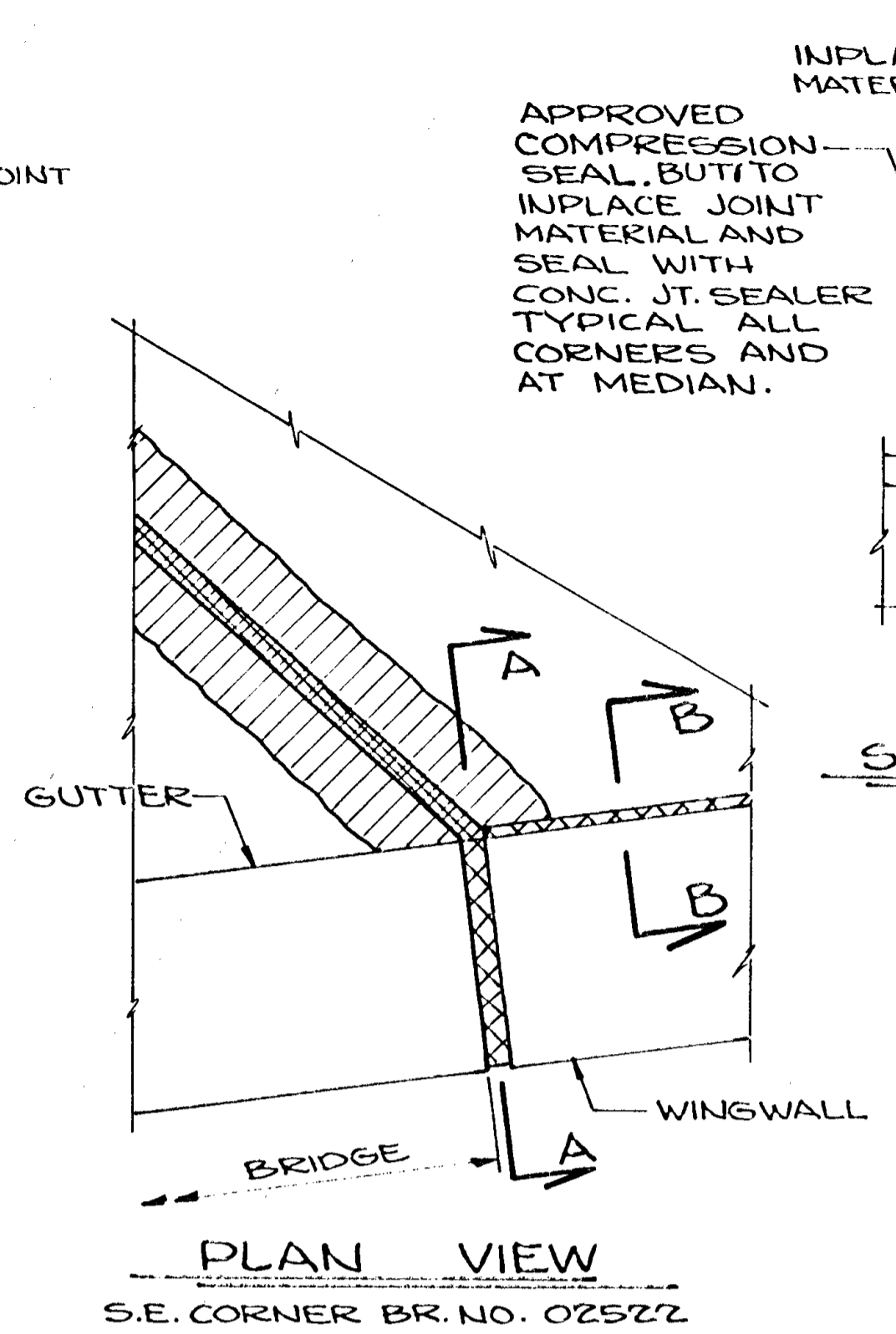
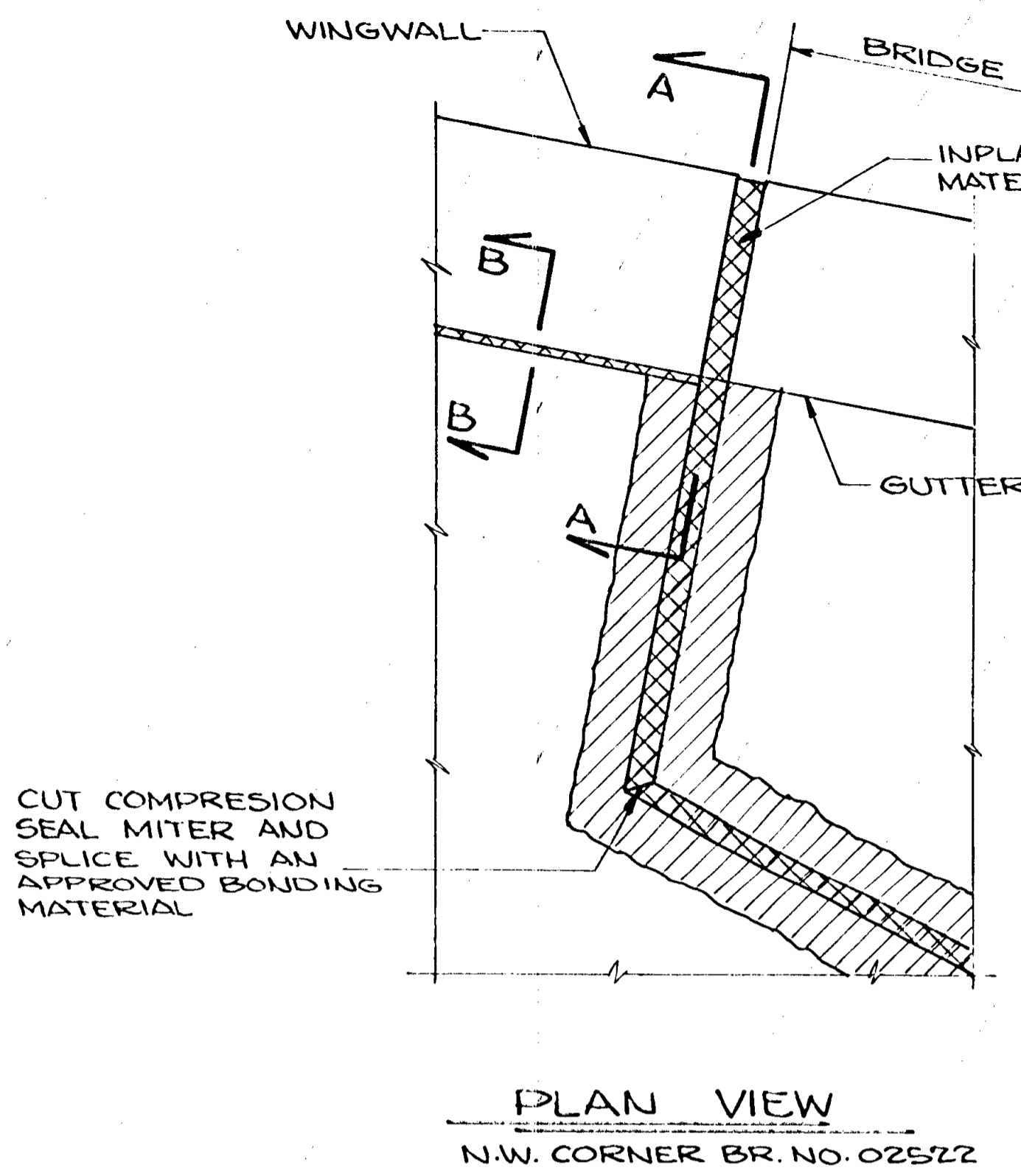
NOTE: FOR PROPOSED RAIL SECTIONS & DETAILS SEE WATERPROOF EXP. DEVICE DETAILS.

RECONSTRUCT EXPANSION JOINT TYPE 1  
BRIDGE NO. 02501

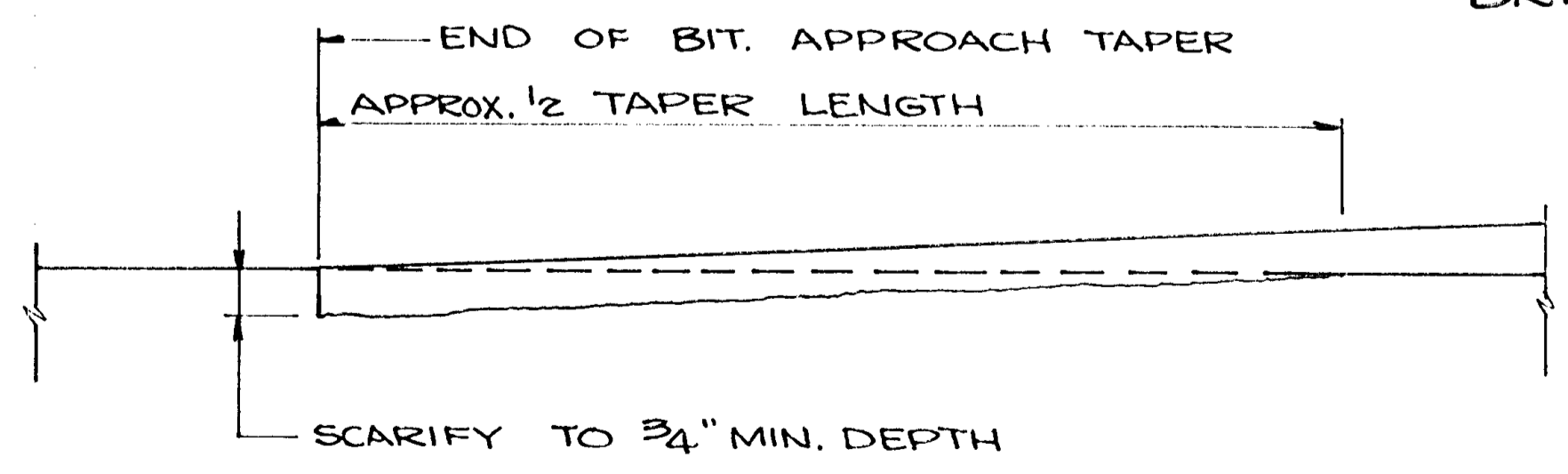
RECONSTRUCT EXPANSION JOINT TYPE 1  
BRIDGE NO. 02523

RECONSTRUCT EXPANSION JOINTS TYPE 1

DES:	DR: R.H.	APPROVED:	BRIDGE NO.
CHK:	CHK:		02501
SHEET NO. 6 OF 10 SHEETS			02523

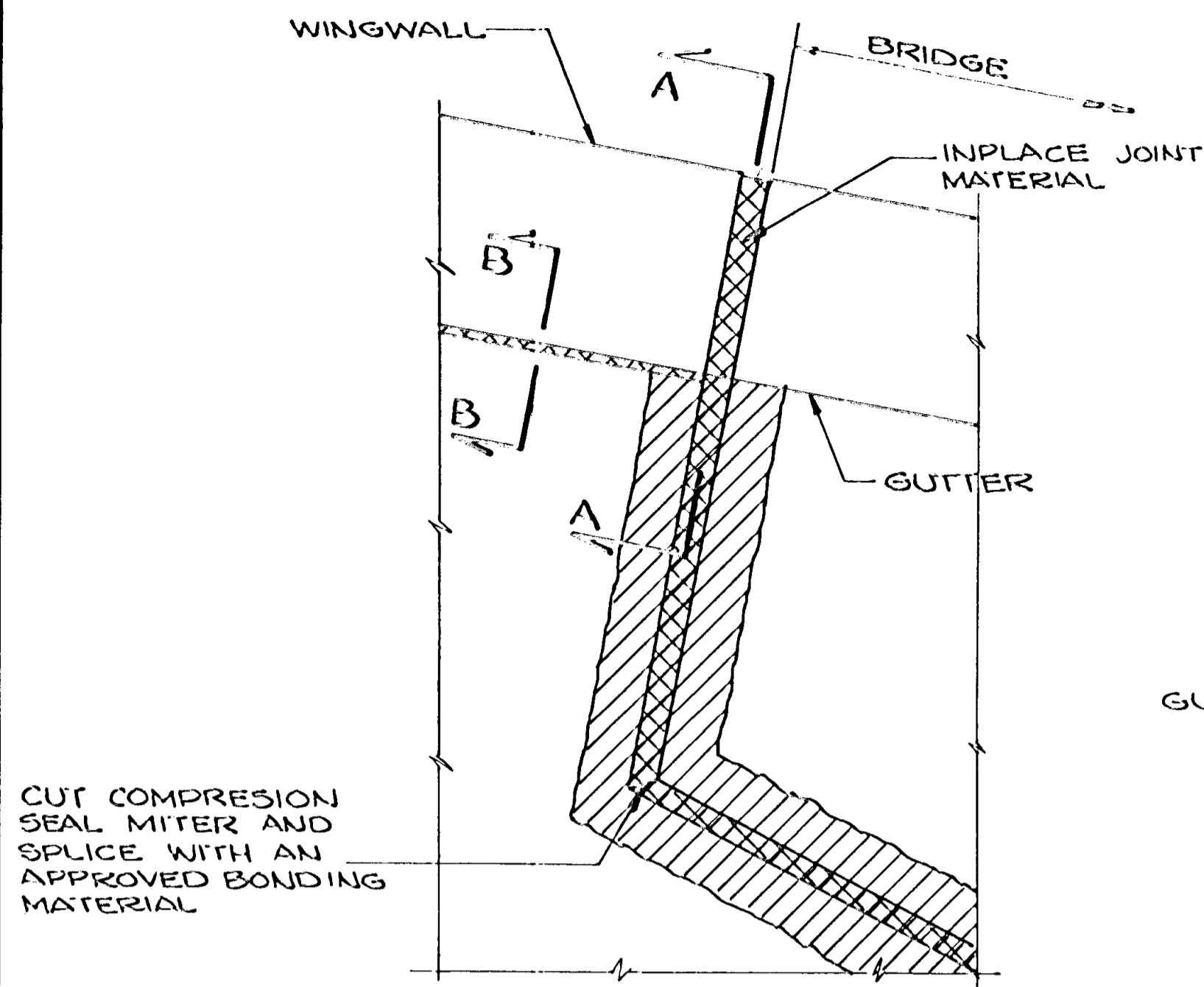


**RECONSTRUCT EXPANSION JOINT TYPE 2**  
BRIDGES NO. 02521 & 02522



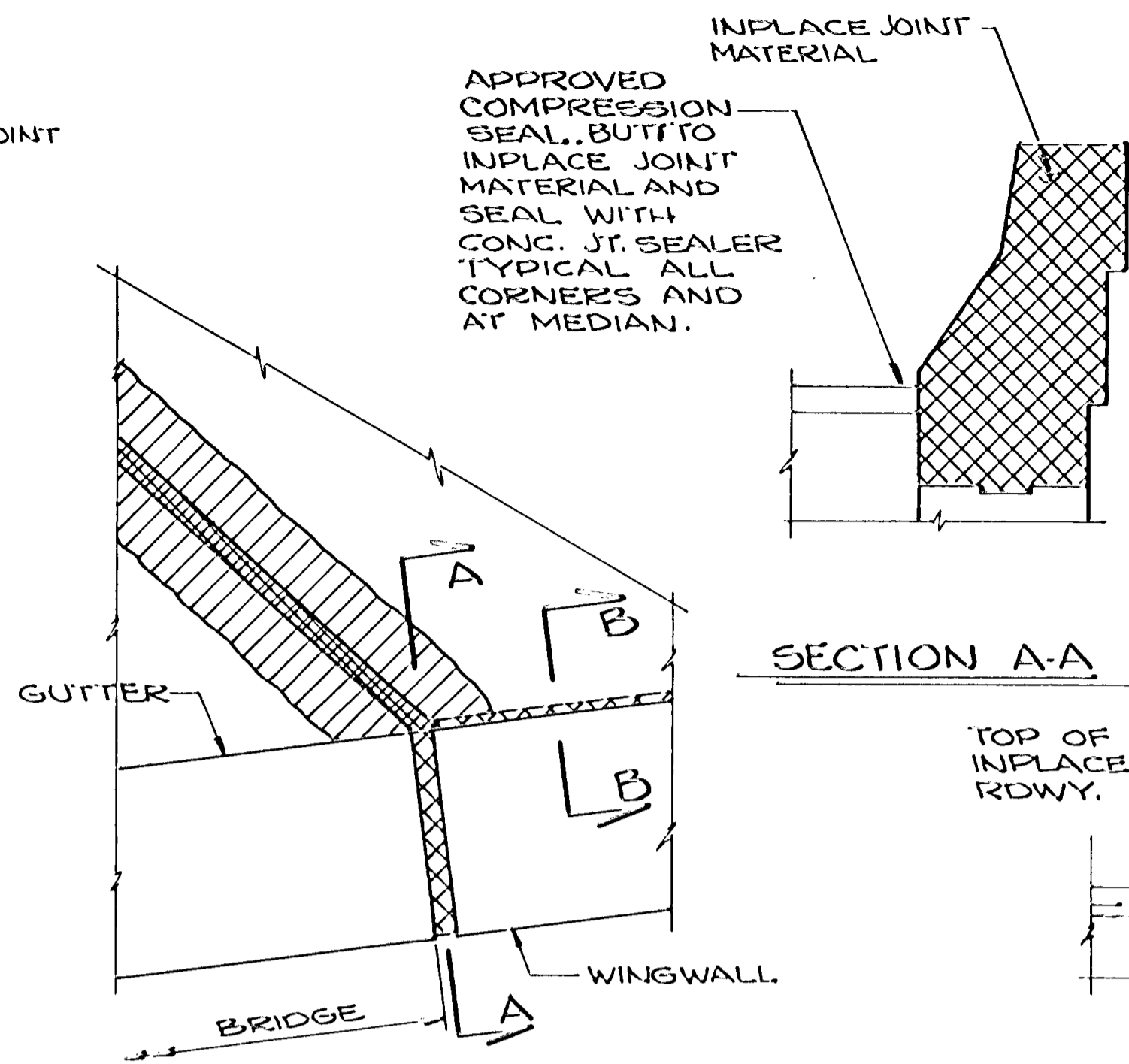
**BITUMINOUS TAPER DETAIL**  
TYPICAL BRIDGES NO. 02501, 02521, 02522 & 02523

RECONSTRUCT EXPANSION JOINT TYPE 2 APPROACH OVERLAY & TAPER DETAILS	DES:	DR: R.H.	APPROVED:	BRIDGE NO. 02501 02521 02522 02523
	CHK:	CHK:	SHEET NO. 7 of 10 SHEETS	

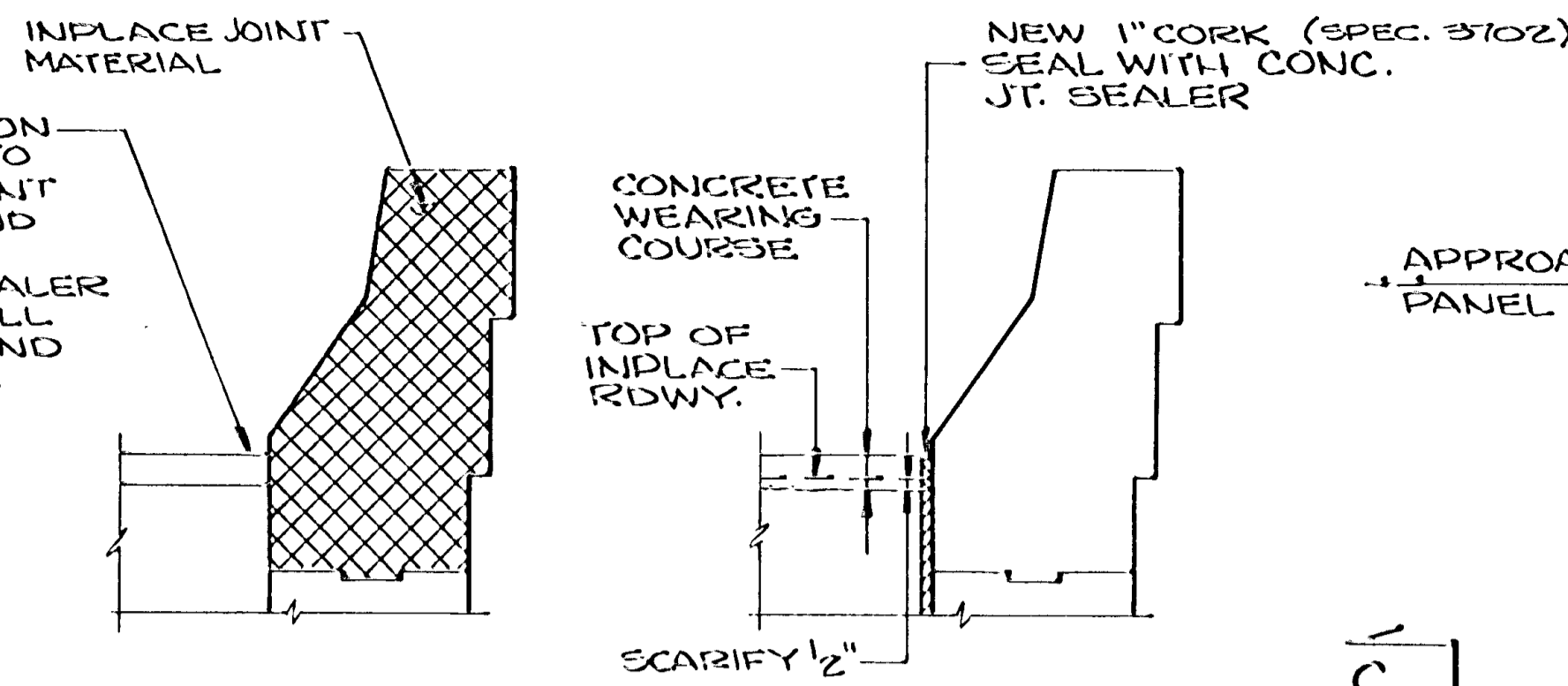


CUT COMPRESSION SEAL MITER AND SPLICE WITH AN APPROVED BONDING MATERIAL

**PLAN VIEW**  
N.W. CORNER BR. NO. 02522

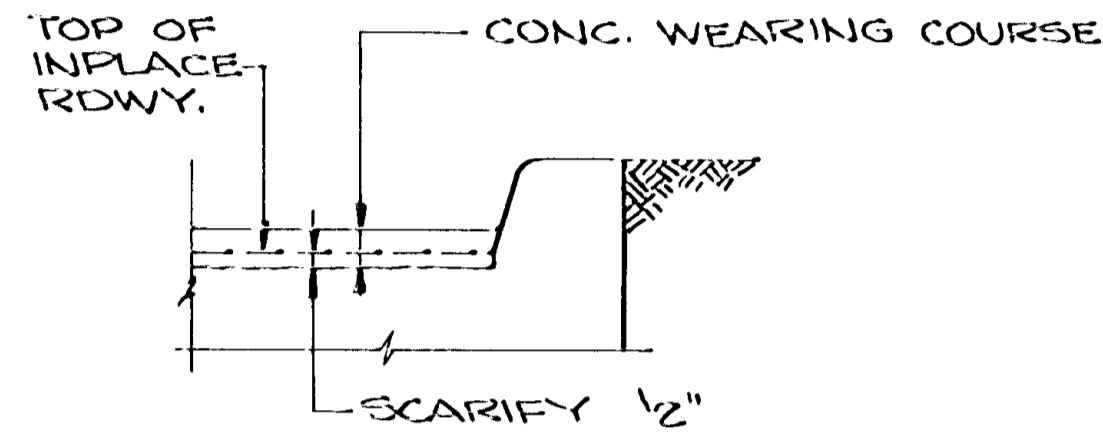


**PLAN VIEW**  
S.E. CORNER BR. NO. 02522

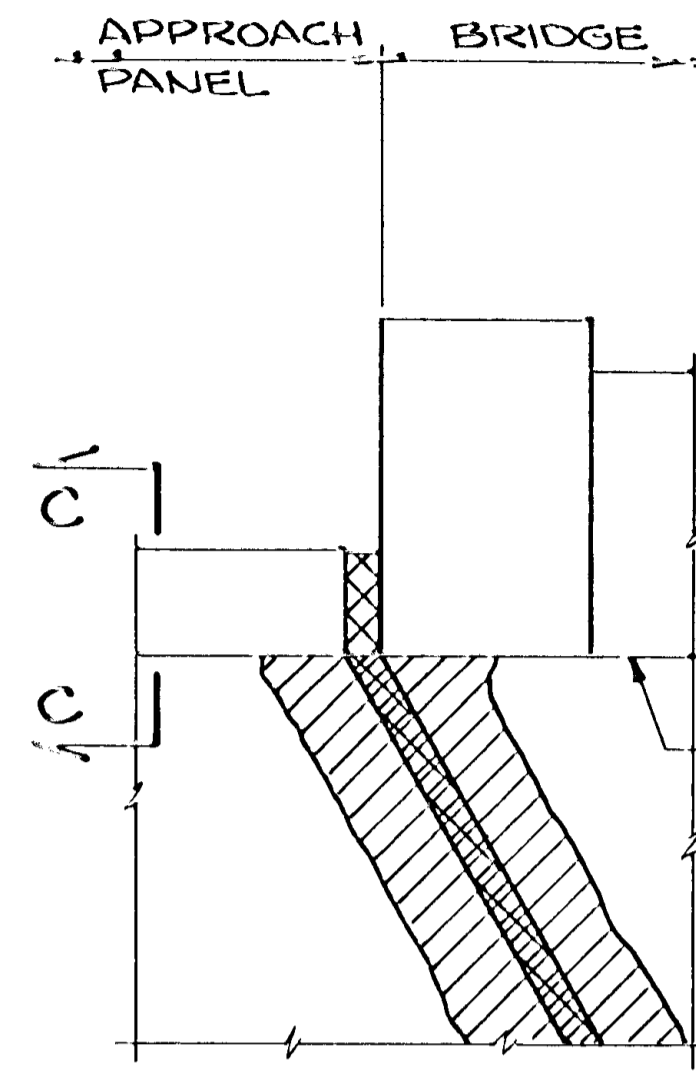


**SECTION A-A**

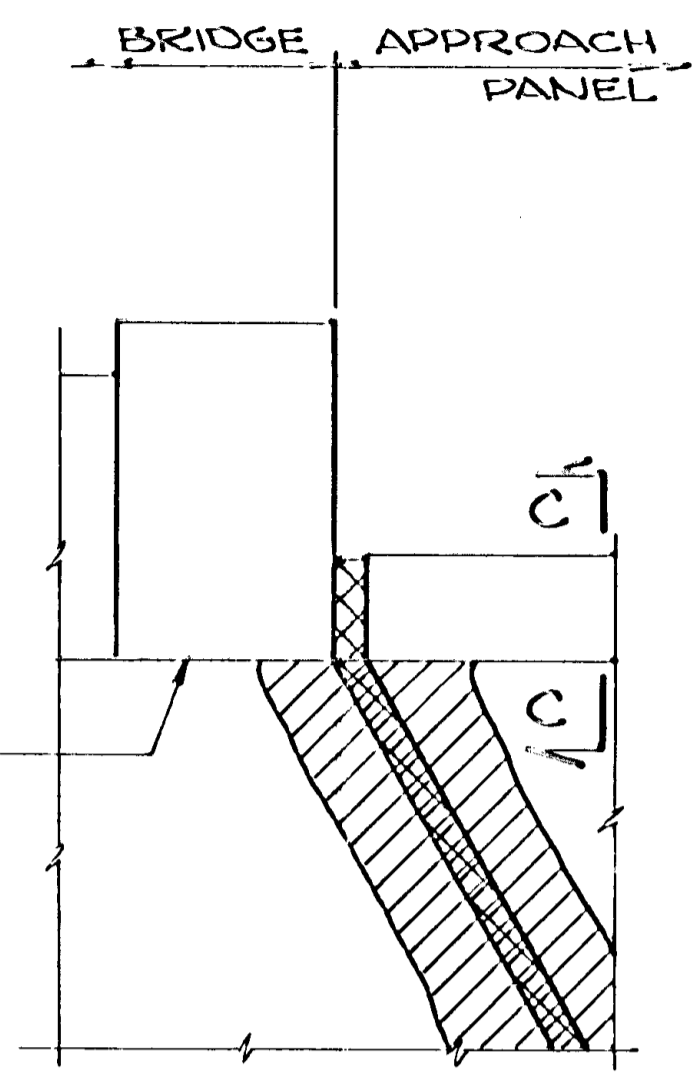
**SECTION B-B**



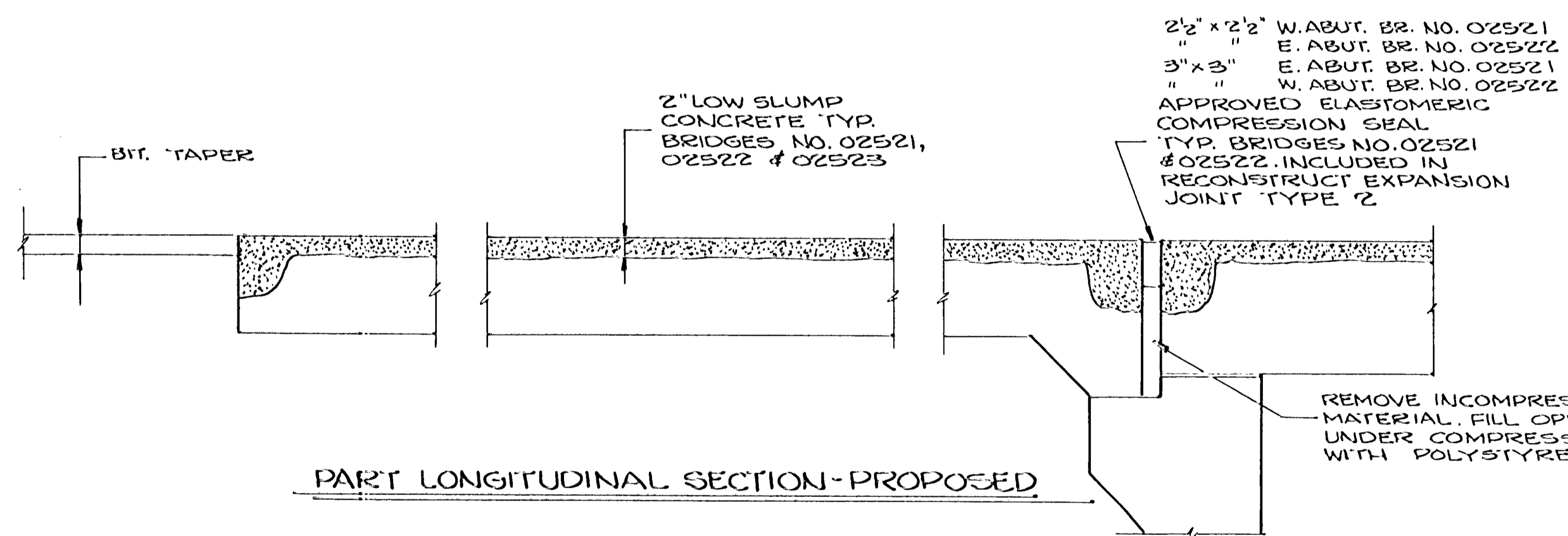
**SECTION C-C**



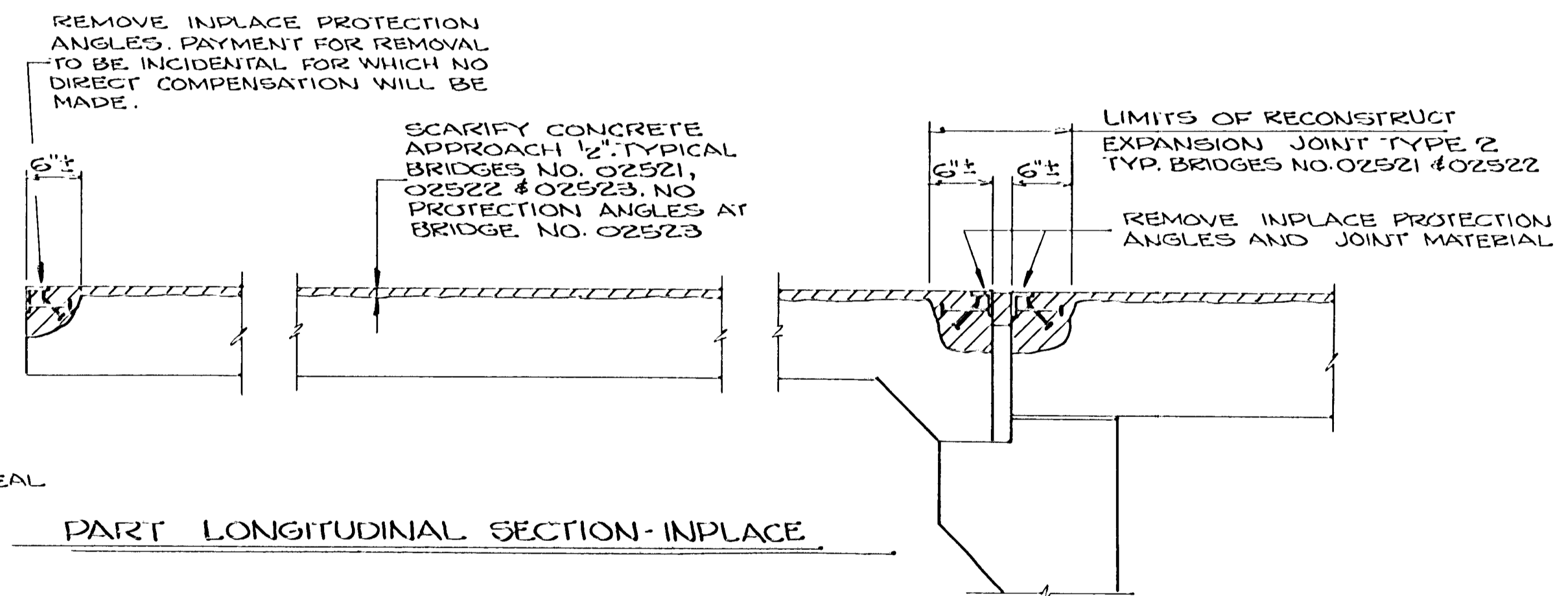
**PLAN VIEW**  
N.W. & S.E. CORNERS  
BR. NO. 02521



**PLAN VIEW**  
N.E. & S.W. CORNERS  
BR. NO. 02521 & 02522

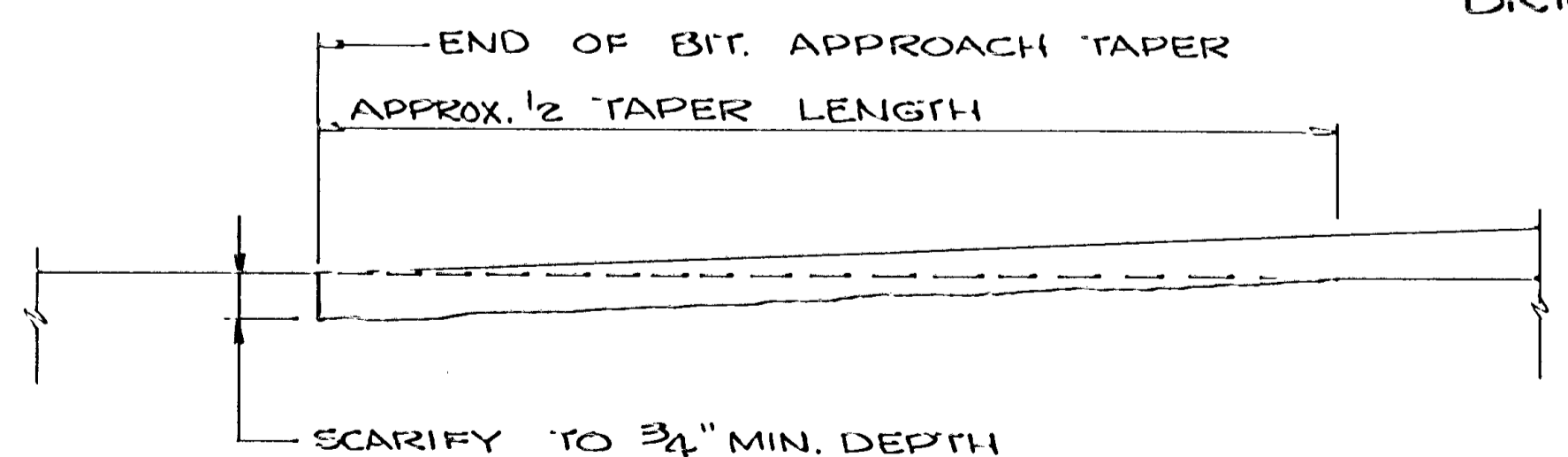


**PART LONGITUDINAL SECTION - PROPOSED**



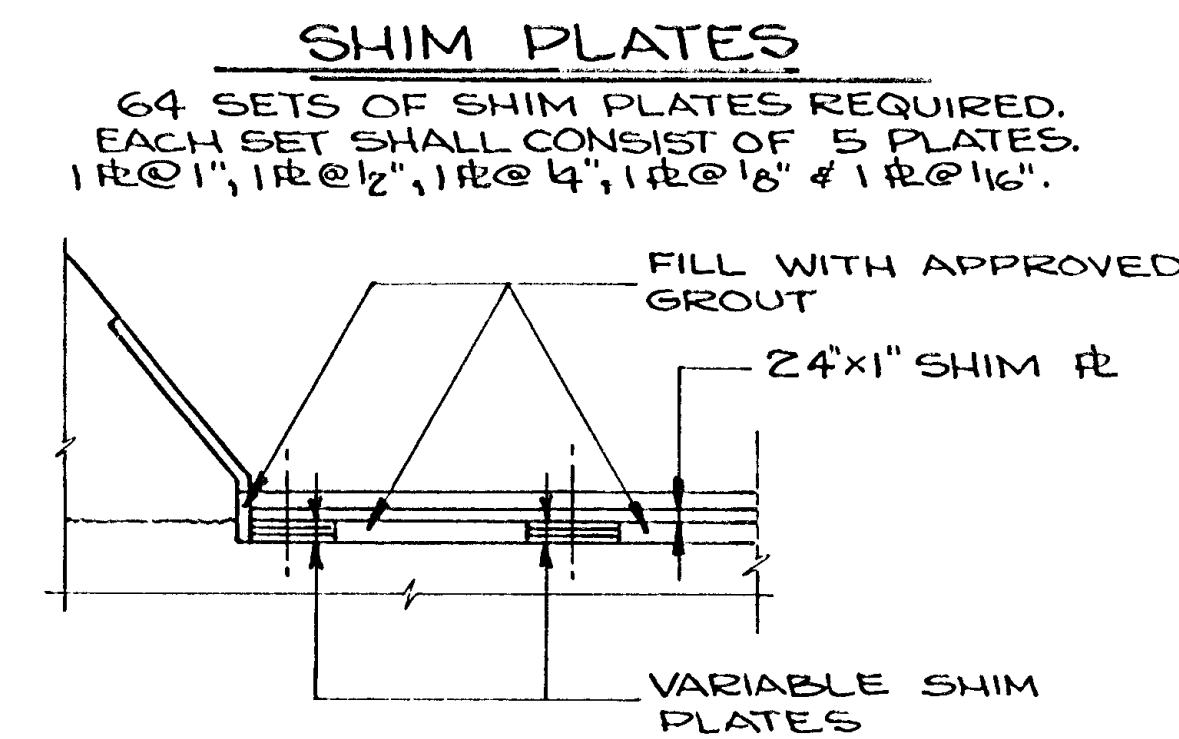
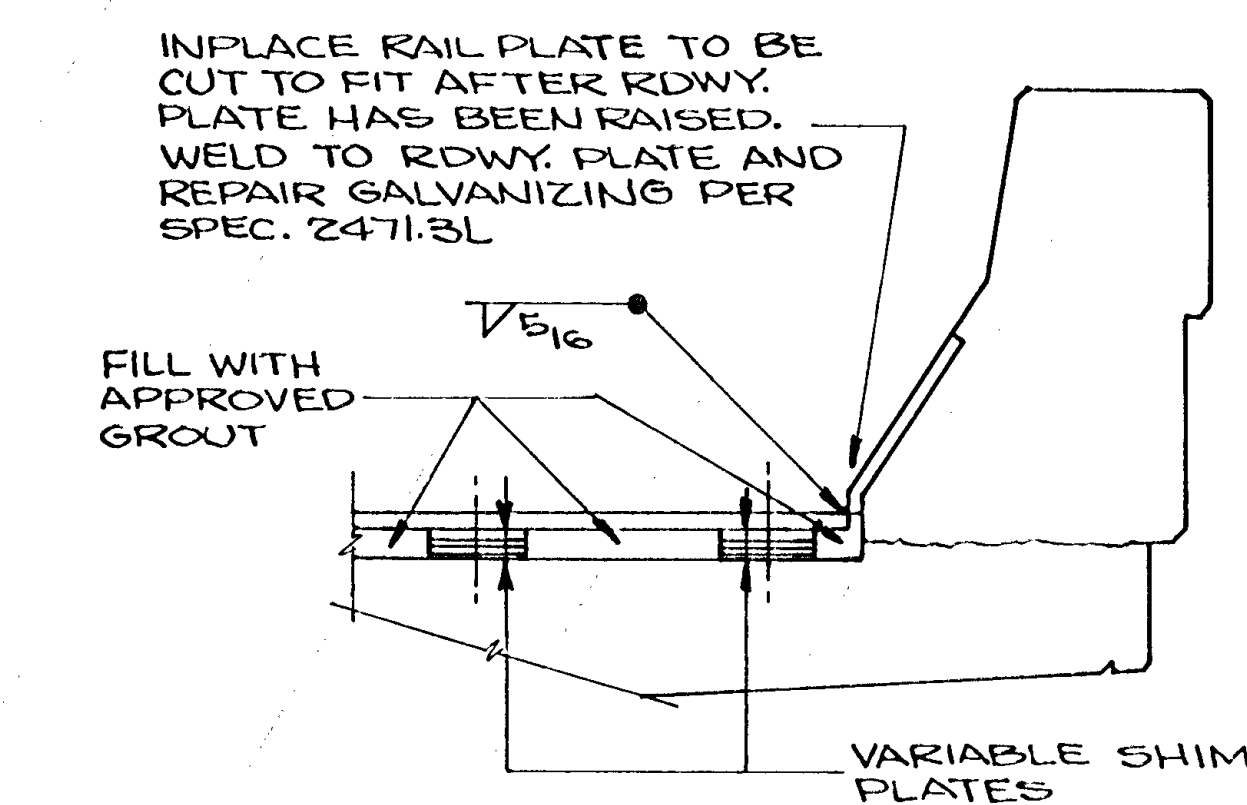
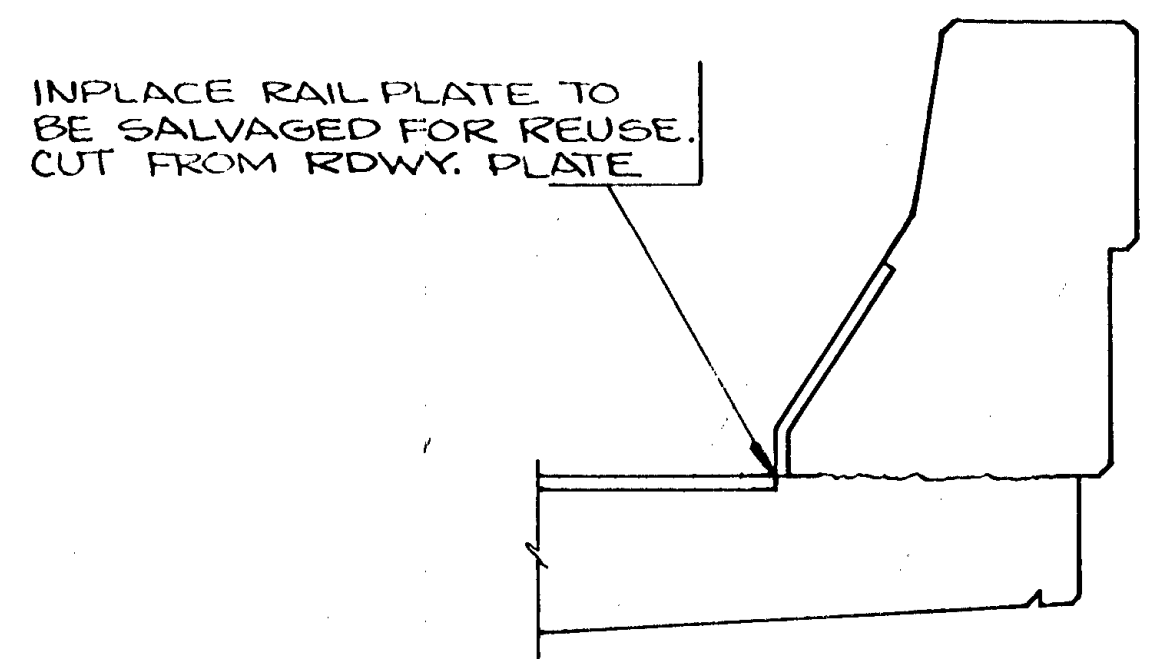
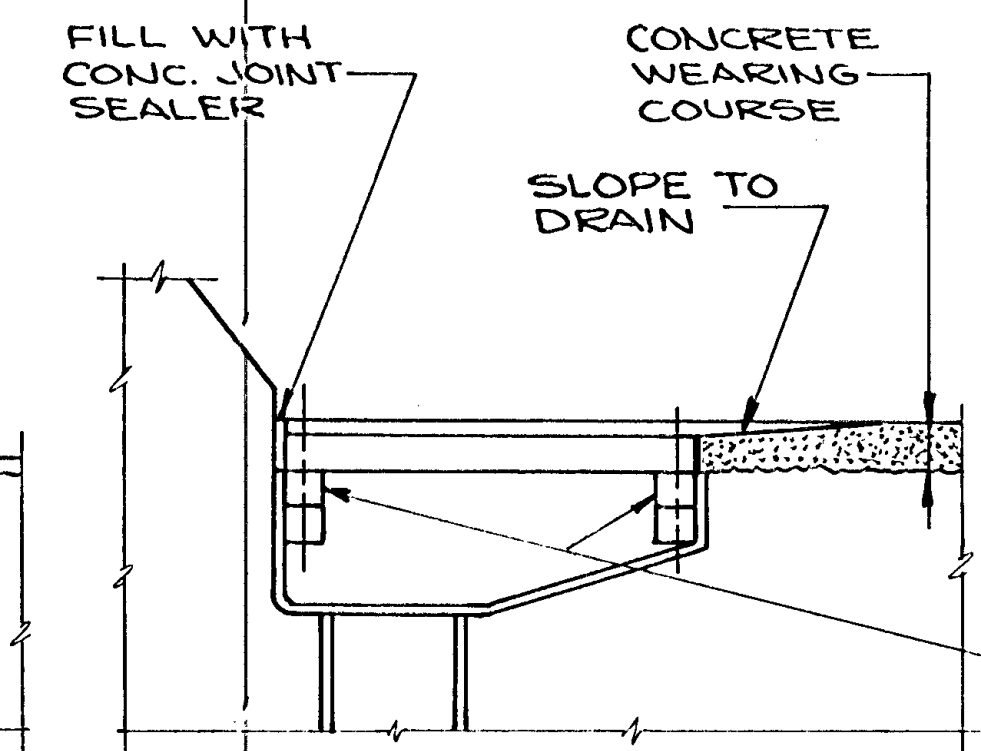
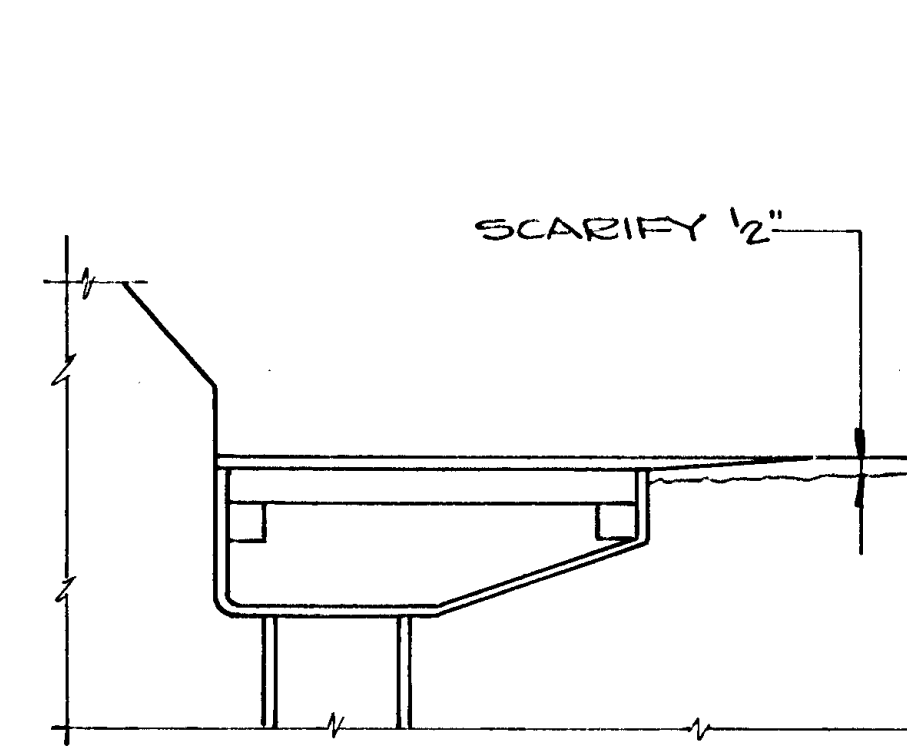
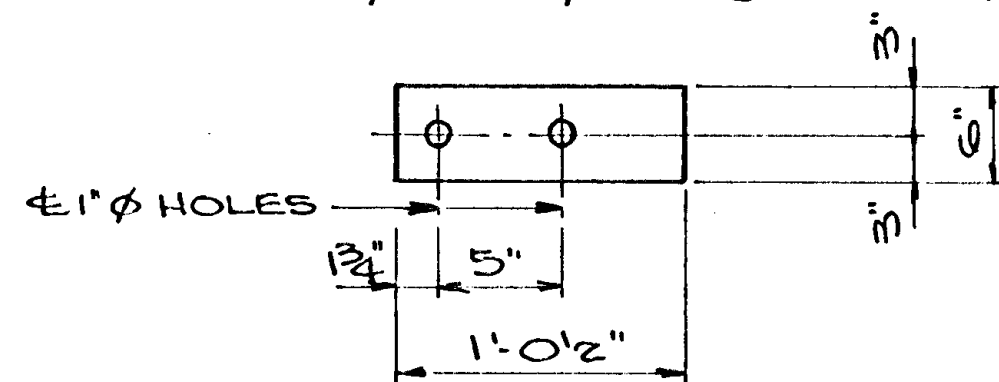
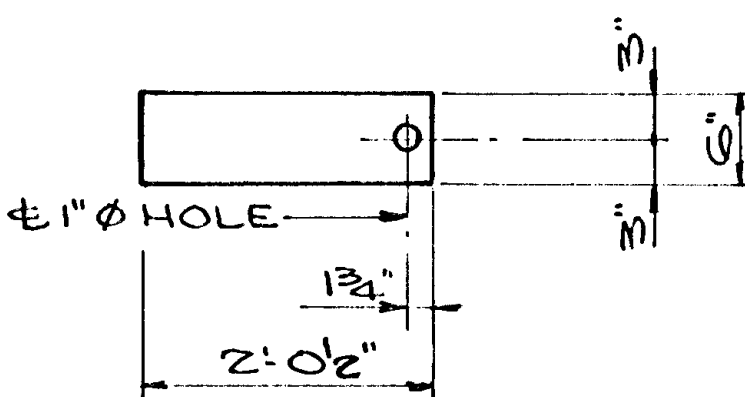
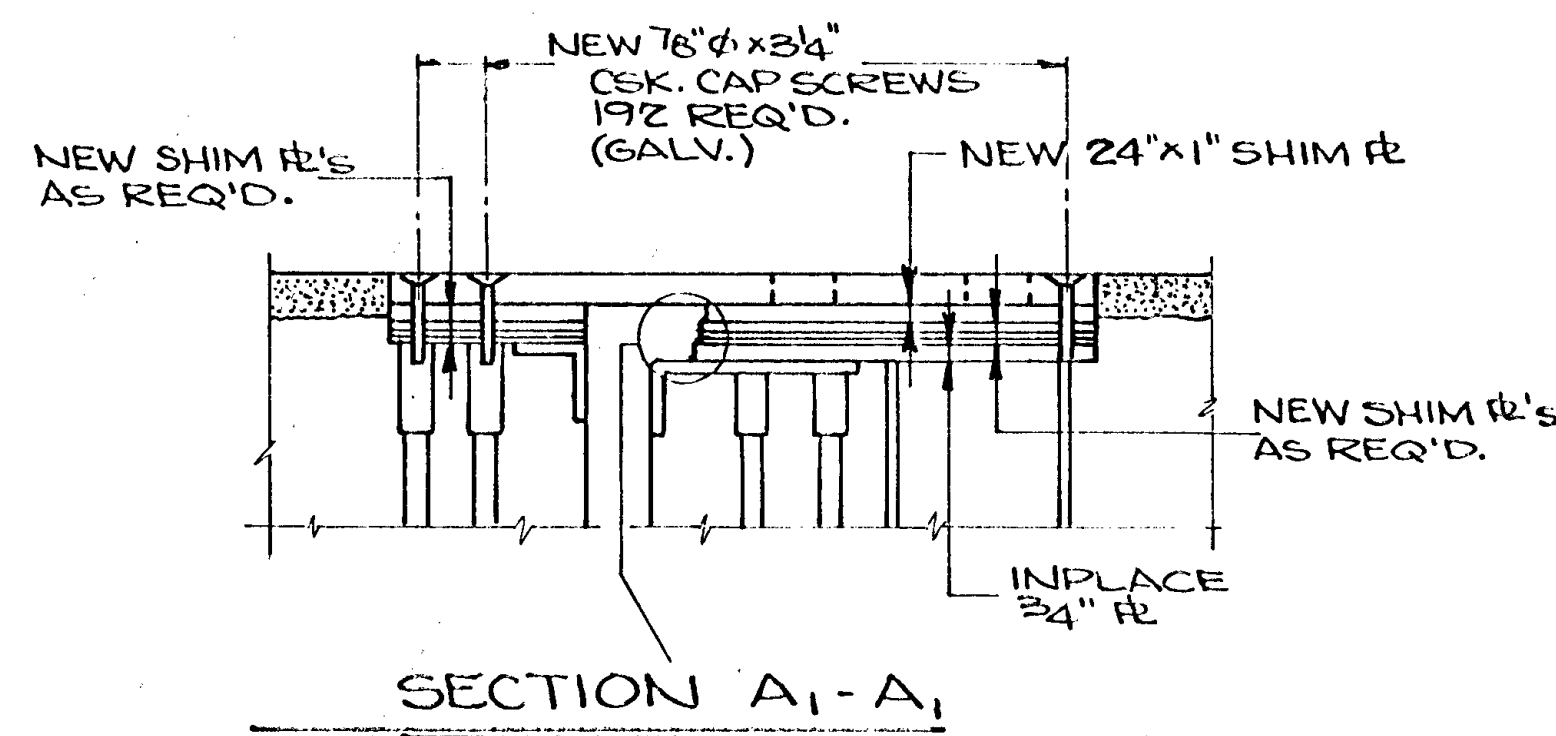
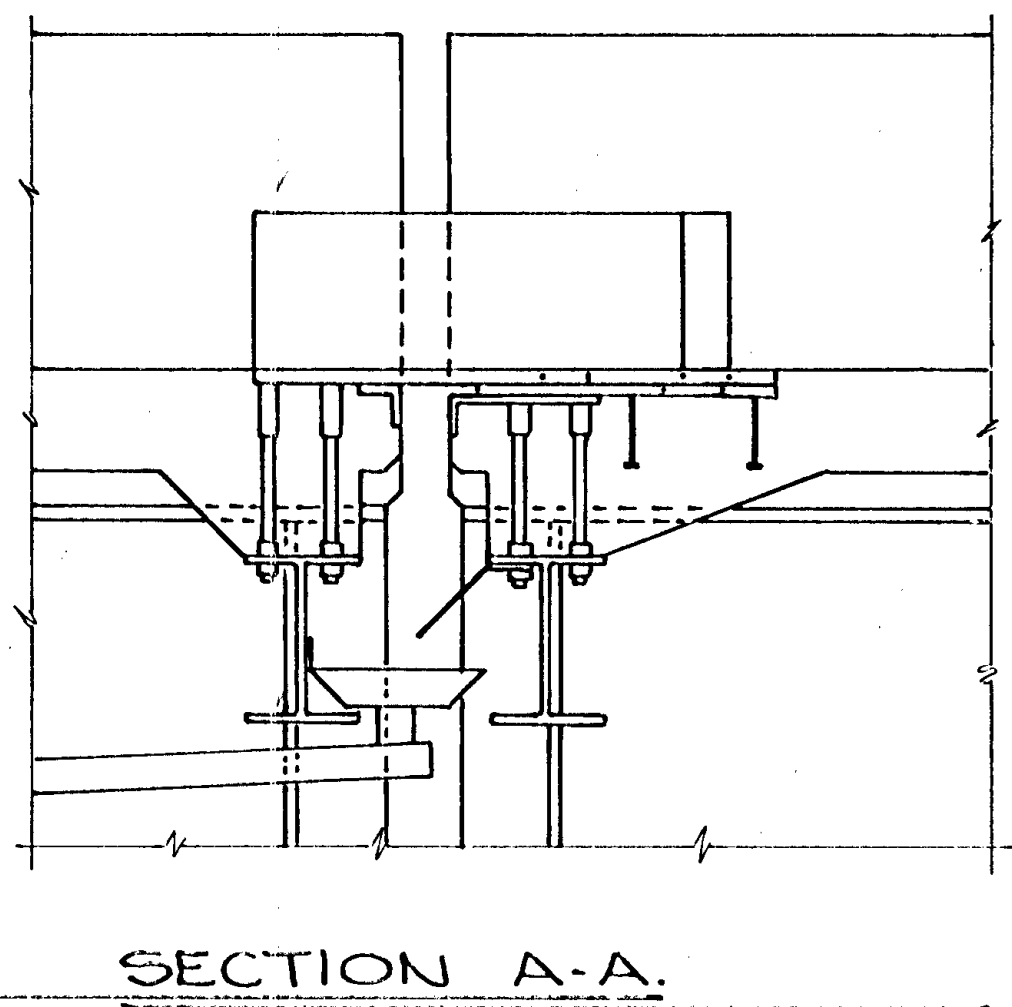
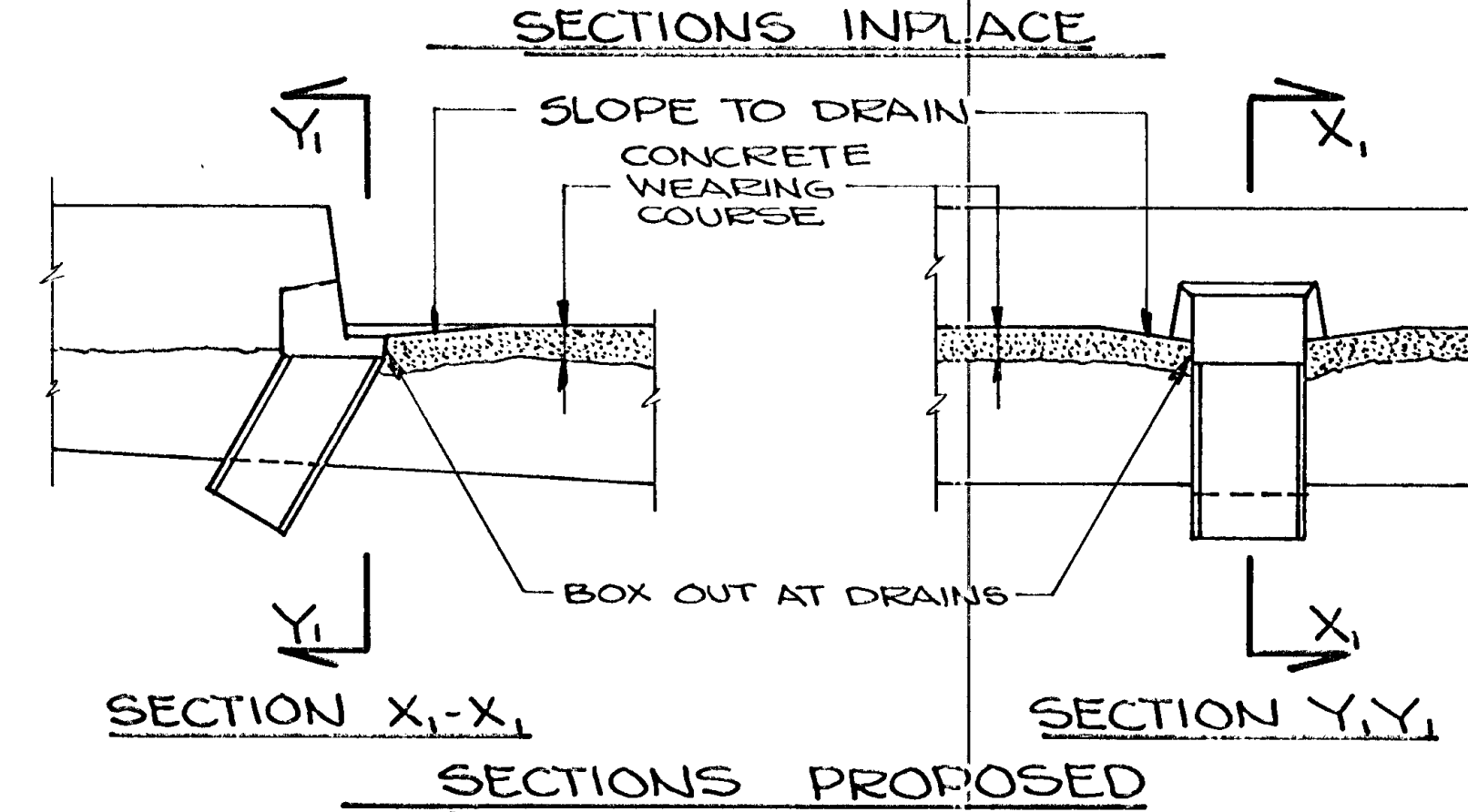
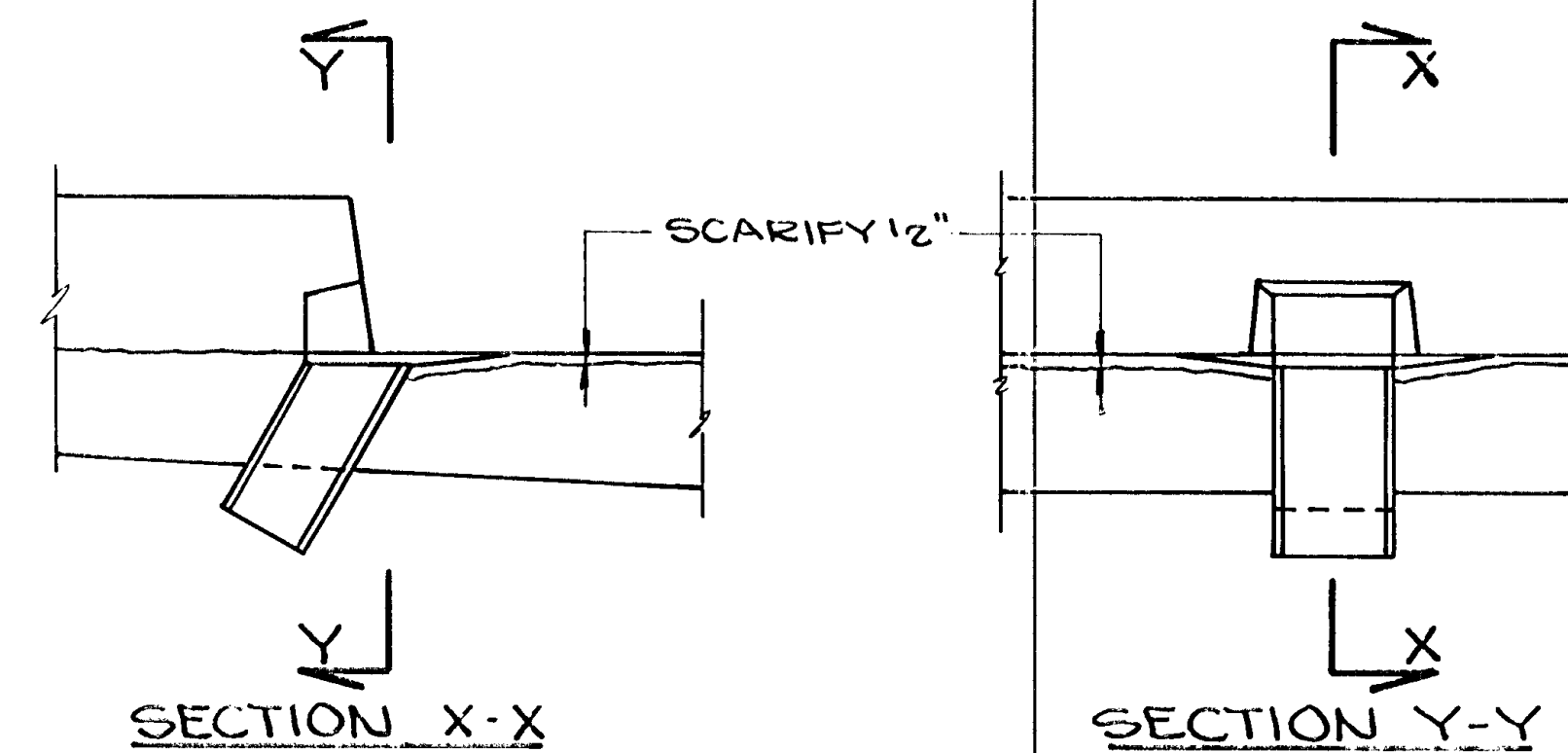
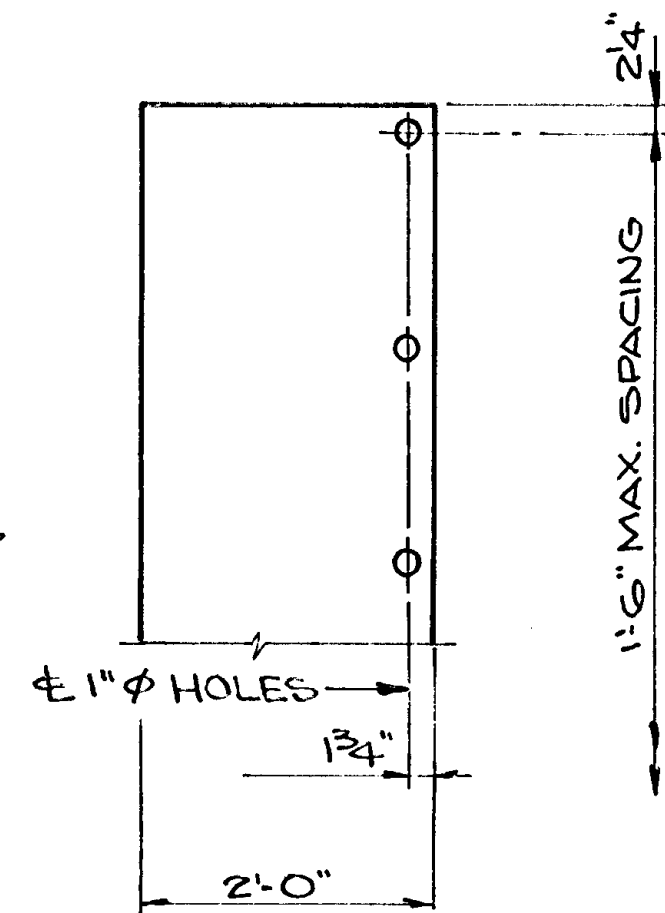
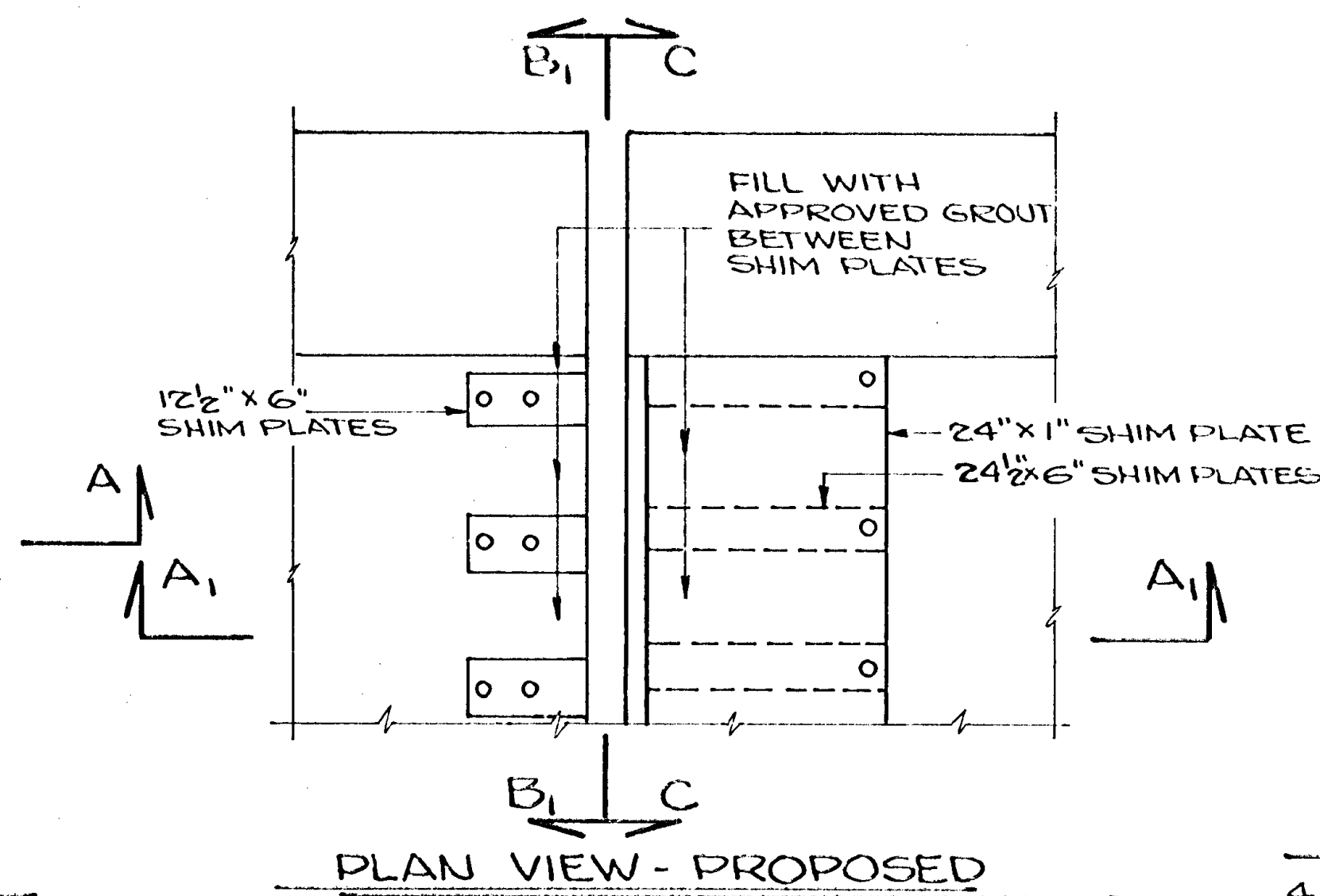
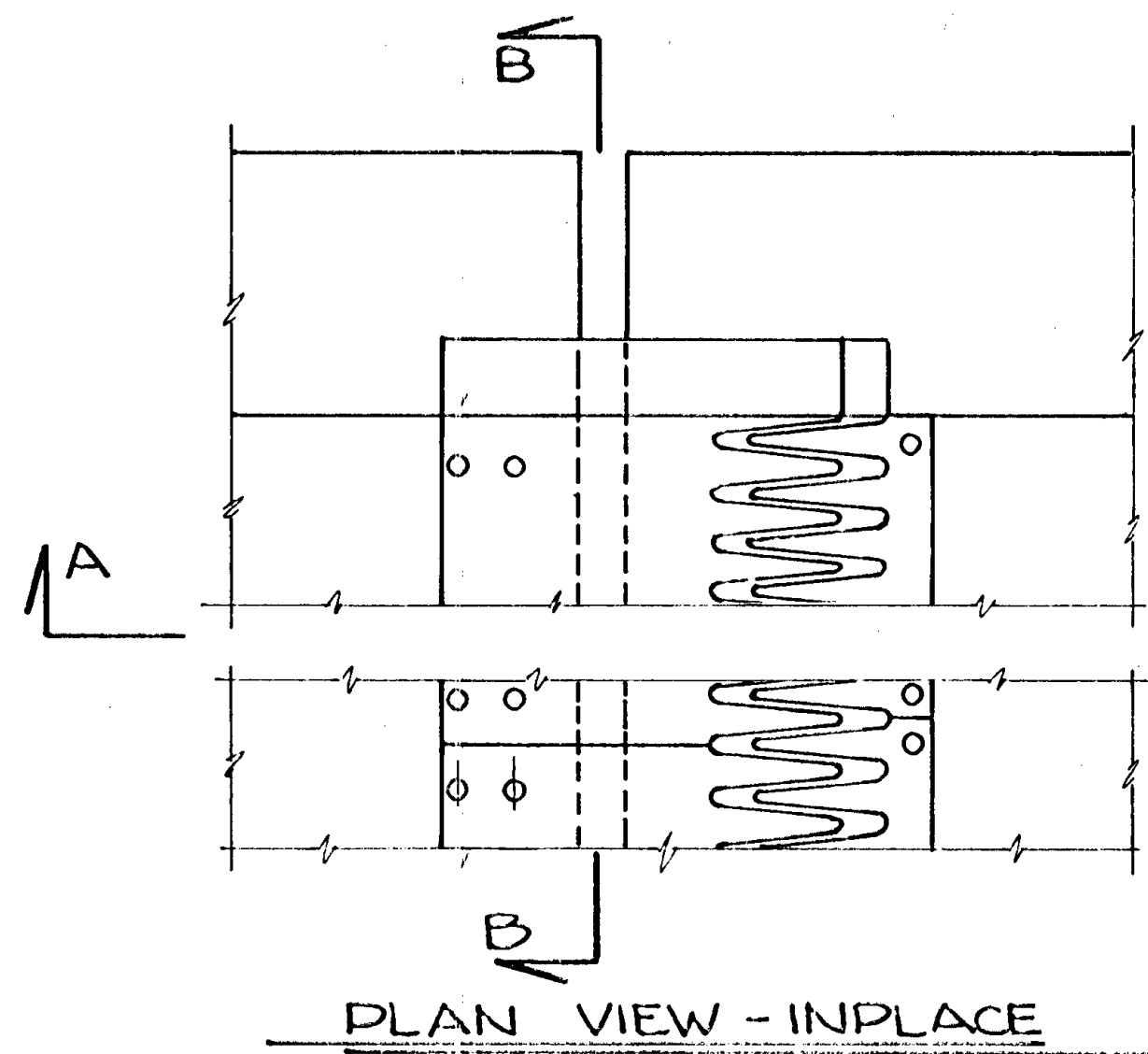
**PART LONGITUDINAL SECTION - INPLACE**

**RECONSTRUCT EXPANSION JOINT TYPE 2**  
BRIDGES NO. 02521 & 02522



**BITUMINOUS TAPER DETAIL**  
TYPICAL BRIDGES NO. 02501, 02521, 02522 & 02523

RECONSTRUCT EXPANSION JOINT TYPE 2 APPROACH OVERLAY & TAPER DETAILS		DES:	DR: R.H.	APPROVED:	BRIDGE NO. 02501 02521 02522 02523
		CHK:	CHK:		
		SHEET NO. 7 of 10 SHEETS			

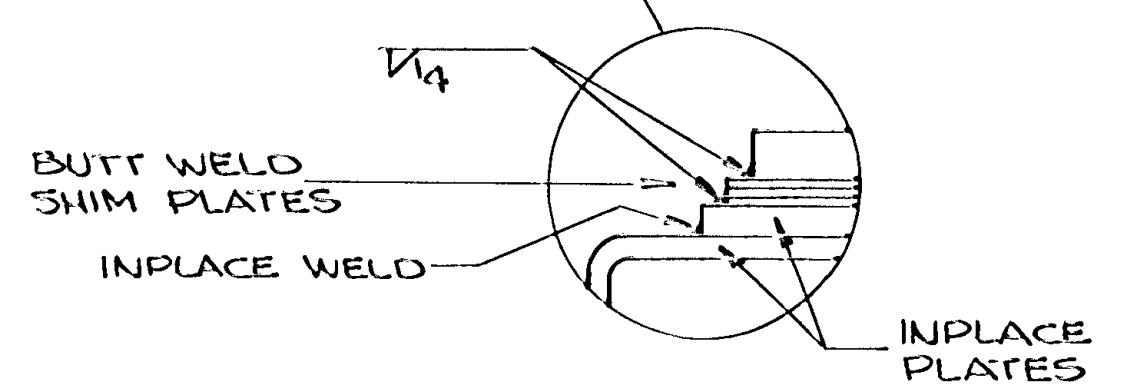
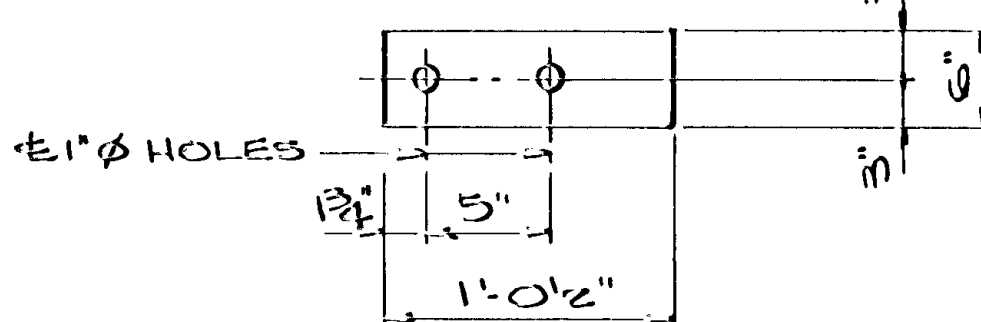
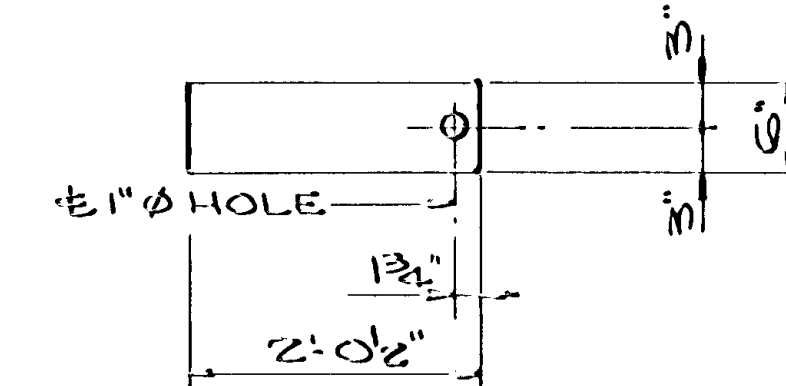
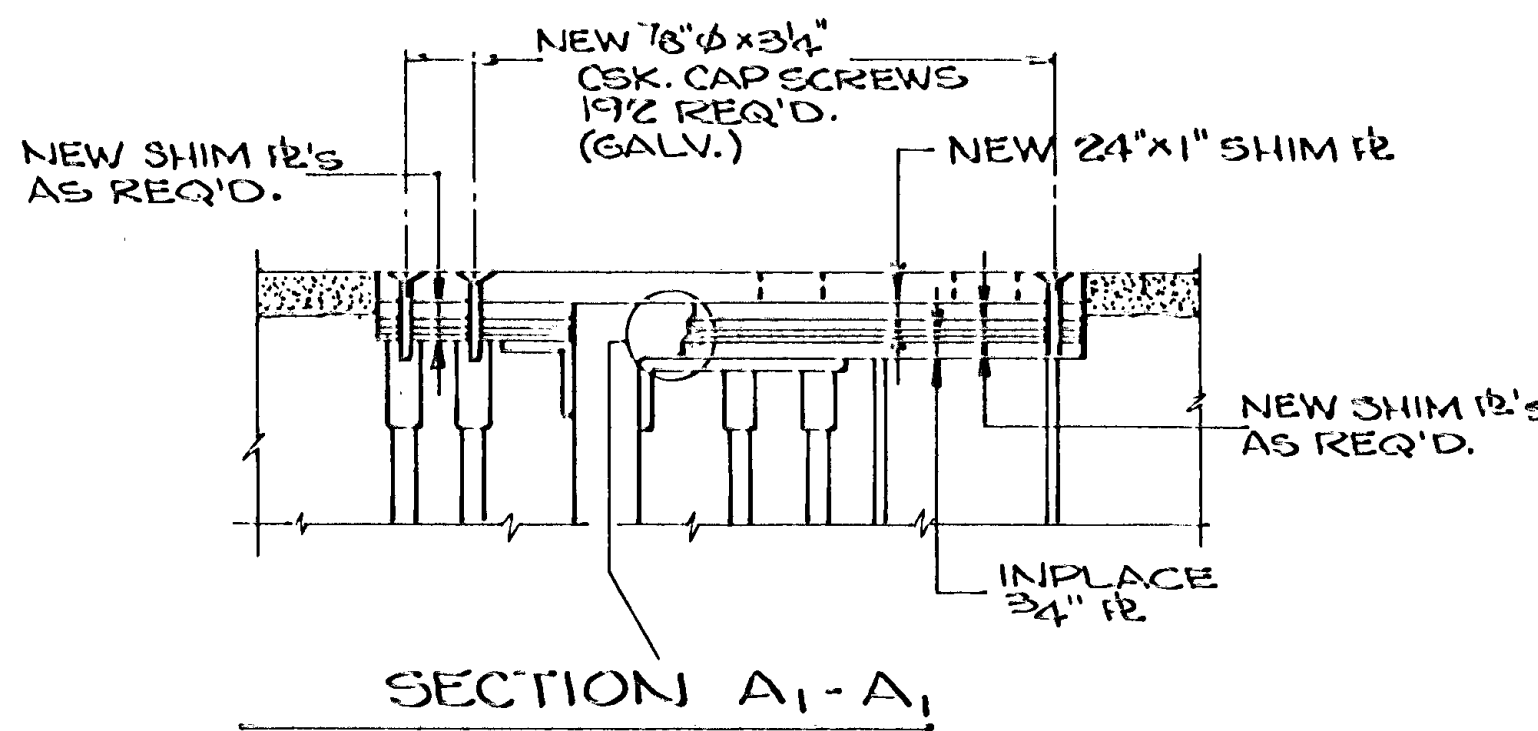
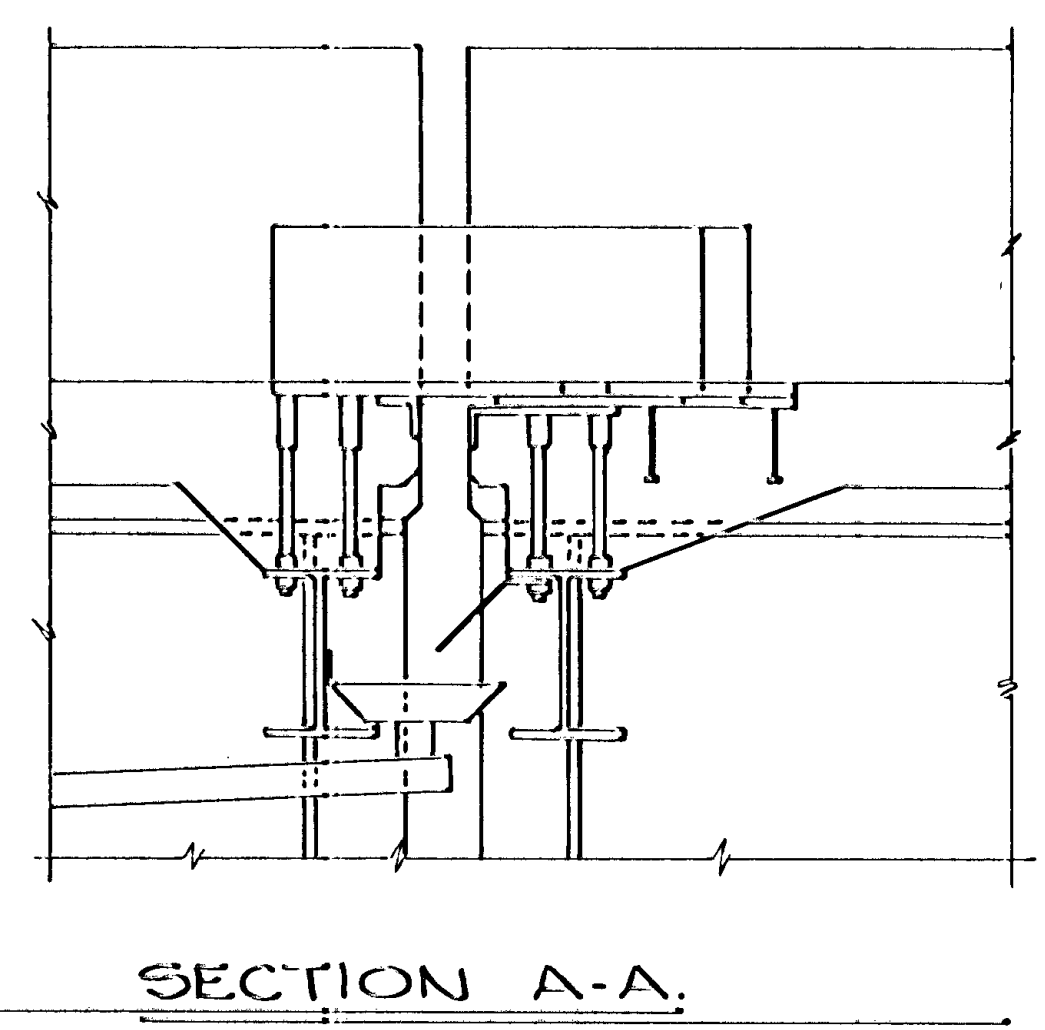
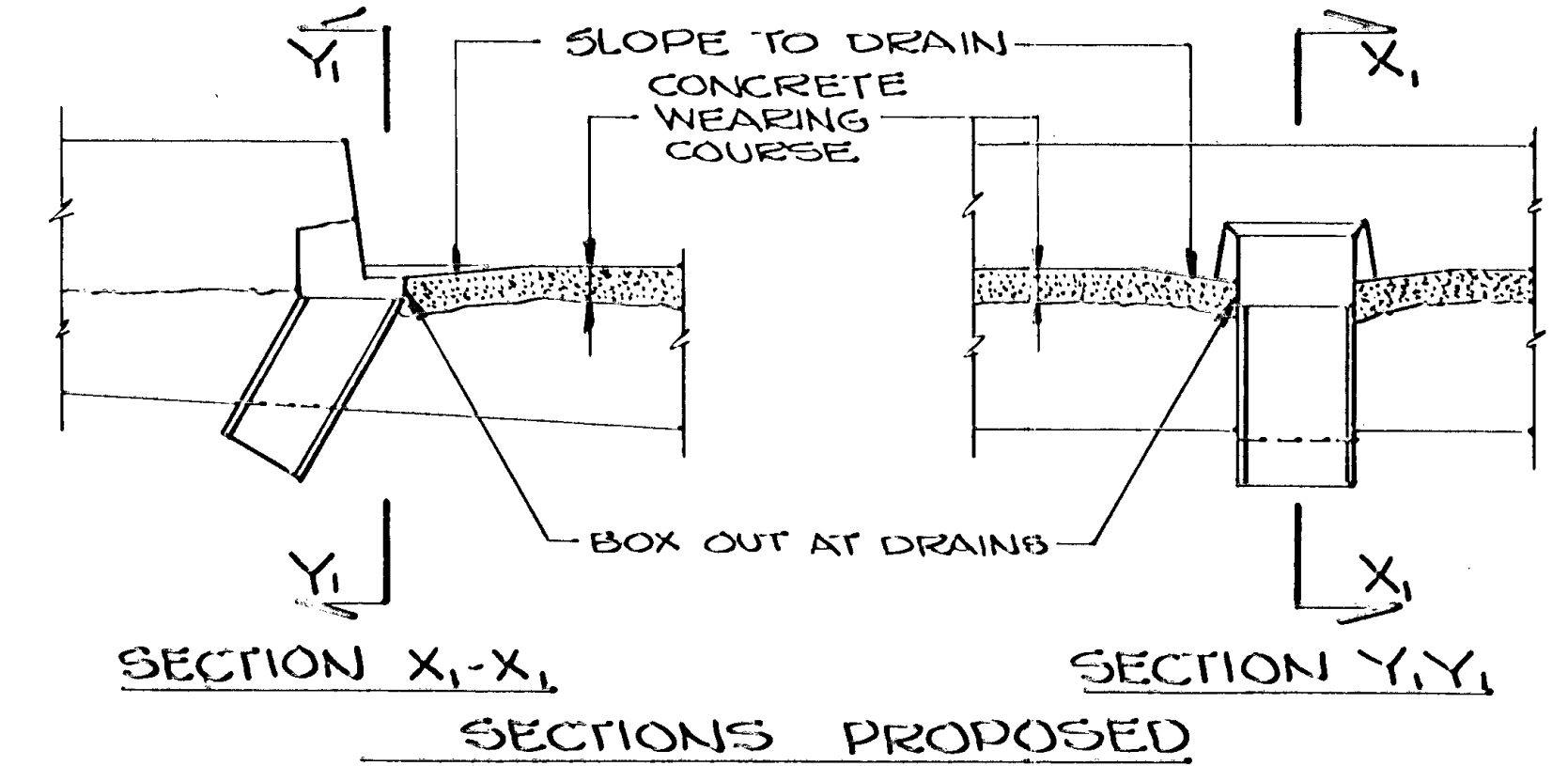
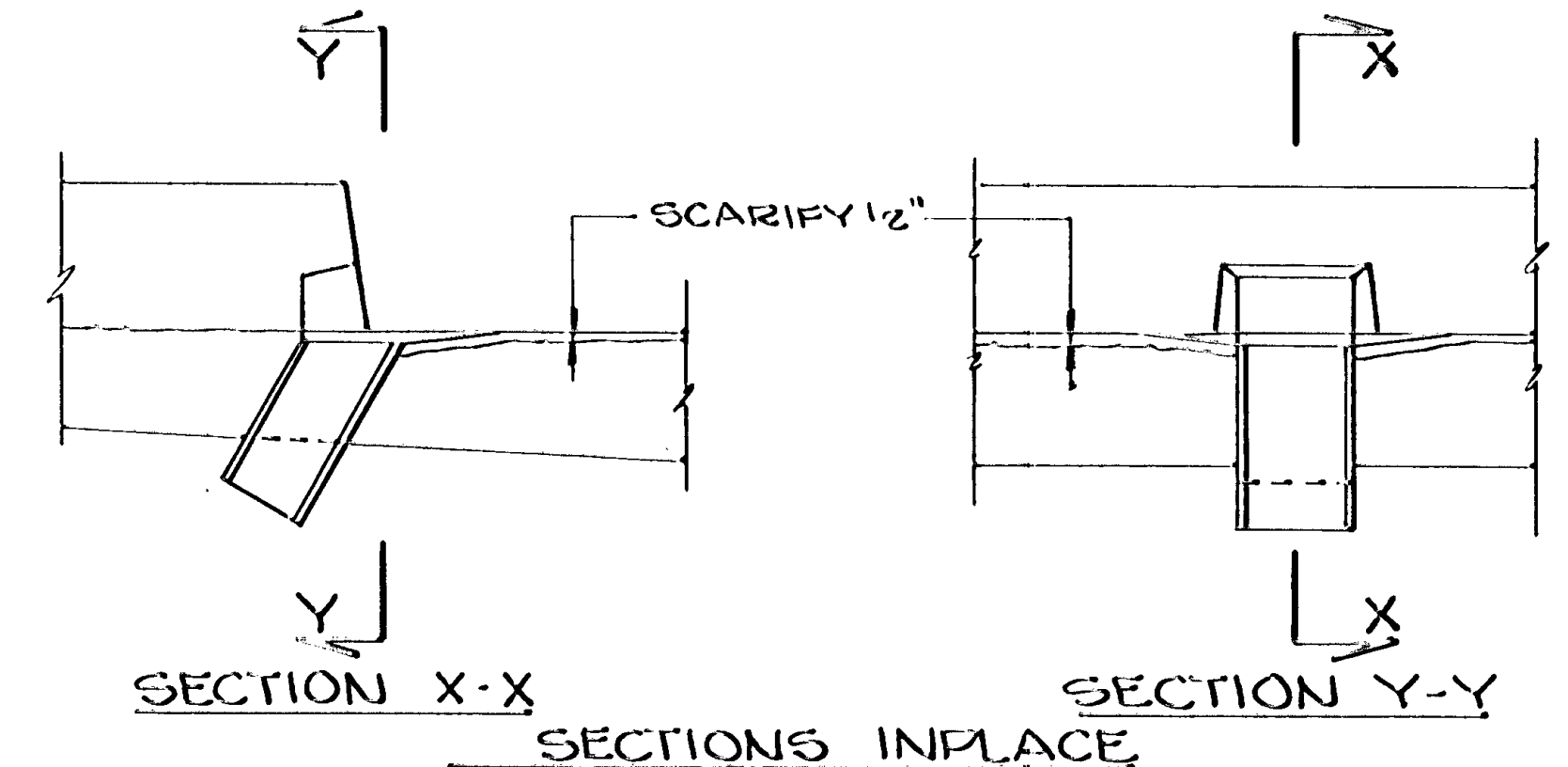
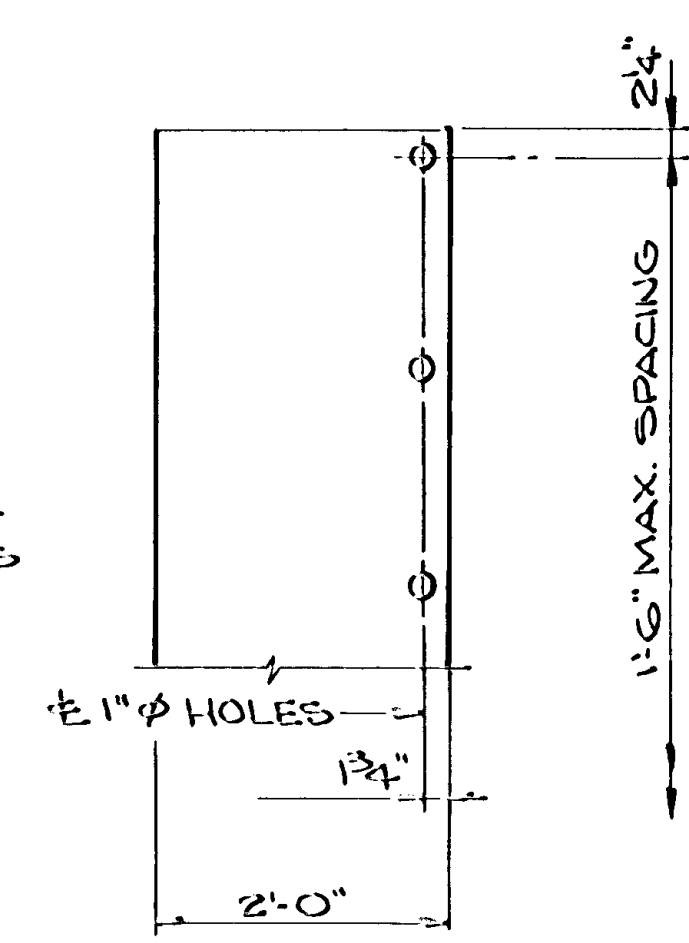
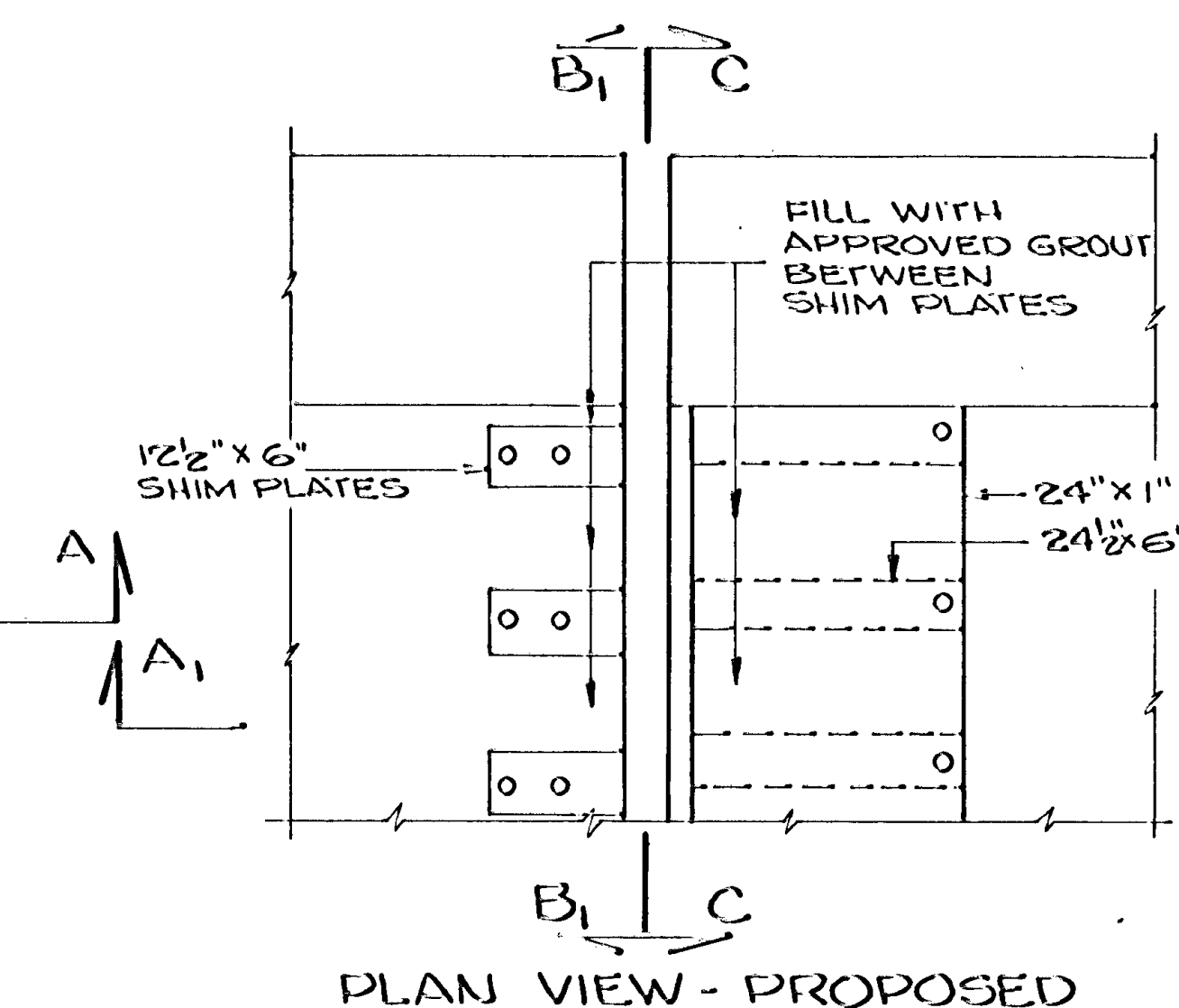
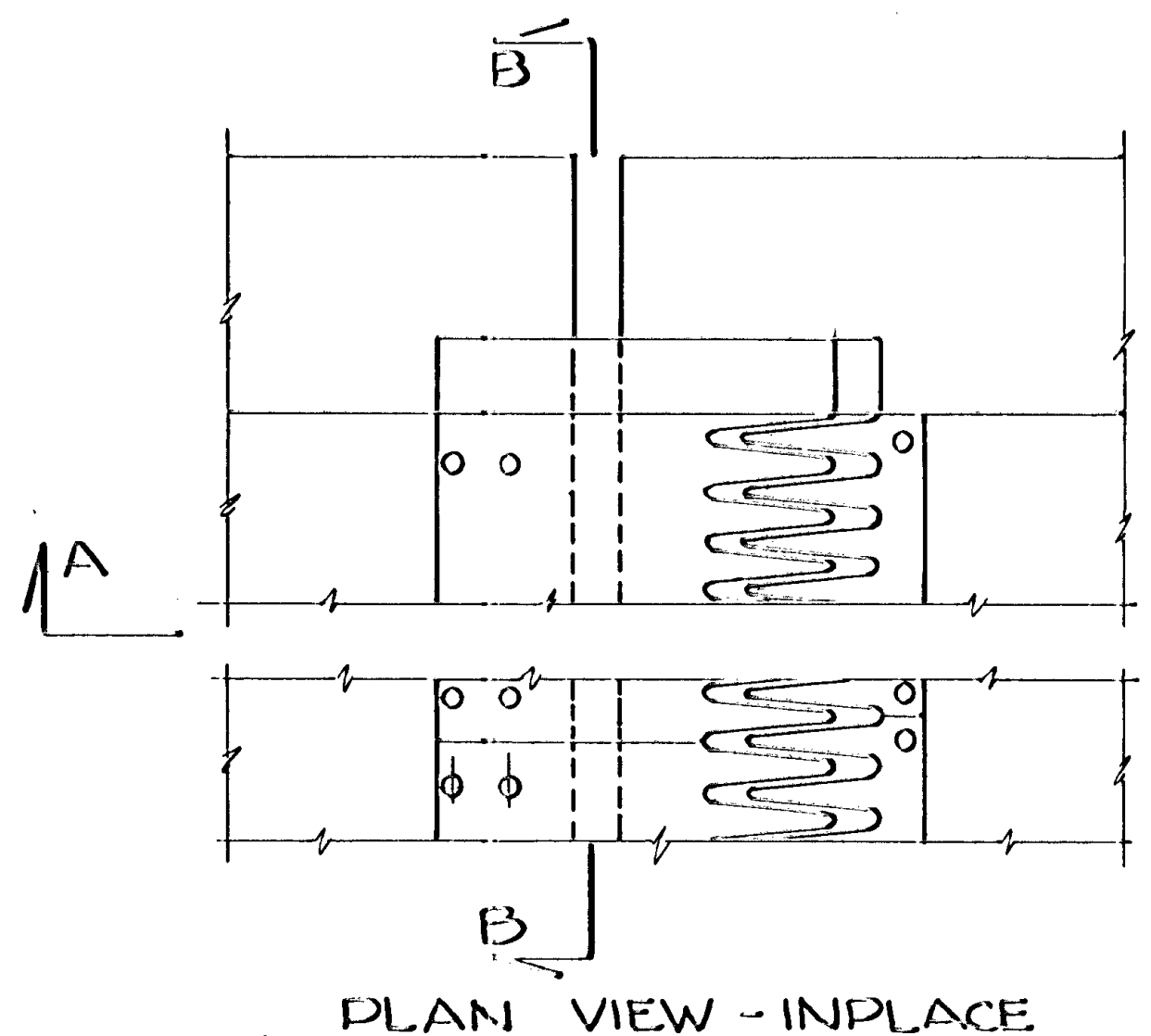


FLOOR DRAIN DETAILS for BRIDGE NO. 02523

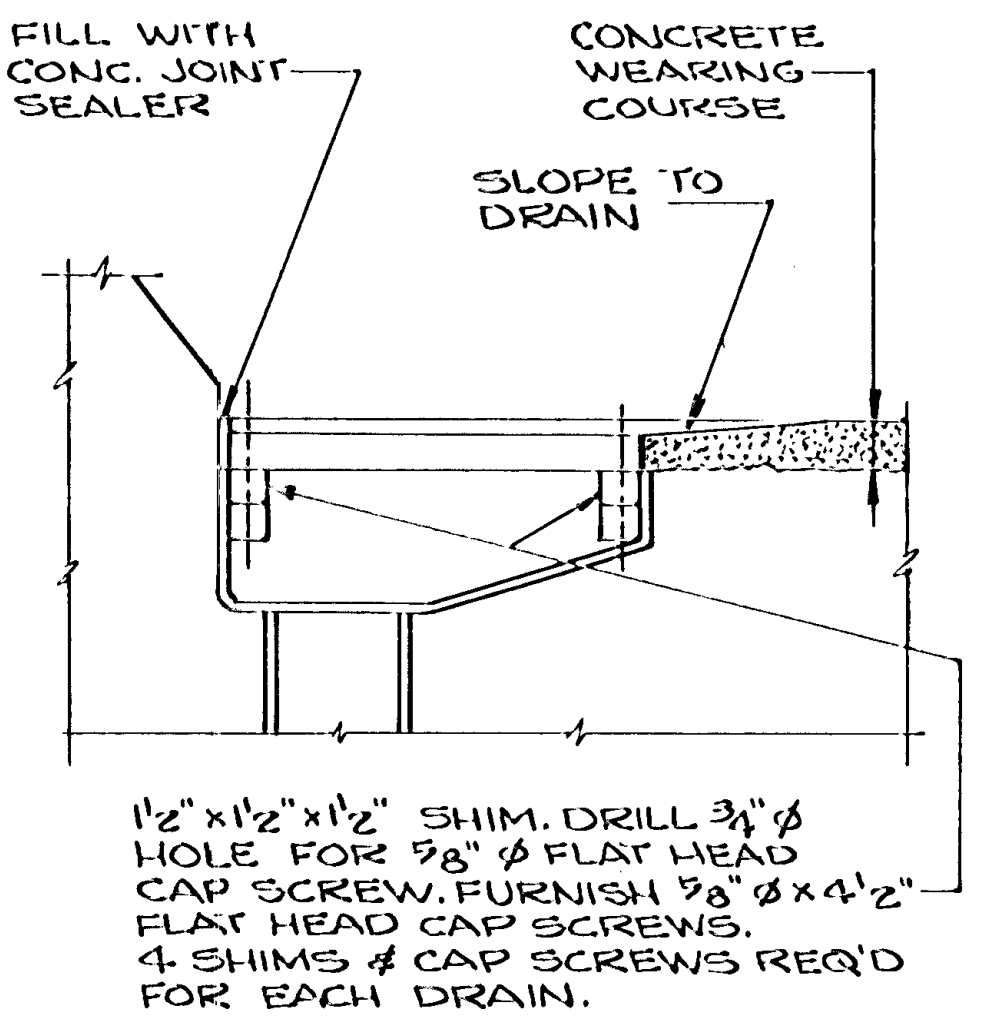
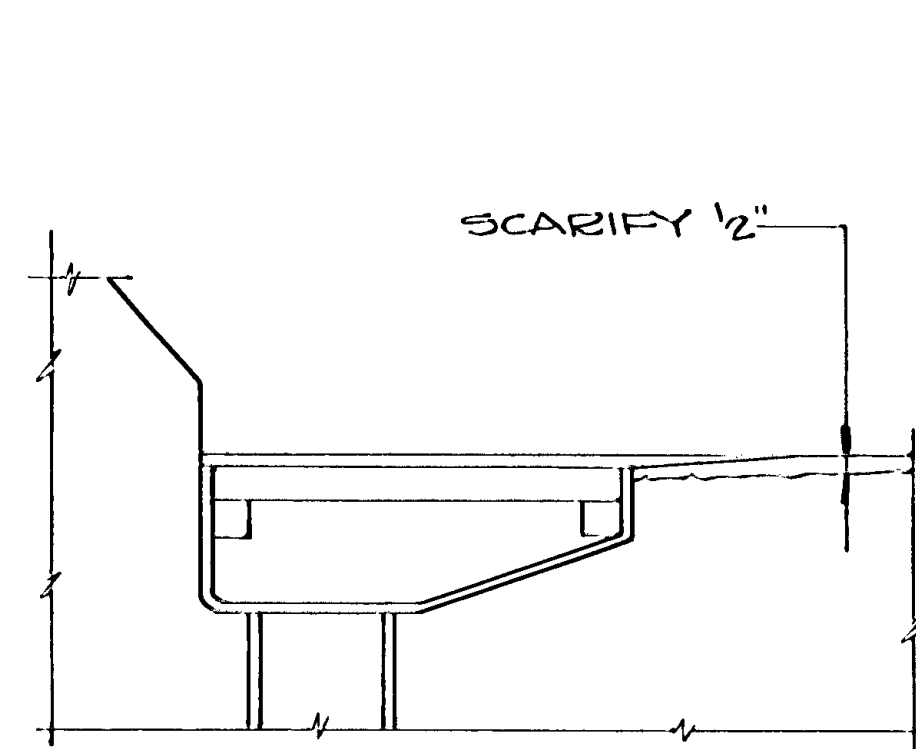
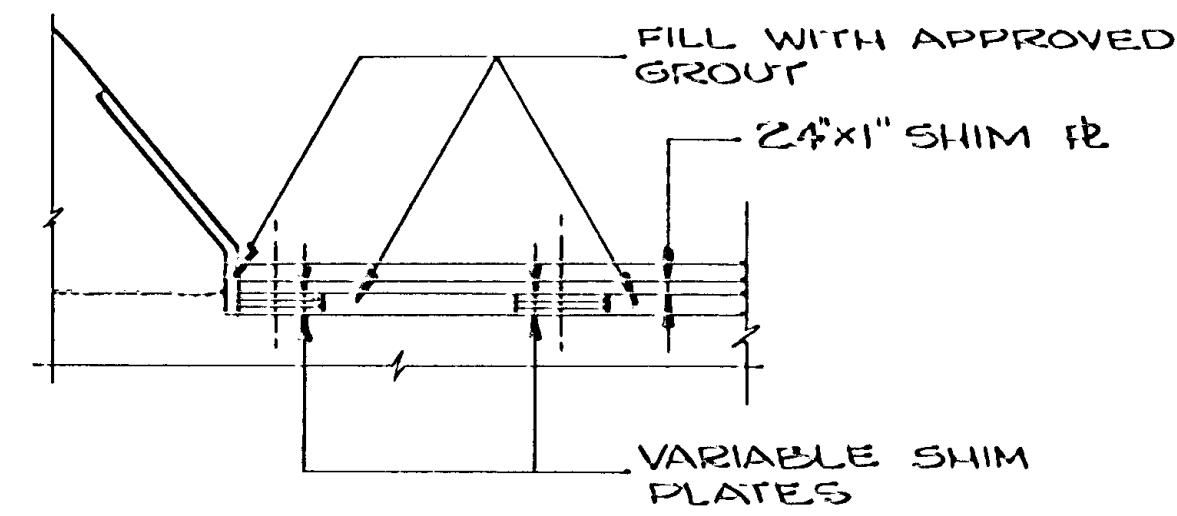
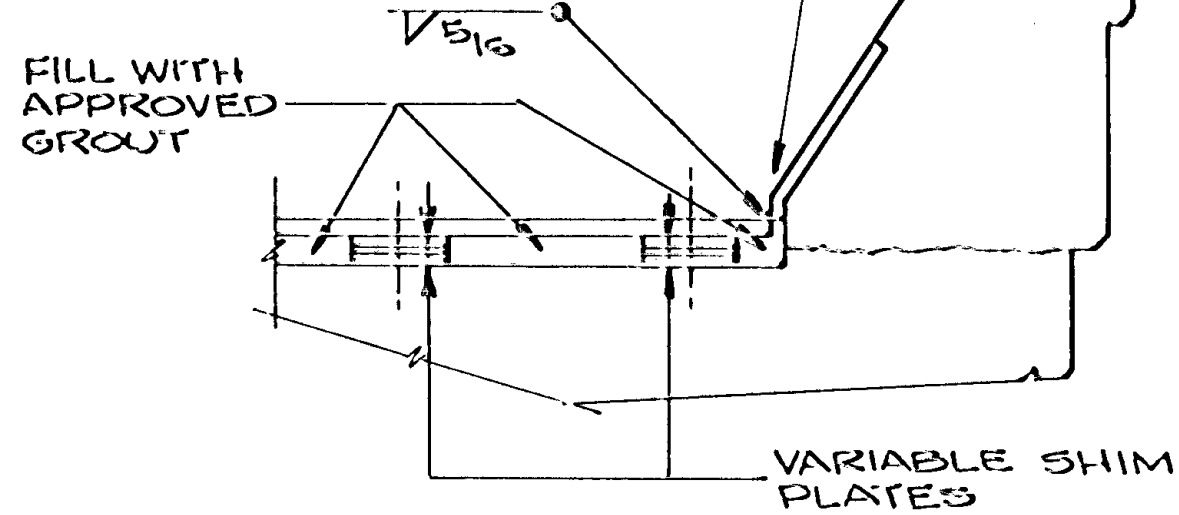
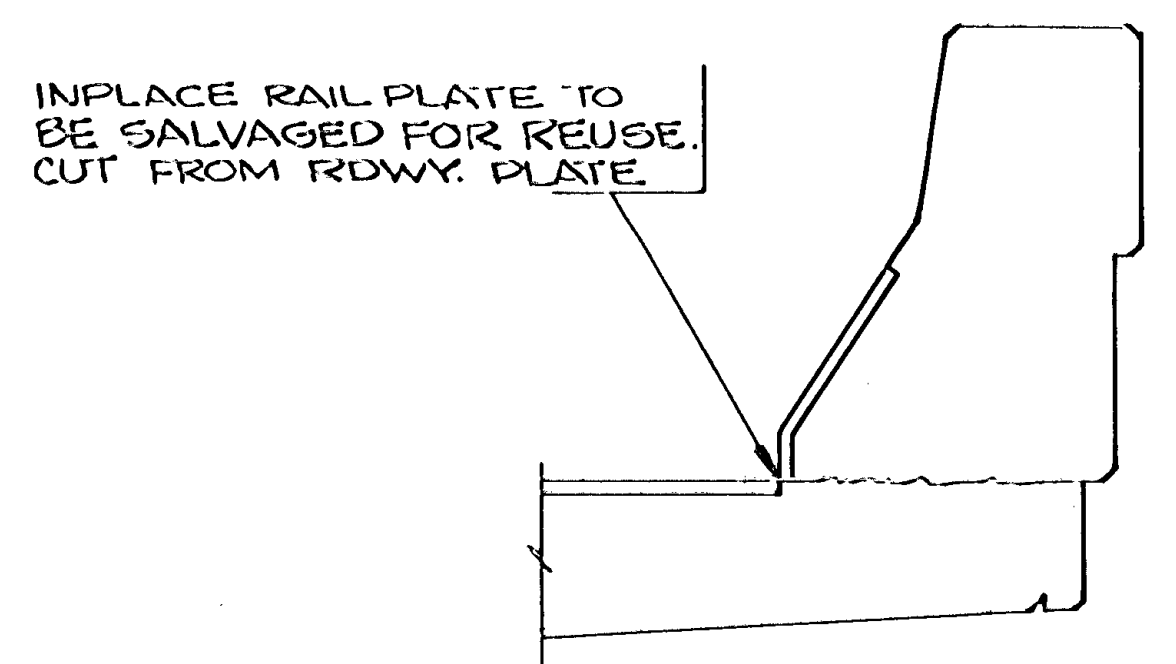
ALL NEW PLATES SHALL COMPLY WITH SPEC. 3306. GALVANIZE PER SPEC. 3394. SHIM PLATES NOT USED SHALL BECOME PROPERTY OF THE COUNTY. SHIM PLATES & NEW BOLTS ARE INCLUDED IN PRICE BID FOR RECONSTRUCT EXPANSION JOINT TYPE 3

RECONSTRUCT EXPANSION JOINT TYPE 3  
BRIDGE NO. 02523

DES:	DR: R.H.	APPROVED:	BRIDGE NO.
CHK:	CHK:		02523
SHEET NO. 8 of 10 SHEETS			02501



INPLACE RAIL PLATE TO BE CUT TO FIT AFTER RDWY. PLATE HAS BEEN RAISED. WELD TO RDWY. PLATE AND REPAIR GALVANIZING PER SPEC. 2471.3L

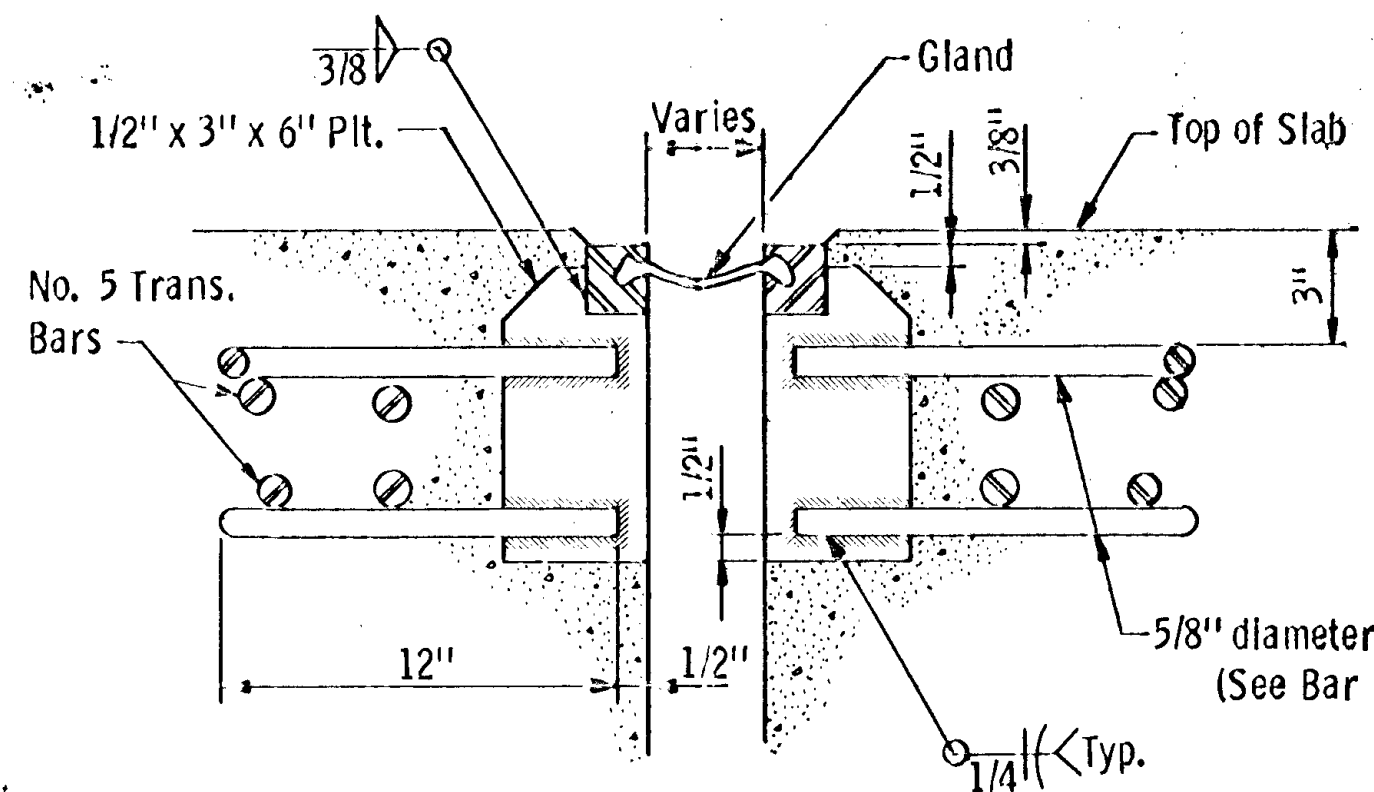


FLOOR DRAIN DETAILS for BRIDGE NO. 02523

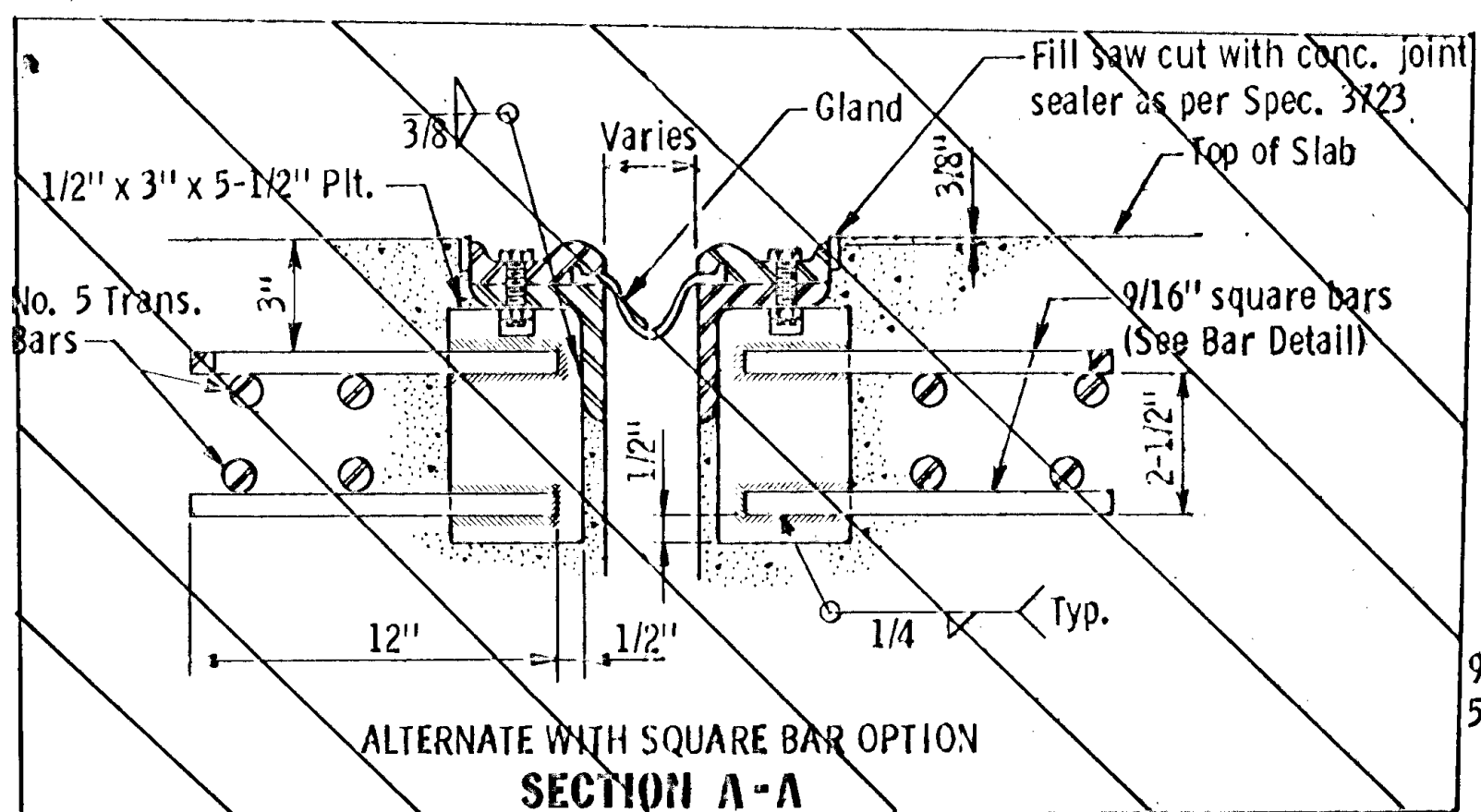
ALL NEW PLATES SHALL COMPLY WITH SPEC. 3306. GALVANIZE PER SPEC. 3394. SHIM PLATES NOT USED SHALL BECOME PROPERTY OF THE COUNTY. SHIM PLATES & NEW BOLTS ARE INCLUDED IN PRICE BID FOR RECONSTRUCT EXPANSION JOINT TYPE 3

RECONSTRUCT EXPANSION JOINT TYPE 3  
BRIDGE NO. 02523

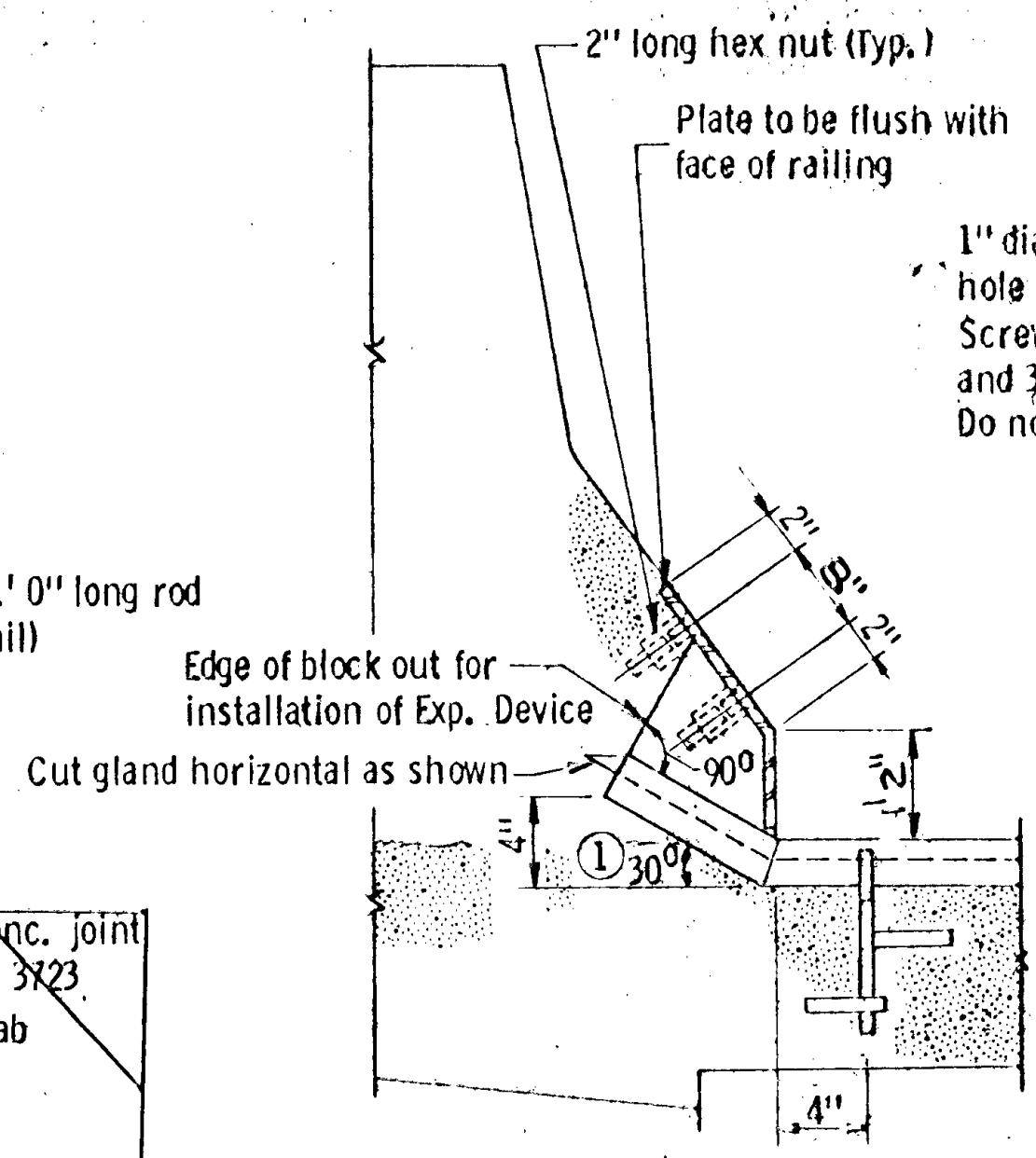
RECONSTRUCT EXPANSION JOINT TYPE 3 DRAIN DETAILS	DES:	DR: R.H.	APPROVED:	BRIDGE NO. 02523 02501
	CHK:	CHK:		
	SHEET NO. 8 of 10 SHEETS			



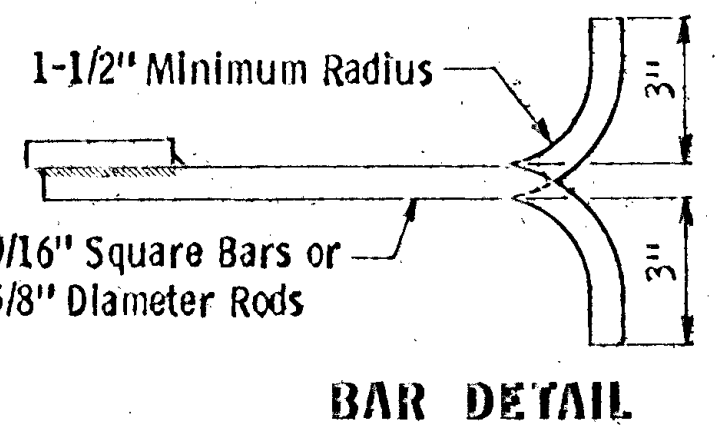
**SECTION A-A**  
ALTERNATE WITH ROD OPTION



ALTERNATE WITH SQUARE BAR OPTION  
**SECTION A-A**



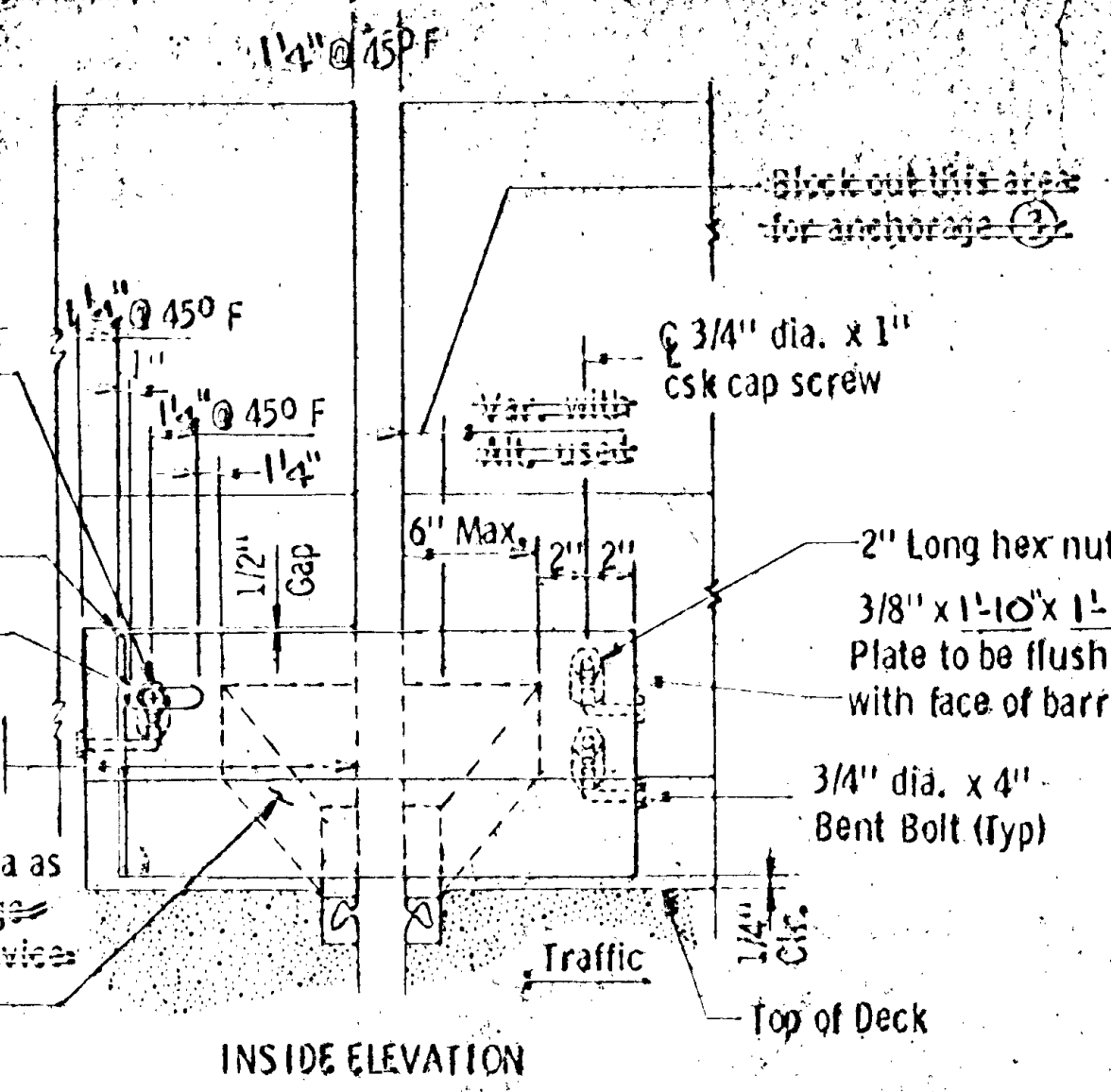
**SECTION**



**BAR DETAIL**

1" dia. x 2 1/2" long slotted hole for 3/4" x 1-1/2" Csk. Cap Screw with 2" long hex nut and 3/4" dia. x 4" Bent Bolt. Do not tighten down cap screw.

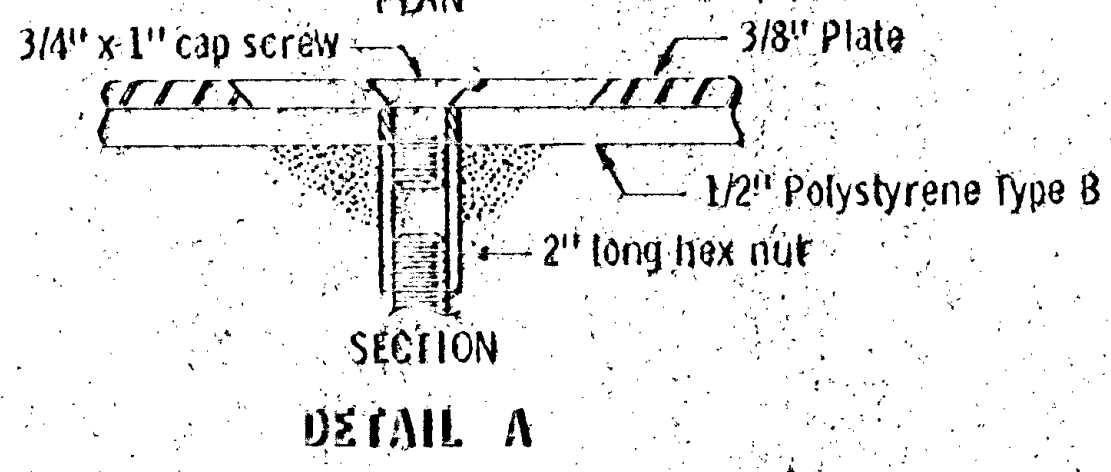
**RAILING OR MEDIAN BR. NO. 02523**



**INSIDE ELEVATION**

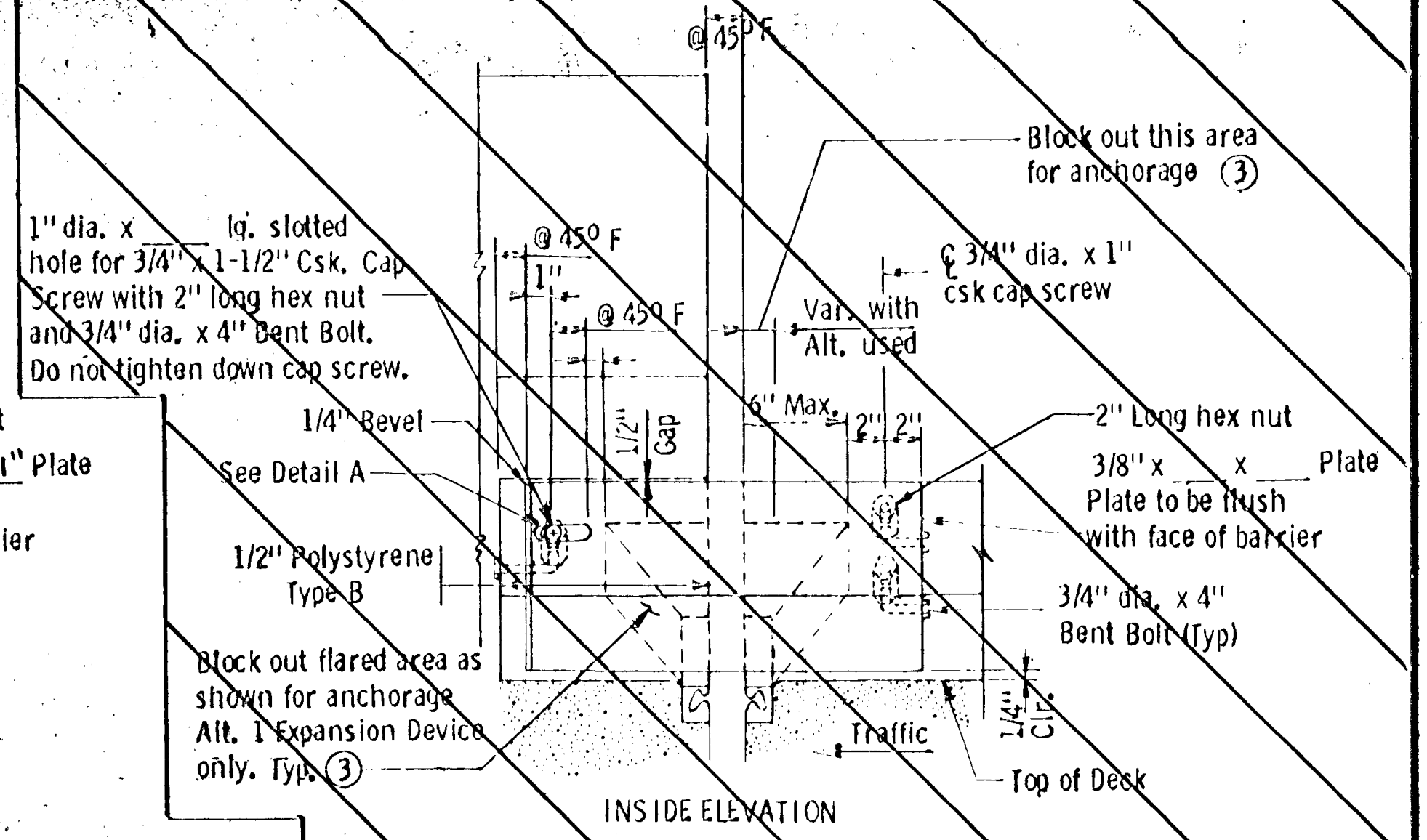


**PLAN**

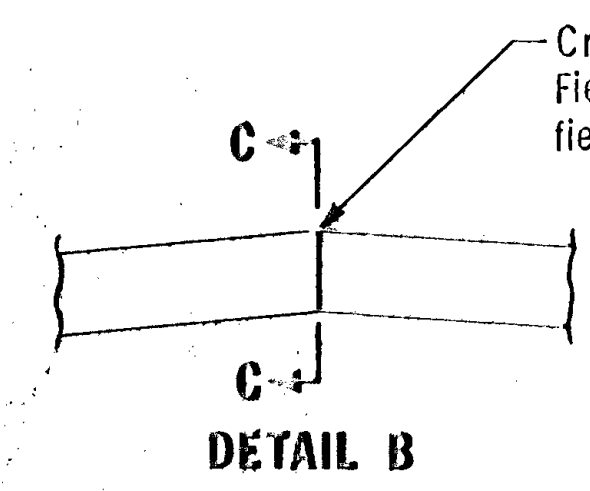


**DETAIL A**

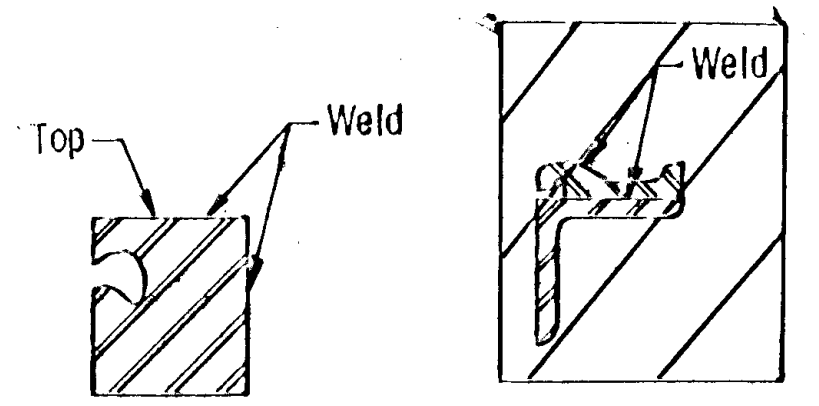
After assembly, field weld lugs on each edge of Cap Screw only to prevent turning. Cap Screw must be able to slide along slot.



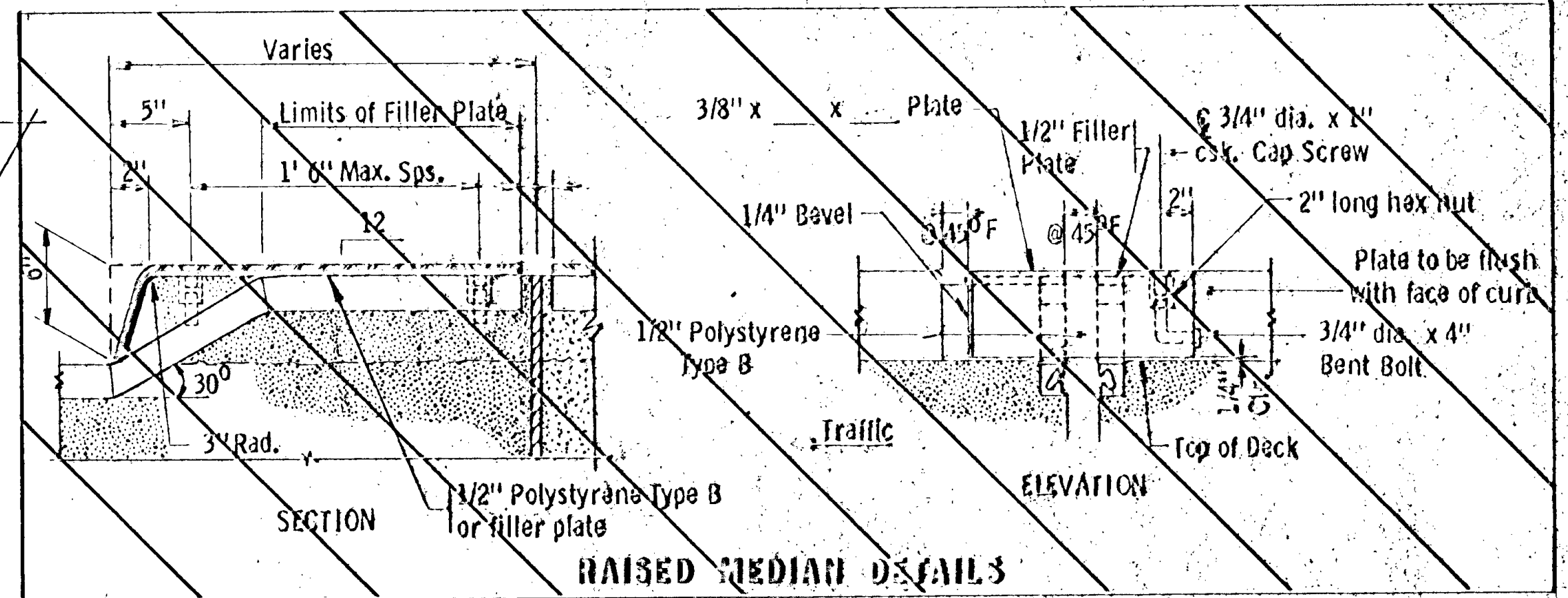
**RAILING AT CURB TRANSITION**



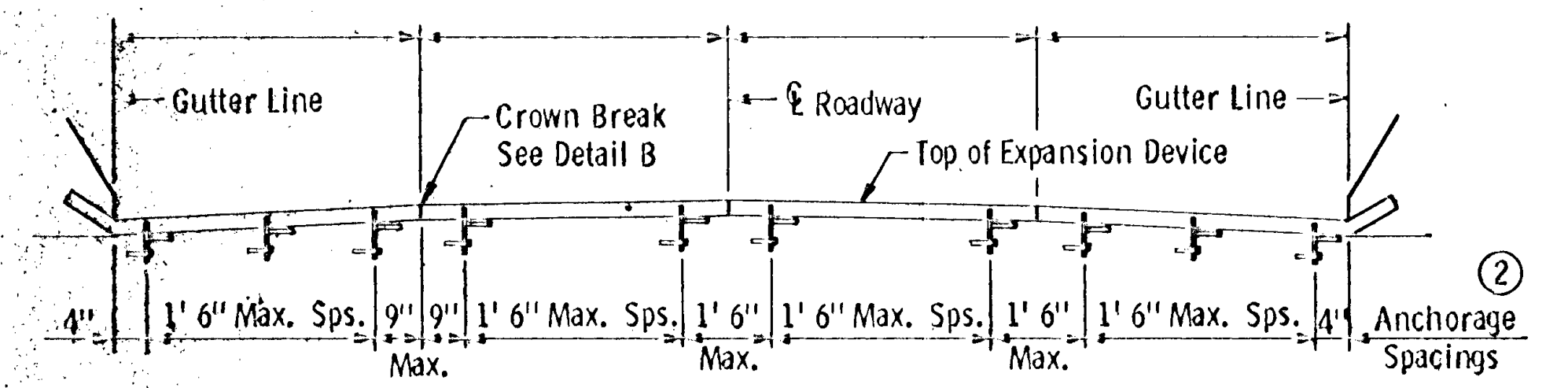
**DETAIL B**



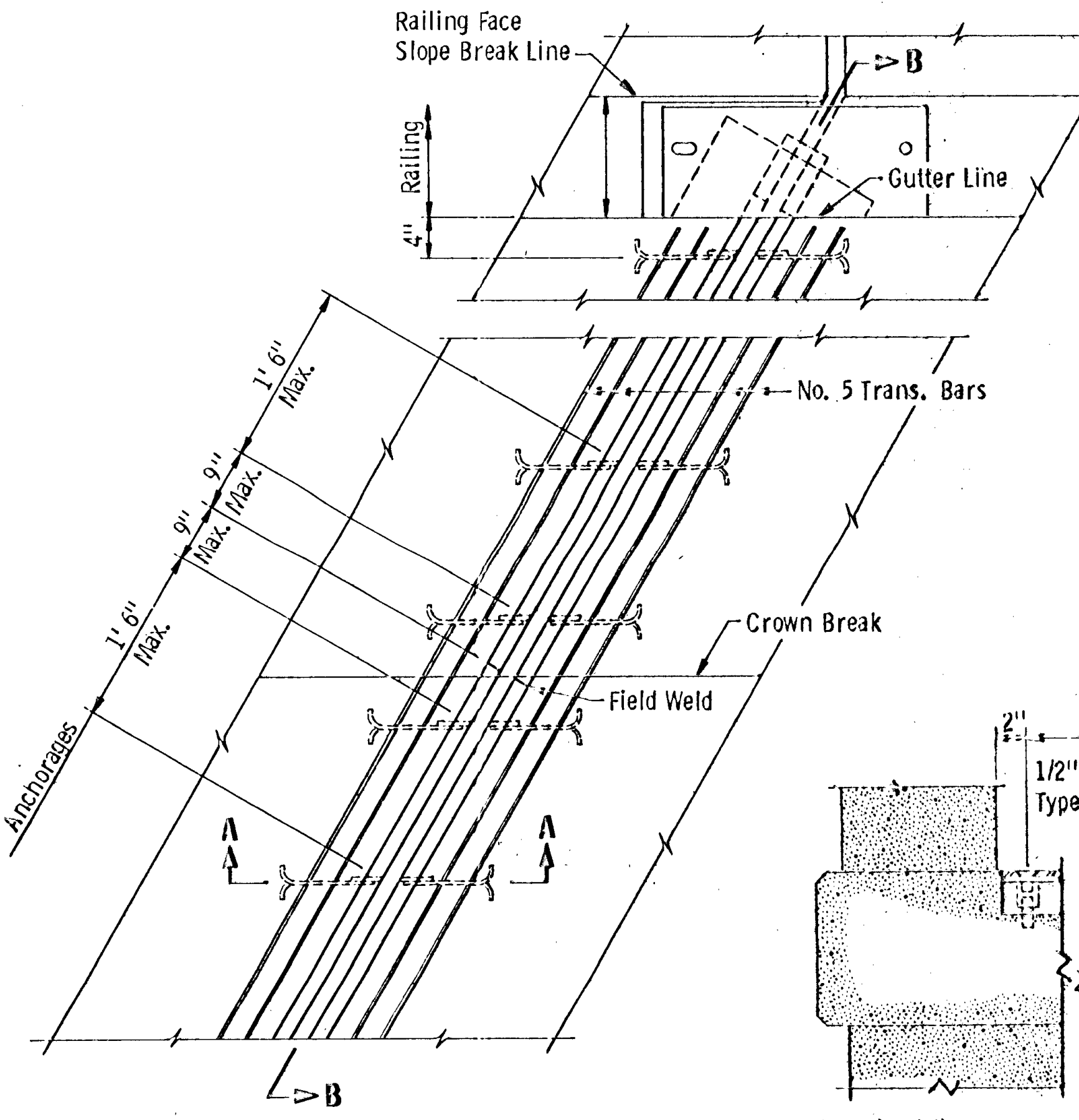
ALTERNATE TYPES OF EXPANSION DEVICES  
**SECTIONS C-C**



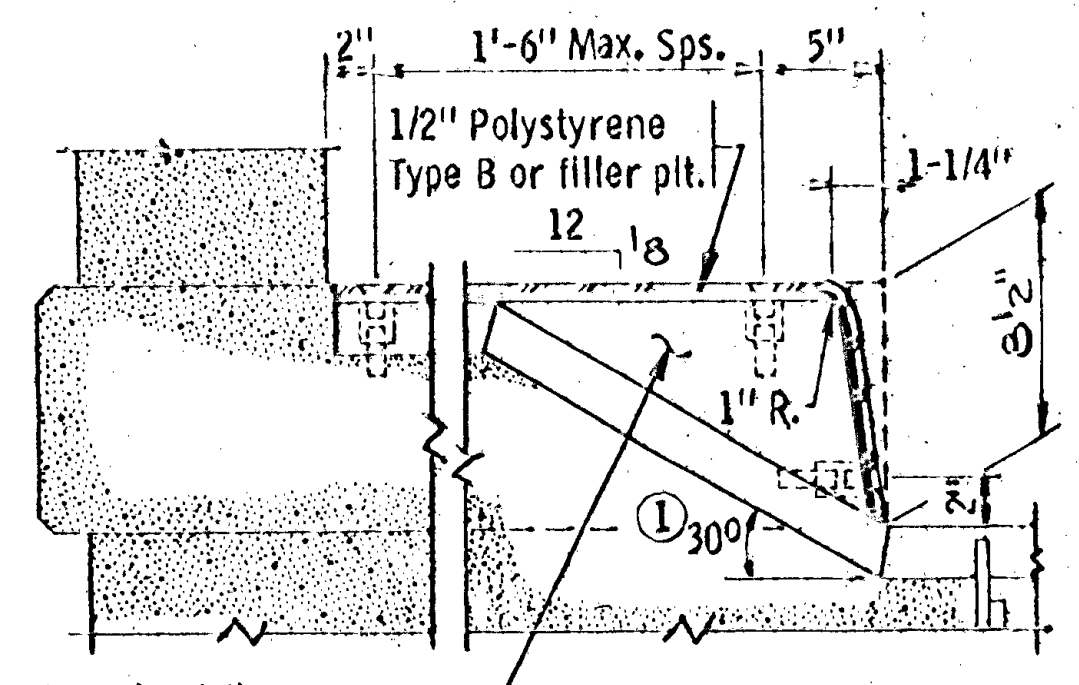
**RAISED MEDIAN DETAILS**



**SECTION B-B**



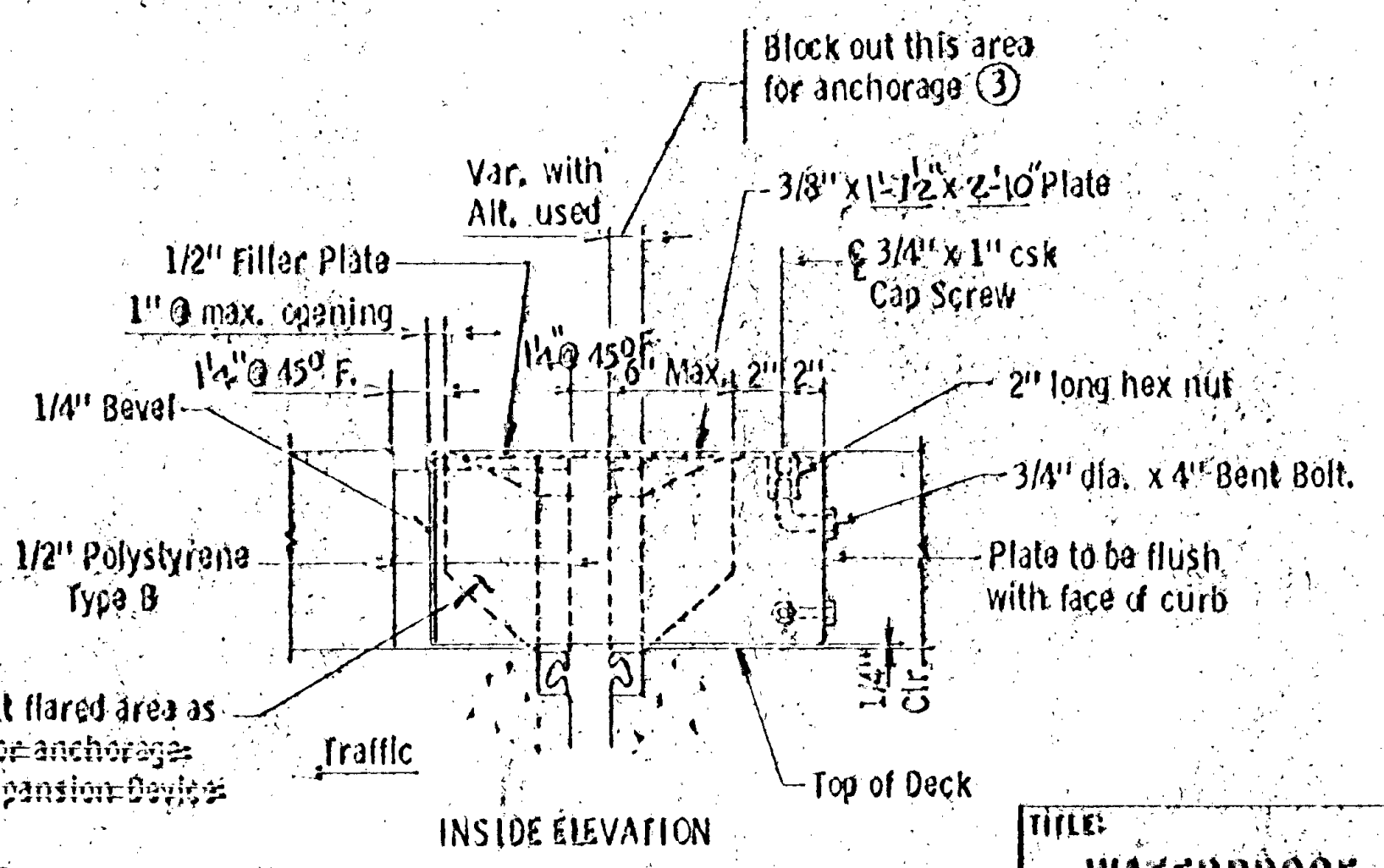
**PLAN VIEW AT EXPANSION DEVICE**



**SECTION**

Block out flared area as shown, for anchorage. Alt. - Expansion Device only.

**SIDEWALK DETAILS BR. NO. 02501**



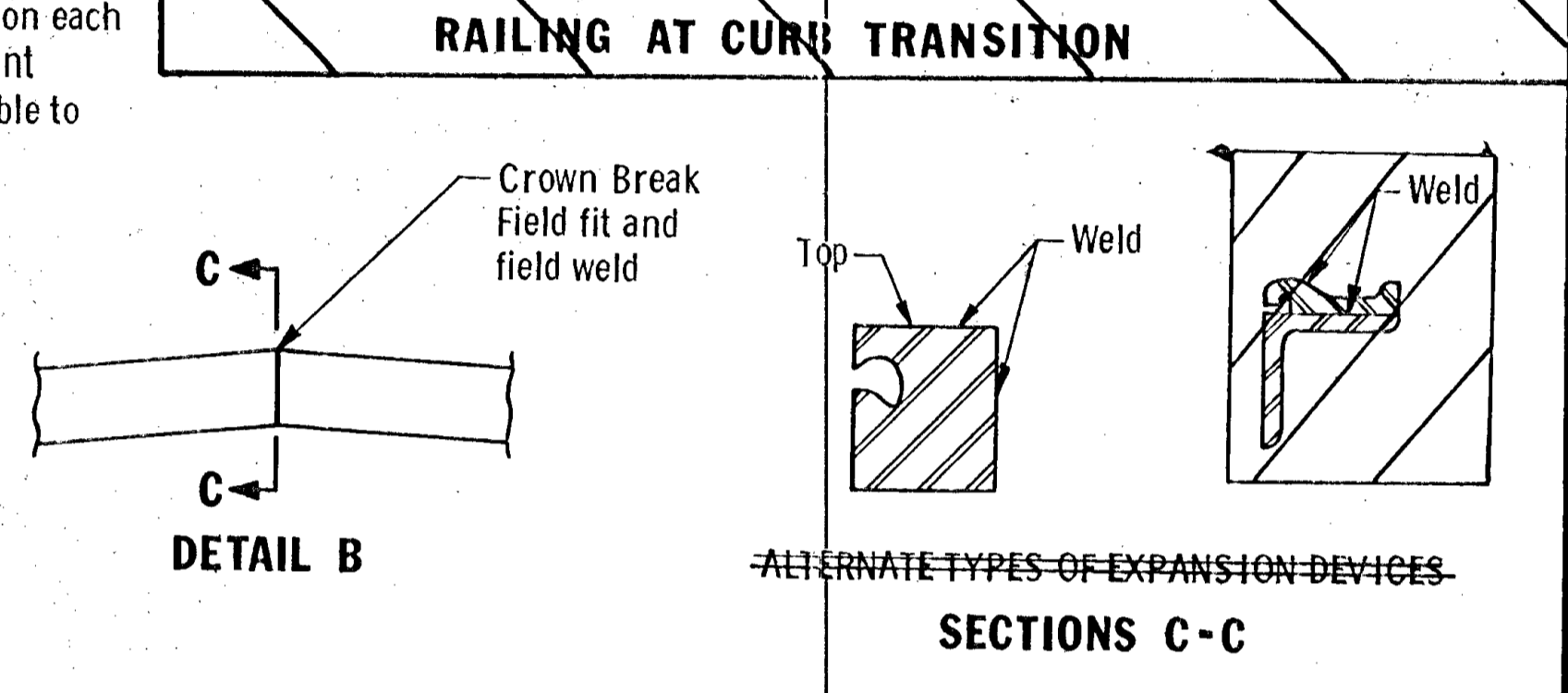
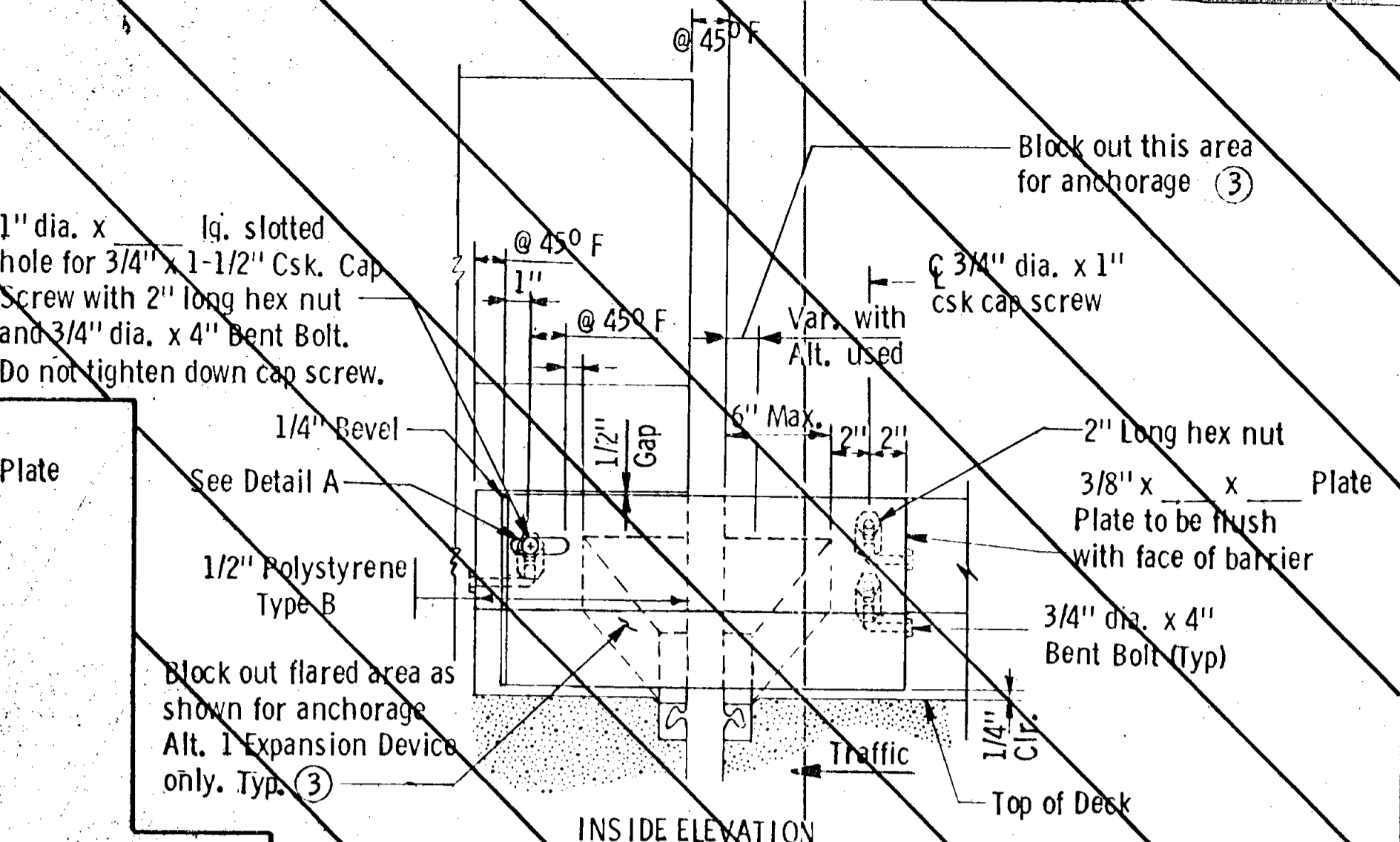
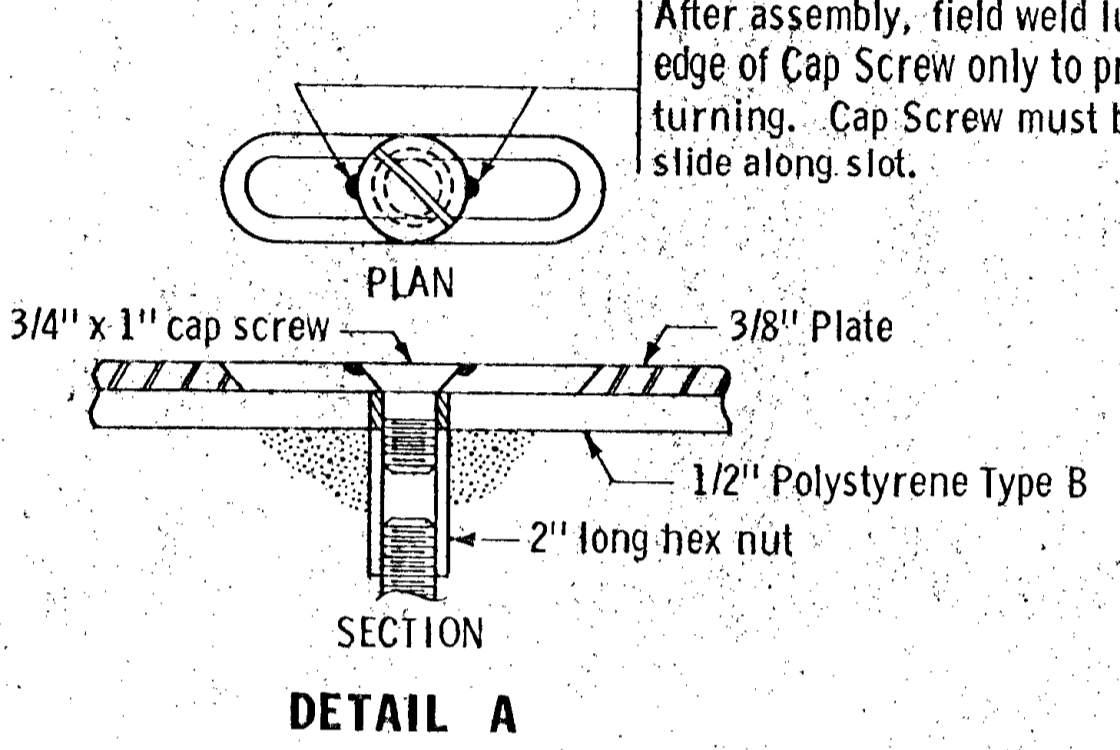
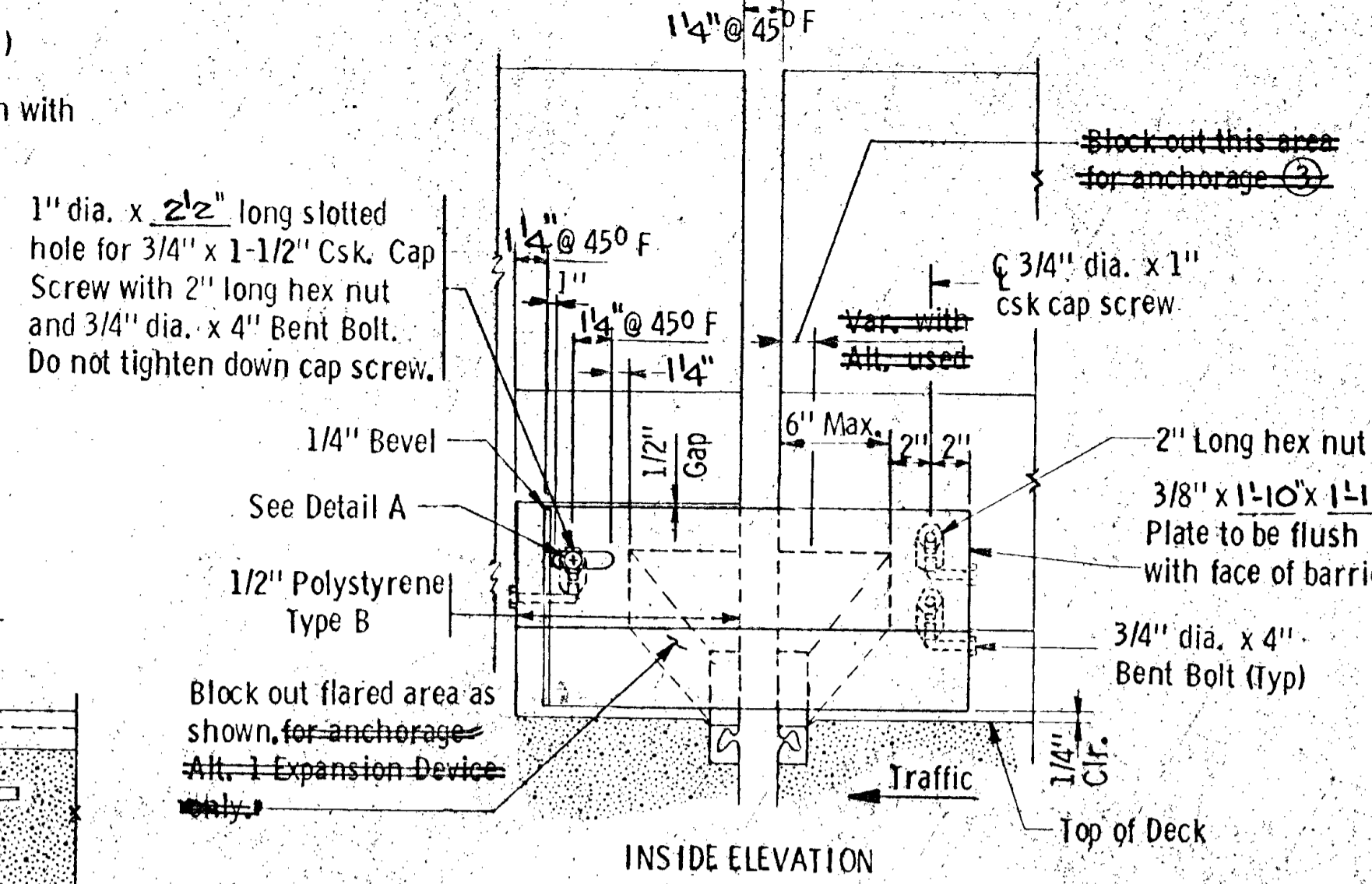
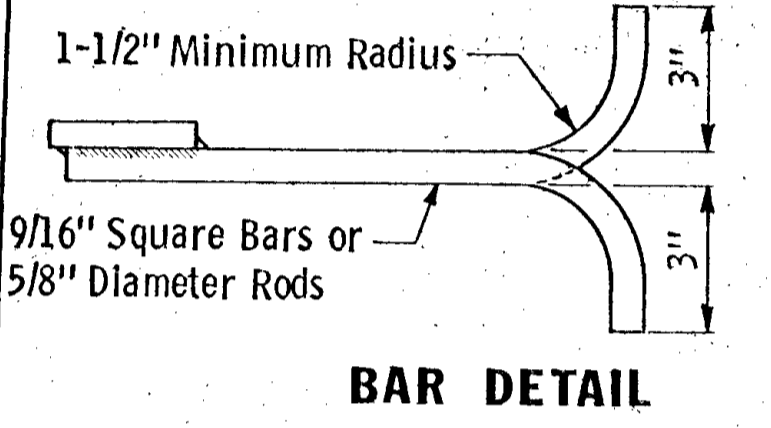
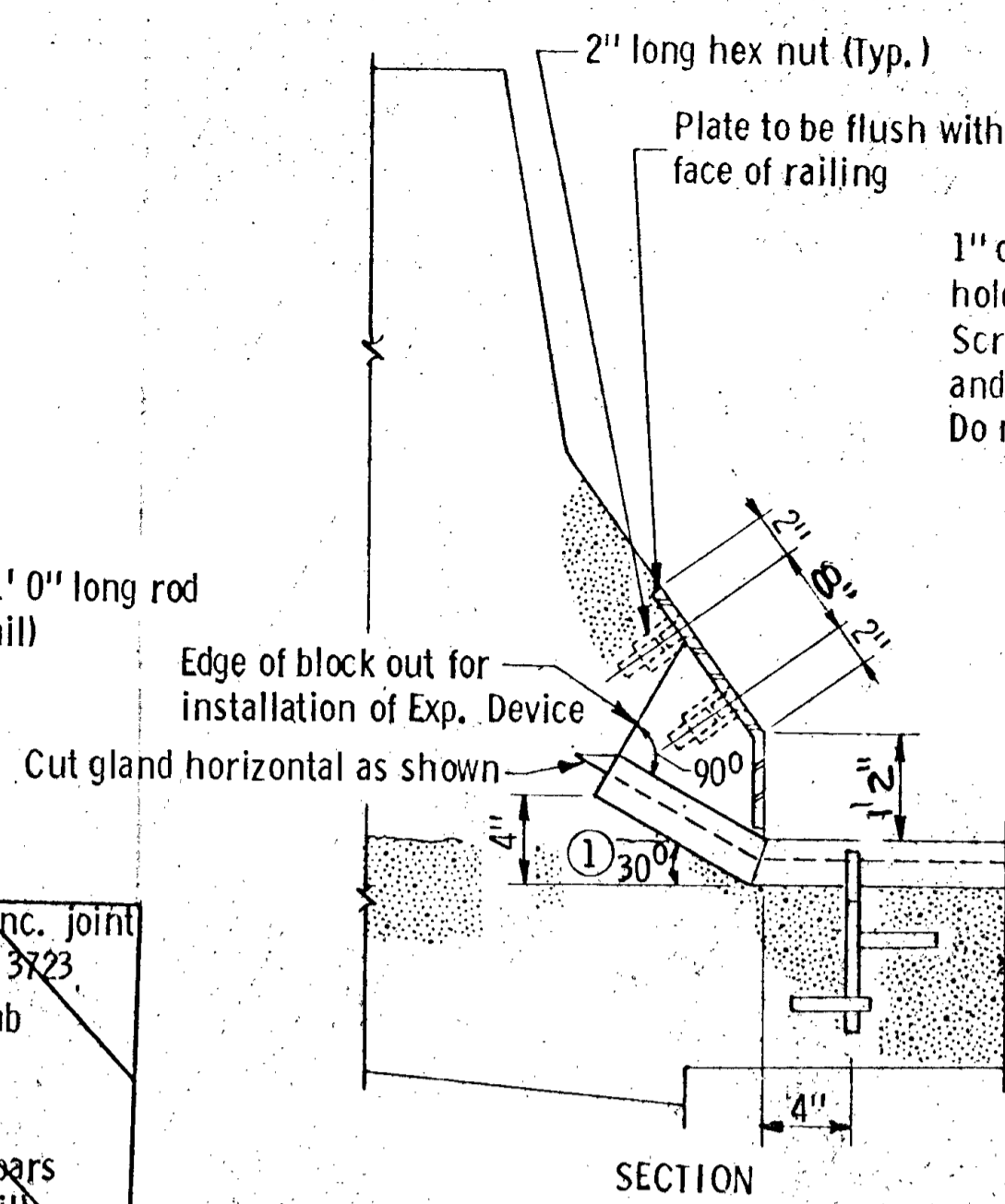
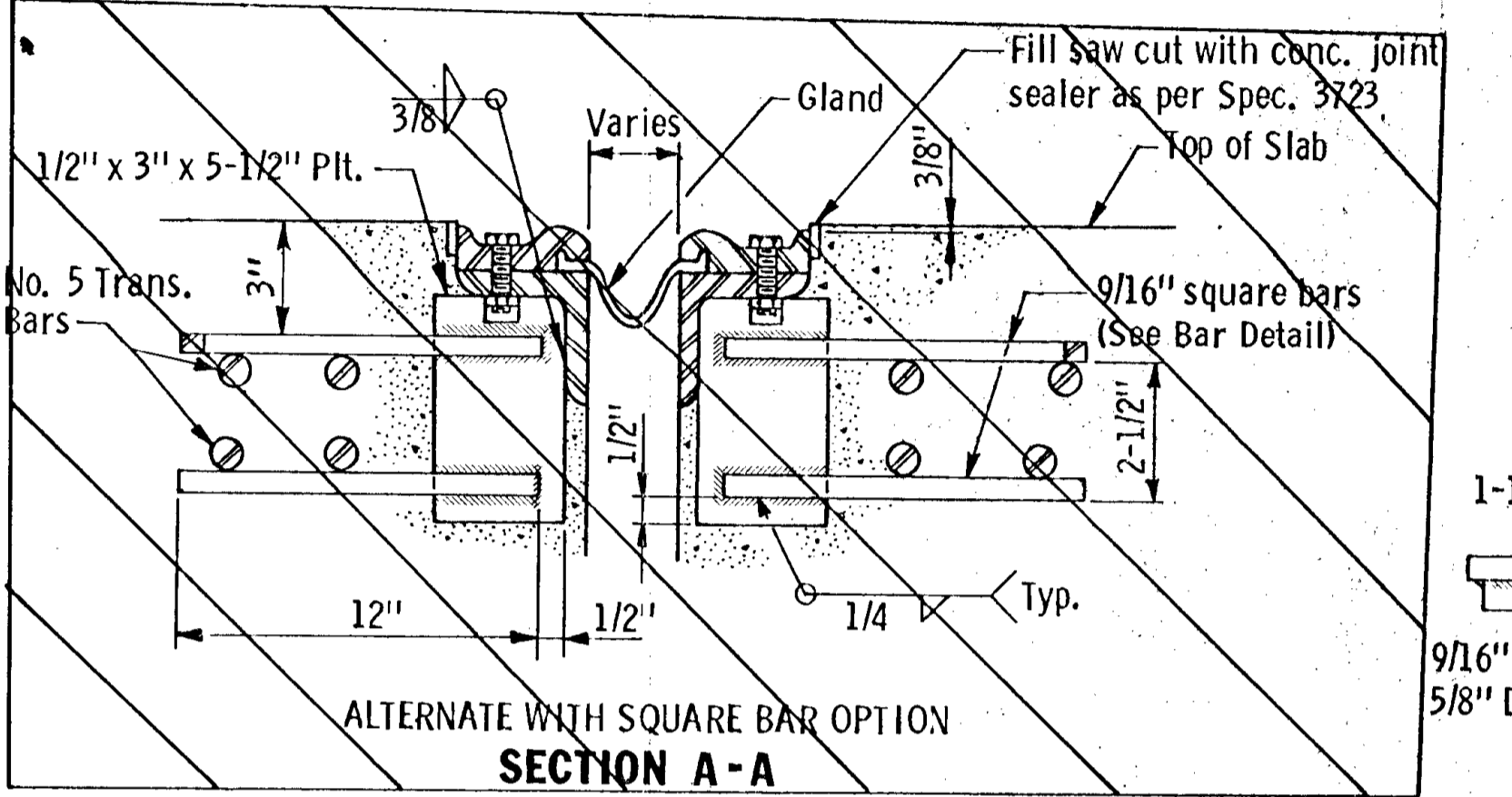
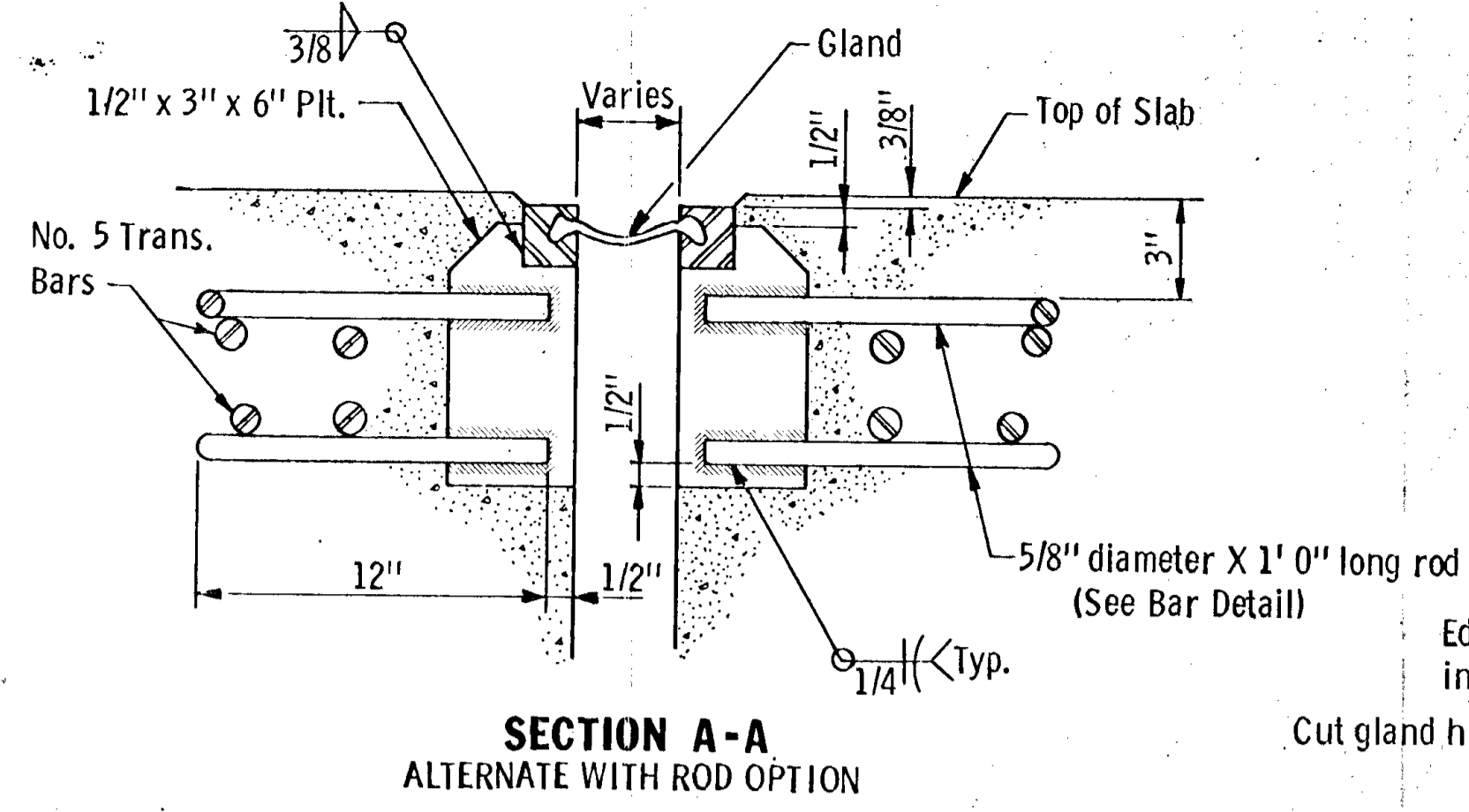
**INSIDE ELEVATION**

- NOTES:**
- ① For skews over 25°, use 45°.
  - ② Dimension along skew.
  - ③ See Figure 5-397.623 for additional block-out information.

Galvanize structural steel after fabrication as per Spec. 3394.  
 Joints in roadway plate or extrusion shall be located at breaks in transverse profile and as otherwise required. Joints shall be close fit and welded. Repair after welding as per Spec. 2471.31.  
 Structural steel shall comply with Spec. 3306. or Spec. 3309.  
 Galvanize screws and nuts as per Spec. 3392  
 Plates shall be flat after galvanizing.  
 Cap screws shall be csk. 1/16" below top of plate.  
 New reinforcement bars are to have the same treatment as the in-place slab reinforcement.

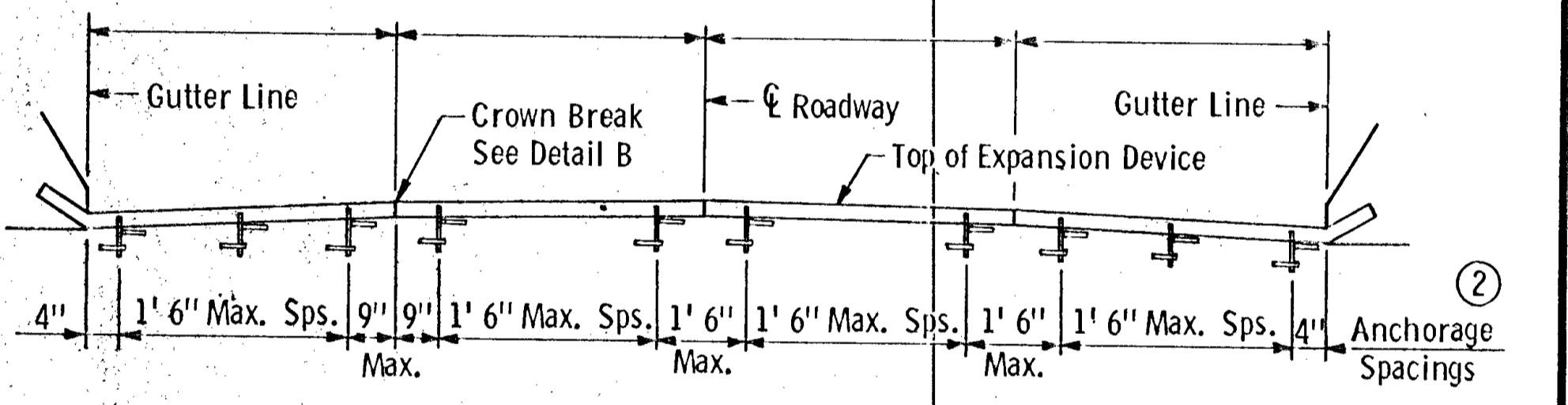
**Fig. 5-397.629**  
Approved: May 30, 1973

<b>TITLE:</b> WATERPROOF EXPANSION DEVICE FOR REPAIR WORK		<b>DES:</b> CHK:	<b>DR:</b> R.H. CHK:	<b>APPROVED:</b>	<b>Bridge No.</b> 02501 02523
<b>Sheet No. 9 of 10 Sheets</b>					

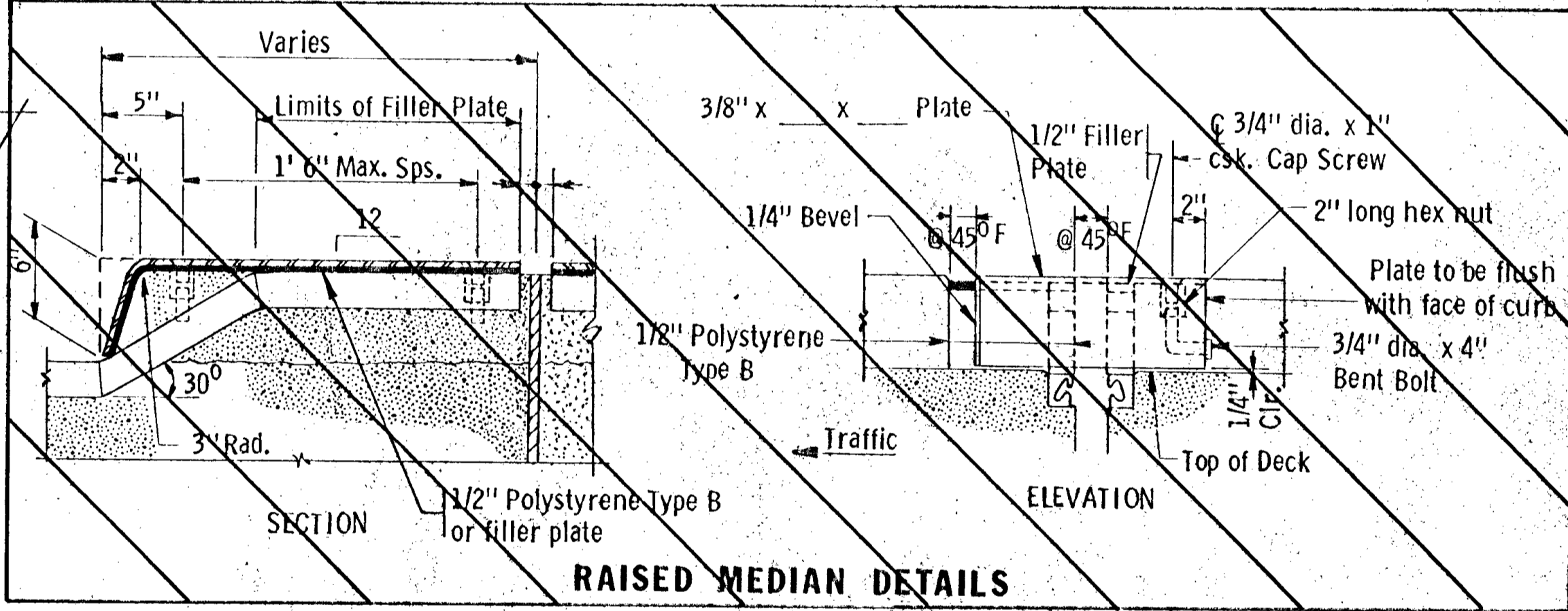


ALTERNATE TYPES OF EXPANSION DEVICES  
SECTIONS C-C

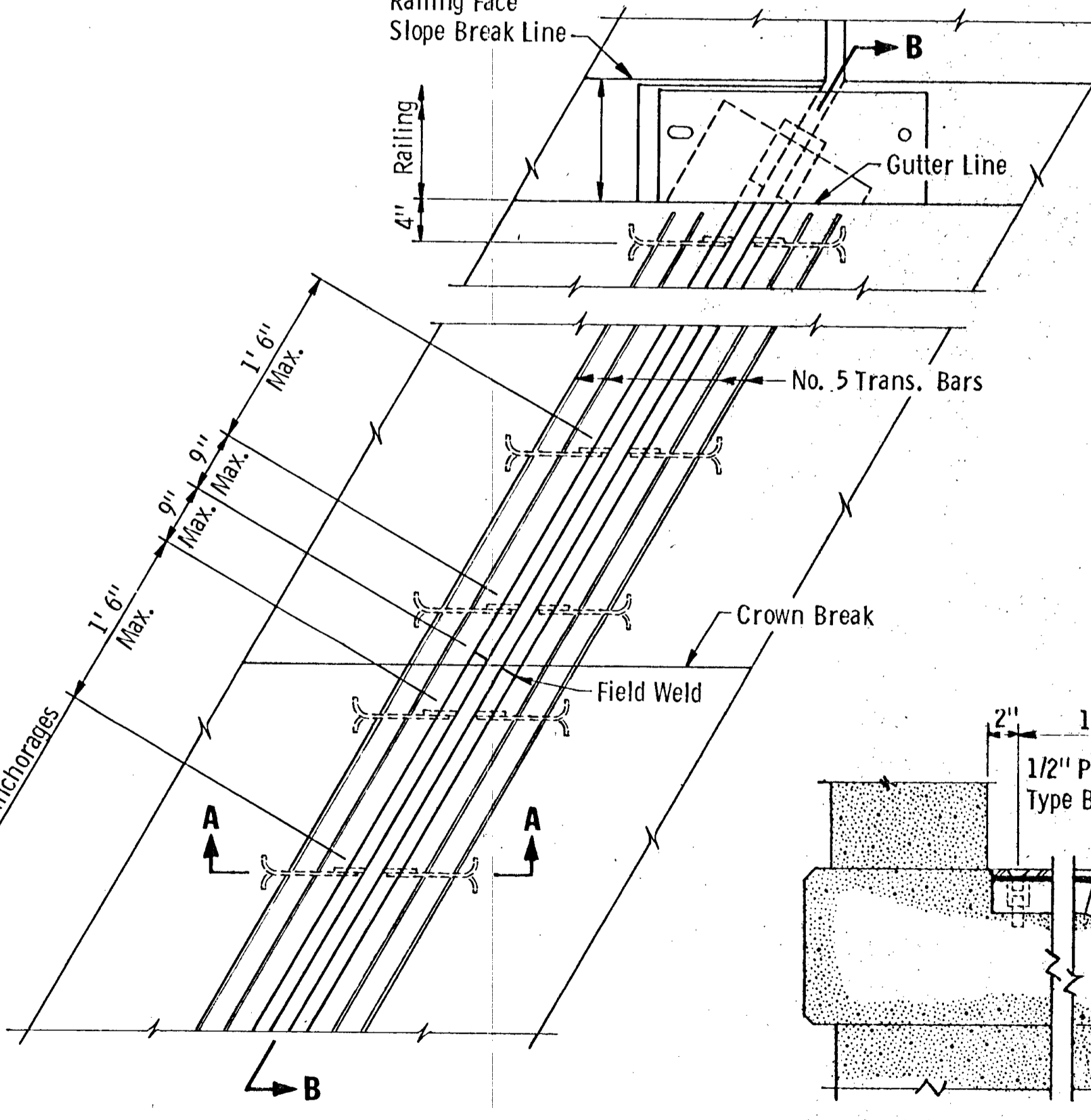
RAILING OR MEDIAN  
BR. NO. 02523



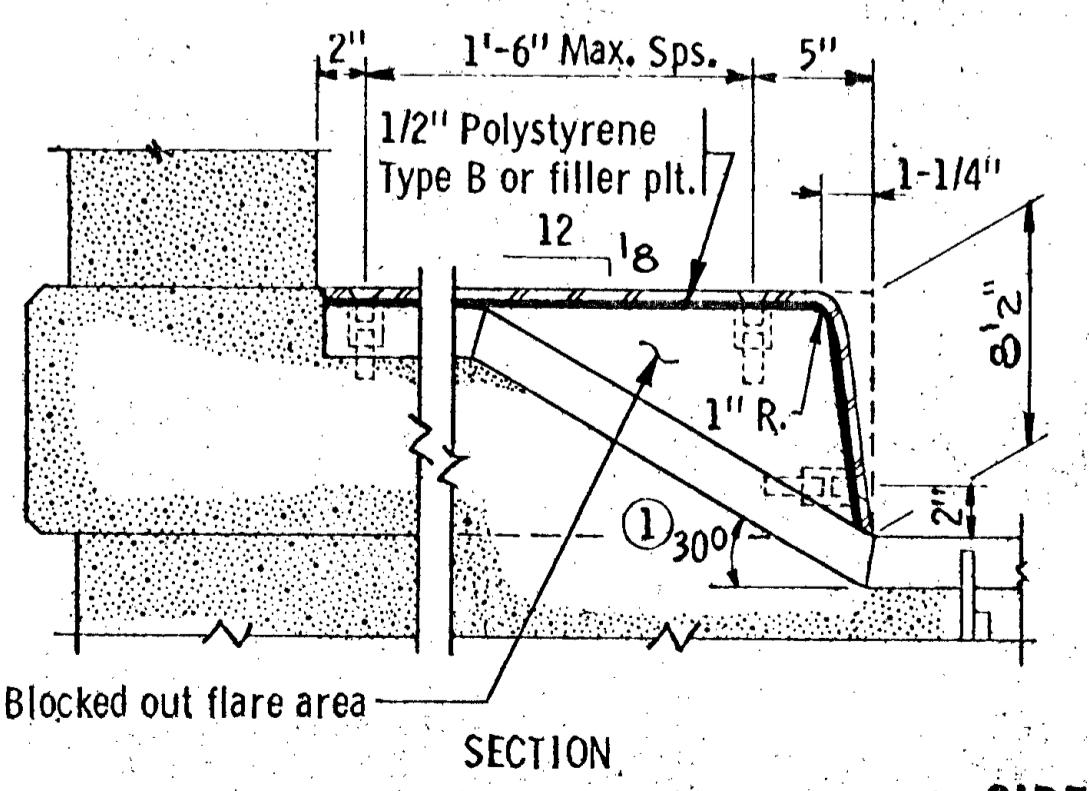
SECTION B-B



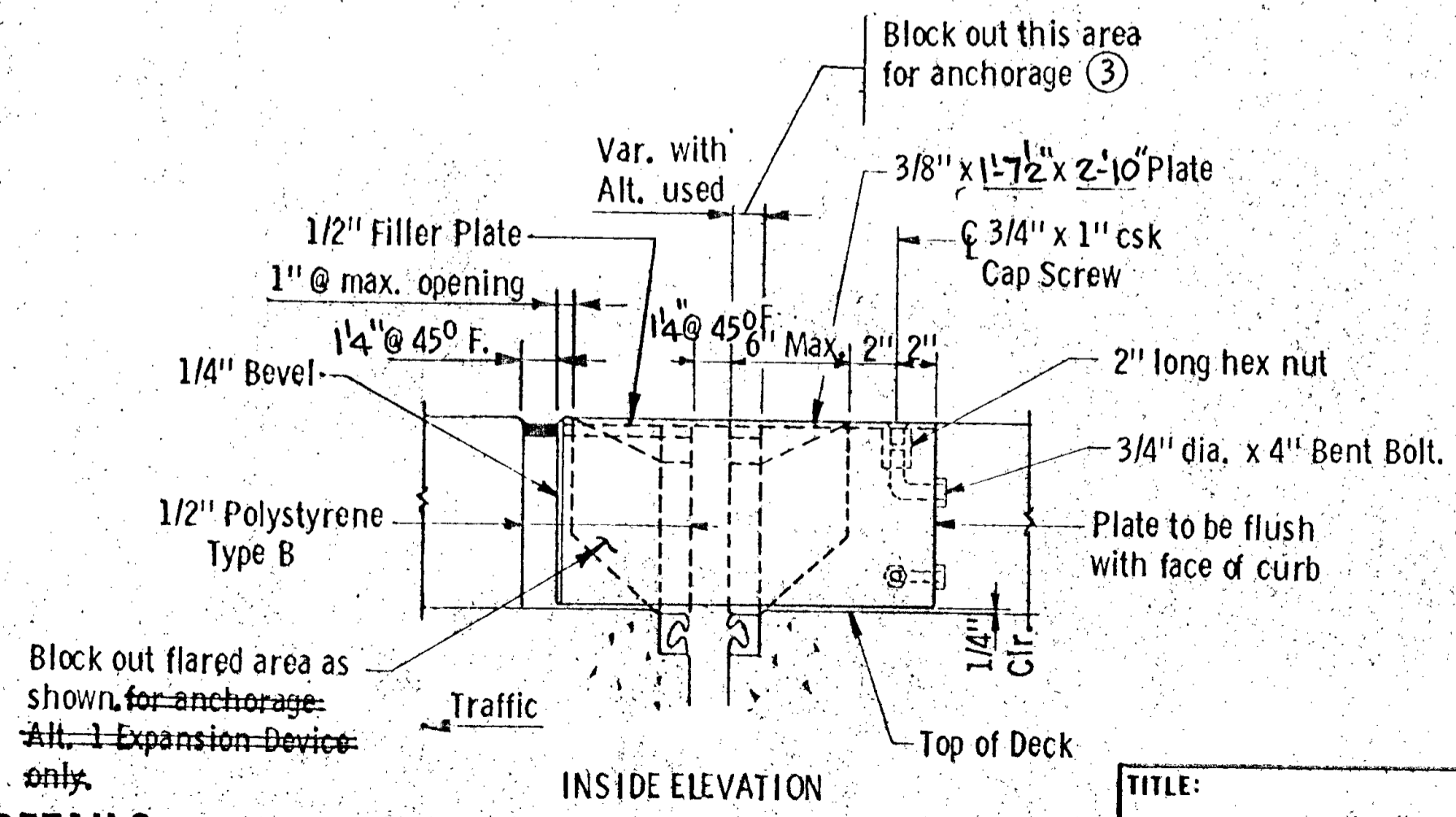
RAISED MEDIAN DETAILS



PLAN VIEW AT EXPANSION DEVICE



SECTION



INSIDE ELEVATION

SIDEWALK DETAILS  
BR. NO. 02501

- NOTES:**
- ① For skews over 25°, use 45°.
  - ② Dimension along skew.
  - ③ See Figure 5-397.628 for additional block-out information.

Galvanize structural steel after fabrication as per Spec. 3394.

Joints in roadway plate or extrusion shall be located at breaks in transverse profile and as otherwise required. Joints shall be close fit and welded. Repair after welding as per Spec. 2471, 3L.

Structural steel shall comply with Spec. 3306. or Spec. 3309.

Galvanize screws and nuts as per Spec. 3392

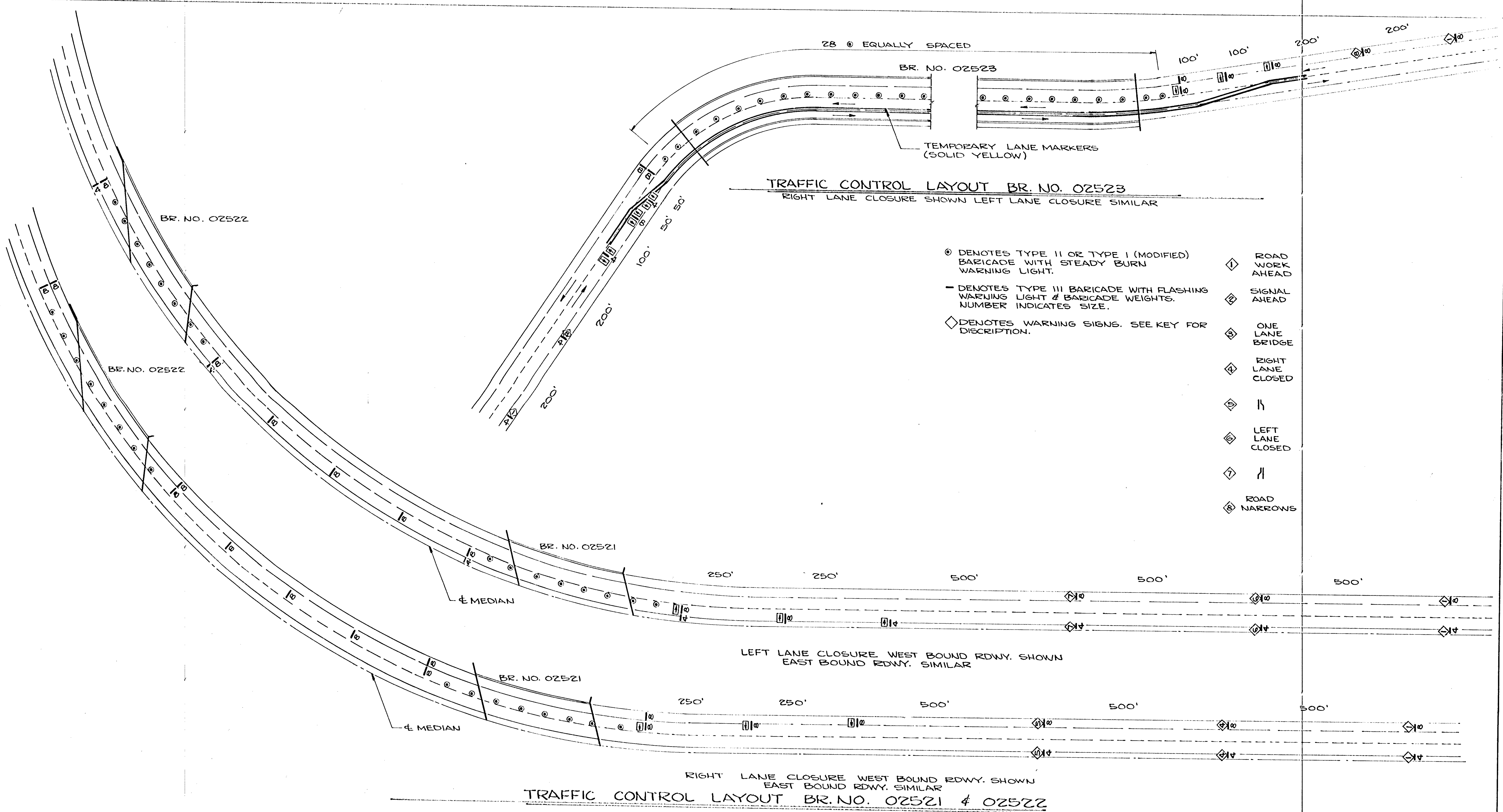
Plates shall be flat after galvanizing.

Cap screws shall be csk. 1/16" below top of plate.

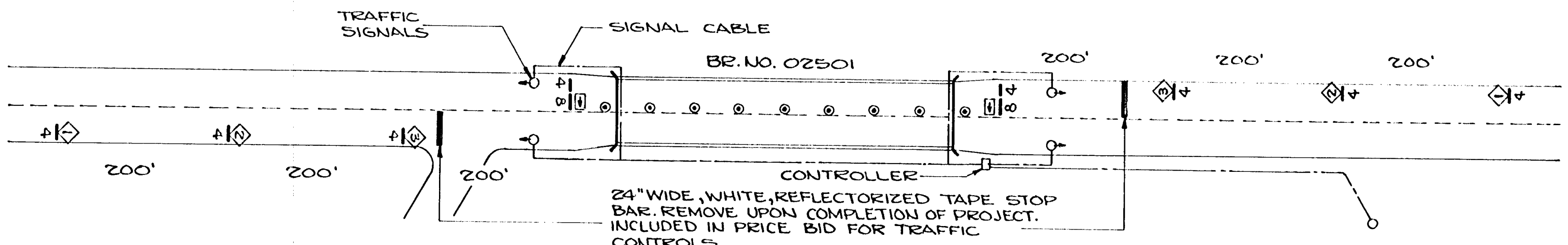
New reinforcement bars are to have the same treatment as the in place slab reinforcement.

Fig. 5-397.629  
Approved: May 30, 1978

TITLE: <b>WATERPROOF EXPANSION DEVICE</b> FOR REPAIR WORK		DES: CHK:	DR: R.H. CHK:	APPROVED:	<b>Bridge No.</b> 02501 02523
				<b>Sheet No. 9 of 10 Sheets</b>	



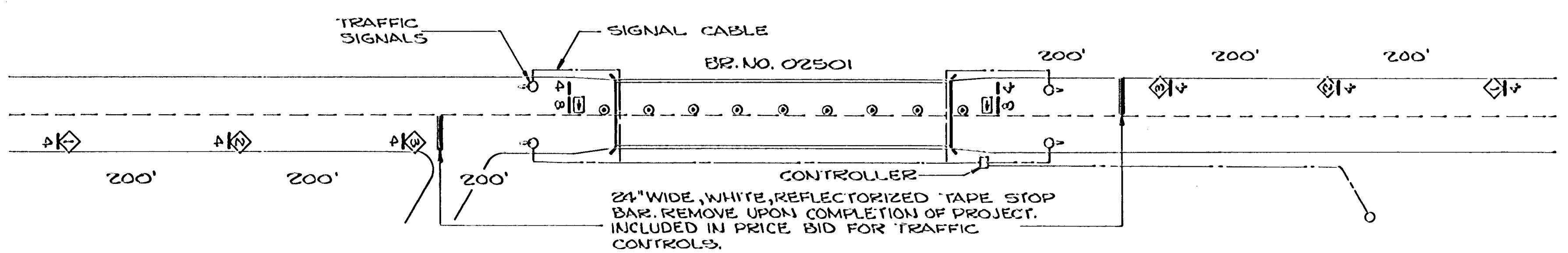
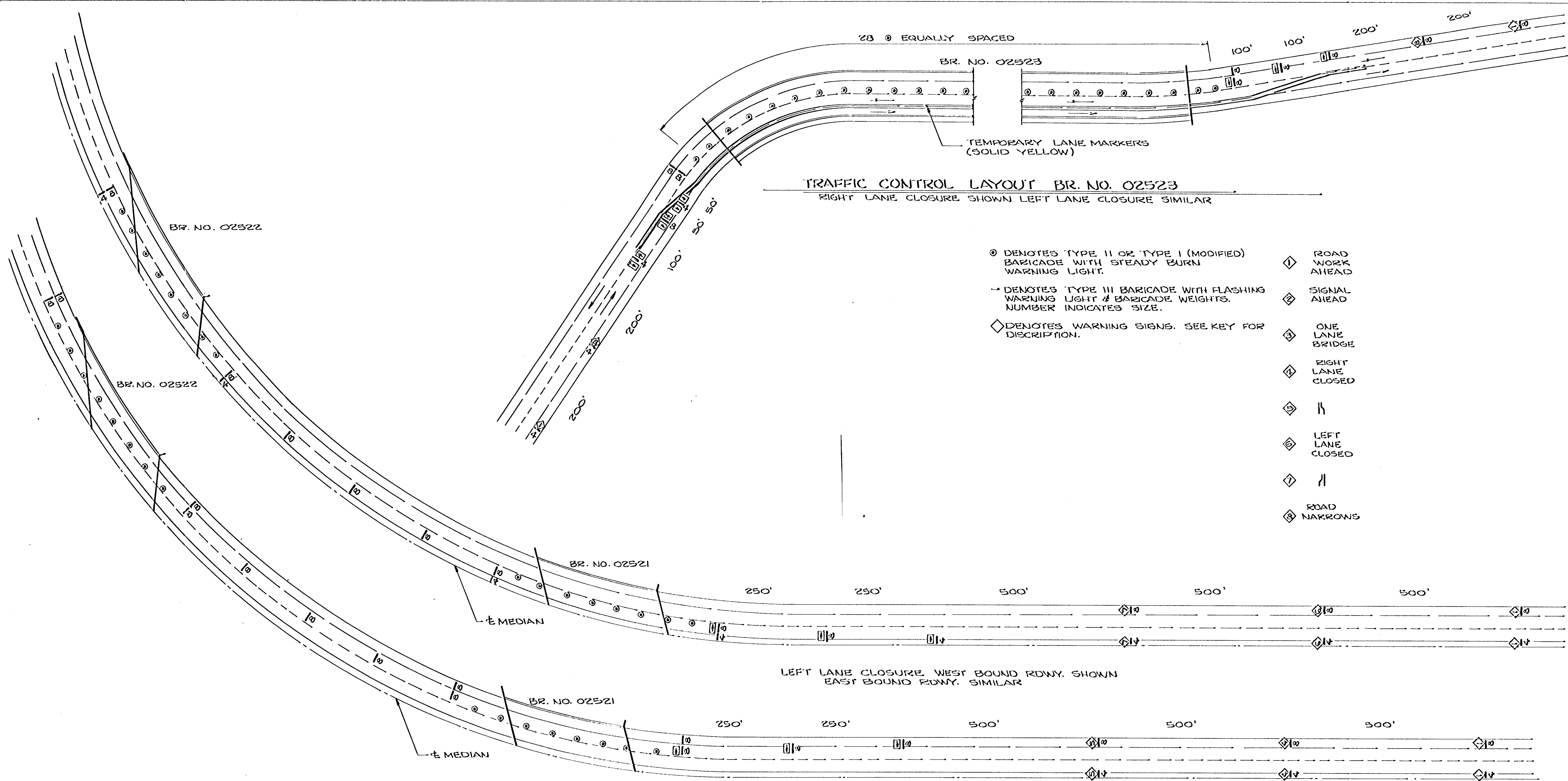
- ⊙ DENOTES TYPE II OR TYPE I (MODIFIED) BARRICADE WITH STEADY BURN WARNING LIGHT.
- DENOTES TYPE III BARRICADE WITH FLASHING WARNING LIGHT & BARRICADE WEIGHTS. NUMBER INDICATES SIZE.
- ◇ DENOTES WARNING SIGNS. SEE KEY FOR DESCRIPTION.
- ◇ ROAD WORK AHEAD
- ◇ SIGNAL AHEAD
- ◇ ONE LANE BRIDGE
- ◇ RIGHT LANE CLOSED
- ◇ 11
- ◇ LEFT LANE CLOSED
- ◇ 11
- ◇ ROAD NARROWS



TRAFFIC CONTROL LAYOUT BR. NO. 02501  
RIGHT LANE CLOSURE SHOWN LEFT LANE CLOSURE SIMILAR

TRAFFIC CONTROL DETAILS		DES:	DR: R.H.	APPROVED:	BRIDGE NO.
CHK:	CHK:				02501
SHEET NO. 10 of 10 SHEETS					02521
					02522
					02523





TRAFFIC CONTROL DETAILS		DES:	DR: R.H.	APPROVED:	BRIDGE NO. 02501 02521 02522 02523
		CHK:	CHK:		
SHEET NO. 10 of 10 SHEETS					