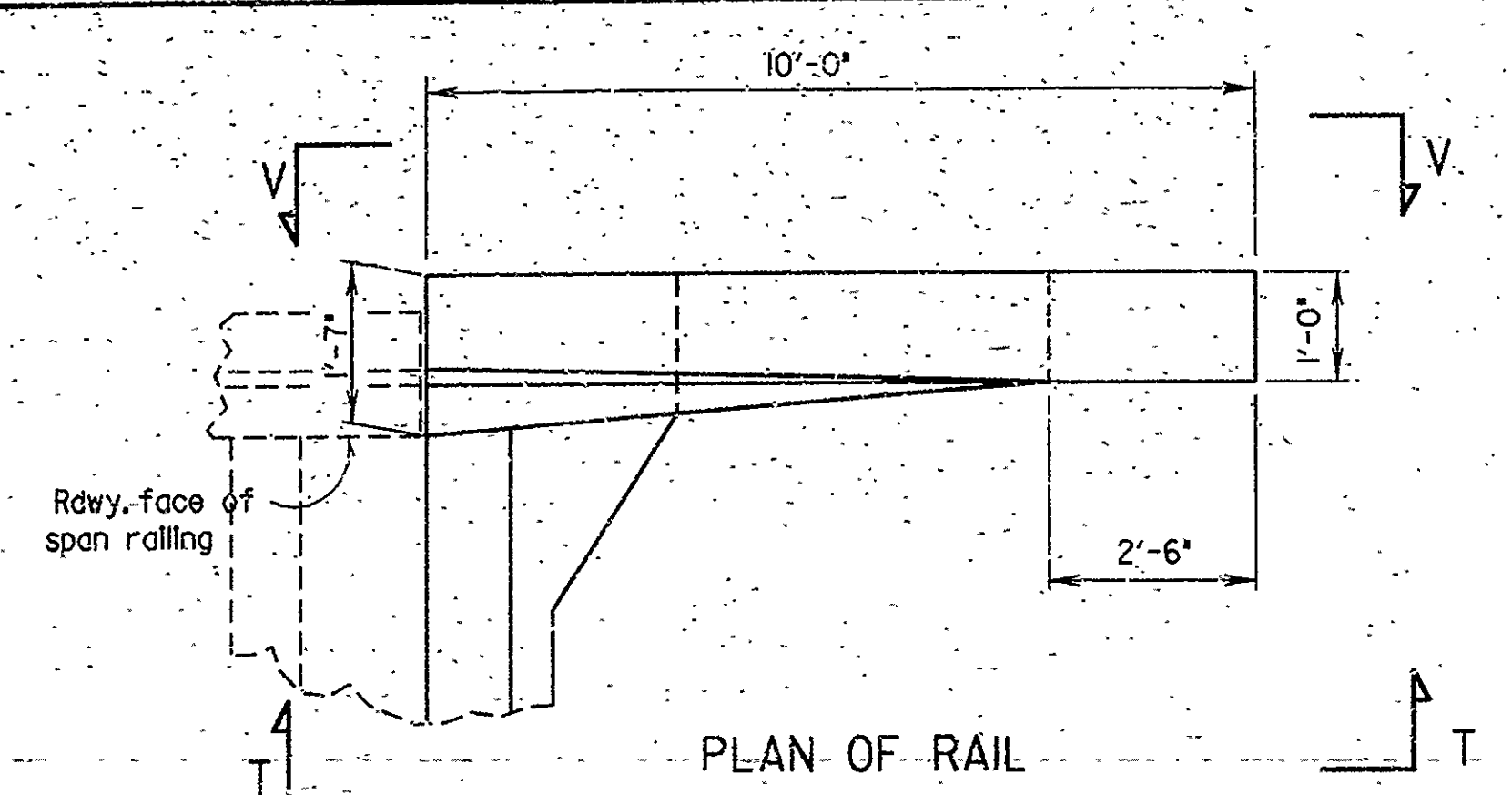
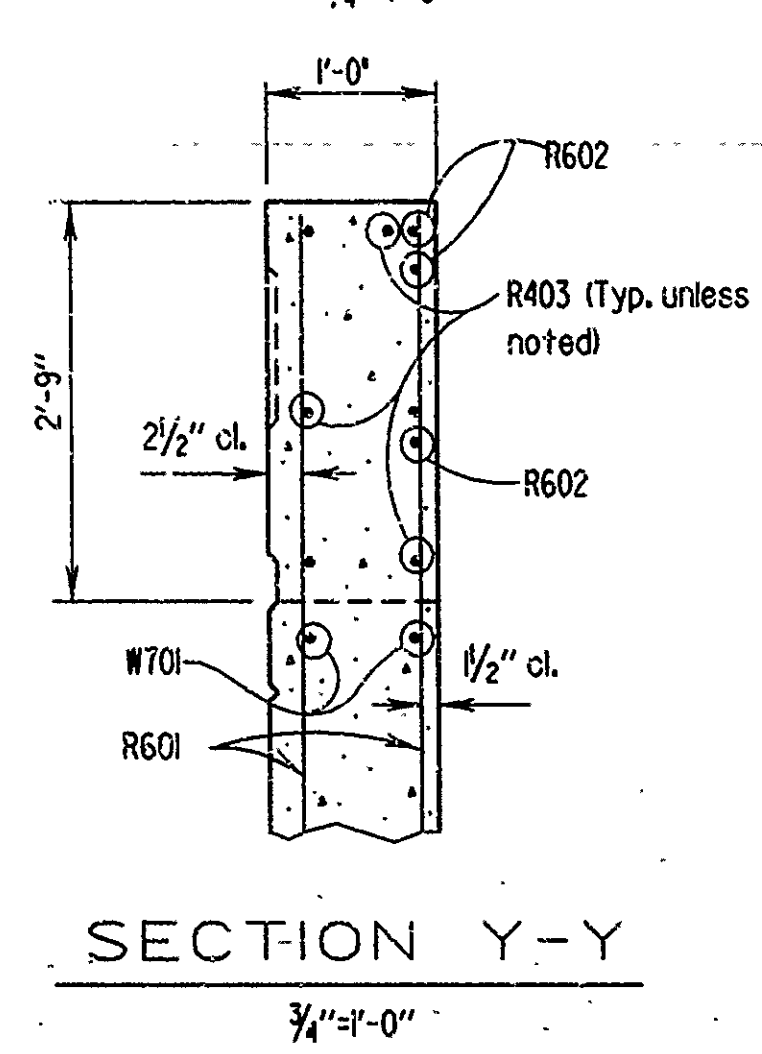
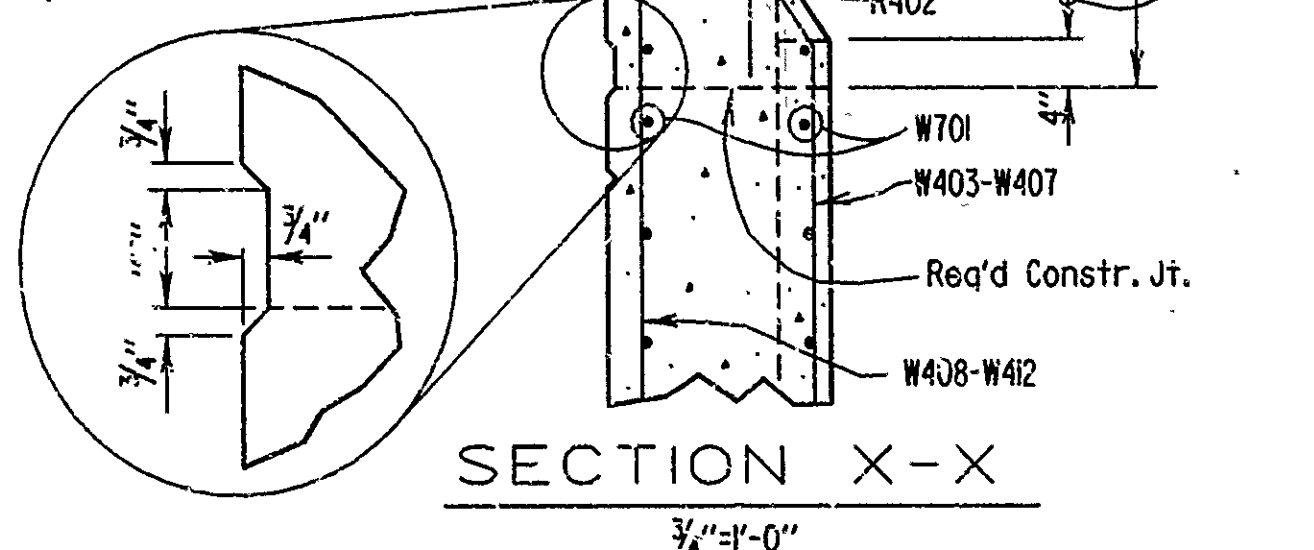
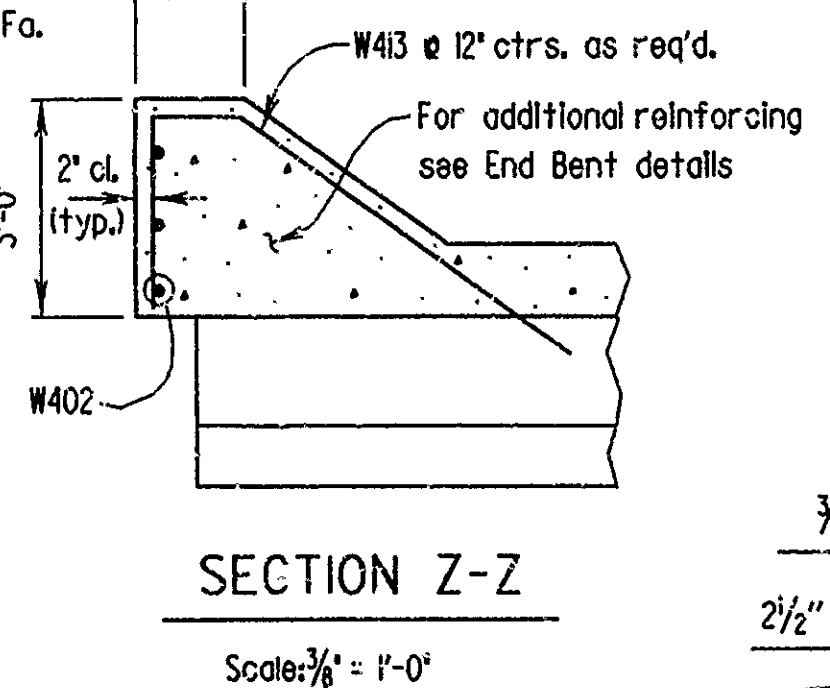
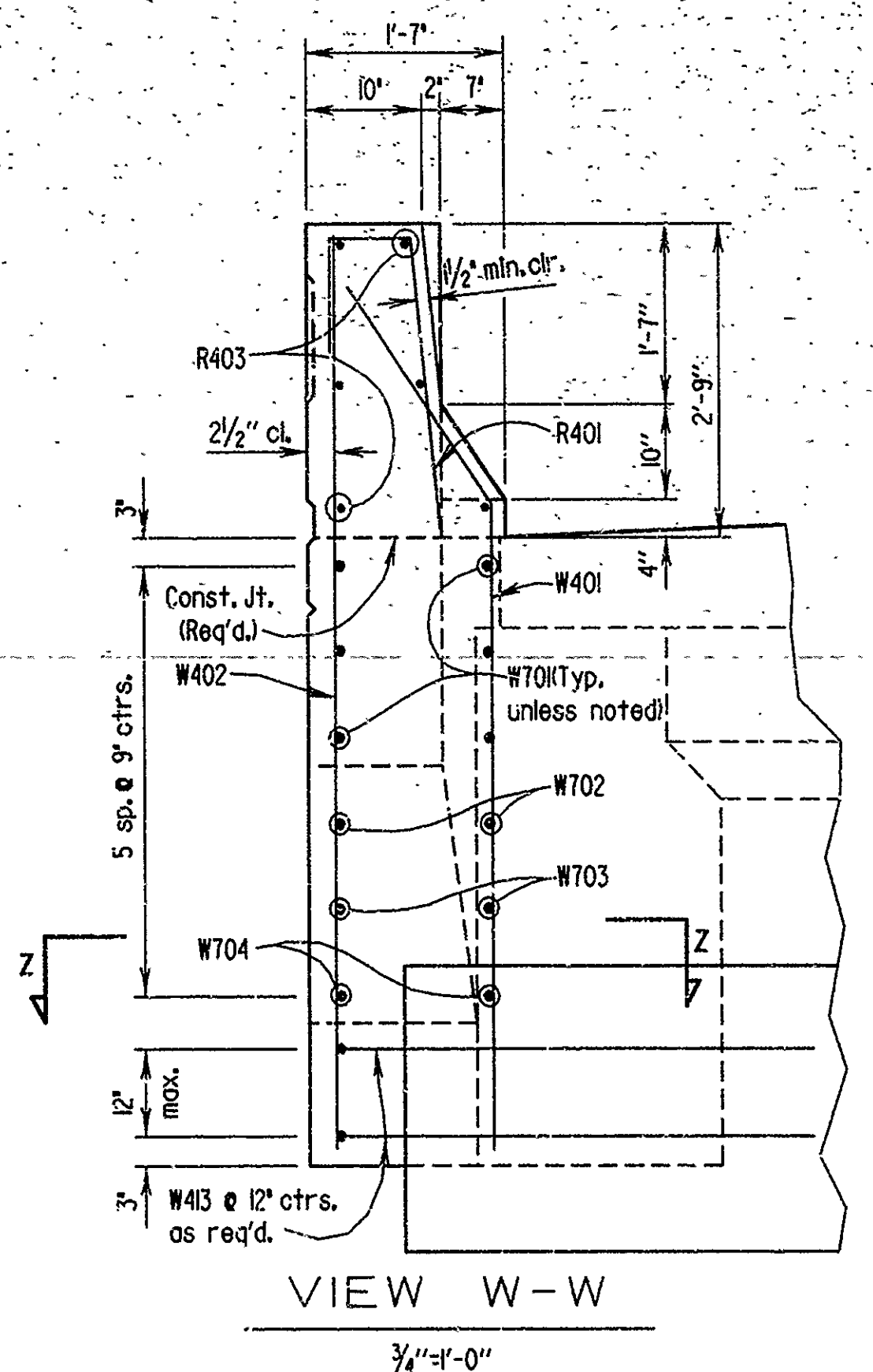
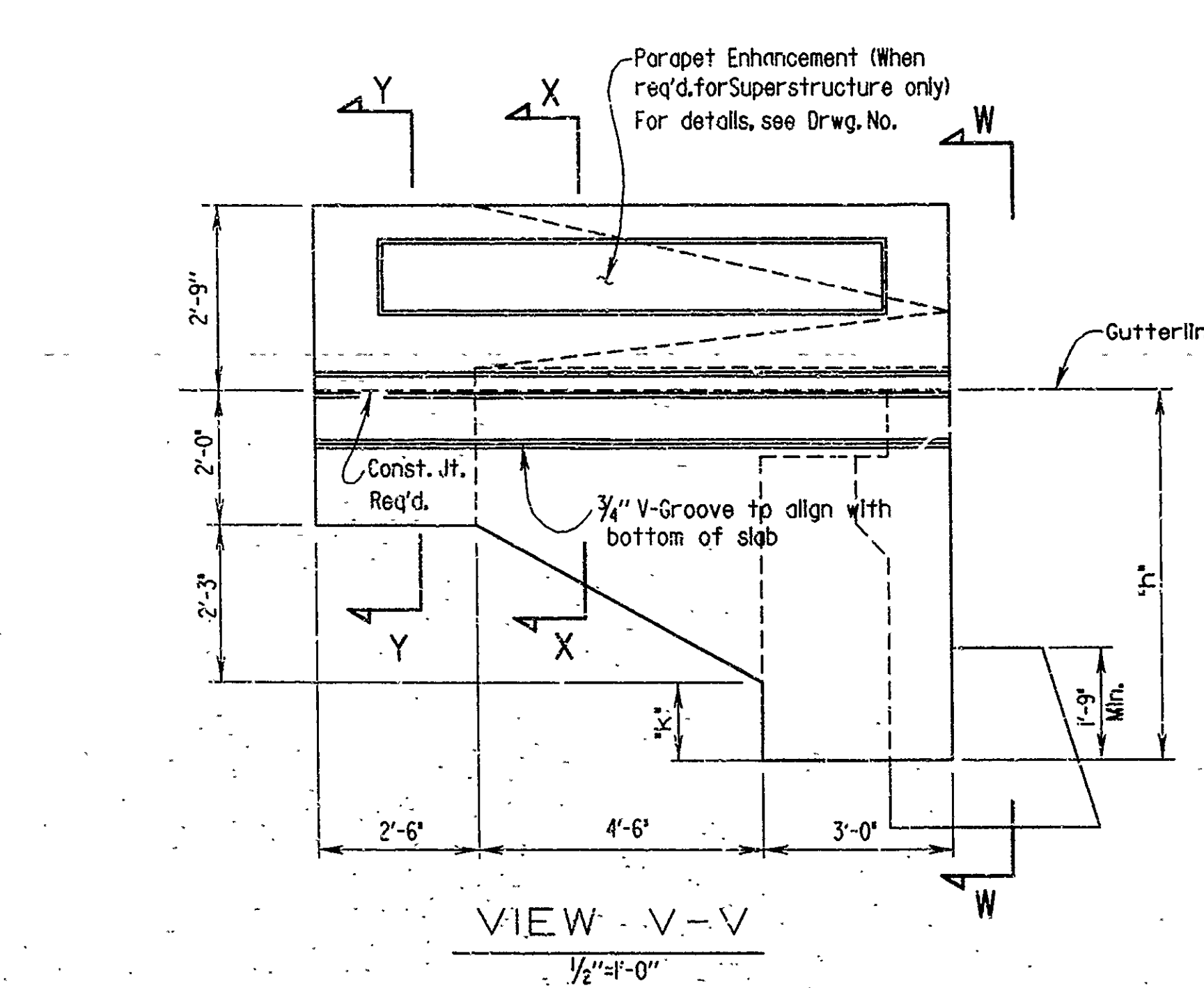
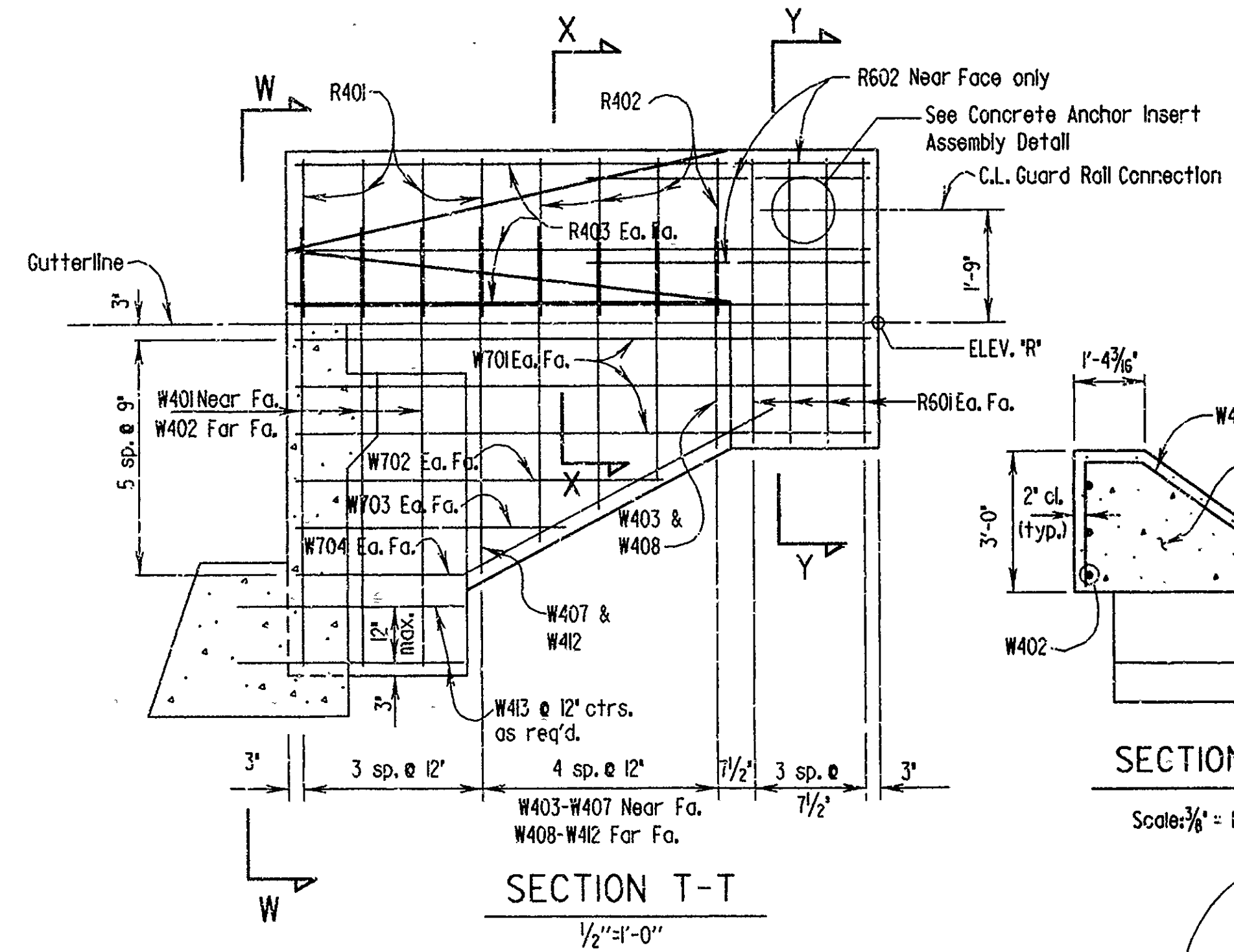


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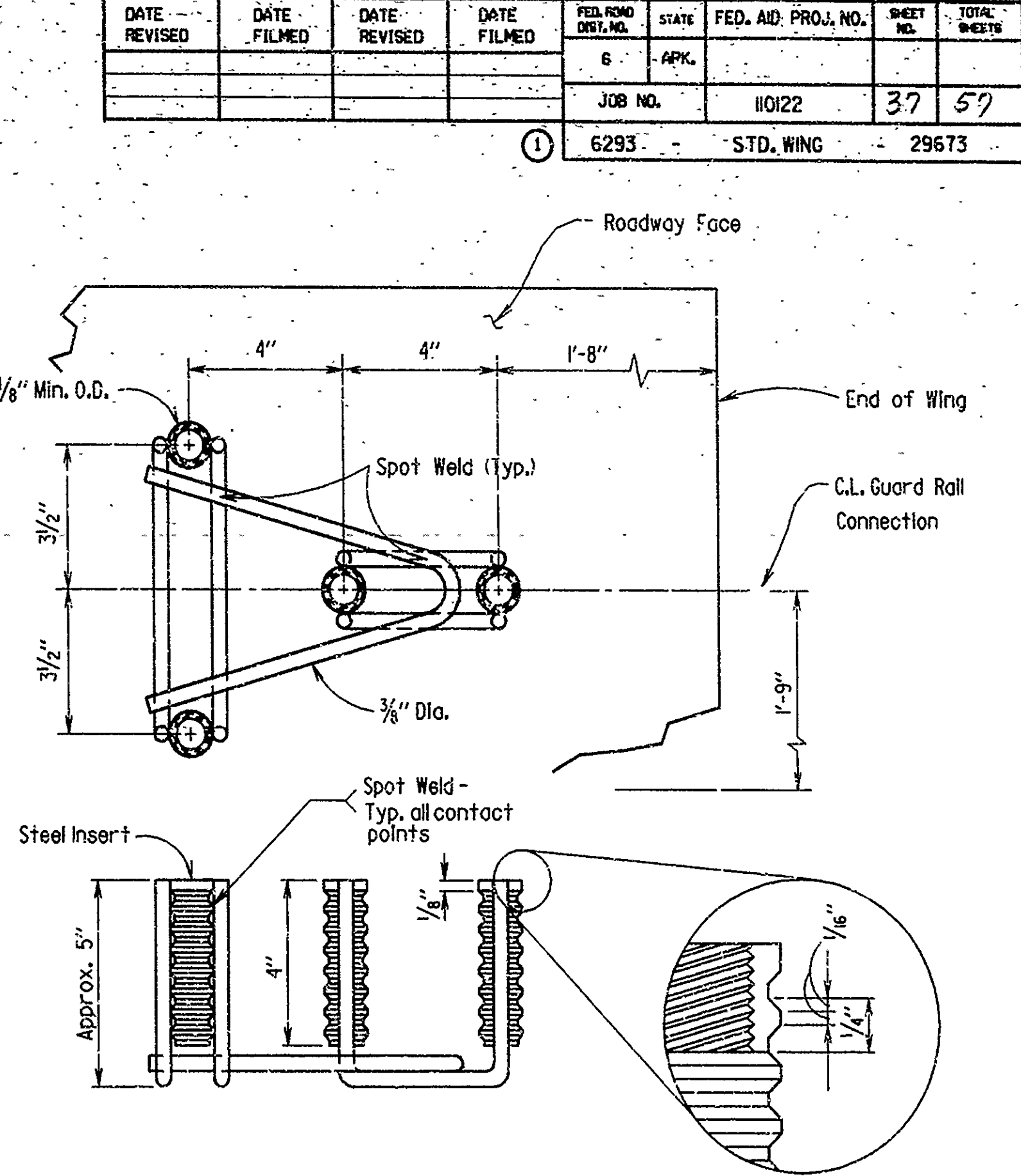


NOTE:
Wing and Rail details shown are for square bridges. Details for skewed bridges are similar. For additional details, see End Bent Details.



BAR LIST (ONE WING & RAIL)					
MARK	NO.	REQ'D.	LENGTH	A	B
R401	4	3'-11"			2'
R402	4	4'-0"			2'
R403	6	9'-8"			Str.
R601	8	4'-5"			Str.
R602	3	5'-0"			Str.
W401	3	6'-10"	5'-8"		2'
W402	3	7'-10"			Str.
W403	1 of each	Var. 3'-5" to 5'-5"	Var. 2'-3" to 4'-3"	1'-2"	2'
W407	1 of each	Var. 4'-6" to 6'-6"			Str.
W408	1 of each	Var. 4'-6" to 6'-6"			Str.
W412	2	7'-8"	1'-1/2"	3'-11"	2'
W701	6	9'-8"			Str.
W702	2	6'-0"			Str.
W703	2	4'-6"			Str.
W704	2	8'-4"			5/4"

BENDING DIAGRAMS



CONCRETE INSERT ANCHOR ASSEMBLY

Minimum capacity of guard rail attachment by concrete insert anchor assembly or other means shall be 12,000 lbs. ultimate shear capacity per bolt and insert (48,000 lbs. per assembly). There shall be a minimum of four bolts per attachment located as shown. The contractor may use the insert anchor assembly shown, or one similar which provides the same farrule depth and thread length. The capacity of the insert anchor assembly shall be certified to the Engineer.

Guard rail attachment using other types of concrete inserts will be allowed, provided it meets the minimum capacity specified, the capacity is certified, and approval is obtained from the Engineer before use.

Threaded steel insert with solid bottom, tapered to a minimum threaded depth of 2 1/2" for use with 3/8" x 2 1/2" high strength hex bolts and two hardened steel washers as shown in Table B of Section 807 of the Standard Specifications.

Bolts shall conform to the requirements of ASTM A325 and shall be threaded full length. Bolts and washers shall be galvanized in accordance with ASTM A153.

Bolts shall be installed in accordance with Subsection 807.22(d) of the Standard Specifications.

Note: Concrete Insert Anchor Assembly will not be paid for directly, but will be considered subsidiary to the item of Class S or Class S (AE) Concrete.

Note: For details of guard rail connections, see Drwg. No. GR-8 & GR-8A.

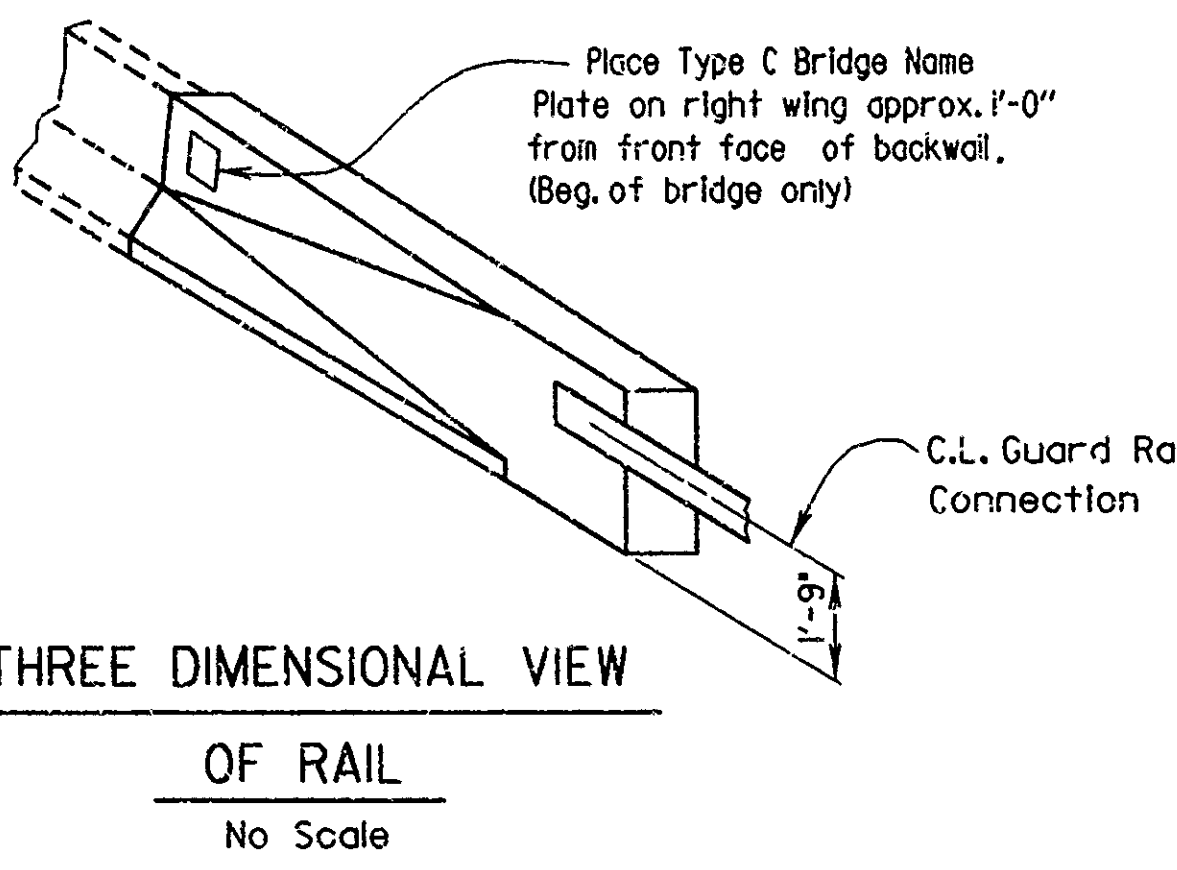


TABLE OF VARIABLES

Bent No.	Wing	Elev. 'R'	*h*	*k*	l
1	Wing A	188.641	5'-6"	1'-3"	3 3/16"
	Wing B	188.641	5'-6"	1'-3"	3 3/16"
8	Wing A	188.641	5'-6"	1'-3"	3 3/16"
	Wing B	188.641	5'-6"	1'-3"	3 3/16"

Tabular Data By: LDF Date: 2-9-88
Checked By: JAS Date: 2-10-88

BRIDGE ENGINEER

ALTERNATE MO. 2
STANDARD DETAILS
FOR WING AND RAIL
WOODRUFF COUNTY
ROUTE 38 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KMG DATE: SEPT. 87
CHECKED BY: JAS DATE: SEPT. 87
DESIGNED BY: DATE: SCALE: As Shown
BRIDGE NO. 6293 DRAWING NO. 29673