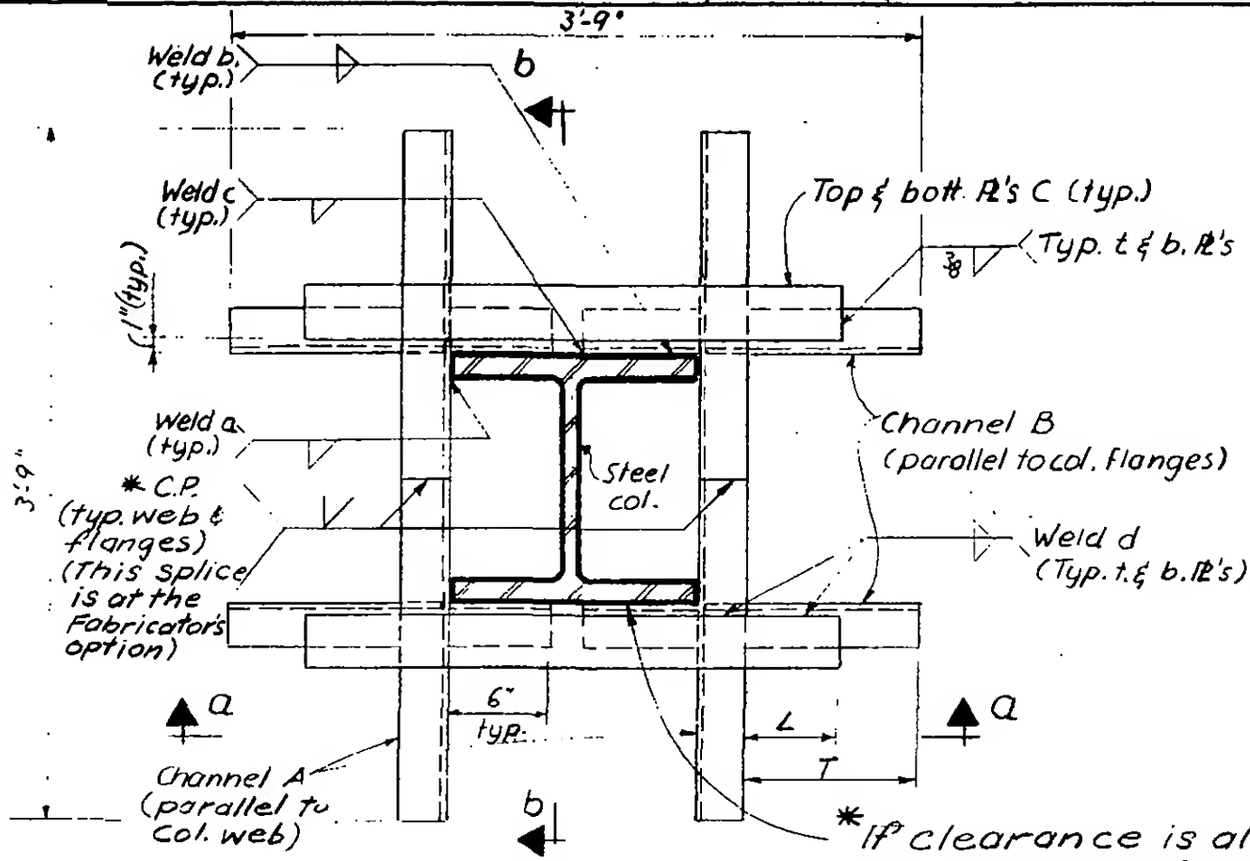
SKILLING - HELLE - CHRISTIANSEN - ROBERTSON Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE COLUMN SHEAR HEAD DETAIL - TYPE V, W, X | DATE 11-24-67

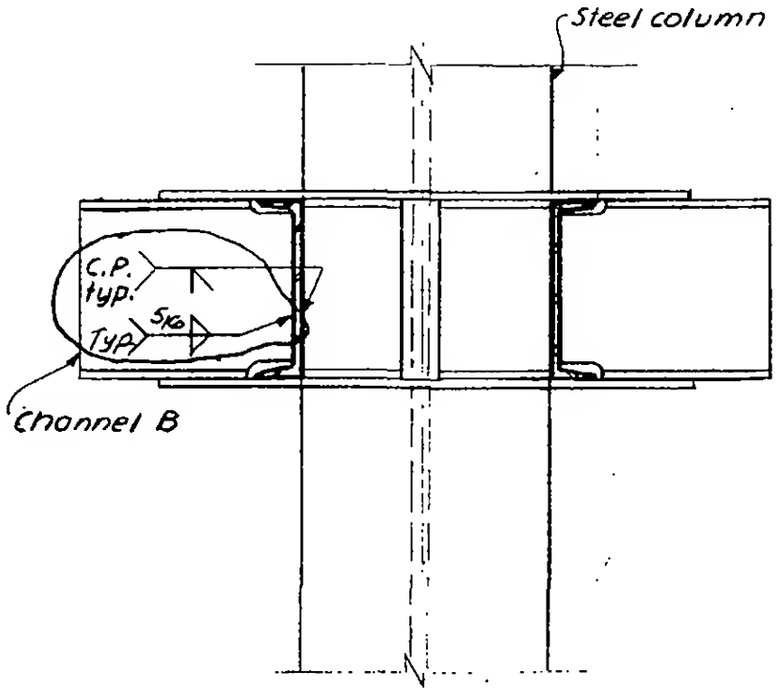
REVISIONS
- 1-5-68
- 1-29-68
- 6-28-68
- 12-3-68



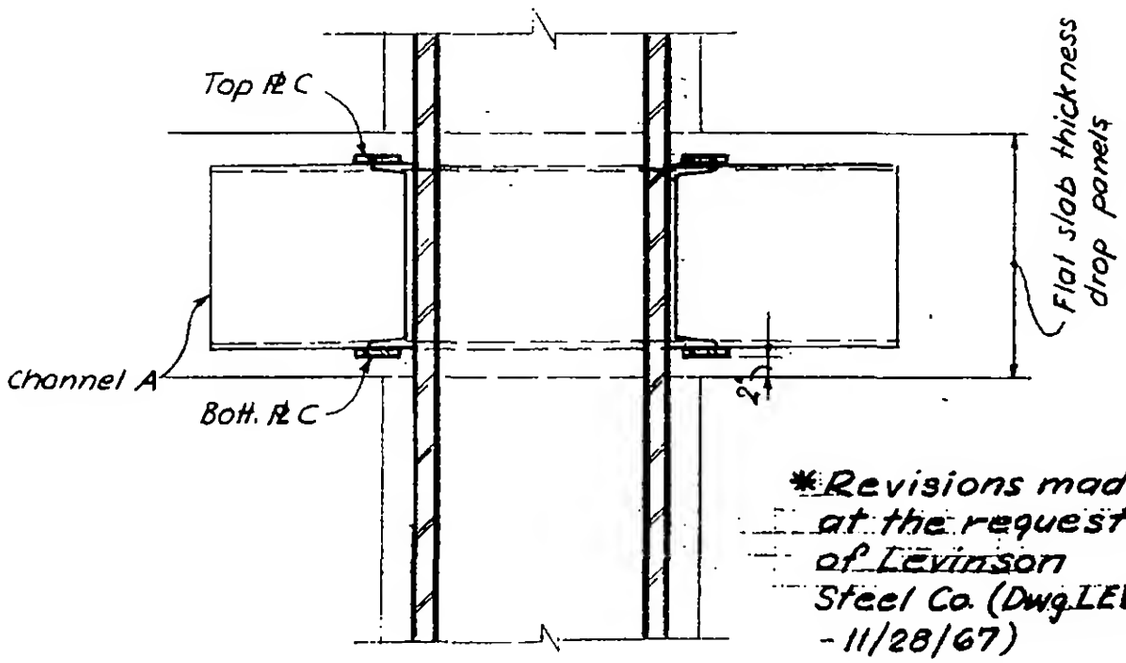
PLAN

SCHEDULE (All material with Fy = 50 ksi - E70 welding)		SHEAR HEAD TYPE		
		V	W	X
Member sizes	Channel A	12 x 3½ [32.9	12 x 3½ [32.9	10 x 4 [33.6
	Channel B	12 x 3½ [37	12 x 4 [45	10 x 4 [33.6
	Pl's C	3½ x ½ x 3'-2"	3½ x ½ x 3'-4"	3½ x ½ x 3'-4"
	**min. L	8"	10"	10"
Weld sizes	a	½	½	½
	b	½	5/8	½
	c	½	5/8	½
	d	3/8	3/8	3/8

** For large columns where L ≥ T, reduce L so that T - L = ½".



Section a-a



Section b-b

*Revisions made at the request of Levinson Steel Co. (Dwg LEV. *9 - 11/28/67)

LICENSED PROFESSIONAL ENGINEER LESLIE E. ROBERTSON No. 34360 UNIVERSITY OF THE STATE OF NEW YORK

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