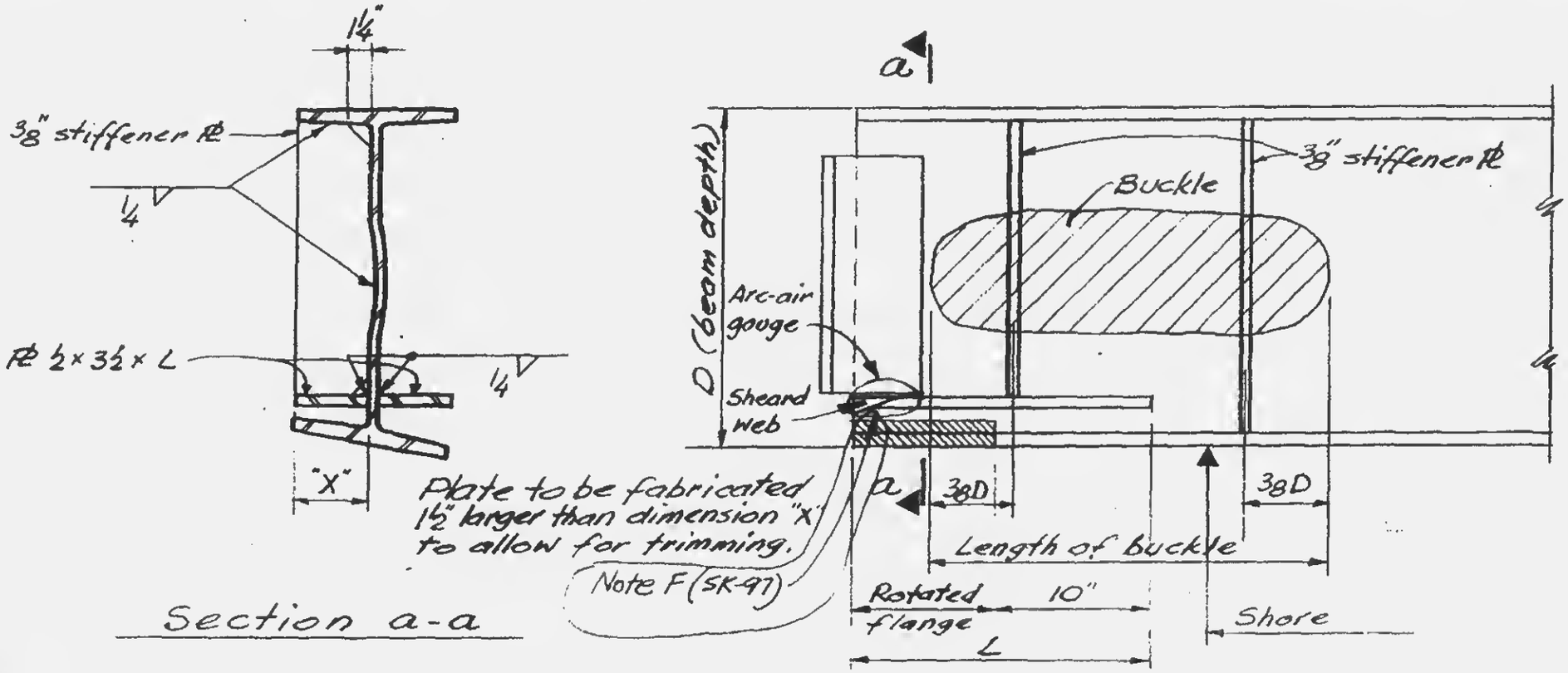
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: K1-EL.310 REPAIR DETAIL FOR EXISTING STEEL | DATE: 6-12-72

REVISIONS
6-16-72



Section a-a

3/8" stiffener plates to be placed as follows:

LENGTH OF BUCKLE	No. OF PLATES	PLACEMENT OF STIFFENERS
0.75 D	1	Center in bulge
0.75 D > 1.00 D	2	as shown above
1.00 D > 2.00 D	3	2 outside as shown above -center one centered between

Procedure

1. Shore beam.
2. Remove angle connections.
3. Drill hole to terminate crack.
4. Straighten and arc-air gouge area of sheared web.
5. Replace with sound weld metal or remove distorted material and replace with full penetration welded A-36 patch plate of same thickness of web.
6. Replace with same type connection, but capacity to be as shown in Plan.
7. Trim vertical stiffener plates to fit and install number and location as shown in table
8. Remove shores.

Detail F9

Buckled web, sheared web & rotated flange

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

DESIGNED
DRAWN
REVIEWED

12-JK7-13