

SPANWISE BEAM #1 - WING CENTER TANK

CW-901
C-970
GREEN

This section extends from the stiffener at LBL 57.51 to approx BL 0 and includes the upper chord, the web, one access door, stiffeners at LBL 11 through LBL 57.51, and stabilization straps. It does not include the lower chord or the lower portion of the web.

The upper 34" of the stiffener at LBL 57.51 is not attached to the web and shows a shear failure of the rivets that would be common to the web on CW-902. All of the rest of the stiffeners have remained attached to the web. The upper shear ties and the upper portion of the stiffener are broken off at LBL 11.00, 34.00 49.60, and 57.51. The upper shear tie remained attached at LBL 41.77 and 17.27. The lower shear ties were intact at LBL 17.27, 25.26, 41.77, 49.6 and 57.51. The shear tie and lower portion of stiffener is missing at LBL 11.00 and LBL 34.00. The majority of the stiffener's free flange (which is on fwd side in this beam) remains attached except at LBL 11.00 and LBL 49.60. The stiffeners do not exhibit any bending in the fore/aft direction. The web exhibits tearing and jagged fractures and is bent aft between LBL 49.6 and LBL 57.5.

The access door remains attached to the adjacent vertical stiffeners and web. The honeycomb face sheet is missing on the aft side and the forward face sheet is torn both vertically and horizontally. The tear is 16" long and 9" wide. The ribbon from the honeycomb core is shredded in the aft direction leaving a 4" x 13" hole in the core.

Detail documentation of the shear tie and the bolt holes elongation is documented in the shear tie study notes.

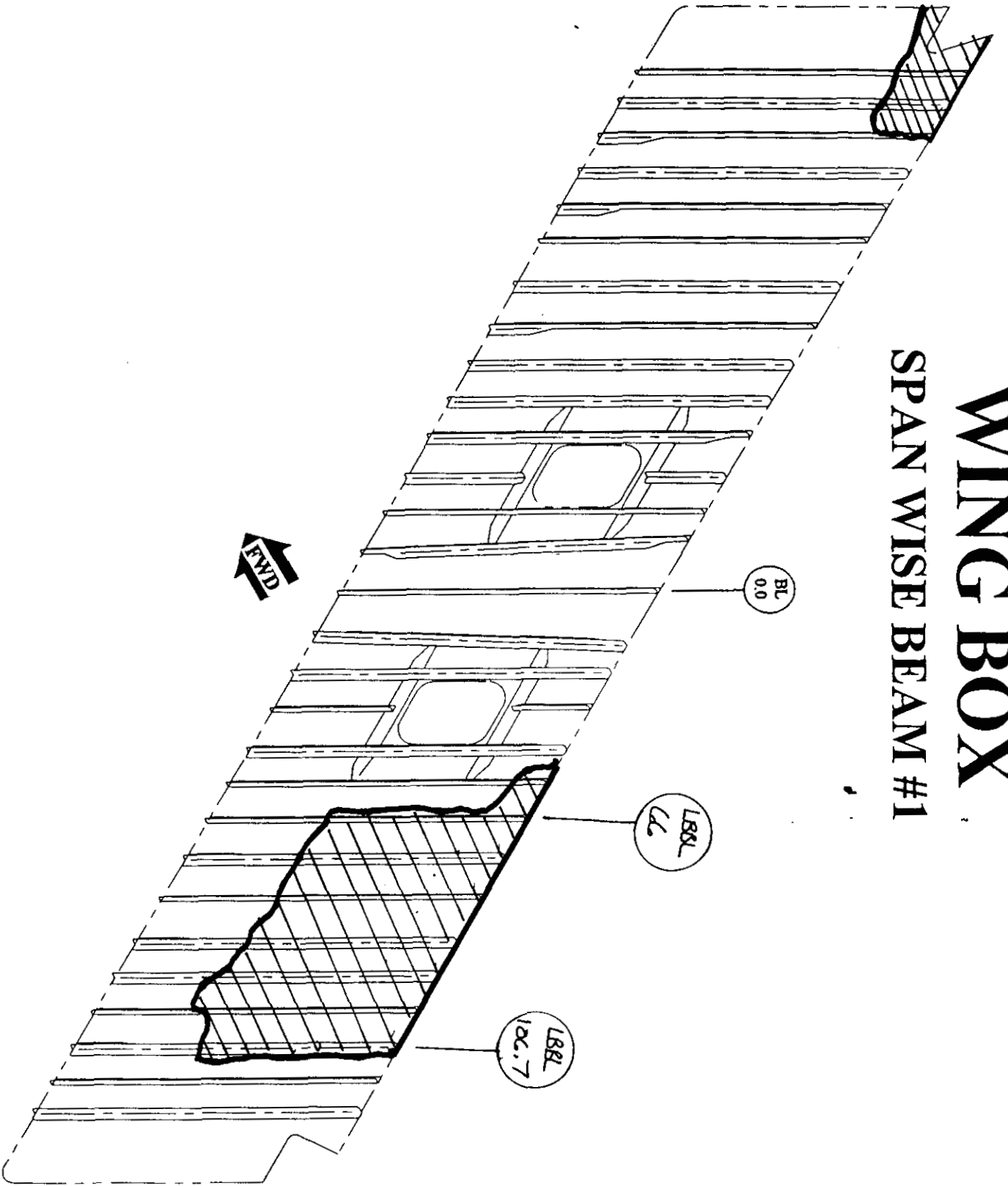
There is evidence of heavy fire damage to this section and is documented in the Fire and Explosion Group notes.

J. M. [Signature] 12-6-96 TWA
Stephen F. Klappack Jr.
FAA - 12-a 96

SO GREEN 12-2-96 ALPA
C. J. [Signature] 12-8-96 IAM
R. [Signature] 12/12/96

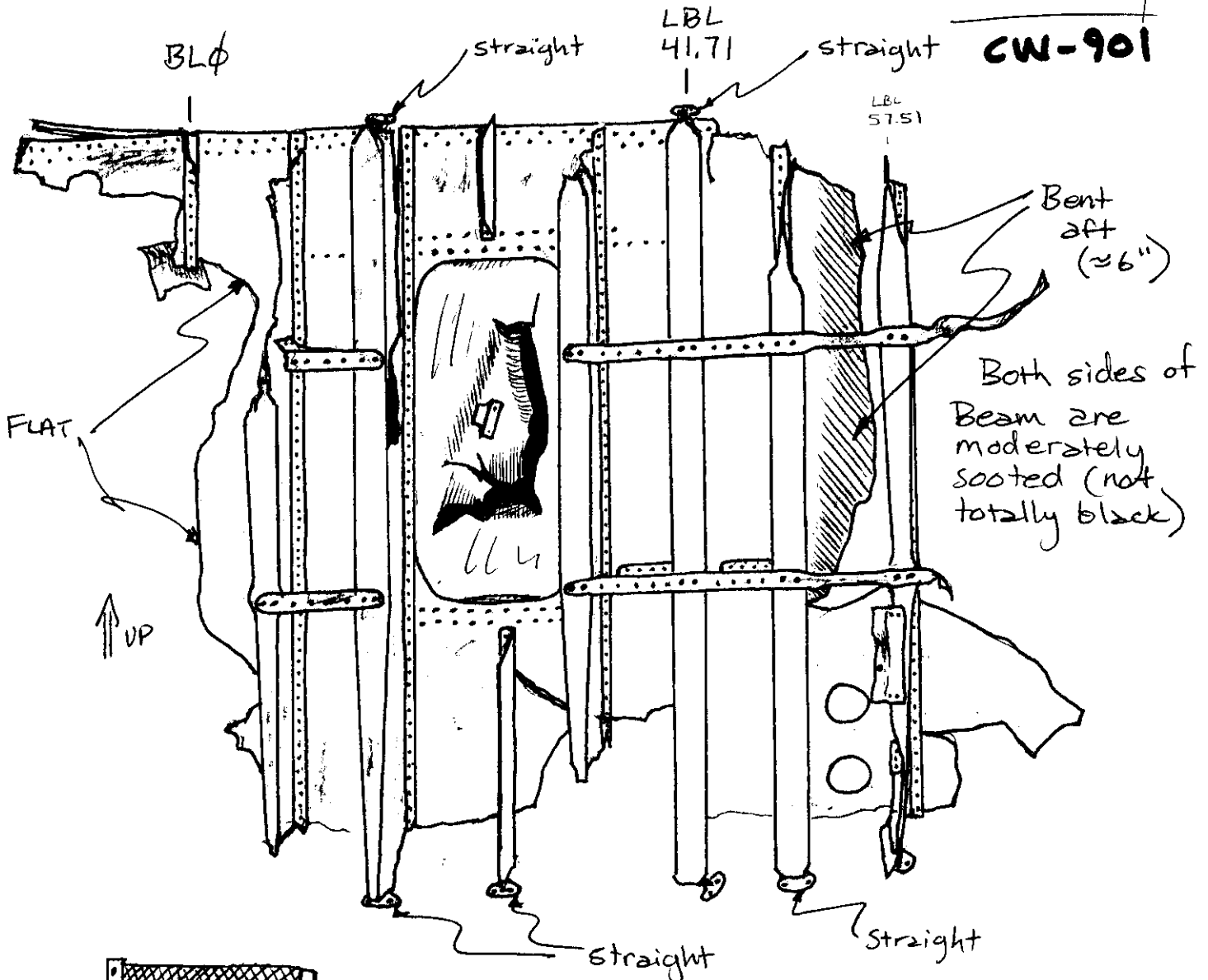
WING BOX

SPAN WISE BEAM #1



SPANWISE BEAM No. 1 SEGMENT

Green Tag
C970
CW-901



Honeycomb intact, aft face sheet gone

VIEW LOOKING AFT

VIEW OF ACCESS DOOR LOOKING FWD

S. Chisholm
8/21/96