

PROPERTIES OF SECTIONS

SIZE	A	I	S.M.	V
36' O.D. X 1.500"	162.8"	24,200" ⁴	1,345" ³	12.2"

STRESS IN KINGPOST

BOOM PARALLEL TO \perp OF SHIP
 BOOM AT 25° TO HORIZ.
 HOOK LOAD 10 TONS
 $\frac{1,200,850 \times 12}{1,345} = 10,780 \text{ #/} \square$ AT BOAT DK. F.S.=5.6

TORQUE

$\frac{185,000 \times 12}{2,690} = 825 \text{ #/} \square$

FOR'D KINGPOSTS
 10 TON BOOM FORE & AFT
 SCALE: 1/16" = 1'-0"
 FORCE DIAGRAMS 1" = 4000#

BETHLEHEM ALAMEDA SHIPYARD INC.	
ALAMEDA, CALIFORNIA	
TITLE STRESS DIAGRAMS & CALCULATIONS	
KINGPOSTS WITH 10 TON BOOM	
SCALE 1/16" = 1'-0"	DATE DEC. 27, 1944
DRAWN BY H.E.B.	APPROVED
APPROVED <i>Cummet Jones</i>	
PLAN No.	UD-1051



ASSUME SHEAVE FRICTION 4%
 PROPERTIES OF SECTIONS

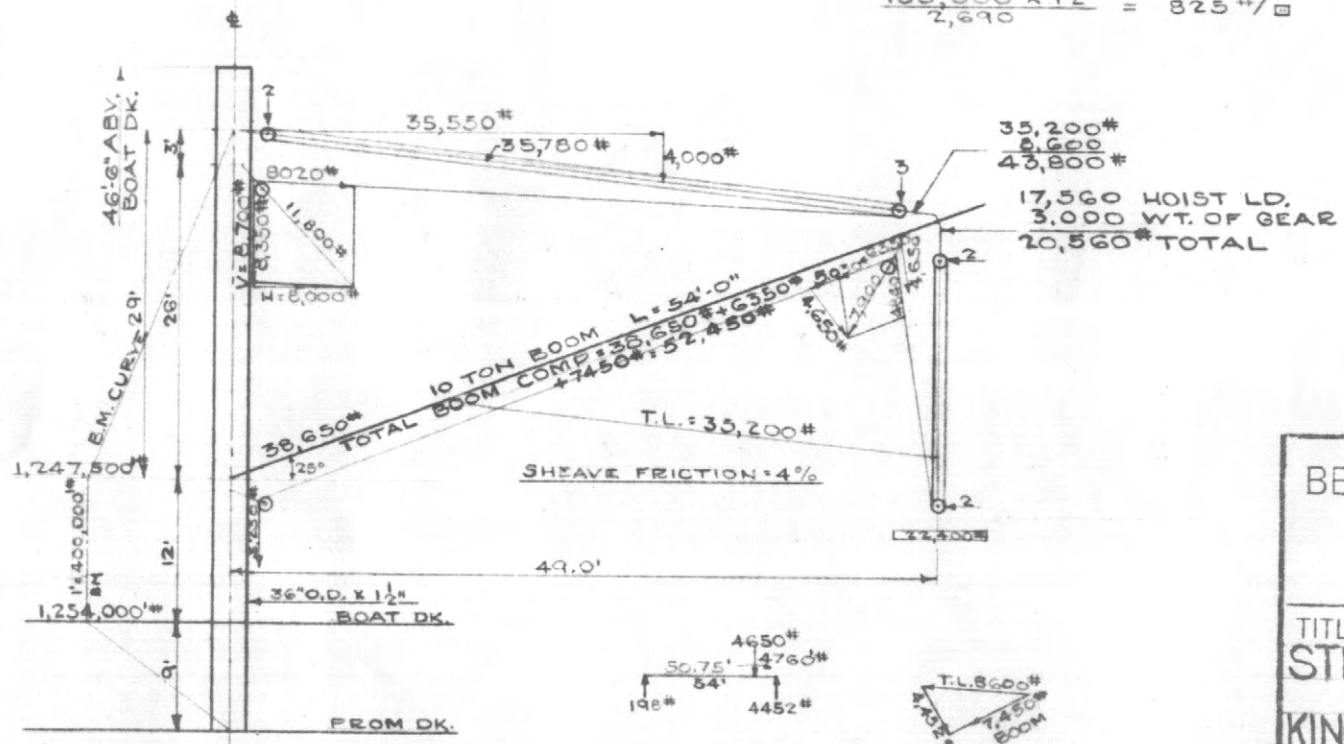
SIZE	A	I	S.M.	V
36" O.D. x 1.500"	162.8 ⁰⁰	24,200"	1,345"	12.2"

STRESS IN KINGPOST

BOOM PARALLEL TO ϵ OF SHIP
 BOOM AT 25° TO HORIZ.
 HOOK LOAD 10 TONS
 $\frac{1,254,000 \times 12}{1,345} = 11,200 \#/\square$ AT BOAT DK. F.S. = 5.4

TORQUE

$$\frac{185,000 \times 12}{2,690} = 825 \#/\square$$



AFT KINGPOSTS
 10 TON BOOM FORE & AFT
 SCALE: 1/16" = 1'-0"
 FORCE DIAGRAMS 1" = 4,000#

BETHLEHEM ALAMEDA SHIPYARD INC.
 ALAMEDA, CALIFORNIA

TITLE
 STRESS DIAGRAMS & CALCULATIONS
 KINGPOSTS WITH 10 TON BOOM.

SCALE 1/16" = 1'-0"	DATE DEC. 27, 1944
DRAWN BY H.E.B.	APPROVED
APPROVED <i>Ernest Jones</i>	
PLAN No.	