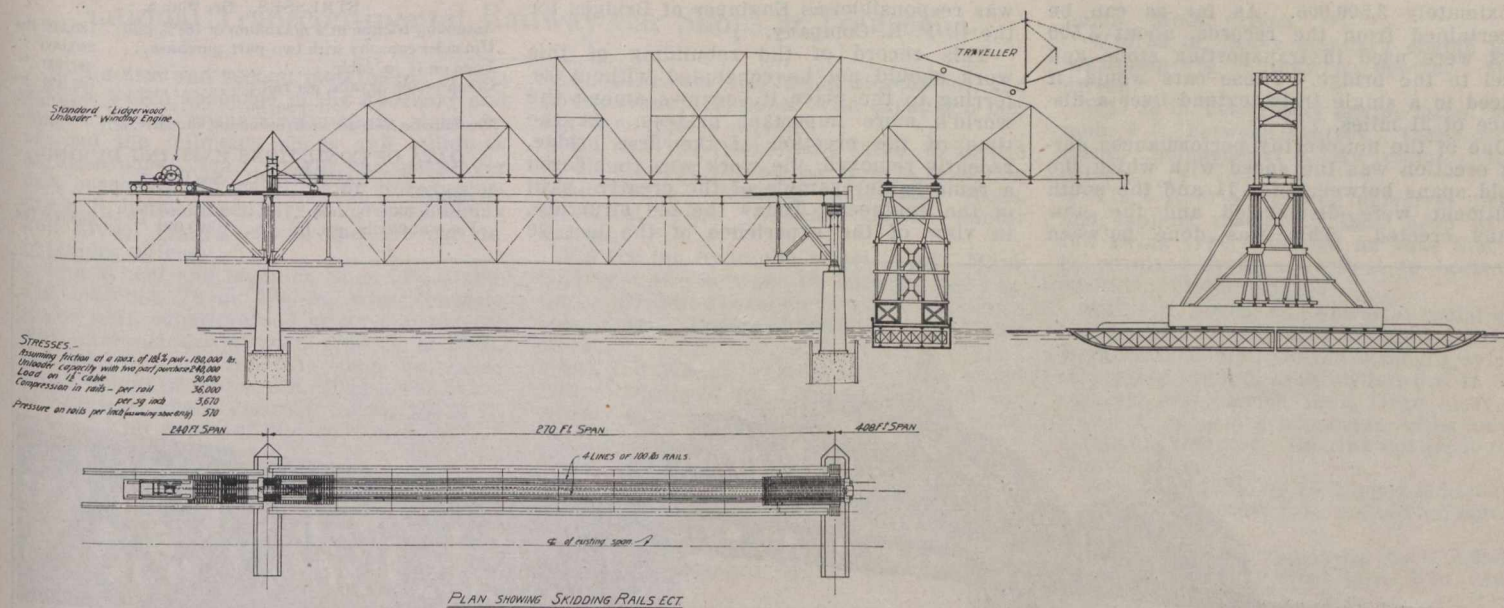


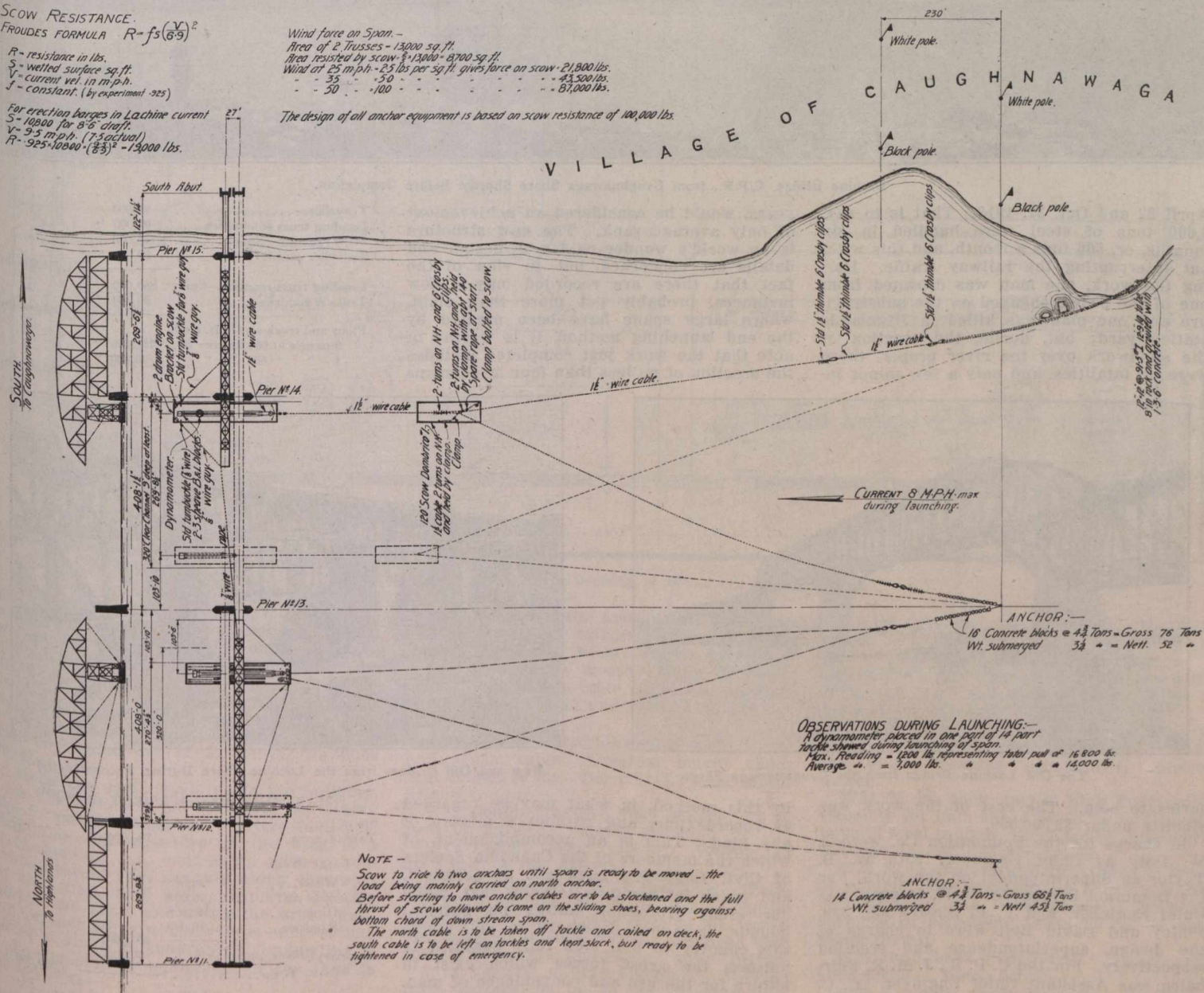


Plan 5.—Lachine Bridge, C.P.R. Scheme for Launching 400 ft. Span.

SCOW RESISTANCE.
FROUDE'S FORMULA $R = f_s \left(\frac{V}{6.9} \right)^2$
R = resistance in lbs.
S = wetted surface sq. ft.
V = current vel. in m.p.h.
f = constant. (by experiment .325)
For erection barges in Lachine current
S = 10,000 for 8' 6" draft.
V = 9.5 m.p.h. (7.5 actual)
R = .325 x 10,000 x (8.3)^2 = 18,000 lbs.

Wind force on Span—
Area of 2 Trusses = 13,000 sq. ft.
Area resisted by scow = 13,000 - 6,700 sq. ft.
Wind at 25 m.p.h. = 25 lbs. per sq. ft. gives force on scow 21,800 lbs.
35 - 50 - 100 - 87,000 lbs.

The design of all anchor equipment is based on scow resistance of 100,000 lbs.



Plan 6.—Lachine Bridge, C.P.R. Location of Anchors, Scows, Etc.