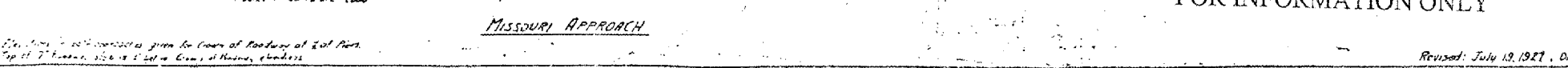
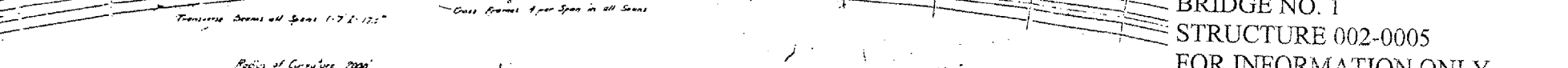
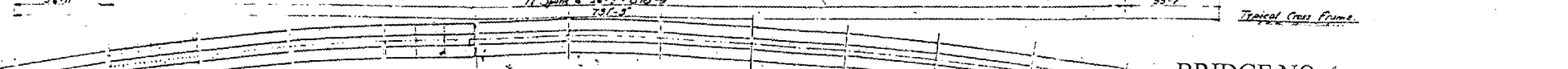
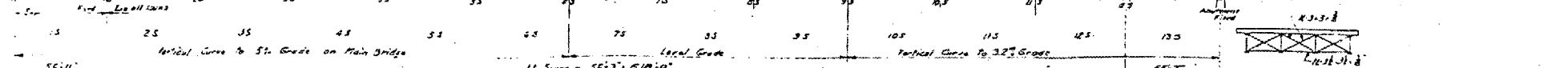
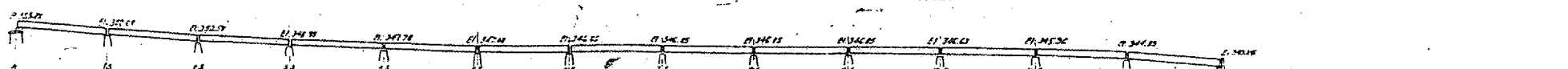
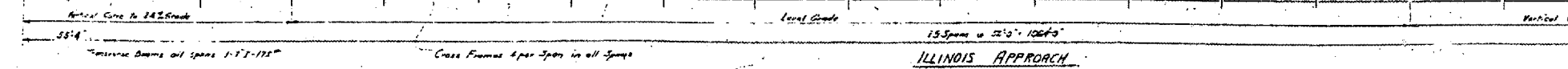
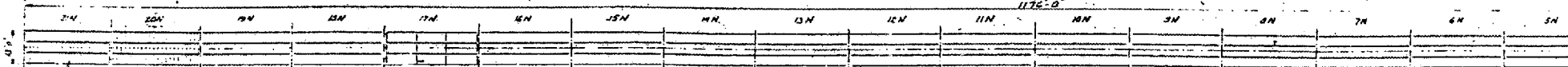
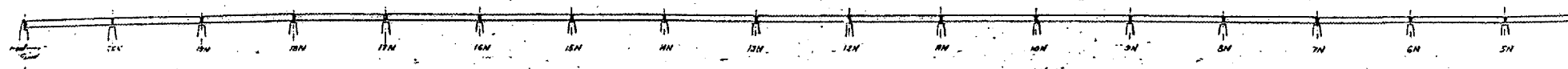
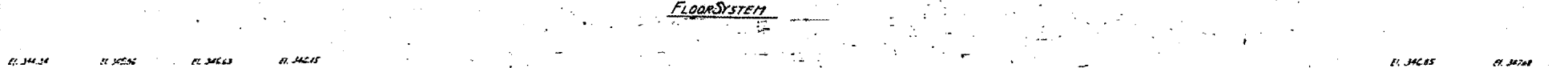
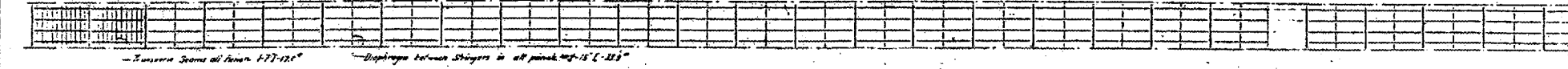
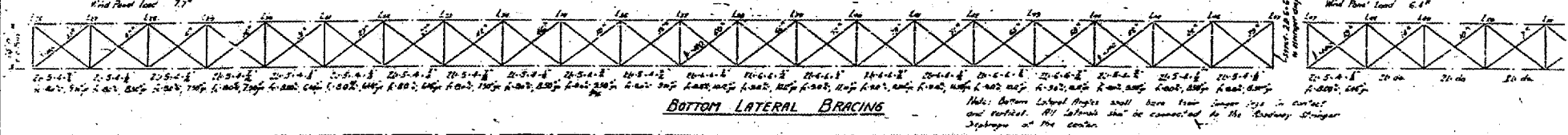
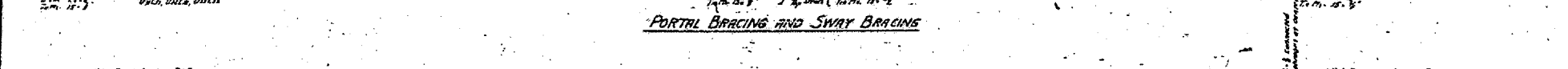
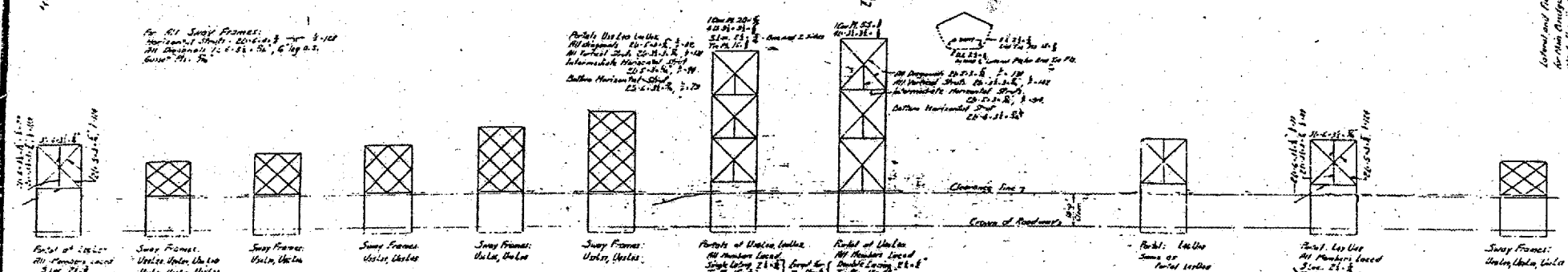
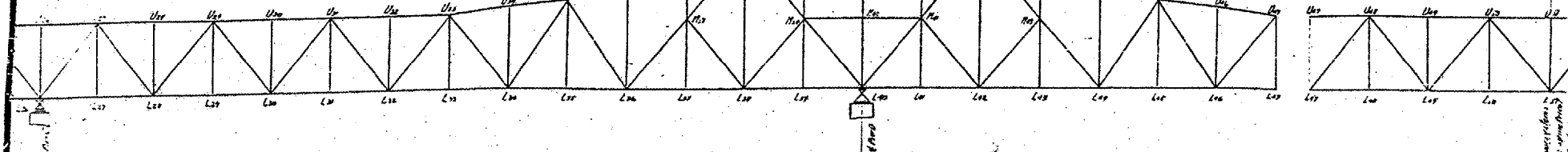
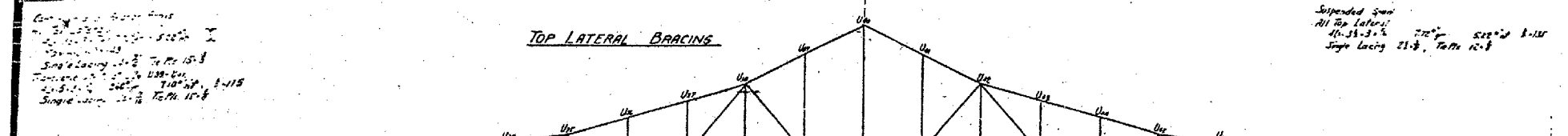
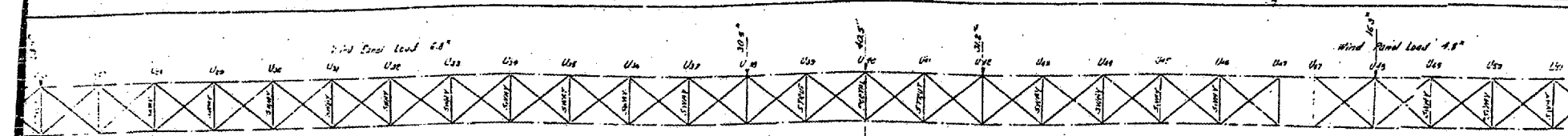


CONTRACT 98939
 U.S. RTE. 60 & U.S. RTE. 62
 (138D-BR) P-1
 ALEXANDER COUNTY
 SHEET 5 OF 85



Inner Stringers:

Item	Amount	Weight
Dead Load	82000	11600
Live Load	117000	16000
Impact 30%	35100	4900
Total	234100	32500

Section Modulus Required = 12000 - 180 End Connection Rivets
 Use 24 Carnegie Beams 24" x 112

Outer Stringers:

Item	Amount	Weight
Dead Load	23000	12200
Live Load	110000	15100
Impact 30%	33000	4500
Total	266000	31800

Section Modulus Required = 6000 - 180 End Connection Rivets
 Use 24 Carnegie Beams 24" x 112

Intermediate Floorbeams: Use same sections for all floorbeams

Item	Amount	Weight
Dead Load	31000	17000
Live Load	22000	29000
Impact 30%	6700	9000
Total	60700	55000

Guard Rail:
 Height: 15'-3 1/2" Top Rail
 Posts: 12'-6 3/4" at Midpoint
 16'-5 3/4" at Endpoints and Spots

Approaches:
 Transverse Floorbeams: Use 24 Carnegie (21 Spans)
 Use 7' x 17 1/2" Same as Main Bridge

Stringers: Note: Data given below is based on same length of stringers as 55' Use same Stringers on both approaches

Item	Amount	Weight
Dead Load	31500	29000
Live Load	23000	23000
Impact 30%	7100	8000
Total	61600	60000

Guard Rail: Same as Main Bridge

For data on Live Loads See Sheet 5

Materials:
 Main Material Carbon Steel
 Details Connection Carbon Steel
 Rivets: 7/8" Diameter except 1/2"

BRIDGE NO. 1
 STRUCTURE 002-0005
 FOR INFORMATION ONLY

THE CAIRO BRIDGE AND TERMINAL COMPANY
 MISSISSIPPI RIVER BRIDGE AT CAIRO, ILLINOIS
 APPROACH SPANS AND FLOOR AND BRACING ON MAIN SPANS
 STRESS SHEET
 WADDELL AND HARDESTY, CONSULTING ENGINEERS
 NEW YORK CITY
 MAY 12, 1927