



ELEVATION
AT RT. 15 TO EXPRESSWAY
SCALE: 1/2" = 1'-0"

PLAN
SCALE: 1/8" = 1'-0"

DESIGN DATA

LIVE LOAD
COOPER E72 PLUS DIESEL IMPACT

SPECIFICATIONS
DESIGN IN ACCORDANCE WITH A.S.T.M. SPECIFICATIONS FOR STEEL RAILWAY BRIDGES FOR FREQ. SPANS NOT EXCEEDING 400 FT. IN LENGTH, DATED 1957

ALLOWABLE STRESSES

(TENSION) STRUCTURAL CARBON STEEL	16,000 LB/SQ IN.
(TENSION) REINFORCING BARS	20,000 LB/SQ IN.
(FLEXURE) CONCRETE	2,500 LB/SQ IN.
(FLEXURE) CONCRETE WITHOUT EXCESSIVE DEFLECTION	1,800 LB/SQ IN.
(FLEXURE) CONCRETE WITH EXCESSIVE DEFLECTION	200 LB/SQ IN.
(FOOTINGS) - 75 LB/SQ IN.	

FOUNDATIONS
ABUTMENTS AND PILES ON SPREAD FOOTINGS
ALLOWABLE PRESSURE ON ABUTMENT 1, 2 & PILES = 8,000 PSF
ALLOWABLE PRESSURE ON ABUTMENT 5 = 7,000 PSF

APPROVED BY C. SWAN AND BELT RY. CO. OF CHICAGO
C. SWAN CHIEF ENGINEER

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

PROJECT NO. 1-158
SCALE: 1/8" = 1'-0"

ALFRED BEYER & ASSOCIATES
CONSULTING ENGINEERS

APPROVED BY: *[Signature]* DATE: 3/1/58

DATE	BY	DESCRIPTION

REVISIONS	
NAME	DATE