

B.M. *30-R.R. Spike in S.E. Root
 28° Cypress - 250' Rt. Sta.
 253+26 Elev. 340.12

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

DATE	NO.	BY	REVISION
10-24-64	54-84	MASSAC	29 17

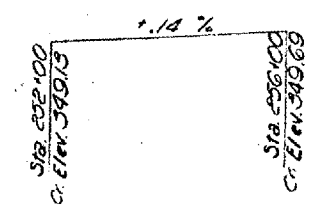
SHEET NO. 1
13 SHEETS

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " ; open holes $\frac{1}{16}$ " ; unless otherwise noted.
 The basic lead silico chromate point system shall be used for shop and field point of Structural Steel.
 Field welding of construction accessories will not be permitted in the bottom of flange of beams or girders nor on the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
 Anchor bolts shall be set before bolting diaphragms over supports.
 Slope walls shall be reinforced with welded wire fabric 6x6 mesh, weighing 58# per 100 sq. ft.
 Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
 Class B Excavation for structure includes excavation for slope wall.
 The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
 Calculated Weight of Structural Steel = 267,200 lbs.
 The Contractor shall drive four (4) test piles in permanent locations;
 two (2) untreated timber piles, one (1) each at Pier 1 S. structure and Pier 2 N. structure, and two (2) concrete piles one (1) each at the W. Abut. N. structure and E. Abut. S. structure as directed by the Engineer before ordering the remaining piles.
 The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

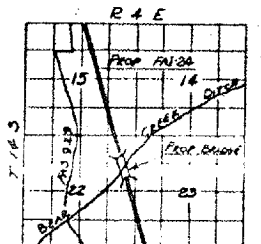
WATERWAY INFORMATION
 Drainage Area - 11,372 acres
 Character - rolling, wooded
 Reg'd. Opening (50 yr. Fl.) 700 sq. ft.
 Present Opening - none
 Proposed Opening - 700 sq. ft.
 Ordinary Flow - Elev. 332.7
 Low Water Flow - Elev. 332.4
 Q₁₀₀ = 3560 cfs

FAI RT 24 PROFILE



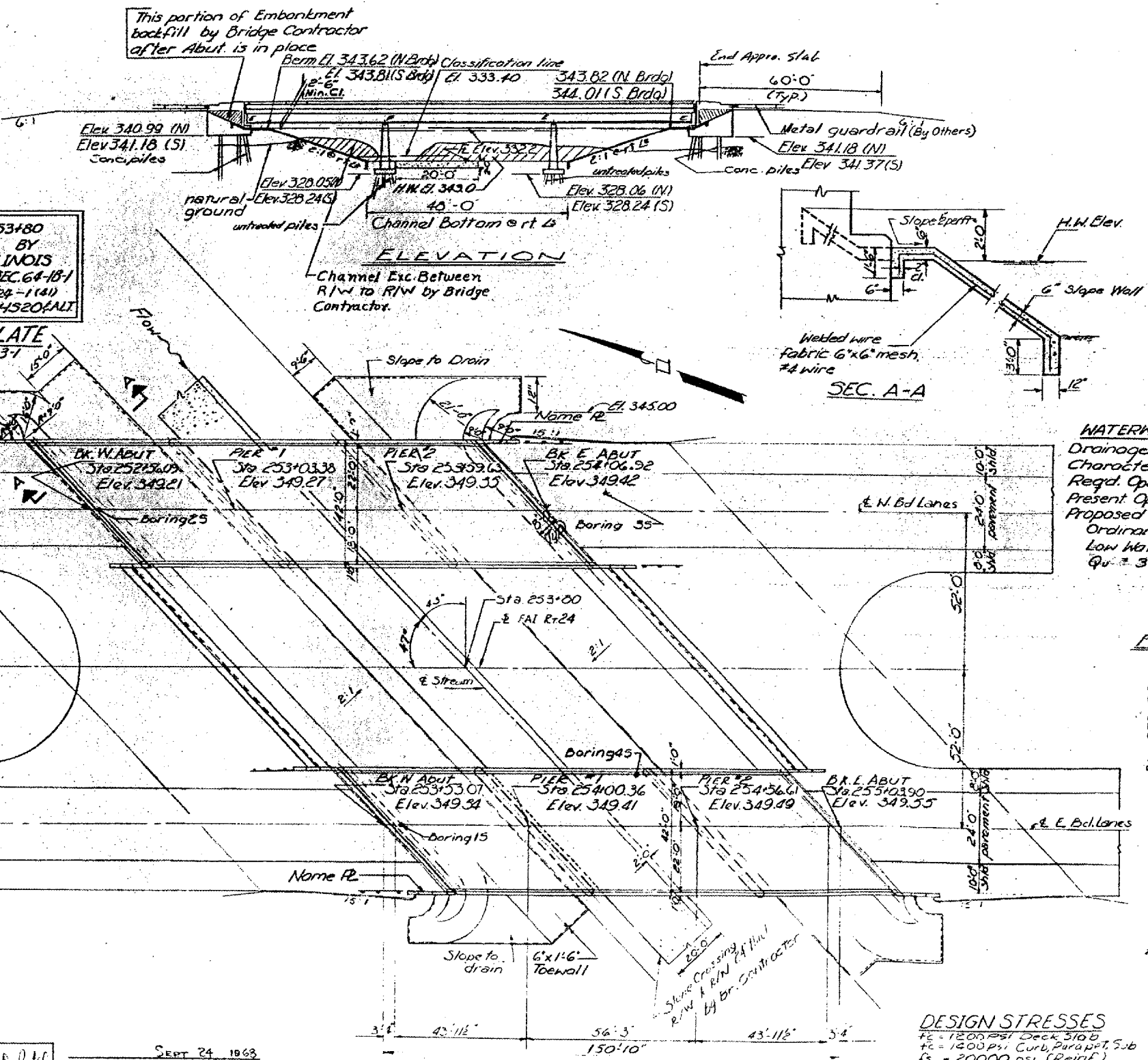
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Class B Exc. for Str.	Cu Yds		470	470
Structural Steel	L.S.	1		1
Bridge Seat Sement	L.S.		2.5	2.5
Class A Concrete	Cu Yds		352.5	352.5
Class X Concrete	Cu Yds	378.6	214.0	592.6
Aluminum Railing	Liq. Ft.	586		586
Reinforcement Bars	Lbs.	11,112	36840	47,952
Untreated Piles (over 45')	Liq. Ft.		4641	4641
Concrete Piles	Cu Ft.		2850	2850
Test Piles (timber)	Each		2	2
Test Piles (concrete)	Each		2	2
Protective Coat	Sq. Yds	1580		1580
Name Plate	Each			1
Slope Wall (6")	Sq. Yds			1



LOCATION PLAN
 PROJ. I-24-1(4)26
 GENERAL PLAN

FOR INFORMATION ONLY:
 BRIDGE NO. 1 STRUCTURE 064-0017
 BRIDGE NO. 2 STRUCTURE 064-0018



STATION 253+80
 BUILT 196 BY
 STATE OF ILLINOIS
 F.A.I. RT. 24 SEC. 64-18-1
 FA. PROJ. I-24-1(4)26
 LOADING H320-44
 NAME PLATE
 See Std. 2113-1

DESIGNED: [Signature]
 CHECKED: L. M. Chey
 DRAWN: A. Barroza C.W.
 D. Derringer
 CHECK: p. J. J.
 EXAMINED: [Signature]
 PASSED: [Signature]
 APPROVED: [Signature]
 SEPT 24 1968

DESIGN STRESSES
 f_c = 12000 psi Deck, 3100
 f_c = 1400 psi Curb, Parapet, Sub
 f_s = 20000 psi (Reinf.)
 f_s = 20000 psi (Struct.)
 n = 75 psi (Flags)
 n = 10
 Allowable $\sigma_c = \frac{f_c}{3}$ (Main Components)
 LOADING: H3-20-44 FAI

PLAN
 Footing layout - See Sheet E