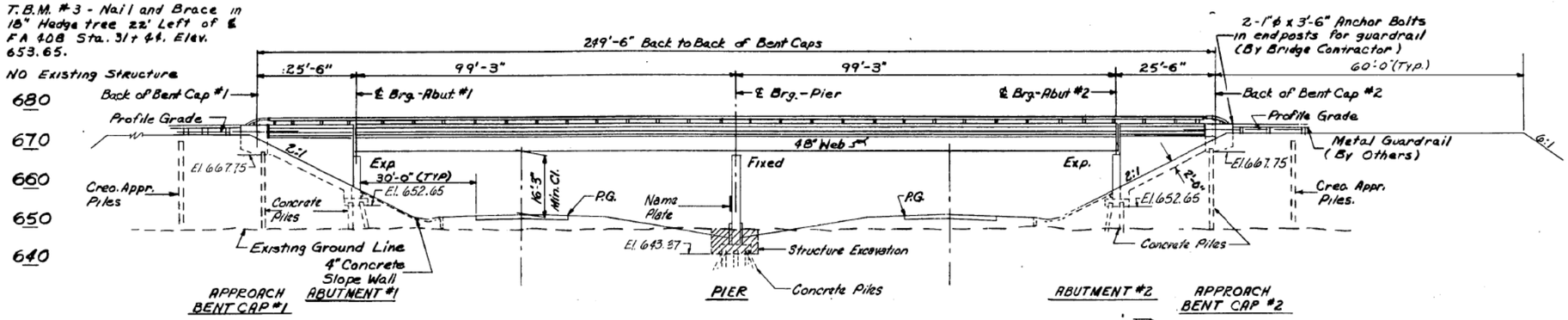
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.-408	84-9-2	SANGAMON	424	86
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

T.B.M. #3 - Nail and Brace in 18" Hedge tree 22' Left of ℄ FA 408 Sta. 31+44, Elev. 653.65.

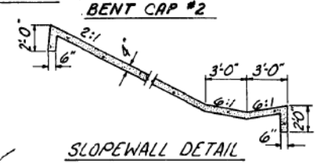
NO Existing Structure



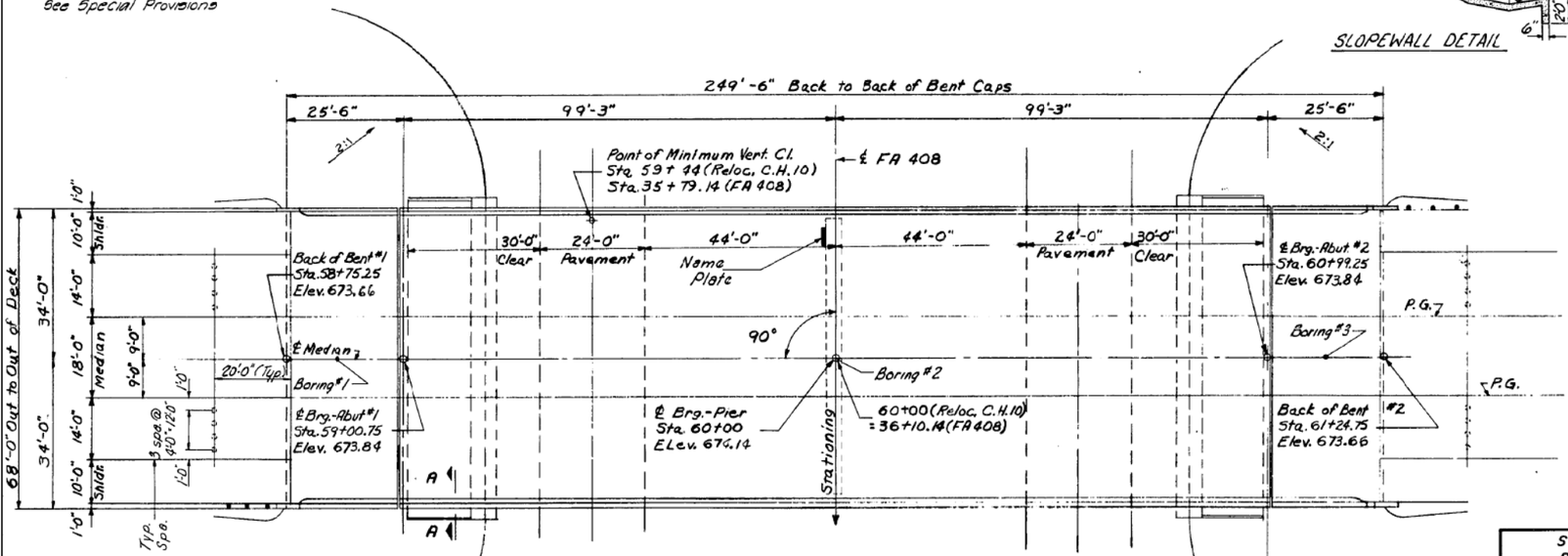
ELEVATION

APPROACH PILE DATA

Type - Creosoted
Reqd. Length - 20'
No. Required - 16
See Special Provisions



SLOPEWALL DETAIL



PLAN

Note: Deck elevations shown are 0.14' higher than profile grade.

DESIGN LOADING

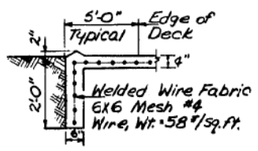
Live HS-20-44 AASHO 1969 Spec. & 1971 Interim
Dead Load includes 25 #/Sq Ft. of Roadway for Future Wearing Surface plus 18 #/Sq Ft. for Initial Waterproofing.

DESIGN STRESSES

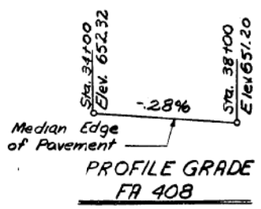
f'c = 1400 p.s.i. Substructure, Curbs & Parapets.
f'c = 1200 p.s.i. Superstructure Slab
vc = 75 p.s.i. Footings
fs = 20,000 p.s.i Reinforcing Steel
fs = 20,000 p.s.i Structural Steel (A-36)
n = 10

LIVE LOAD DEFLECTION

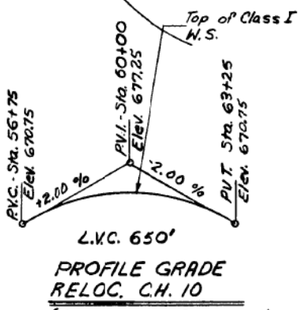
1/1200 for composite construction



SECTION A-A



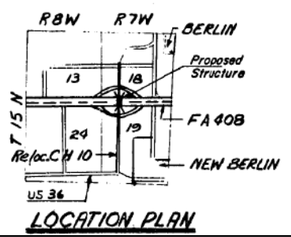
PROFILE GRADE FA 408



PROFILE GRADE RELOC. C.H. 10
(Median edge of pavement)

STATION 36+10.14
BUILT 197 BY
STATE OF ILLINOIS
F.A. RT. 408 SEC. 84-9-2HB
F.A. PROJ.
LOADING HS20

LETTERING FOR NAME PLATE
(See Std. 2113)



LOCATION PLAN

-GENERAL NOTES-

All reinforcement bars shall be lapped 24 diameters unless otherwise noted.

Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$"ϕ open holes $\frac{13}{16}$"ϕ unless otherwise noted.

Calculated weight of Structural Steel = 426,050 LBS.

The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.

Field welding of Construction Accessories will not be permitted to the bottom flange of beams or girders nor to 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.

The Contractor shall drive one Concrete Test Pile each in a permanent location at Bent No.1, Pier and Abutment No.2 as directed by the Engineer before ordering the remainder of piles.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the Abutments.

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.

* Protective coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.

Slope wall shall be reinforced with Welded Wire Fabric 6"x 6" mesh, weighing 58#/100 Sq.ft.

The Contractor shall take precautions against over-driving piles due to presence of extremely dense and hard material.

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders or wide flange beams.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
	Structure Excavation	Cu.Yds.		180.0	180.0
	Class "X" Concrete	Cu.Yds.	577.0	424.3	1001.3
	Reinforcement Bars	Lbs.	131,800	45,290	177,090
	Structural Steel	L. S.	L.S.		L.S.
	Aluminum Railing	Lin. Ft.	513		513
	Name Plates	Each		1	1
	Concrete Piles	Lin. Ft.		2970	2970
	Test Piles (Concrete)	Each		3	3
	Slopewall 4"	Sq. Yds.		648	648
	Stud Shear Connectors	Each	3510		3510
	Preformed Joint Sealer 2½"	Lin. Ft.	136		136
*	Protective Coat	Sq. Yds.	662		662
	Creosoted Piles (Up to 20')	Lin. Ft.		320	320
*	Coal Tar Interlayer Protective Coat	Sq. Yds.	1338		1338
*	Bituminous Concrete Surface Course — Class I	Tons	112.4		112.4
	Sand Backfill	Cu. Yds.		940.0	940.0

* These items to be constructed by Sec. 84-9-2

GENERAL PLAN & ELEVATION

REVISIONS		
No.	DATE	INITIALS
1	8/72	GSH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAWN BY DATE SRK 12-71
CHECKED BY DATE KR 7-72
BOOK NUMBER

RELOC. CH 10 OVER FA 408
FA 408 SEC 84-9-2HB PROJECT
Sta. 36+10.14 (FA 408) SANGAMON CO.

PROJECT NO. 2385-1
SHEET NO. 86

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

REGISTERED STRUCTURAL ENGINEER
GLENN S HARRIS
81 2534
STATE OF ILLINOIS

Glenn S. Harris

FOR INFORMATION ONLY

design firm no. 184001036
whks
engineers + planners + land surveyors

USER NAME =		DESIGNED - CEH		REVISED
FILE NAME =		CHECKED - CWC		REVISED
PLOT SCALE =		DRAWN - DLH		REVISED
PLOT DATE =		CHECKED - CEH/CWC		REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 084-0142
SHEET NO. 3 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	•	SANGAMON	163	120
		CONTRACT NO. 72B54		
	ILLINOIS FED. AID PROJECT			

• (84-9-2&3)RS-2&MISC STRUC REP