

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. /
F.A. 403	195-345	WHITESIDE	42	14	12 SHEETS

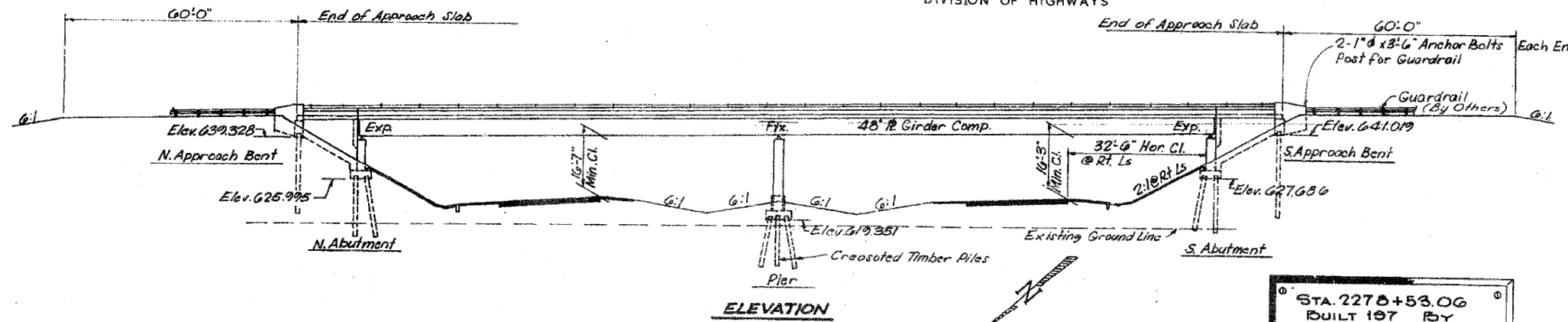
**GENERAL NOTES**

All reinforcement bars shall be lapped 2d diameters unless otherwise shown.  
Fasteners shall be high strength bolts. Bolts 7/8"; open holes 1 1/2", unless otherwise noted.  
Calculated weight of Structural Steel = 337,134 lbs.  
The basic lead silica 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 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. Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.  
The contractor shall drive one concrete test pile at each abutment in place and one timber test pile in vicinity of pier as directed by the Engineer before ordering the remainder of piles.  
Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 513.09 (c) of the Standard Specifications.  
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 the surfaces to which Coal Tar Interlayer Protective Coat is applied.  
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

**DESIGN STRESSES**

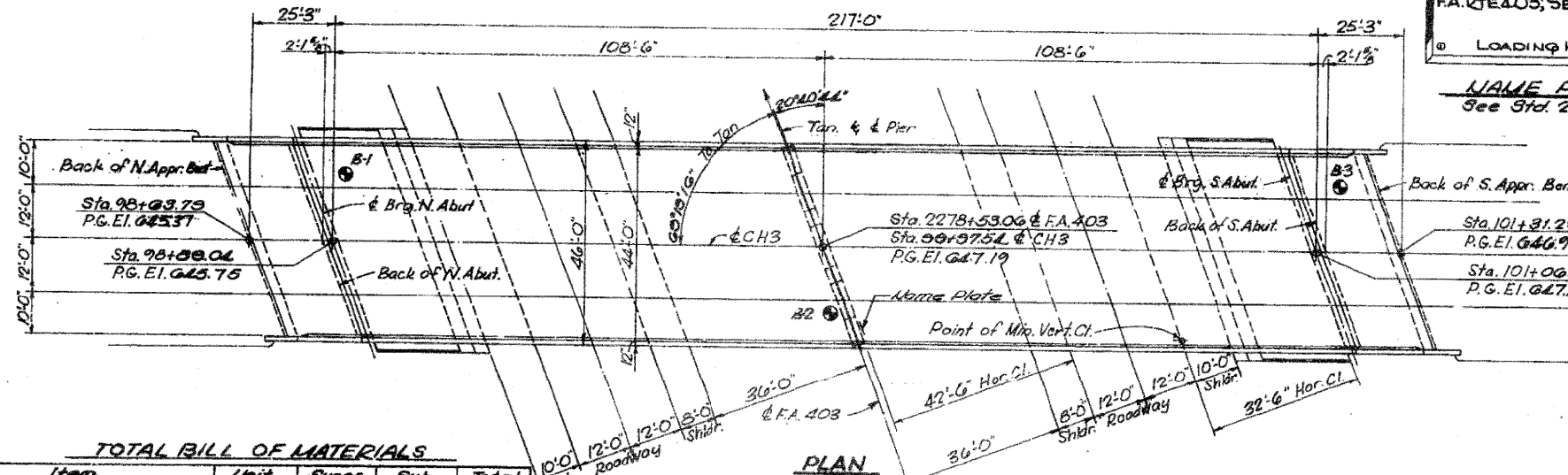
$f_c = 1200$  psi Deck Slab  
 $f_c = 1400$  psi Curb, Parapet, & Substructure  
 $V_c = 75$  psi Ftgs.  
 $n = 10$   
 $f_s = 20,000$  psi Reinf.  
 $f_s = 20,000$  psi Struct.  
Allowable Deflection =  $L/1200$   
Design Specifications 1969 AASHTO (or applicable)

**LOADING - HS 20-44**



STA. 2278+53.06  
BUILT 197 BY  
STATE OF ILLINOIS  
F.A. RTE. 403, SEC. 195-345-1  
LOADING HS20

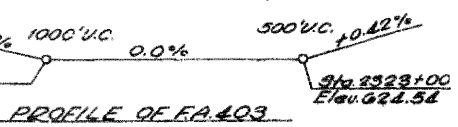
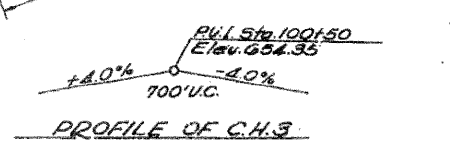
**NAME PLATE**  
See Std. 2113



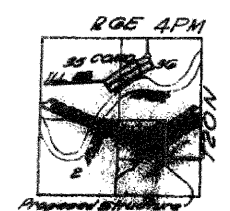
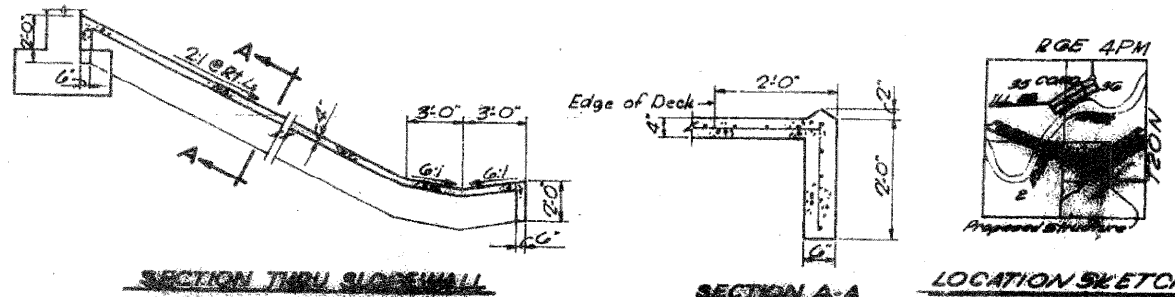
**TOTAL BILL OF MATERIALS**

Item	Unit	Super	Sub	Total
Driving Concrete Piles	Lin. Ft.		3202	3202
Driving Timber Piles	Lin. Ft.		1890	1890
Class X Concrete	Cu. Yds.	419.2	315.7	734.9
Structural Steel	Lump Sum			734.9
Reinforcement Bars	Lbs.	101,249	32,274	133,523
Concrete Piles	Lin. Ft.		3202	3202
Top Concrete	Sq. Yds.		2	2
Struct. Steel	Sq. Yds.		292	292
Coal Tar Interlayer Protective Coat	Sq. Yds.	106		106
Alignment	Lin. Ft.	524		524
Preformed Joint Sealer	Lin. Ft.	98		98
Steel Timber Connectors, etc	Ea.	2232		2232
Name Plate			1	1
Drainage Coping	Sq. Yds.	163	48	211
Concrete	Cu. Yds.		310	310
Timber	Lin. Ft.		1890	1890

DESIGNED H. Walker	EXAMINED	19
CHECKED C. Clary	PASSED	
DRAWN C. Clary	APPROVED	
CHECKED S. McKnight		



**CURVE DATA - FA. 403**  
P.I. Sta. 2287+52.53  
Elev. 654.35  
 $\Delta = 21^{\circ}53'06''$  Lt.  
 $D = 1^{\circ}00'00''$   
 $T = 1107.75'$   
 $L = 2100.50'$   
 $R = 5729.55'$   
 $SE = 0.0411'$



**GENERAL PLAN & ELEVATION**  
**PROJECT F.A. 403**  
**CH 3 OVER F.A. 403**  
**F.A. RTE. 403-SEC. 195-345-1**  
**WHITESIDE COUNTY**  
**STATION 2278+53.06**

PLANS PREPARED BY MACKIE ENGINEERING CO. 3/5/71  
Rev. 1-19-72 (Deleted Structure Etc.)