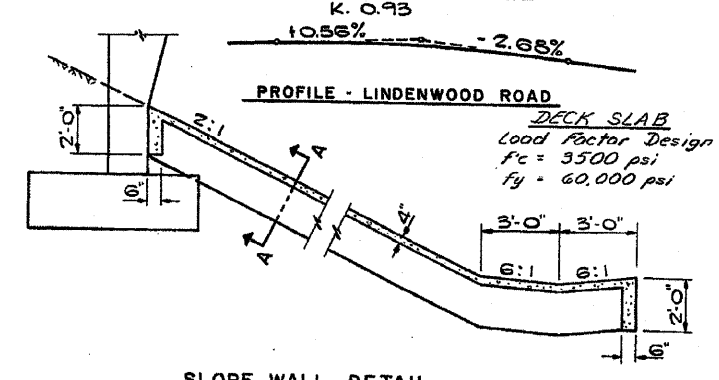
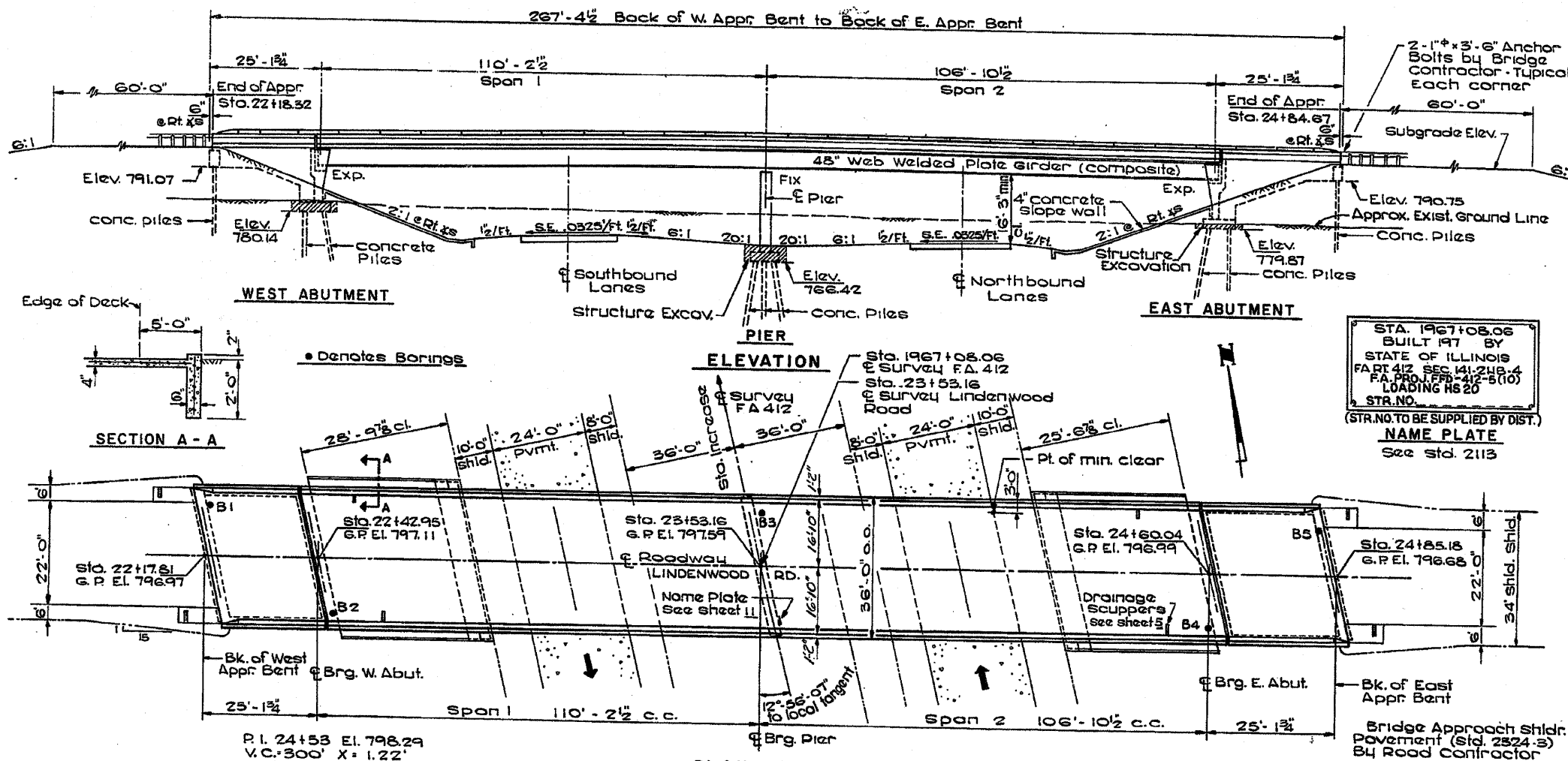


BENCH MARK: P k washer in root of 36" tree, North of Lindenwood Road 56' Lt. Sta. 20+83 Elev. 785.15

071-0081

Deck slab reinforcement bars shall conform to AASHTO M31 or M53 Grade 60.

Federal Aid Route No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-412	141-2HB-4	OGLE	288	166
REP. ROAD DIST NO 7	ILLINOIS	PROJECT		



PLAN VIEW
 P.I. 1957+50 El. 770.69
 Lindenwood Road
 Station 1967+08.06

DESIGN LOADING
 HS 20-44 Allowance for 25 p.s.f. future wearing surface

DESIGN STRESSES
 f_c = 1400 psi Except as follows
 f_c = 1000 psi Conc. in contact with earth
 f_s = 20,000 psi AASHTO M163 Struct. Steel
 f_s = 20,000 psi Reinforcement
 v = 75 psi allowable shear in footings
 v = 90 psi allowable shear in pier cap

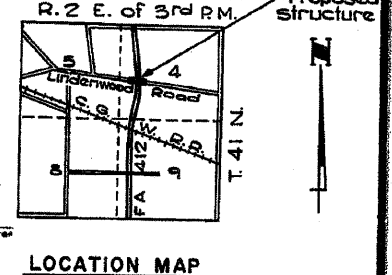
BILL OF MATERIAL BRIDGE

Item	Unit	Sub.	Super.	Total
Structure Excavation	cu.Yds.	172		172
Bituminous Conc. Surf. course, Mixture D, cl. I	Tons		79	79
Protective coat	Sq.Yds.		199	199
Class X Concrete	cu.Yds.	234.2	335.8	570.0
Structural Steel	L. Sum		.17	.17
Aluminum Railing	Lin. Ft.		528	528
Concrete Piles	Lin. Ft.	1693		1693
Test Piles - Concrete	Ea.	3		3
Reinforcement Bars	Lbs.	28,550	78,900	107,450
Waterproofing Membrane System	Sq.Yds.		960	960
Preformed Joint Sealer 4"	Lin. Ft.		74	74
Name Plates	Ea.	1		1
Slope Wall 4"	Sq.Yds.	369		369
Stud Shear Connectors	Ea.		2280	2280
Sand Backfill	cu.Yds.	233		233
Drainage Scupper	Ea.		4	4

GENERAL NOTES:

All reinforcement bars shall be lapped 24 dia. unless otherwise shown.
 Fasteners shall be high strength bolts. Bolts 7/8": open holes 1 1/8". Unless otherwise noted.
 * Calculated weight of structural steel = 289,140 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 the 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" x 6" mesh, weighing 56 lbs. per 100 sq. ft.
 The Contractor shall drive one concrete test pile in a permanent location at the pier and each abutment 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 abuts.
 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 Waterproofing Membrane System is applied.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 6" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
 The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the Flanges, as designated on the girder Elevation, along with the webs and splice plates of the steel girders.
 For boring data see Special Provisions.
 Proposed structure R. 2 E. of 3rd P.M.

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY



GENERAL PLAN & ELEVATION
 FA RTE. 412 SECTION 141-2HB-4
 LINDENWOOD ROAD (C.H. 20)
 OVER FA RTE. 412
 OGLE COUNTY
 STATION 1967 + 08.06

DESIGN BY: R. THOMPSON
 DATE: JULY 1975
 DRAWN BY: R. RHODES
 DATE: AUG. 1975
 CHECKED BY: D. E. HUFFMAN
 DATE: OCT. 1975
 APPROVED BY: [Signature]
 DATE: 5/3/76

PREPARED BY:
MISSMAN, STANLEY & ASSOCIATES
 CONSULTING ENGINEERS
 ROCK ISLAND, ILLINOIS

FOR INFORMATION ONLY