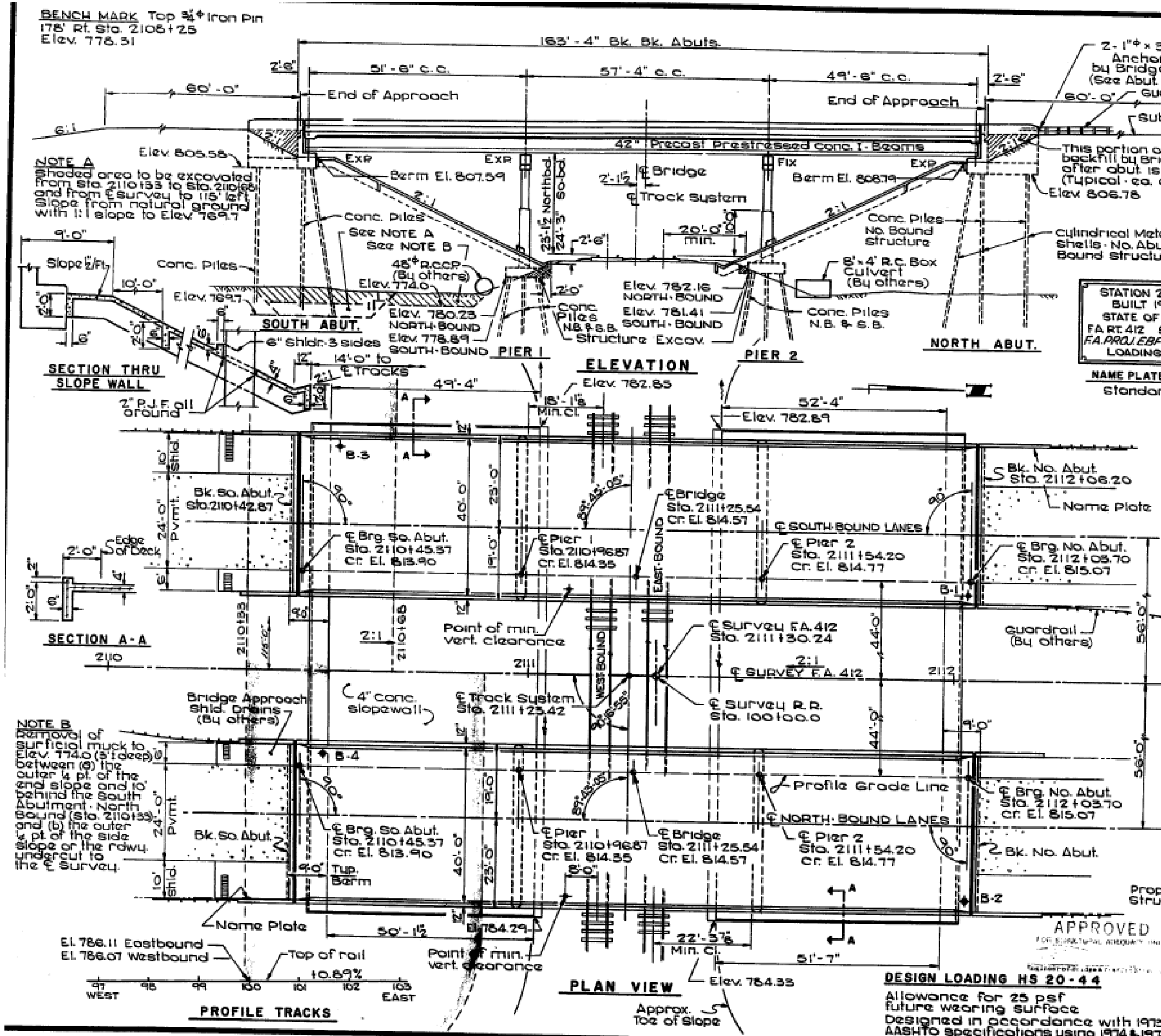


GENERAL NOTES

All structural steel shall be shop painted with two coats of basic lead silico chromate paint.

Slope wall shall be reinforced with welded wire fabric 6"×6" mesh, weighing 58 lbs. per 100 sq. ft.

The Contractor shall drive one Test Pile (as specified in a permanent location at each Abutment and each 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 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 Waterproofing Membrane System is applied.

For Boring Data see Special Provisions.

Above elevation 771.9, coat Pile Shells at N. Abut. - So. Bound with 1 millimeter asphalt cement or M.C. or S.C. asphalt.

All deck reinforcement bars shall conform to the requirements of AASHTO M 31 or M 53 Grade 60.

BILL OF MATERIAL - 2 STRUCTURES

ITEM	UNIT	SUB.	SUPER.	TOTAL
* Bituminous Conc. Surf. Course, Mixture D, Class I	Tons		114	114
Precast Prestressed Concrete I Bms. 42"	Lin. Ft.		1908	1908
* Protective Coat	Sq. Yds.		304	304
Class X Concrete	Cu. Yds.	528.1	451.0	979.1
Reinforcement Bars	Lbs.	55,310	104,640	159,950
Structural Steel	Lbs.		10440	10440
Concrete Piles	Lin. Ft.	4778		4778
Test Piles - Concrete	Each	7		7
* Waterproofing Membrane System	Sq. Yds.		1368	1368
Preformed Joint Sealer - 4"	Lin. Ft.		84	84
Preformed Joint Sealer - 2½	Lin. Ft.		84	84
Name Plates	Each	2		2
Slope Wall - 4"	Sq. Yds.	2437		2437
Structure Excavation	Cu. Yds.	60		60
Railroad Protective Services				
Metal Pile Shells	Lin. Ft.	720		720
Test Piles - Metal Shell	Ea.	1		1

** To be constructed under the paving contract.*

DESIGN STRESSES

FIELD UNITS

fc = 1,400 psi Except as follows

fc = 1,000 psi Abutment
fs = 20,000 psi Struct. Steel
fs = 20,000 psi Reinforcement (Sub)
vc = 56 psi Footings
n = 10

PRESTRESSED UNITS

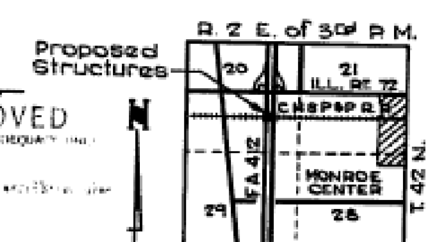
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi
f'si = 189,000 psi

DECK SLAB - LOAD FACTOR DESIGN

f'c = 3500 psi
f'y = 60,000 psi
n = 8.5

DESIGN LOADING HS 20-44

Allowance for 25 psf future wearing surface
Designed in accordance with 1973 AASHTO specifications using 1974 & 1975 interims



LOCATION MAP

Revised 4-28-76

GENERAL PLAN AND ELEVATION
FA RTE. 412 SECTION 141-3VB
OVER C. M. ST. P.& P. R. R.
- OGLE COUNTY
STATION 2111+25.54

LAYOUT BY: R. RHOADS, DATE DEC. 1975	PREPARED BY WILLETT, HOFMANN & ASSOCIATES INC. CONSULTING ENGINEERS DIXON, ILLINOIS
DRAWN BY: B. THOMPSON, DATE NOV. 1975	
CHECKED BY: D.E. HUFFMAN, DATE DEC. 1975	
APPROVED BY: DATE 4-14-76	

F.A. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	141-3 A, VB, VB, VB-1	OGLE	306	58

ILLINOIS PROJECT

DESIGNED -	DATE -		
CHECKED -			
DRAWN -	REVISED		
CHECKED -	REVISED		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-39	D2 Deck Repair 2013-3	OGLE	18	8

CONTRACT NO. 64H95

ILLINOIS