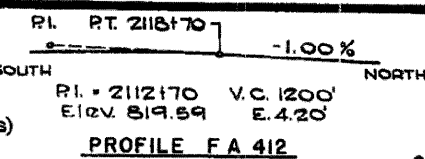
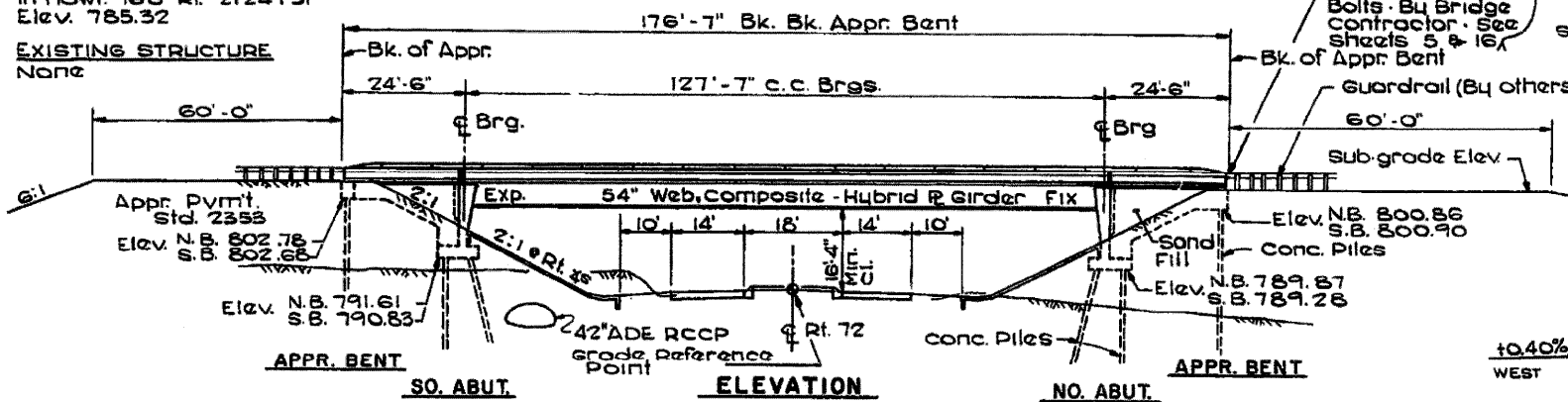


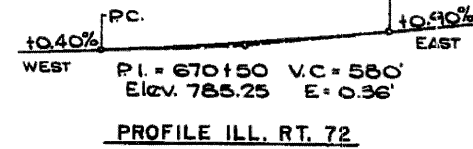
FOR INFORMATION ONLY

Bench Mark: USC&GS tablet
in hdl. 168' Rt. 2124+31
Elev. 785.32

EXISTING STRUCTURE
None



PROFILE FA 412



PROFILE ILL. RT. 72

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 = 537,650 lbs.

The basic lead silica chromate paint system shall be used for shop and field painting of structural steel.

Anchor bolts shall be set before bolting crossframes over supports.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh weighing 55 lbs. per 100 sq. ft.

The Contractor shall drive one concrete test pile in a permanent location at 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 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.

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 1/2" 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 Zone 2 are the bottom flanges and web plates and splice plates.

For boring data see Special Provisions.

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

DESIGN STRESSES

$f_c = 1400$ psi Except as follows:

$f_c = 1000$ psi Conc. in contact w/earth

$f_s = 20,000$ psi AASHTO M183 Struct. st.

$f_s = 27,000$ psi AASHTO M222 Flanges

$f_s = 20,000$ psi Reinforcement (3/8")

$v_c = 75$ psi allowable shear in fig.

$n = 10$

Allowable Live Load Deflection
L/1200 (composite)

DESIGN LOADING HS 20-44

Allowance for 25 p.s.f. future wearing surface

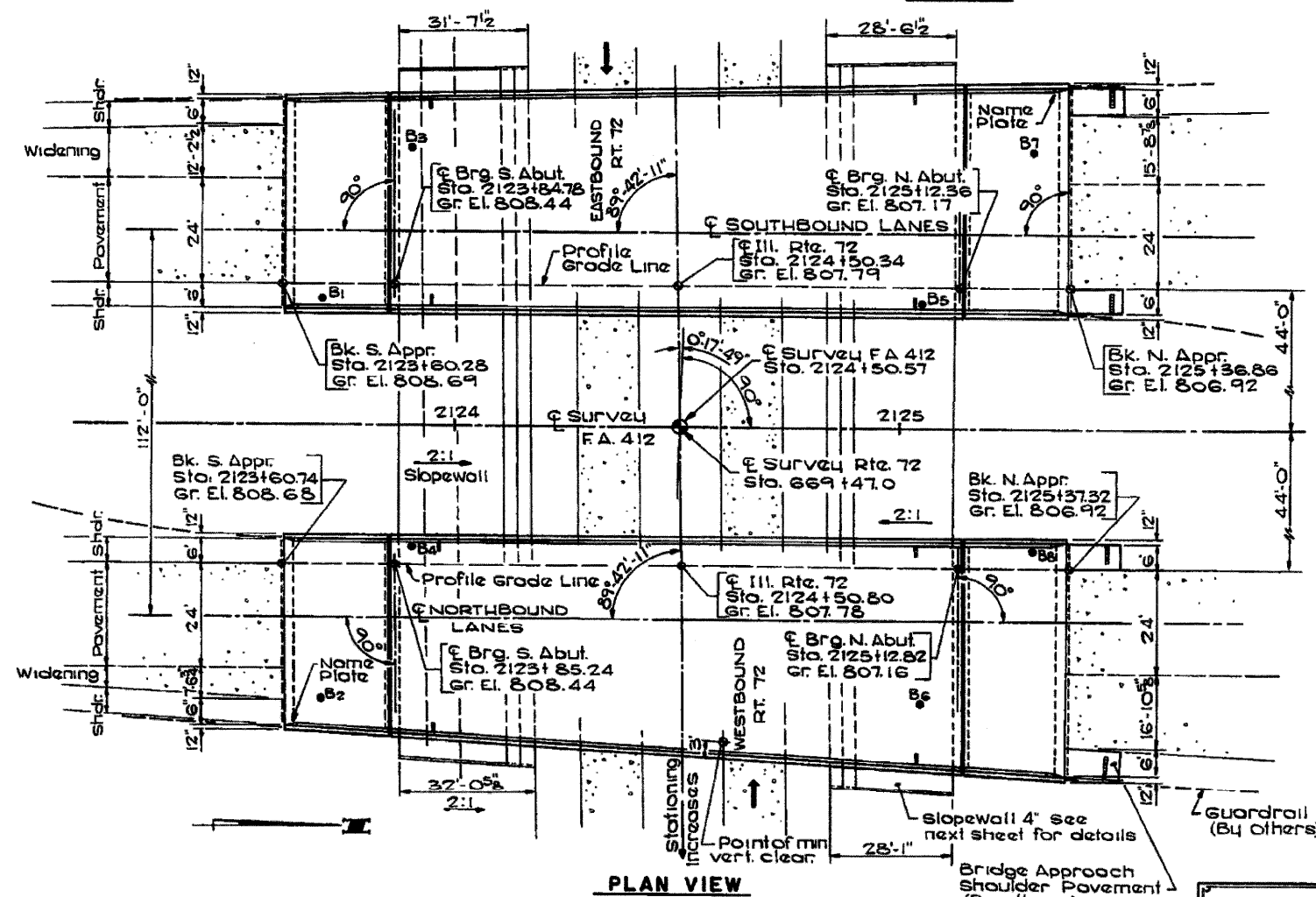
Structure designed in accordance with AASHTO Specifications dated 1973.

DECK SLAB LOAD FACTOR DESIGN

$f_c = 3500$ psi
 $f_y = 60,000$ psi
 $n = 8.5$

BILL OF MATERIAL - 2 STRUCTURES

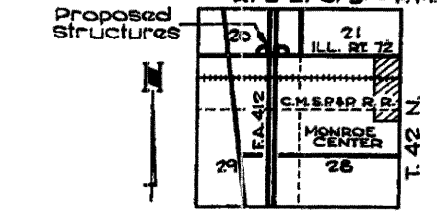
ITEM	UNIT	SUB.	SUPER	TOTAL
* Bituminous conc. Surf. Course, Mixture D, Cl. I	Tons		153	153
* Protective Coat	Sq. Yds.		262	262
Class X Concrete	Cu. Yds.	427.3	637.0	1064.3
Structural Steel	L. Sum		1	1
Aluminum Railing	Lin. Ft.		694	694
Concrete Piles	Lin. Ft.	3657		3657
Test Piles - concrete	EQ.	4		4
Reinforcement Bars	Lbs.	48620	153040	201660
* Waterproofing Membrane System	Sq. Yds.		1862	1862
Drainage Scuppers	EQ.		8	8
Name Plates	EQ.		2	2
Slope Wall 4"	Sq. Yds.	1513		1513
Stud Shear Connectors	EQ.		4494	4494
Sand Backfill	Cu. Yds.	619		619
Preformed Joint Sealer 2 1/2"	Lin. Ft.		107	107
Preformed Joint Sealer 4"	Lin. Ft.		98	98



STATION 2124+50.57
BUILT 197 BY
STATE OF ILLINOIS
FA 412 SEC. 141-3HB
FA PROJ. EBF-EBFG-412-5(8)
LOADING HS 20

NAME PLATE
Standard 2113

* To be constructed under paving contract
R. 2 E. of 3rd R.M.



LOCATION MAP

GENERAL PLAN AND ELEVATION
FA RTE. 412 SECTION 141-3HB
OVER ILL. RTE. 72
OGLE COUNTY
STATION 2124+50.57

DESIGNED BY
B. THOMPSON
AUG 1975
DRAWN BY
R. RHODES
OCT 1975
CHECKED BY
D.E. HOFFMAN
DATE SEPT. 1975
APPROVED BY
[Signature]
DATE [Date]

PREPARED BY
WILLET, HOFFMANN
& ASSOCIATES INC.
CONSULTING ENGINEERS
DIXON, ILLINOIS

Revised 11/6/75
Revised 4/23/76

FILE NO. BRIDGE SHEET NO. 1 OF 26 SHEETS

* D2 BRIDGE PAINTING 2008-2

FILE NAME =	USER NAME = linkd	DESIGNED -	REVISED -
D:\BRYCADD plans\Ogle County\07100460047.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Tue Jan 29 09:22:55 2008		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
	39								

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39		OGLE	18	10
CONTRACT NO. 64D90				