

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	1VBR	BUREAU	72	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

B.M. (New) top of arrow on fire hydrant Sta. 28+40 R.L. 35.5' - Elev. 383.04
Existing Structure 1.5 A Route 21, Section 1 VBR C.D. of Sta. 30+55.00, built in 1937
Concrete deck to be replaced Stage Construction shall be used to maintain one way traffic

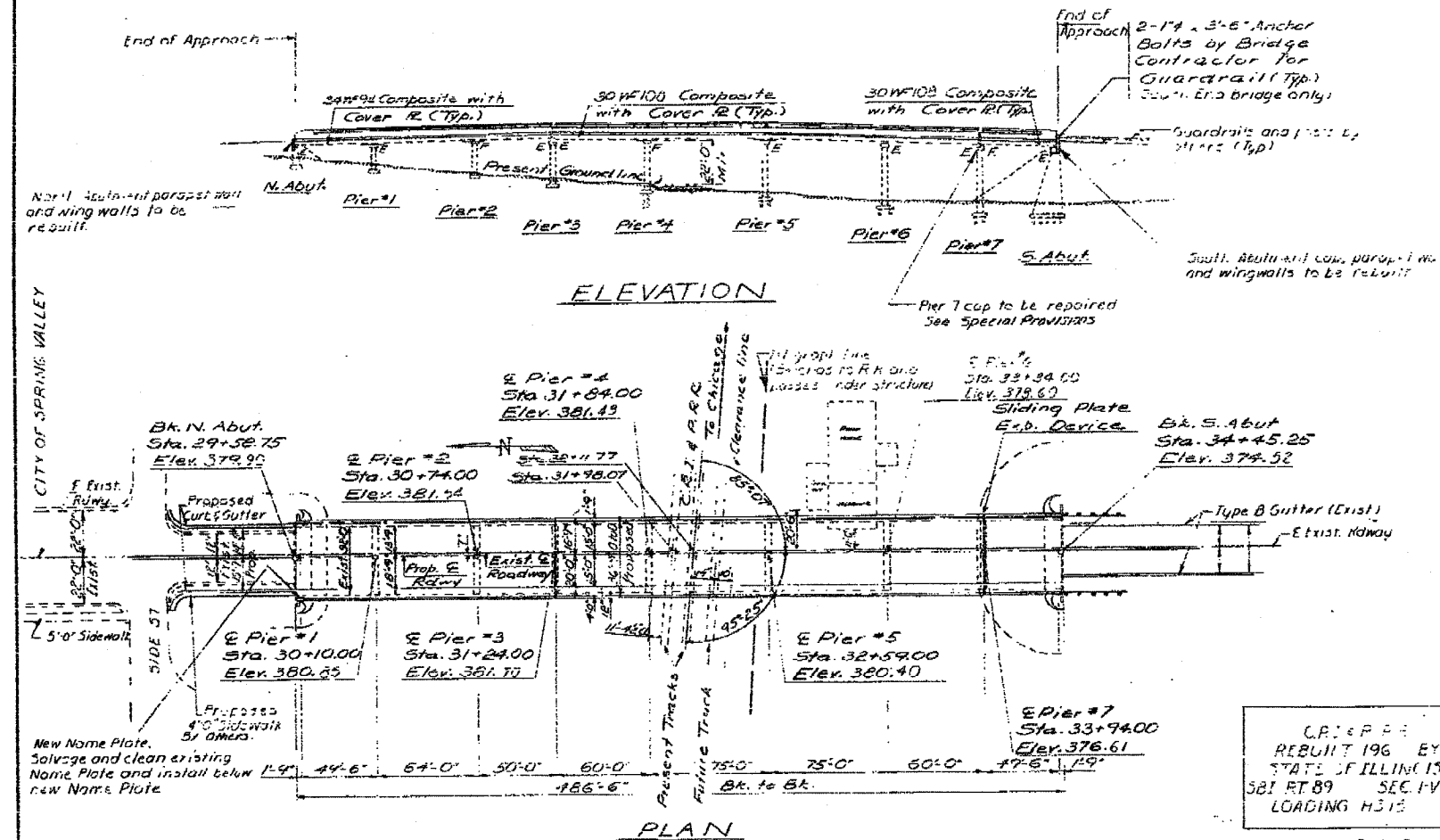
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DESIGNED BY	CHECKED BY	DRAWN BY	DATE	SHEET NO.
A. F. Khayyat	J. E. Khayyat	J. E. Khayyat	11/15/2006	19 SHEETS

GENERAL NOTES

All reinforcement bars shall be lappped 24 diameters unless otherwise shown.
Pier 7 cap to be repaired See Special Provisions
Roadway expansion guards shall be assembled in the shop in proper position. With the ends in place & shall be left open. Used for shop inspection. Exception otherwise provided all new structural steel shall receive one shop coat of red iron paint & two field coats of Aluminum paint. It shall be the responsibility of the Contractor to verify all dimensions & conditions existing in the field prior to construction & ordering of materials.
Pier 7 Engineer in charge will designate portions of the cap & columns requiring repairs. Necessary jacking & cribbing of spans #7 & #8 included in Bill of Material. See Special Provisions.

North. Engineer in charge will designate portions of the cap requiring repairs. Necessary jacking & cribbing of spans #1 included in Bill of Material.
The concrete rail section above the mandatory construction joint at the two of the spans on the east edge and at the two of the spans on the west edge shall be constructed of Class 2 Concrete, except the aggregates shall conform to the requirements of Portland Concrete.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yds.		13	13
Removal of Concrete Deck	Sq. Yds.			13
Reinforcing Steel	Cu Yds.	360.7	20.1	380.8
Class 2 Concrete	Cu Yds.	91040		91040
Structural Steel	Lbs.	6174		6174
Stud Shear Connectors	Ech.			864
Aluminum Rolling, type 4	Lin. Ft.			132,640
Reinforcement Bars	Lbs.	129,725	3820	133,545
Preformed Joint Sealer	Lin. Ft.			111
Temporary Guardrail	Lin. Ft.			487
Bridge Seat Sealant	L.S.			13
Jacking/Cribbing	Eqpt.			1
Name Plates	Each			1
Clearing & Grading	Sq. Yds.			1

* At Pier #7 only

DESIGN STRESSES
 $f_c = 1200 \text{ psi}$ - Deck Slab
 $f_c = 1400 \text{ psi}$ - Curb, Parapet
 $f_s = 20,000 \text{ psi}$ - Reinf.
 $f_s = 20,000 \text{ psi}$ - Struct.
 $n = 10$

LOADING H315-44

Allowable & Defl. 1200 Comp.

Note: Allow 25 #/d for Put. Wearing Surf.

GENERAL PLAN & ELEVATION

F.A.R.T. 94 (S.B.I. 89-ILL 89)-SEC. 1-VBR

BUREAU COUNTY

STA. 32+11.77

GRADE PROFILE F.A.R.T. 94 LOCATION SKETCH

DESIGNED	A. F. Khayyat
CHECKED	J. E. Khayyat
DRAWN	J. E. Khayyat
CHECKED	J. E. Khayyat

EXAMINED	J. E. Khayyat
PASSED	J. E. Khayyat
APPROVED	J. E. Khayyat