

Bench Mark: BM#101 - Elev. 492.43 Chiseled "□" on NE wingwall of S.N. 006-0110

Existing Structure: S.N. 006-0110, originally built in 1936 as S.A. Route 21. In 1970 the deck was replaced and an interior beam line was added. The existing structure consists of 8 spans - 3 span continuous steel, 4 span continuous steel, and 1 steel simple span. The back to back abutment length is 486'-6" and the out to out bridge width is 36'-9". Structure to be removed and replaced. Traffic to be maintained utilizing stage construction.

Salvage: Existing aluminum rail to be removed from west side of bridge and attached to the new west parapet.

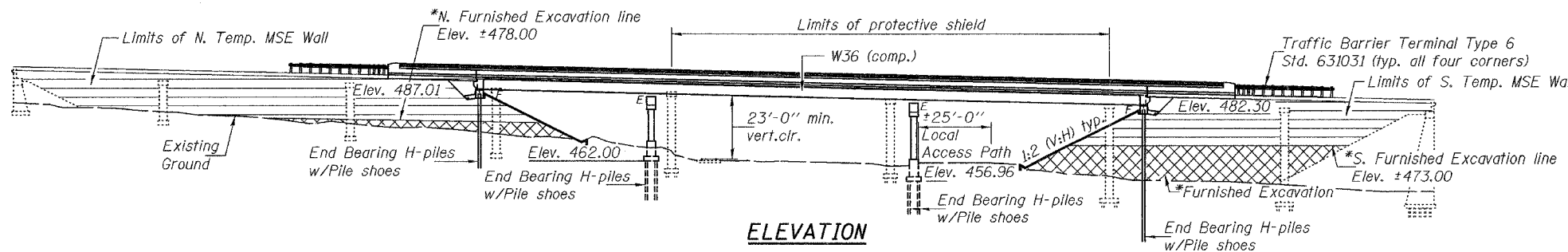
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 698	IVBR	BUREAU	72	28
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract No. 66361

INDEX OF SHEETS

- 1 General Plan
- 2 General Data & Stage Construction Details
- 3 North TMSE Wall Details
- 4-5 South TMSE Wall Details
- 6 Temporary Concrete Barrier
- 7-8 Top of Slab Elevations
- 9 Superstructure
- 10-11 Superstructure Details
- 12 Bridge Approach Pavement (Special) Parapet Details
- 13 Diaphragm Details
- 14 Structural Steel
- 15 Structural Steel Details
- 16 Bearing Details
- 17 Anchor Bolt Details for Bearings
- 18 North Abutment
- 19 South Abutment
- 20 Pier 1
- 21 Pier 2
- 22 Bar Splicer Assembly Details
- 23-24 Boring Logs

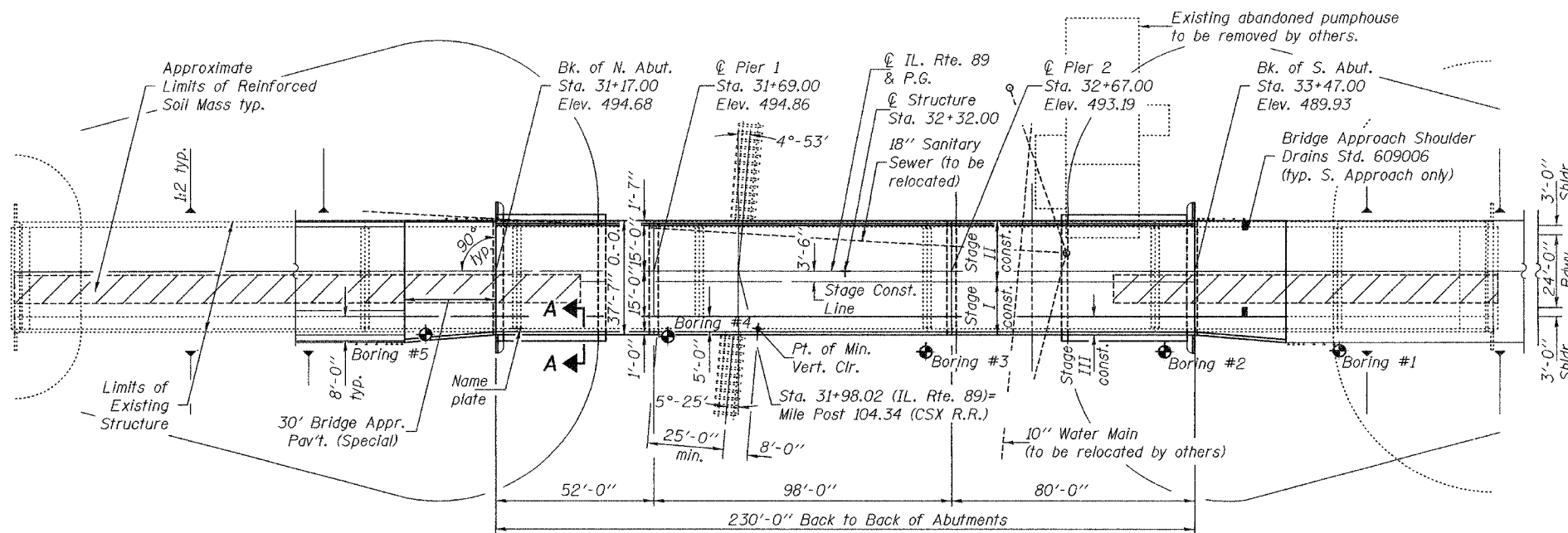


STATION 32+32.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 698 SEC. IVBR
LOADING HL93
STRUCTURE NO. 006-0164

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		131	131
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		333	333
Concrete Structures	Cu. Yd.		211.3	211.3
Concrete Superstructure	Cu. Yd.	319.7		319.7
Bridge Deck Grooving	Sq. Yd.	716		716
Protective Coat	Sq. Yd.	1074		1074
Elastomeric Bearing Assembly Type I	Each	12		12
Furnishing and Erecting Structural Steel	L.S.	1		1
Stud Shear Connectors	Each	2916		2916
Reinforcement Bars, Epoxy Coated	Pound	71170	29390	100560
Slopedwall 4"	Sq. Yd.		483	483
Furnishing Steel Piles HP12x63	Foot		845	845
Driving Piles	Foot		845	845
Test Pile Steel HP12x63	Each		4	4
Name Plates	Each	1		1
Bar Splicers	Each	823	122	945
Pile Shoes	Each		36	36
Protective Shield	Sq. Yd.	613		613
Temporary Mechanically Stabilized Earth Wall	Sq. Ft.		3429	3429
Geocomposite Wall Drain	Sq. Yd.		69	69
Pipe Underdrains for Structures, 4"	Foot		129	129
Expanded Polystyrene Fill	Cu. Yd.		515	515
Removing and Re-Erecting Existing Railing	Foot	278.5		278.5
Anchor Bolts, 1" Ø	Each	24		24
Anchor Bolts, 1 1/2" Ø	Each	24		24



* For Furnished Excavation details and quantities, see roadway plans.

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1998 AASHTO LRFD Bridge Design Specifications with 1999 thru 2002 Interims

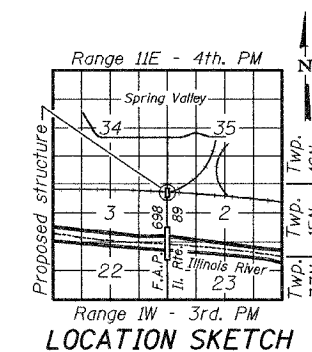
DESIGN STRESSES

FIELD UNITS

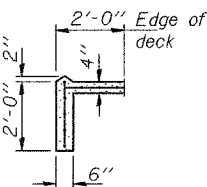
$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.05g
Site Coefficient (S) = 1.1



GENERAL PLAN
ILLINOIS ROUTE 89 OVER
CSX RAILROAD
F.A.P. RTE. 698 - SECTION IVBR
BUREAU COUNTY
STATION 32+32.00
STRUCTURE NO. 006-0164



DESIGNED	Adam J. Hump
CHECKED	Ray E. Anderson
DRAWN	h.t. duong
CHECKED	ART / PEC

EXAMINED	Jan 9, 2007
PASSED	Ray E. Anderson



EXPIRES 11-30-2008

