

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Existing Structure:
Structure No. 001-0061, constructed in 1981 as FAP 408, Section 1-4HB-1, is a two span continuous composite 66" plate girder superstructure with a 7 1/2" reinforced concrete deck. The approach spans consist of three 36" PPC I-Beams and two outside supporting curtain walls constructed over a vaulted abutment. The structure is 376.5' bk. to bk. approach bents measured along C.R. Roadway, 33'-2" out to out measured radially and has a right ahead skew angle of 45°50'03" at intersection of I-172.

T.R. 483 will be closed during construction.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

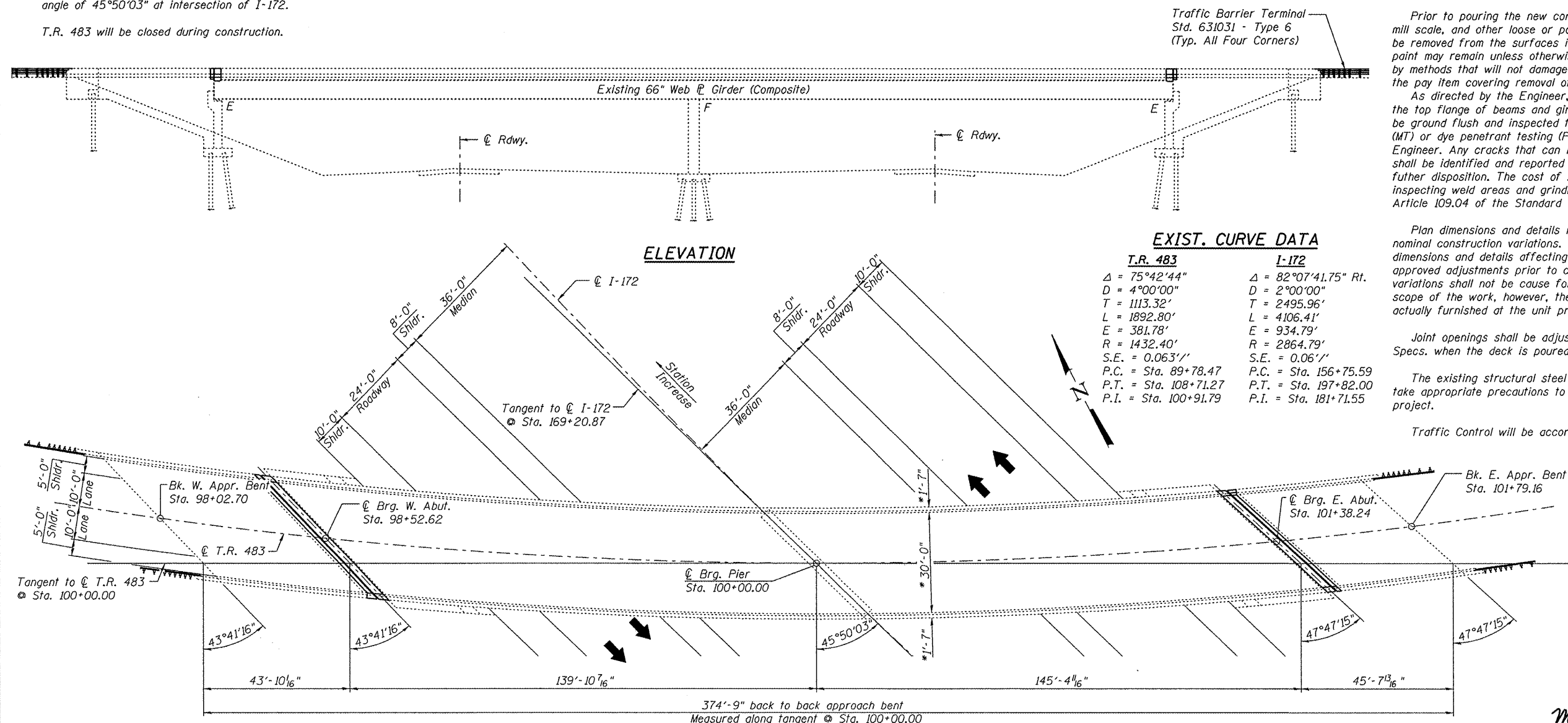
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Traffic Control will be according to Bureau of Local Roads Standard 21.

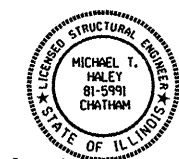


EXIST. CURVE DATA

T.R. 483	I-172
$\Delta = 75^\circ 42' 44''$	$\Delta = 82^\circ 07' 41.75''$ Rt.
$D = 4^\circ 00' 00''$	$D = 2^\circ 00' 00''$
$T = 1113.32'$	$T = 2495.96'$
$L = 1892.80'$	$L = 4106.41'$
$E = 381.78'$	$E = 934.79'$
$R = 1432.40'$	$R = 2864.79'$
$S.E. = 0.063'/'$	$S.E. = 0.06'/'$
$P.C. = \text{Sta. } 89+78.47$	$P.C. = \text{Sta. } 156+75.59$
$P.T. = \text{Sta. } 108+71.27$	$P.T. = \text{Sta. } 197+82.00$
$P.I. = \text{Sta. } 100+91.79$	$P.I. = \text{Sta. } 181+71.55$

INDEX OF SHEETS

1. General Plan and Elevation
2. Concrete Removal
3. Concrete Details-1
4. Concrete Details-2
5. Preformed Joint Strip Seal
6. Side Retainer Details



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Date
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State of Illinois No. 81-5991
Expires 11/30/2010

DESIGN STRESSES

FIELD UNITS
New Construction
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
36,000 psi (Structural Steel)

Existing Construction
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_s = 20,000$ psi (M183) (Structural Steel)
27,000 psi (M222 & M223 Grade 50) (Structural Steel)

PRECAST PRESTRESSED UNITS

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

DESIGN SPECIFICATIONS

(New Construction)
2002 AASHTO "Standard Specifications for Highway Bridges"

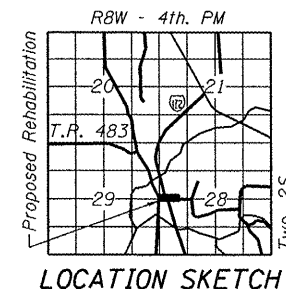
LOADING HS20-44

SCOPE OF WORK

1. Remove and replace concrete deck and parapet adjacent to expansion joints.
2. Provide preformed joint strip seal expansion joints at abutments.
3. Apply Concrete Sealer to top of deck surface and top and inside face of parapets.
4. Provide Side Retainers for Bearings at Abutments.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	13.1	-	13.1
Concrete Superstructure	Cu. Yd.	13.1	-	13.1
Concrete Sealer	Sq. Ft.	14134	-	14134
Furnishing and Erecting Structural Steel	Pound	-	200	200
Reinforcement Bars, Epoxy coated	Pound	2120	-	2120
Preformed Joint Strip Seal	Foot	91	-	91
Anchor Bolts, 1"	Each	-	12	12



GENERAL PLAN AND ELEVATION

T.R. 483 OVER I-172
FAI RTE 172 - SECTION 1-5HB
ADAMS COUNTY
STATION 169+20.87
STRUCTURE NO. 001-0061

<p>LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois</p>	SHEET NO. 1 6 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		172	1-5HB	ADAMS	165	152
Designed By: ESH Date: 11/2009		Checked By: MTH File: 001-0061.dgn		Drawn By: ESH		CONTRACT NO. 72A09
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT		