

Existing Structure: N.B. Weigh Station at Bolingbrook was originally built in 1984 as F.A.I. Route 55, Section 99-ITWS-2-I-1 (82).  
 Project IR-55-6(152) 267 Will County. The existing concrete deck and approach slabs are to be removed and replaced at the N.B. station. Traffic will be detoured.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Seeding, Class 2A	Acre	0.1		0.1
Nitrogen Fertilizer Nutrient	Pound	9		9
Phosphorus Fertilizer Nutrient	Pound	9		9
Potassium Fertilizer Nutrient	Pound	9		9
Mulch, Method 2	Acre	0.1		0.1
Sub-base Granular Material, Type A 4"	Sq. Yd.	55		55
Stabilized Sub-base 4"	Sq. Yd.	73		73
Protective Coat	Sq. Yd.	270		270
Bridge Approach Pavement Connector (PCC)	Sq. Yd.	16		16
Portland Cement Concrete Sidewalk 5"	Sq. Ft.	44		44
Pavement Removal	Sq. Yd.	16		16
Combination Curb and Gutter Removal	Foot	153		153
Sidewalk Removal	Sq. Ft.	44		44
Approach Slab Removal	Sq. Yd.	54		54
Median Removal	Sq. Ft.	135		135
Paved Shoulder Removal	Sq. Yd.	2		2
Class B Patches, Type III, 12"	Sq. Yd.	22		22
Class B Patches, Type IV, 12"	Sq. Yd.	29		29
Pavement Fabric	Sq. Yd.	51		51
Saw Cuts	Foot	24		24
Hot-Mix Asphalt Shoulder, 8"	Sq. Yd.	2		2
Removal of Existing Concrete Deck	L. Sum	1		1
Concrete Superstructure	Cu. Yd.	25		25
Cleaning and Painting Steel Bridge No. 1	L. Sum	1		1
Containment and Disposal of Lead Paint Cleaning Residues No 1.	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	9,860		9,860
Combination Concrete Curb and Gutter, Type B-6.12	Foot	63		63
Combination Concrete Curb and Gutter, Type M-2.12	Foot	90		90
Stabilized Median Surface	Sq. Yd.	15		15
Mobilization	L. Sum	1		1
Polyurea Pavement Marking Type I - Line 6"	Foot	450		450
Polyurea Pavement Marking Type I - Line 24"	Foot	24		24
Electric Cable in Conduit, Lead-in, No. 14 1 Pair	Foot	90		90
Remove Electric Cable from Conduit	Foot	90		90
Drill Existing Handhole	Each	1		1
Induction Loop Detector Amplifier	Each	1		1
Detector Loop, Type I	Foot	34		34
Jack Remove and Replace Load Cells	L. Sum	1		1
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	52		52
Driveway Pavement Removal and Replacement	Sq. Yd.	6		6
Approach Pavement Special	Sq. Yd.	54		54
Aggregate Subgrade 12"	Sq. Yd.	97		97
Dowel Bars 1/2"	Each	20		20
Tie Bars 3/4"	Each	79		79

INDEX OF SHEETS

1. General Data
2. General Plan and Elevation
3. Concrete Removal Plan and Details
4. Concrete Deck Plan and Details
5. Concrete Pit Repair Details
6. Approach and Ramp Pavement Removal Plan and Details
7. Approach Pavement Plan and Details

SCOPE OF WORK

1. Remove and replace concrete decks of the 4 platform scales.
2. Jack existing structural steel and replace load cells.
3. Remove and replace approach pavements, ramp pavements and curb and gutter up to first pavement joint.
4. Clean and paint structural steel.
5. Repair deteriorated areas of concrete on pit walls.

GENERAL NOTES

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

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.

All construction joints shall be bonded.

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

The cost of any structure excavation shall be included with Approach Slab Removal, Pavement Removal or Class B Patches.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning-SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1-OZ/E/U. The color of the final finish coat shall be Gray, Munsell No 5B 7/1.

The SSPC-QP1 and SSPC-QP2 Painting Contractor Certifications will not be required for this Structure.

Field welding of construction accessories will not be permitted to beams.

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.

The Contractor shall fine the concrete surface of the platforms according to Article 420.09(e)(1) of the Standard Specifications. Cost included in Concrete Superstructure.

Cost of removal and disposal of subbase or subgrade material from the patches shall be included in the cost of Stabilized Sub-base 4" or Aggregate Subgrade 12".

All existing pavement markings that are removed shall be re-established after completion of pavement installation. Estimated quantity for Polyurea Pavement Marking Type I - Line 6" and 24" provided. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Locations of sidewalk removal, median removal and driveway pavement removal shall be determined in the field by the Engineer.

The sidewalk shall be removed and replaced for the full 4 foot width behind the curb and gutter to be removed and replaced.

The existing material under the median surface shall be reused unless otherwise directed by the Engineer. The cost of reusing or replacing this material replacing this material with suitable backfill is included in the cost of the curb and gutter replacement.

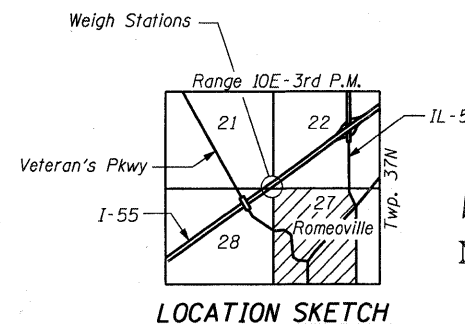
LOADING HS20-44  
 No future wearing surface allowed  
 DESIGN SPECIFICATIONS  
 17th Edition - 2002 AASHTO

DESIGN STRESSES

NEW CONSTRUCTION  
 $f_c = 3,500$  psi (Deck)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (Structural Steel AASHTO M270 Grade 36)

FIELD UNITS (PIT)

$f_c = 1,000$  psi  
 $f_s = 20,000$  psi (Reinforcement)  
 $f_s = 20,000$  psi (Structural Steel)



GENERAL DATA  
 BOLINGBROOK WEIGH STATION (NB)  
 F.A.I. RT. 55 / I-55 - SEC. 2009-017 I  
 WILL COUNTY  
 STATION 401+22.79

LOCHNER

H.W. LOCHNER, INC.  
 CONSULTING ENGINEERS & PLANNERS  
 20 NORTH WACKER DRIVE SUITE 1200  
 CHICAGO, IL 60606

SHEET NO. 1  7 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	2009-017 I	WILL	16	4
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60G16					

APPROVED  
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson  
 ENGINEER OF BRIDGES AND STRUCTURES



4/27/09

DESIGNED - JSD
CHECKED - RWC
DRAWN - GJS
CHECKED - RWC

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