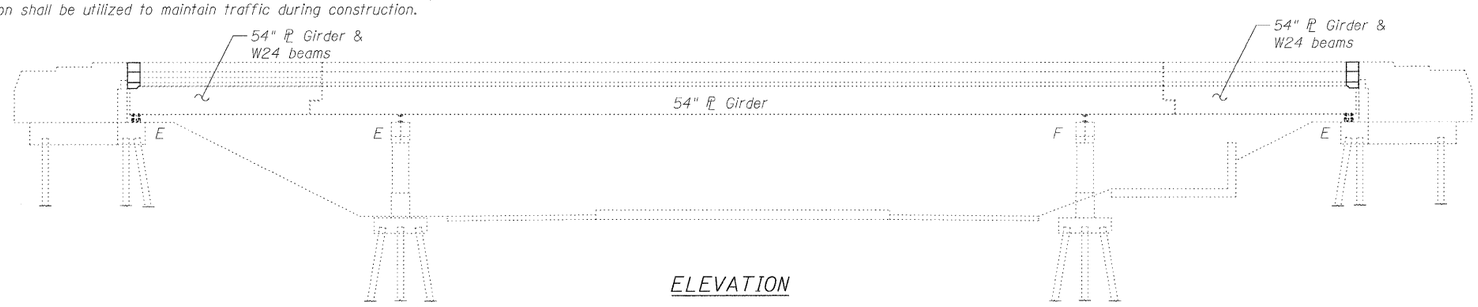
Existing Structure:
Structure No. 016-1121, constructed in 1963 as FA 61, Section 531-1-HB-8, is a three span hinged continuous steel superstructure with a 7" reinforced concrete deck supported by multi-column piers and stub abutments. In 1971, the deck was patched and overlay was placed. In 1981, longitudinal joint was closed and expansion joint was reconstructed. In 1991, joint and parapet were reconstructed, overlay was replaced and deck was patched. In 2001, the expansion bearings were replaced. The structure is 202'-7¼" bk. to bk. abutments measured along north bound bridge tangent at Sta. 193+08.57, 60'-9¼" out to out and has a left ahead skew angle of 42°42'58". Stage Construction shall be utilized to maintain traffic during construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

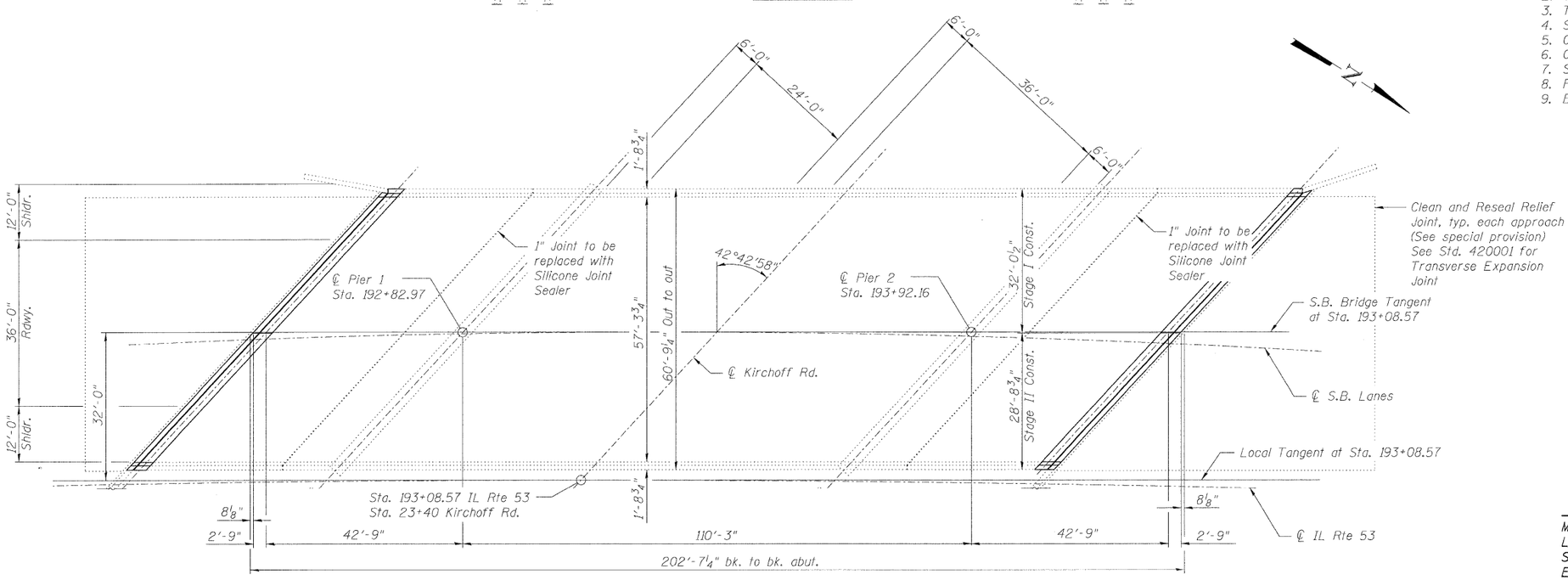
SCOPE OF WORK

1. Remove and replace concrete deck adjacent to abutment expansion joints.
2. Provide preformed joint strip seal expansion joints at abutments.
3. Apply concrete sealer to top of concrete deck and top and inside vertical face of parapets.
4. Repair deck slab.
5. Clean and paint exposed reinforcement bars on underside deck, and repair parapet.
6. Clean and Reseal Relief Joints.
7. Repair deteriorated concrete on slope wall.

INDEX OF SHEETS



ELEVATION



PLAN

DESIGN STRESSES

FIELD UNITS

Existing Construction

fc = 1,400 psi (Substructure & Superstructure)
fs = 20,000 psi (Reinforcement)
fs = 20,000 psi (Structural Steel)

New Construction

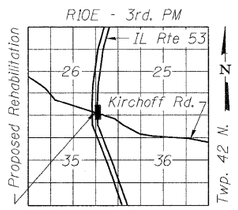
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel) (M270 Gr. 36)

DESIGN SPECIFICATIONS

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

LOADING HS 20-44

(Original Construction)



LOCATION SKETCH

LICENSED STRUCTURAL ENGINEER
MICHAEL T. HALEY
81-5991
CHATHAM
STATE OF ILLINOIS

Michael T. Haley 2/8/10

Michael T. Haley — Date
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2010

GENERAL PLAN AND ELEVATION
SB IL RTE 53 OVER KIRCHOFF ROAD
FAI RTE 290
SECTION (531-3.1,0305-302K)RS-5
COOK COUNTY
STATION 193+08.57
STRUCTURE NO. 016-1121

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois

Designed By: ESH | Checked By: MTH | Drawn By: ESH
Date: 12/2009 | File: 016-1121.dgn

SHEET NO. 1
9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(531-3.1,0305-302K)RS-5	COOK	314	283
		CONTRACT NO. 60138		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		