

## **Informal Transmittal**

To:	Carl Puzey		From:	John Baczek/S	Steve Schilke				
Bureau:	Bridges and Structures		Bureau:	Programming					
Attn:	Patrik Claussen		Ву:	Mark Peterson					
			Subject:	Project and En	vironmental Studies				
Date:	July 18, 2017			BCR Submittal	016-2058 9 <sup>th</sup> Ave over				
Please ch	eck appropriate box below:								
□ Take Necessary Action       □ For Your Information       □ Reply         □ For Your Comments       □ See Me About the Attached       □ Return         □ Per Your Request       □ Draft (Letter)(Memo) For       □ Route         □ For Your Approval       my signature       □ File									
		Mes	sage						
The proposition of the propositi	secondary some secondary secondary secondary secondary secondary secondary for the I-290 reconstruction requires, a 12' wide turn lane and two 12' wide and in line with both abutments to provide a offile are not anticipated to change. Vehication, eliminating the need for staged connorth abutment foundation may require a secondary secondary.	he letting s of comp uires that sidewalks additional ular and p struction	date has not been blete bridge remothe replacements. On each side of width for the exponents access to maintain traffic	en scheduled.  oval and replacer two span bridge of the bridge, never bressway. The h s to this structur	ment. The proposed includes two 18' wide v retaining walls will be orizontal alignment and e will be detoured during				
	Completed By								
Copies to	Sarah Wilson, Maintenance	Ken E	ing, Design						
Response		•							
				Respons	e By				

Printed 7/18/2017 D1 AD0003 (09/23/2014)

### ABRIDGED BRIDGE CONDITION REPORT



#### I. Administrative Data

REGION: 1
DISTRICT: 1
COUNTY: Cook

ROUTE: 9<sup>th</sup> Avenue JOB NUMBER: P-91-597-10

**STRUCTURE NUMBER:** 016-2058

**LOCATION:** 9<sup>th</sup> Ave. over FAI 290 (I-290)

## II. Roadway/Structure Data

Roadway Classification: Major Collector

**ADT (current):** 8,700 (yr. 2010) **ADTT (current):** 2% of ADT

Inventory Rating: 1.030
Operating Rating: 1.720
Sufficiency Rating: 65.0

### **Construction / Reconstruction / Repair History:**

9<sup>th</sup> Avenue over I-290 in Cook County, Illinois (Structure No. 016-2058) was constructed in 1951 under Section No. 062-3435.1-MFT for Route FA-131. In 1984 improvements included raising the bridge profile, placement of a 2 in. plasticized concrete overlay, and partial and full depth deck slab repair. There was structural steel painting, and removal and replacement of the existing concrete median including a new median steel diaphragm. Bearing replacement, abutment and pier abutment repairs, reconstruction of the parapets, approach slabs and expansion joints, and the replacement of a chain link fence were also included. In 1997, improvements included partial replacement, straightening and strengthening of the fascia beam.

#### III. Physical Description of Structure

9<sup>th</sup> Avenue over I-290 consists of four spans carrying two lanes of traffic and sidewalk in both the northbound and southbound directions. The structure has a total length of approximately 209.6 ft (back to back of abutments), a roadway width of approximately 50 ft (face to face of raised sidewalk), a total deck width of 62 ft, and a total deck area of 12,995 sq. ft. The span lengths are 45'-9¾", 57'-3", 57'-3", and 45'-9¾" on a crest vertical curve. The 8¾ in. reinforced concrete deck, including a 2 in. concrete overlay, is supported by 12 longitudinal continuous non-composite steel wide flange beams (W30). Expansion joints and elastomeric bearings are used at the abutments, rocker-type bearings at Pier 1 and Pier 3, and fixed bearings at Pier 2. The substructure consists of stub abutments with curved wingwalls and wall piers with square openings. There is no skew. Multiple light poles, sign structures, and underdeck utilities are presently attached to the bridge. See Attachment D for photos.



### ABRIDGED BRIDGE CONDITION REPORT



#### IV. Discussion and Recommended Scope of Work

The 9<sup>th</sup> Avenue Bridge will be completely removed and replaced as part of the I-290 reconstruction. Per the final geometry submittal for the I-290 Phase I study, dated October 11, 2016, the replacement two span bridge has an approximate length of 206', a 51' curb to curb width, and an out to out deck width of 79', which includes two 18' wide lanes, a 12' turn lane and two 12' sidewalks. On each side of the bridge, new retaining walls will be constructed in line with both abutments to provide additional width for the expressway. The horizontal alignment and vertical profile are not anticipated to change. Vehicular and pedestrian access to this structure will be detoured during reconstruction, eliminating the need for staged construction to maintain traffic. Due to the proximity of the existing trunk sewer, the north abutment foundation may require further coordination. See Attachment F for the proposed plan and profile.

Despite minor delaminations, spalls, and exposed rebar throughout the bridge, no major repairs are anticipated for this bridge prior to its removal within the next 5-7 years. According to the Bridge Inspection Report, IDOT might clean & paint the structural steel and repair pier walls, column, and pier caps.

Since this bridge will be routinely inspected until removal and the most recent field inspection did not note any fatigue problems, a detailed analysis to determine the remaining fatigue life of the bridge was not performed.

The 2016 estimated cost to remove and replace this structure is \$6,510,000 based on a proposed deck area of 16,274 sq. ft and a unit cost, including contingency, of \$400 per sq. ft.

#### **ATTACHMENTS**

**Attachment A. Location Map** 

**Attachment B. IDOT Master Structure Report** 

**Attachment C. Bridge Inspection Report** 

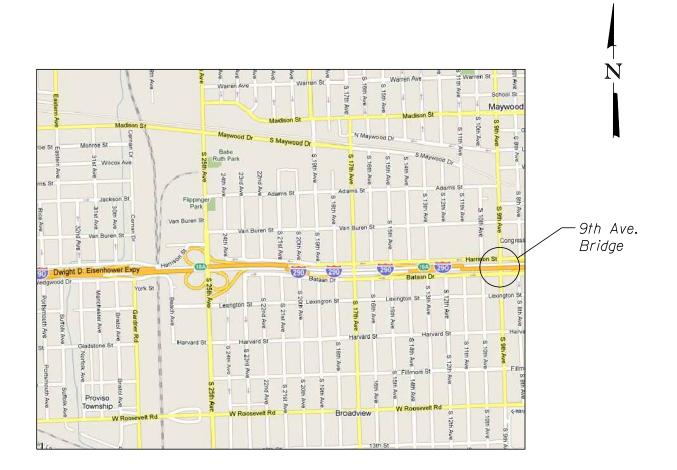
**Attachment D. Structure Photos** 

Attachment E. Abbreviated Existing Plans

Attachment F. Proposed Plan and Profile



# ATTACHMENT A LOCATION MAP



LOCATION MAP

# ATTACHMENT B IDOT MASTER STRUCTURE REPORT

## Illinois Department of Transportation Structures Information Management System Structure Summary Report

**Date:** 10/30/2015

Page: 1

Structure Number:	016-2058	District: 1
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		Invento	ry Data	
Facility Carried:	9TH AVE	Bridge Name:	Sufficiency Rating:	65.0 Structure Length: 206
Feature Crossed:	I-290 IKE	Location: 2.0 M W IL 43	HBP Eligible:	Yes AASHTO Bridge Length: 99
Bridge Remarks:			Replaced By:	- Length of Long Span: 57
Bridge Status:	1 OPEN - NO RESTRICT	<b>Status Date</b> : 04/1988	Replaces:	- Bridge Roadway Width: 50
Status Remarks:			Last Update Date:	07/05/2012 Appr Roadway Width: 50
Maint County:	016 COOK	Maint Township: 27 PROVISO		None <b>Deck Width</b> : 62
Maint Responsibility:	14 I.D.O.T.	MUNICIPALITY	Multi-Level Structure Nbr:	Sidewalk Width Right: 5
Service On/Under:	1 HIGHWAY	1 / HIGHWAY	Skew Direction: N	None Sidewalk Width Left: 5
Reporting Agency:	1 I.D.O.T BUREAU OF MAIN	-	Skew Angle: 0 D	Navigation Control: N N
Main Span Matl/Type:	4 STEEL CONTINUOUS	/ 02 STRINGER/MULTI-		No Navigation Horiz Clear:
Nbr Of Main Spans:	4 Nbr Of Approac	ch Spans: 0	Historical Significance:	No Navigation Vert Clear:
***Approaches***			Border Bridge State:	Culvert Fill Depth:
Near #1 Matl/Type:		/	Bdr State SN:	Number Culvert Cells:
Near #2 Matl/Type:		/	Bdr State % Responsibility:	0 Culvert Opening Area:
Far #1 Matl/Type:		/	Structural Steel Wt 35	50000 Culvert Cell Height: 0.
Far #2 Matl/Type:		/	Substructure Material:	Culvert Cell Width: 0.
Median Width/Type:	0 Ft. / 0 None		Rated By: 2 IDOT	Rate Method: 7
Guardrail Type L/R:	0None / 0	None Inventory Rating	` '	•
Toll Facility Indicator:	0 No Toll	Operating Ratin		Crossing 1 Nbr:
Latitude:	41.87114326 <b>S Longitud</b>		Design Load: 02 HS20	Crossing 1 Nbr:
Deck Structure Type:	A CIP CON NRMLLY FORM	Deck Str	cture Thickness: 7 SD: N FO:	Y RR Lateral Underclear: 0
	and the second s			
Sidewalks Under Stru				RR Vertical Underclear: 0 Ft 0 In
Sidewalks Under Stru	cture: 0 None  Key Route On Da	ita	Key Ro	
	Key Route On Da		Key Ro	RR Vertical Underclear: 0 Ft 0 In
Key Route Nbr: FEDE	<b>Key Route On Da</b> RAL-AID URBAN 273		•	RR Vertical Underclear: 0 Ft 0 In oute Under Data
Key Route Nbr: FEDE Appurtenances Main I	<b>Key Route On Da</b> RAL-AID URBAN 273	3 <b>Station:</b> 2.5200	FEDERAL-AID INTERSTATE	RR Vertical Underclear: 0 Ft 0 In oute Under Data 0290 Station: 5.6800
Key Route Nbr: FEDE Appurtenances Main I Inventory County: (	Key Route On Da FRAL-AID URBAN 273 Route 00000 016 COOK	3 Station: 2.5200 Segment:	FEDERAL-AID INTERSTATE Main Route 00000	RR Vertical Underclear: 0 Ft 0 In oute Under Data 0290 Station: 5.6800 Segment:
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Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635	Key Route On Da  RAL-AID URBAN 273  Route 00000  016 COOK 27 PROVISO N MAYWOOD III	3 Station: 2.5200 Segment: Linked: Y latl. Hwy System: Not on NHS	FEDERAL-AID INTERSTATE  Main Route 00000  016  27 PROVISO	RR Vertical Underclear: 0 Ft 0 In  oute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051	Key Route On Da           ERAL-AID URBAN         273           Route         00000           016         COOK           27         PROVISO           MAYWOOD         III           1051         0	3 Station: 2.5200 Segment: Linked: Y latl. Hwy System: Not on NHS nventory Direction:	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD	RR Vertical Underclear: 0 Ft 0 In  oute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction:
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5	Key Route On Da           ERAL-AID URBAN         273           Route         00000           016         COOK           27         PROVISO           MAYWOOD         In           1051         C           MAJOR COLLECTOR         E	3 Station: 2.5200 Segment: Linked: Y  Matl. Hwy System: Not on NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 8200	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051	RR Vertical Underclear: 0 Ft 0 In  Pute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5	Key Route On Da           FRAL-AID URBAN         273           Route         00000           016         COOK           27         PROVISO           MAYWOOD         III           1051         C           MAJOR COLLECTOR         E           Outh/East         North/West	Station: 2.5200 Segment: Linked: Y  Not on NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE	RR Vertical Underclear: 0 Ft 0 In  Pute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5 ** CLEARANCES ** So Max Rdwy Width: 5	Key Route On Da           FRAL-AID URBAN         273           Route         00000           016         COOK           27         PROVISO           MAYWOOD         III           5         MAJOR COLLECTOR           South/East         North/West           50.0         0	Station: 2.5200 Segment: Linked: Y  latl. Hwy System: Not on NHS nventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7 lumber Of Lanes: 4	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE  South/East North/West	RR Vertical Underclear: 0 Ft 0 In  Pute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5 Number Of Lanes: 6
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5 ** CLEARANCES ** So Max Rdwy Width: 5	Key Route On Da           FRAL-AID URBAN         273           Route         00000           016         COOK           27         PROVISO           MAYWOOD         III           5         MAJOR COLLECTOR         E           buth/East         North/West         N           50.0         0.0         E	3 Station: 2.5200 Segment: Linked: Y  latl. Hwy System: Not on NHS nventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7 lumber Of Lanes: 4 One Or Two Way: 2 Two-Way	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE  South/East North/West 0.0	RR Vertical Underclear: 0 Ft 0 In  ute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5 Number Of Lanes: 6 One Or Two Way: 2 Two-Way
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5 ** CLEARANCES ** So Max Rdwy Width: 5	Key Route On Da           GRAL-AID URBAN         273           Route         00000           016 COOK         00000           27 PROVISO         N           MAYWOOD         III           50 MAJOR COLLECTOR         E           South/East         North/West           50.0         0.0           60.0         0.0	3 Station: 2.5200 Segment: Linked: Y  Matl. Hwy System: Not on NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7  Mumber Of Lanes: 4 One Or Two Way: 2 Two-Way  Bypass Length: 0	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE  South/East North/West 0.0	RR Vertical Underclear: 0 Ft 0 In  ute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5 Number Of Lanes: 6 One Or Two Way: 2 Two-Way Bypass Length: 0
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Key Route Nbr: FEDE Appurtenances Main I nventory County: 0 Fownship/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5 ** CLEARANCES ** So Max Rdwy Width: 5 Horizontal: 6	Key Route On Da   SRAL-AID URBAN   273   Route	Segment: Linked: Y  Natl. Hwy System: Not on NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7  Number Of Lanes: 4  One Or Two Way: 2 Two-Way Bypass Length: 0  Future AADT Yr/Cnt: 2032 / 8961  Designated Truck Rte: NONE Special Systems: No	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE  South/East North/West 0.0 51.0 51.0	RR Vertical Underclear: 0 Ft 0 In  Pute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5 Number Of Lanes: 6 One Or Two Way: 2 Two-Way Bypass Length: 0 Future AADT Yr/Cnt: 2032 / 1868 Designated Truck Rte: CLASS I Special Systems: Yes
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5 ** CLEARANCES ** So Max Rdwy Width: 5 Horizontal: 6	Key Route On Da	Station: 2.5200 Segment: Linked: Y  Matl. Hwy System: Not on NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7  Mumber Of Lanes: 4 One Or Two Way: 2 Two-Way Bypass Length: 0  Future AADT Yr/Cnt: 2032 / 8961  Designated Truck Rte: NONE Special Systems: No  Data ***	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE  South/East North/West 0.0 51.0 51.0	RR Vertical Underclear: 0 Ft 0 In  Pute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5 Number Of Lanes: 6 One Or Two Way: 2 Two-Way Bypass Length: 0 Future AADT Yr/Cnt: 2032 / 1868 Designated Truck Rte: CLASS I Special Systems: Yes  Route Under Data ***
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5 ** CLEARANCES ** So Max Rdwy Width: 5 Horizontal: 6	Key Route On Da   SPAL-AID URBAN   273     Route	Segment: Linked: Y  Jatl. Hwy System: Not on NHS nventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7 Jumber Of Lanes: 4 One Or Two Way: 2 Two-Way Bypass Length: 0 Future AADT Yr/Cnt: 2032 / 8961 Designated Truck Rte: NONE Special Systems: No  Data *** Kind Number	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE  South/East North/West 0.0 51.0 51.0  *** Marked R Designation	RR Vertical Underclear: 0 Ft 0 In  Jute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5 Number Of Lanes: 6 One Or Two Way: 2 Two-Way Bypass Length: 0 Future AADT Yr/Cnt: 2032 / 1868 Designated Truck Rte: CLASS I Special Systems: Yes  Route Under Data *** Kind Number
Key Route Nbr: FEDE Appurtenances Main I Inventory County: 0 Township/Road Dist Municipality 3635 Urban Area: 1051 Functional Class: 5 ** CLEARANCES ** So Max Rdwy Width: 5 Horizontal: 6	Key Route On Da  RAL-AID URBAN 273  Route 00000  D16 COOK 27 PROVISO MAYWOOD III 1051 COOK  MAJOR COLLECTOR EO  Duth/East North/West N  60.0 0.0 EO  *** Marked Route On III Designation ine 8 Other	Segment: Linked: Y  Jatl. Hwy System: Not on NHS nventory Direction: Curr AADT Yr/Count: 2014 / 8200 Est Truck Percentage: 7 Jumber Of Lanes: 4 One Or Two Way: 2 Two-Way Bypass Length: 0 Future AADT Yr/Cnt: 2032 / 8961 Designated Truck Rte: NONE Special Systems: No  Data *** Kind Number	FEDERAL-AID INTERSTATE  Main Route 00000 016 27 PROVISO 3635 MAYWOOD 1051 1051 1 INTERSTATE  South/East North/West 0.0 51.0 51.0	RR Vertical Underclear: 0 Ft 0 In  Jute Under Data  0290 Station: 5.6800 Segment: Linked: Y Natl. Hwy System: On NHS Inventory Direction: Curr AADT Yr/Count: 2014 / 1774 Est Truck Percentage: 5 Number Of Lanes: 6 One Or Two Way: 2 Two-Way Bypass Length: 0 Future AADT Yr/Cnt: 2032 / 1868 Designated Truck Rte: CLASS I Special Systems: Yes  Route Under Data *** Kind Number

## Illinois Department of Transportation Structures Information Management System Structure Summary Report

**Date:** 10/30/2015

Page: 2

Structure Number: 016-2058 District: 1

Contract Nbr: Fed Aid Pr#:

0

**Built By:** 

UI 2610013000

UNKNOWN

				D	ata Related to I	nspection Inf	formation	1					
*** Inspec	tion Interva	ls ***			*** Maxir	num Allowable I	Posting Lim	its ***			Brid	ge Posting	Level:
Routine NBIS:	24 MOS	Underwater:	0 MOS	One T	ruck At A Time:	0	Combi	ination T	ype 3S-1:	Tons	5	No Posting	Required
		Special:	N	Single	e Unit Vehicles:	Tons	Combi	ination T	ype 3S-2	Tons			
					Inspection/Ap	praisal Infor	mation						
Inspection Date:	06/	/05/2014 Inspectio	n Temperature:		74Deg. F						** Act	ual Posted	Limits **
Deck:	5	FAIR CONI	DITION - MINOR	SECTIO	N LOSS, CRACKS					Single	Unit Vehicles	<b>:</b> :	Tons
Superstructure:	5	FAIR CON	DITION - MINOR	SECTIO	N LOSS, CRACKS					Comb	ination Type 3	S-1:	Tons
Substructure:	5	FAIR CONI	DITION - MINOR	SECTIO	N LOSS, CRACKS					Comb	ination Type 3	S-2:	Tons
Culvert:	N	NOT APPL	ICABLE							One T	ruck At A Tim	<b>e</b> : 0	
Channel and Protection:	: N	NOT APPL	ICABLE			Deck Wea	aring Surf:	Е	PLAS DENS	SE CON OVLY	Last F	Paint Type:	С
Structural Evaluation:	5	BETTER TI	HAN ADEQUATE	TO BE	LEFT IN PLACE	Deck Mer	nbrane:	F	NONE		LD SHP GI	RN&AL FNL	
Deck Geometry:	3	INTOLERA	BLE - HIGH PRIC	ORITY FO	OR CORRECTION	Deck Pro	tection:	J	NONE				
Underclearance-Vert/Lat	t.: 3	INTOLERA	BLE - HIGH PRIC	ORITY FO	OR CORRECTION	Total Dec	k Thick:	8.5	5				
Waterway Adequacy:	N	NOT APPL	ICABLE			Last Pain	t Date:	09	/1985				
Approach Roadway Alig	n: 7	BETTER TI	HAN PRESENT N	/INIMUN	1 CRITERIA								
Bridge Railing Appraisa	l: 3	Meets Stan	dards										
Approach Guardrail:	111	Does Not E	xist Does No	t Exist	Does Not Exist								
Pier Navig Protection:	N	N/A											
				Unde	erwater Inspect	ion/Appraisa	l Informa	tion					
Inspection Date:													
Temperature:		Inspection I	Method:										
					Аррі	raisal Rating:							

		Scour C	ritical Information	Miscellaneous				
Rating:			Evaluation Method:					
Analysis D	ate:			Microfilm Data Recorded:	Yes			
		Construction Inforn	nation					
Year:	1951 Original		Reconstructed					
Route:	FA-131	Sta: 217+47.64	Sta:					
Section No	or: 062-3435.1-	MFT						

# ATTACHMENT C BRIDGE INSPECTION REPORT



## **Routine Inspection Report**

SN: 016-2058	Distric	t: 1	Spans:	: 4	Appr. Spa	ans: 0	Skew:	0	ADT: 8700 Truck Pct: 2			ct: 2
ADT Un: 181100	Maint.	Co: COOK	<		Twsp: PR	ROVISO			Status: OPE	N, NO	RESTRICTIONS	
Facility Carried: 9	TH AVI	E			Feature C	Crossed	: 1-290 1	ΚE				
Location: 2.0 M V	V IL 43		Munici	pality: MA`	YWOOD				Team/Sub S	Section	: E23/014	Insp/Rte: 023
Bridge Name:					Material 8	ፄ Type:	STEEL	CONTI	NUOUS/MUL	TI-BE/	ΑM	
Insp. Intervals Ro	utine: 2	<u></u> 4	Fractur	re Critical:	0 [	Jnderw	ater: 0		Special: N/A	4	Elemen	t Level: 24
0 - Inspection Date: 6/5/1/9 90C - Tem					. (°F):	7	4	90B	1 - In-Depth		X	
ls Delinquent:	F	Reason:										
90A - Agency Pro	gram N	Лападег:	J.10	anders		90A3	- Consu	ltant Pi	rogram Mana	iger:		
90A1 - Team Lea	der:	J.Kh			···	90A2	- Inspec	tor:				
90B - Inspection I	Remark	KS:								***************************************		
NUMEROU BENDING	IS SPA ON BE	LLS WITH AM 11 OV	EXPOS ER WB	SED REBA 1-290 LANI	R PRESE E 2	NT ON	SUB-ST	RUCT	URE ELELMI	ENTS (	PIERS). C	OUT OF PLANE
			1.3		R	esour	ces	•				
Time to Inspect(I-	l:M):	1:20 :	Traf	ffic Control	l:	Воа	at:	V	Vaders		Snooper:	
Ladder:	N	Manlift;		Bucket T	ruck:		Other:	•				
	- 1,144.		• •		Inspect	or's A	ppraisa	ıls				
		Prev	New	5 6	1/12							
58 - Deck Condit		6	16	, 0	<u>//                                   </u>		······································	•				
こてのくとら \r 59 - Superstructu			75	1 50H	rrt.							7.007 HVV V
medium tr				in ort	- 5tee	1 54	ructu	re	<u> </u>			
60 - Substructure			5							٠.		
Cracks, So				ebars	of Pier	Caps	and	col	umns,			
62 - Culvert Cond	dition:	N	N			- 1 · 1 · 1				<u> </u>	fight of	
61 - Channel Co	ndition:	: N	N									
71 - Waterway A	dequad	cy: N	N					- 1				
72 - Approach R	dwy Ali	ign: 7	1-7									
111 - Pier Navig	Protect	tion: N	N									
				\$	0B - Insi	pection	n Rema	arks:				
2014) The	Str	<u>'n cture</u>	<u>,                                    </u>	1 slar	Ste	اه ا	ionti	بدور	ns with	ے	avel 5	ofewalls
1									c Ce 55'1			n in-depth
Should	be	Pactor	med	61260	cycl	<u>e.</u>	an	· ^~	depth u	عمد	Pertor	nel
on 6/	5/1	'y			) ~				•			



### Structure Number: 016-2058

## **Routine Inspection Report**

## Additional Inspection Data

	Prev New								
36A - Bridge Railing Adequacy:	3	0							
Approach Guardrail Adequacy: 36	B - Transitions	Prev 1	New	36C - Guardrail:	Prev 1	New	36CD - Ends:	Prev 1	New
	Prev New			***************************************		,			
108A - Wearing Surface Type:	E	If 'L-O	ther' De	escribe:					
108B - Type of Membrane:	F	if 'E-O	ther D	escribe:					
108C - Deck Protection:	J	If 'I-Ot	her De	scribe:					
108D - Total Deck Thickness (In.):	8.5								
59A - Paint Date(Mo/Yr):	09/1985		]						
59B - Paint Type:	С		Color:	Fascia; Inte	r		; Railing		
59C - Utilities Attached:	9		If 'B-O	ther' Describe:					
	70A2 - Single	Unit Ve	ehicles:	:			Tons		
Weight Limit Posting:	70B2 - Comb	ination	Type 3	S-1 (3 or 4 axles):			Tons		
70C2 - Combination Type 3S-2 (5 or more axles): Tons						Tons			
	70D2 - One 7	ruck at	a Time	-					
		90B -	Inspe	ction Remarks:		-		•	
				Signatyre				Doto	
Inspection Team Leader:		<u> </u>	16.5	. Mallie	<del></del>		6/	Date	114
Consultant Program Manager:		- CV	»( <i>y</i>						,
Agency Program Manager:		96)	1				6 1	73	124



### Structure Number: 016-2058

## **Routine Inspection Report**

Inspection Date	Remarks
06/11/12	NUMEROUS SPALLS WITH EXPOSED REBAR PRESENT ON SUB-STRUCTURE ELELMENTS (PIERS). OU OF PLANE BENDING ON BEAM 11 OVER WB I-290 LANE 2
11/18/10	NUMEROUS SPALLS WITH EXPOSED REBAR PRESENT ON SUB-STRUCTURE ELELMENTS (PIERS). OU'OF PLANE BENDING ON BEAM 11 OVER WB I-290 LANE 2
12/09/08	SPALLS WITH EXPOSED REBAR PRESENT ON SUB-STRUCTURE ELELMENTS.

BBS-BIR (Rev. 03/04/2014) Sheet 3 of 3



## **Element Level Inspection Report**

SN: 016-2058	District	: 1	Spans: 4	Appr. S	pans: 0	Skew: 0	ADT: 8700	Truck F	ct: 2	
ADT Un: 181100	Maint.	Co: COOK		Twsp: F	PROVISO	)	Status: OPEN, NO RESTRICTIONS			
Facility Carried: 9			Feature	Crossed	l: I-290 IKE					
Location: 2.0 M W IL 43 Municipality: MAY							Team/Sub Section	on: E23/014	Insp/Rte: 023	
Bridge Name:				Materia	l & Type:	STEEL CONT	INUOUS/MULTI-BE	AM		
Insp. Intervals Ro	outine: 2	4	Fracture Critical:	0 Underwater: 0		Special: N/A Element L		nt Level: 24		
93D - Inspection	Date:	6/5/14	93C6 - Tem	p. (°F):	7	4				
Is Delinquent		Reason:						,		
90E - Agency Program Manager: J. landers					90E3 - Consultant Program Manager:					
90E1 - Team Leader: J. Khalil					90E2	2 - Inspector:				

### Resources

Time to Inspect(H:M):	0:0	Traffic Control:	Boat:	Snooper:	
Ladder:	Manlift:	Bucket Truck:	Other:		

## Inspector's Appraisals

Element		Element Description	Env	Quantity	Unit	CS1	CS2	CS3	CS4
8022	Concrete Dec	k Protected w/ Rigid Overlay	3	13020	SF	12370	650	0	0
	Remarks	Spalling on underside along former lon at sidewalks	gitudina	al joint. Ra	ndom	cracking ir	overlay.cr	acking and	spalling
107	Lead Painted	Steel Open Girder	4	21070	SF	15070	6000	0	0
	Remarks	Generally rust thru-out. Heaviest on bo	ottom fla	anges.					
8172	Lead Painted	Steel Closed Web/Box Girder and Open	4	24	EΑ	24	0	0	0
	Remarks								
210	Reinforced Co	onc Pier Wall	4	1880	SF	1480	100	300	0
	Remarks	Cracks, spalls, and delamin's present file.	in reap	ired areas	@ pie	s 1,2, &3.	See substr	ucture drav	vings in
215	Reinforced Co	onc Abutment	4	1120	SF	1093	22	5	0
	Remarks	Spall at south abutment.							
234	Reinforced Co	onc Pier or Abutment Cap	4	330	LF	241	32	57	0
	Remarks	Spalls with exposed rebar present. See	e subst	ructure drav	wings	in file.			
302	Preformed Jo	int Seal	3	125	LF	0	0	0	125
	Remarks	Some length shredded at both abutme	nts. bo	th joints are	over	ompresse	d		
310	Elastomeric E	Bearing	4	24	EΑ	0	0	22	2
	Remarks	Bearings showing signs of surface to rabutment has advance corrosion.	meduim	rust. Bear	ings a	t beam 11	& 2 @ nort	h and south	1
313	Fixed Bearing		4	12	EA	0	12	0	0
	Remarks	Bearings showing signs of surface to	meduim	ı rust.					
8316	Moveable Ste	el Bearings below continuous decks	4	24	EA	0	0	24	0
	Remarks	Bearings showing signs of surface to	meduim	rust.					-
8323	Approach Par	vement	3	2	EA	1	1	0	0
	Remarks	Longitudinal crack present in the sout	n appro	ach in the r	orthb	ound lane.	•	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
331	Concrete Brid	lge Railing	3	420	LF	0	420	0	0
	Remarks						·/·		
8406	Steel Open G	irder	4	2	LF	0	2	0	0
	Remarks	Slight upward bend of beam 11 bottor	n flange	e over WB	ane 2		· · · · · · · · · · · · · · · · · · ·		<del>1</del>
8058	Side wal	K	3	2/00	SF	2066	40		

minor spulls at both sidewalks



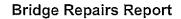
Structure Number: 016-2058

**Element Level Inspection Report** 

	Signature	Date
Inspection Team Leader:	Jan D Cheld	6/5/14
Consultant Program Manager:		1 1
Agency Program Manager:	0/12	6 2314

Sidewalk

5' X 210' X Z sides = 2100 SF





Structure Number: 0162058

Location & Inventory Information

Facility Carried:

9TH AVE

Feature Crossed: 1-290 IKE

Location:

2.0 M W IL 43

Team Section:

E23

Mat/Type/#Spans: Steel continuous/Multi-beam/4

	* * * PROF	OSED MAI	NTENANCE	REPAIR	?S ***		
(Only Active IWC's are Shown)							
Repair Code	Repair Description	IWC Date	Completed By	Prty. Code	Qty.	Unit	Inspector
Status	Comments	6/5/14					
<u>557</u>	EXPANSION JOINT REPAIR	06/1 <del>1/201</del> 2	CM	Н	0	LIN. FT.	KHALILJS
AP	remove and replace both expansion joints at both abutments						
<u>558</u>	ROADWAY JOINT MAINTENANCE	06/11 <del>/2012</del> 6/5/14	00	Н	105	LIN. FT.	KHALILJS
AP	Reseal pavement releif joints. 6/5/14						
<u>656</u>	CLEANING AND PAINTING	06/1-1/2012	СМ	Н	21070	SQ. FT.	KHALILJS
AP	Clean & paint structural steel. 6/5 //4						
<u>750</u>	BRIDGE CONCRETE REPAIR	06/ <del>11/2012</del>	СМ	Н	259	SQ. FT.	KHALILJS
AP	Form concrte repair to pier walls, column, and pier caps.						

192 6/23/14

# ATTACHMENT D STRUCTURE PHOTOGRAPHS



Photo 1 - Overall Looking West



Photo 2 – Top of Bridge Looking South

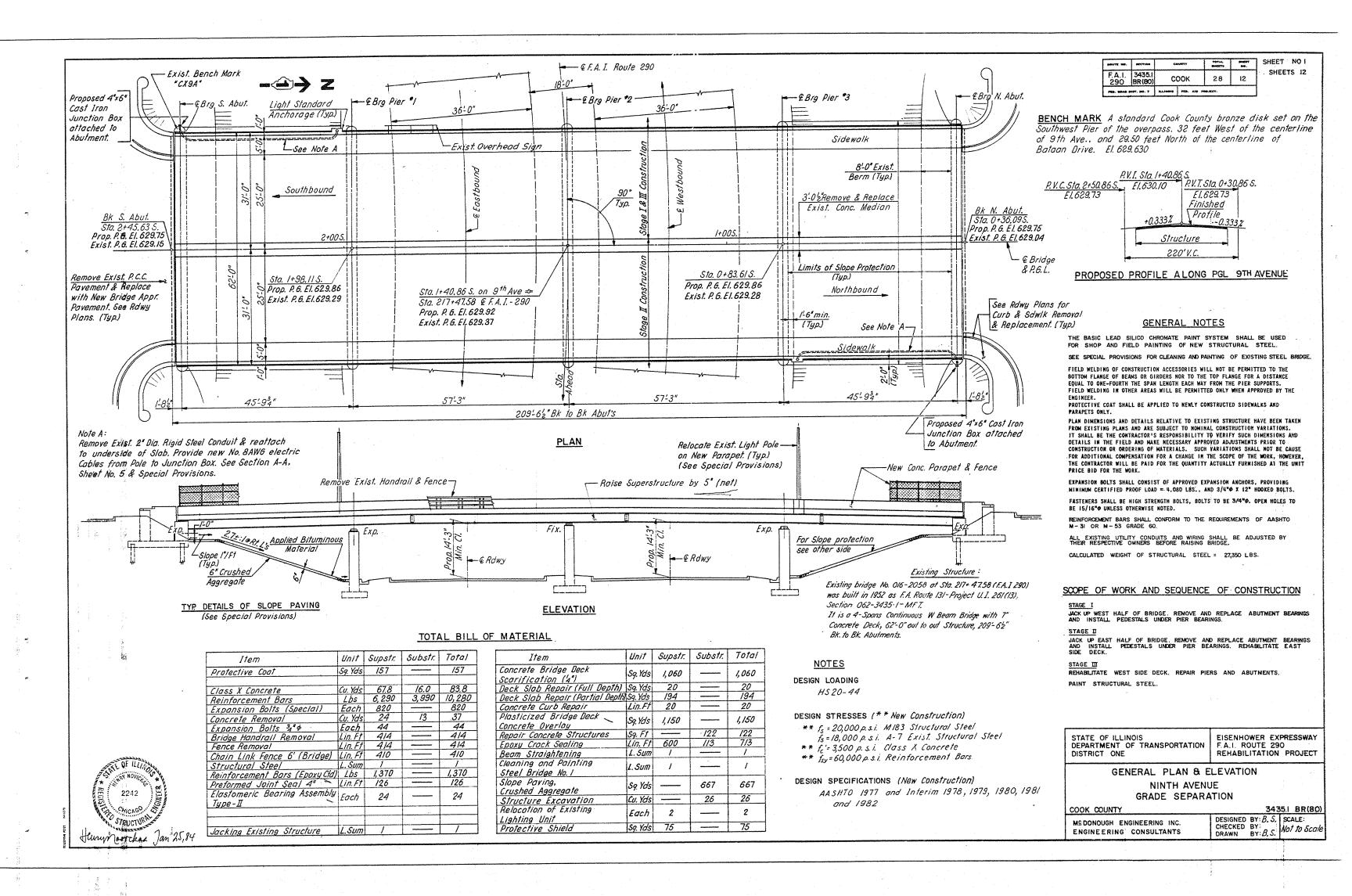


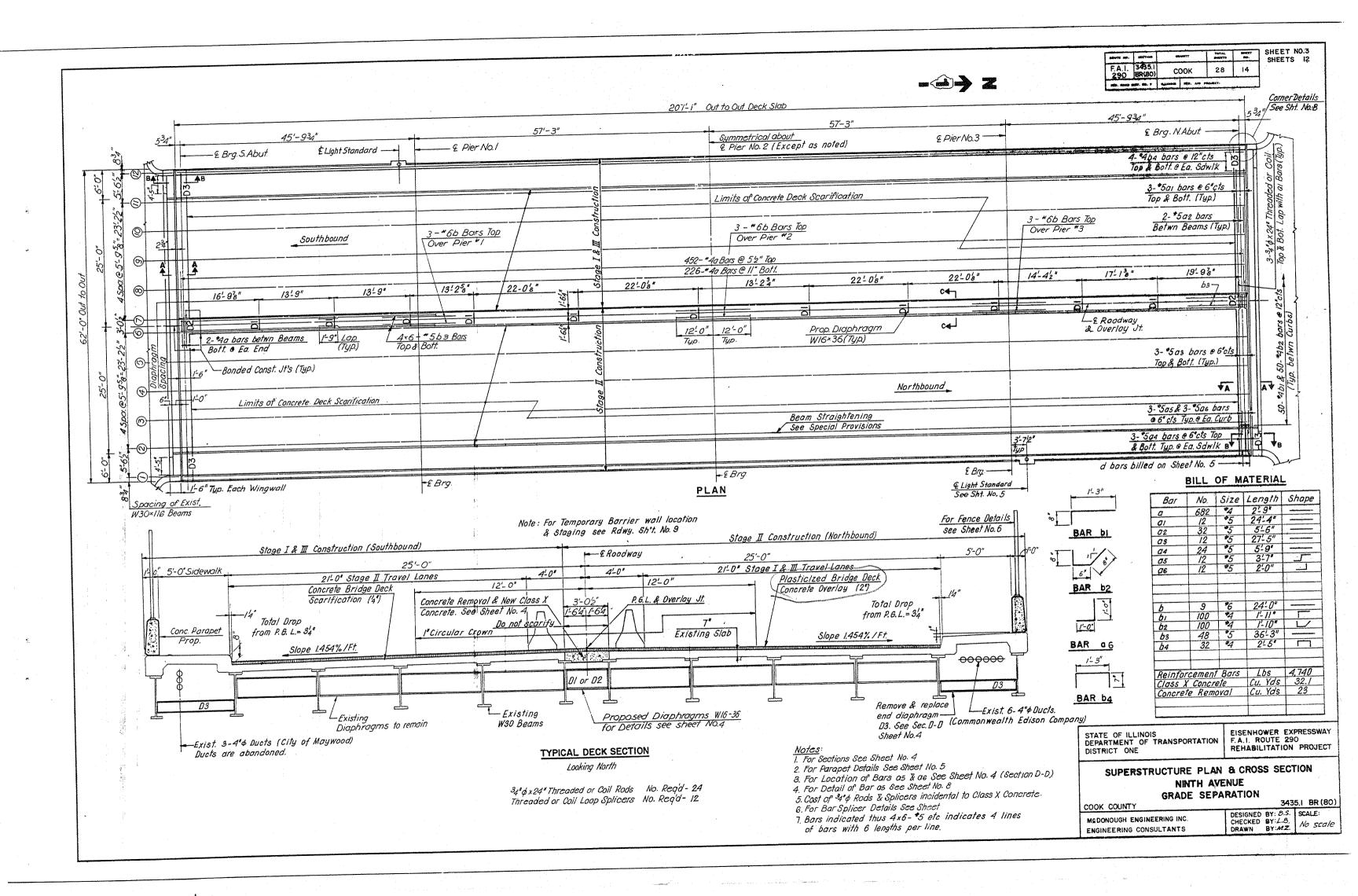
Photo 3 – Typical Pier and Underdeck Layout



Photo 4 – South Abutment and Slopewall

# ATTACHMENT E ABBREVIATED EXISTING PLANS





# ATTACHMENT F PROPOSED PLAN AND PROFILE

