

☐ File

To:	Carl Puzey		From:	John Baczek/Steve Schilke			
Bureau:	Bridges and Structures		Bureau:	Programming			
Attn:	Patrik Claussen		By:	Mark Peterson			
			Subject:	Project and Environmental Studies			
Date:	July 18, 2017			BCR Submittal 016-0706 Des Plaines Ave over I-290			
Please ch	eck appropriate box below:						
	Take Necessary Action			Reply			
\boxtimes	☐ For Your Comments ☐ See I		le About the At	ached 🗌 Return			
	☐ Per Your Request ☐ Draft (For 🗌 Route			

□ For Your Approval

Message

my signature

We are submitting for your review and approval a Bridge Condition Report for the above referenced project. Design Approval is scheduled for September 1, 2017 and the letting date has not been scheduled.

The proposed scope of work for this bridge consists of complete bridge replacement under staged construction. The proposed roadway geometry for the I-290 reconstruction requires a replacement two span bridge with two 11' wide lanes, two 10' wide lanes, a 10' wide center turn lane, two 5' wide bike lanes, and two 10' sidewalks. The proposed bridge will be constructed as part of an advanced contract, while existing I-290 remains open. To facilitate this, the proposed abutment will be placed behind the existing abutment. The location of the pier has also changed due to the proposed I-290 alignment. The existing retaining wall at the southwest corner of the bridge will be rebuilt to align with the new south abutment. New retaining walls will be constructed along the proposed edge of I-290 at the three remaining corners of the bridge and will align with the new abutments. The bridge horizontal alignment and vertical profile are not anticipated to change.

Vehicular and pedestrian access to this structure will be maintained during removal, requiring the need for staged demolition and construction to maintain traffic. Half bridge width staging will allow one through lane in each direction to be maintained during construction. The staging would require cutting through the deck at the centerline and the removal of the diaphragm between the center beams. The existing central open joint in the piers and abutments will allow for the existing substructure to be easily utilized during the staging.

	Completed By		
Copies to	Sarah Wilson, Maintenance	Ken Eng, Design	

Response

Response By

ABBREVIATED BRIDGE CONDITION REPORT



I. Administrative Data

REGION:	1
DISTRICT:	1
COUNTY:	Cook
ROUTE:	Des Plaines Avenue
JOB NUMBER:	P-91-597-10
STRUCTURE NUMBER:	016-0706
LOCATION:	Des Plaines Ave. over FAI 290 (I-290)
II. Roadway/Structure Data	

Roadway Classification:	Major Collector
ADT (current):	12,800 (yr. 2010)
ADTT (current):	4% of ADT
Inventory Rating:	0.985
Operating Rating:	1.640
Sufficiency Rating:	76.7

Construction / Reconstruction / Repair History:

Des Plaines Avenue over I-290 in Cook County, Illinois (Structure No. 016-0706) was constructed in 1957 under Section No. 062-3333.5-MFT for Route FA-1. In 1984 improvements included raising the bridge profile, replacement of the deck slab, and addition of steel diaphragms. Also included were structural steel painting, bearing replacement, abutment and pier repairs, reconstruction of the parapets, approach slabs and expansion joints, and the replacement of a chain link fence. In 1998, improvements included replacing, straightening, and strengthening several steel beams.

III. Physical Description of Structure

General:

Des Plaines Avenue over I-290 consists of a two span continuous non-composite steel bridge carrying two lanes of traffic and sidewalk in both the northbound and southbound directions. The structure has a total length of approximately 140.3 ft (back to back of abutments), a roadway width of approximately 54 ft (face to face of raised sidewalk), and a total deck width of 66 ft. The total deck area is approximately 9,260 sq. ft. Each span length is 69'-1" along the centerline of the bridge. The average length of the north approach slab is 87'-4" while the average length of the south approach slab is 100 ft. The deck is skewed 32°36'20" right ahead. See Attachment D for photos.

Des Plaines Avenue is on a straight horizontal alignment across the bridge. The profile grade on the structure consists of a crest vertical curve. The minimum vertical clearance is 14'-3". Two light poles and underdeck utilities are attached to the bridge.

To the northwest of the bridge are the entrance to the Forest Park CTA station and the westbound access ramp to I-290.



ABBREVIATED BRIDGE CONDITION REPORT



Superstructure:

Deck: The roadway is comprised of two 13.5 ft wide lanes and a 5 ft wide sidewalk in each direction. The existing deck is made-up of a 7½ in. reinforced concrete slab. The deck reinforcement is epoxy coated.

Girders: The deck is supported by 12 longitudinal continuous non-composite steel wide flange beams (W30).

Joints: Expansion joints with preformed joint seals are located at each abutment.

Bearings: Elastomeric Type I expansion bearings are used at the abutments. The pier is fixed. All bearings sit on steel pedestals.

Substructure:

Abutments: At the north and south ends of the bridge, reinforced concrete closed abutments are supported on footings. The abutment backwalls are 12" thick with bearing seats that extend the abutment thickness another 2.25 ft. Wingwalls run parallel to the roadway with varying lengths. The outside wingwalls are 1 ft wide with spread footings.

Piers: The spans are supported by a reinforced concrete wall pier with large openings that is founded on a strip footing. The pier wall width is 2.5 ft with a length of approximately 81 ft. The footing size is approximately 84 ft in length and 7.5 ft in width. Cast-in-place concrete pedestals support the bearings.

IV. Structure Condition Data

Inspection History (NBIS Ratings) Year: 2014 Deck: 7 Super: 6 Sub: 6

Based on the NBIS Bridge Inspection conducted on 09/05/14 by IDOT and field inspections in Spring/Summer 2010 by Benesch, the deck has minor cracking and the steel framing has significant paint loss and rusting. Concrete pier walls, columns, and caps show various spalls with exposed rebar, cracking, and delaminations. Due to significant skew, abutment backwalls have widespread spalling and exposed rebar. There is also visible bearing pad rotation and displacement. The abutments show various spalls and delaminations and the preformed joint seals are torn. Approach pavements have measurable cracking. The vertical underclearance requires correction per the IDOT Master Structure Report. See Attachment B (IDOT Master Structure Report) and Attachment C (Bridge Inspection Report).

V. Discussion and Recommended Scope of Work

The Des Plaines 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 170', a 65' curb to curb width, and an out to out deck width of 89', which includes two 11' wide lanes, two 10' wide lanes, a 10' center turn lane, two 5' bike lanes, and two 10' sidewalks. The proposed bridge will be constructed as part of an advanced contract, while existing I-290 remains open. To facilitate this, the proposed abutment will be placed behind the existing abutment. The location of the



ABBREVIATED BRIDGE CONDITION REPORT



pier has also changed due to the proposed I-290 alignment. The existing retaining wall at the southwest corner of the bridge will be rebuilt to align with the new south abutment. New retaining walls will be constructed along the proposed edge of I-290 at the three remaining corners of the bridge and will align with the new abutments. The bridge horizontal alignment and vertical profile are not anticipated to change. Vehicular and pedestrian access to this structure will be maintained during removal, requiring the need for staged demolition and construction to maintain traffic. Half bridge width staging will allow one through lane in each direction to be maintained during construction. Similar to the method used during the 1984 reconstruction, the staging would require cutting through the deck at the centerline and the removal of the diaphragm between the center beams. The existing central open joint in the piers and abutments will allow for the existing substructure to be easily utilized during the staging. Access to the expressway ramp in the northwest quadrant of the bridge must be coordinated with the staged construction schedule. It is expected that the large tapered area in this quadrant will require additional framing connected directly to the fascia girder. The fascia girder would therefore be defined as a fracture critical member (FCM) and would necessitate a more critical design. Additional coordination is anticipated with the various utility companies associated with this structure. Temporary relocation of signs, utilities, and light poles will be required during staging. Due to the proximity of the existing trunk sewer, the pier foundations 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 repair substructure concrete.

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 \$6,300,000 based on a proposed deck area of 15,730 sq. ft and a unit cost, including contingency, of \$400 per sq. ft.

ATTACHMENTS

Attachment A. Location Map

Attachment B. IDOT Master Structure Report

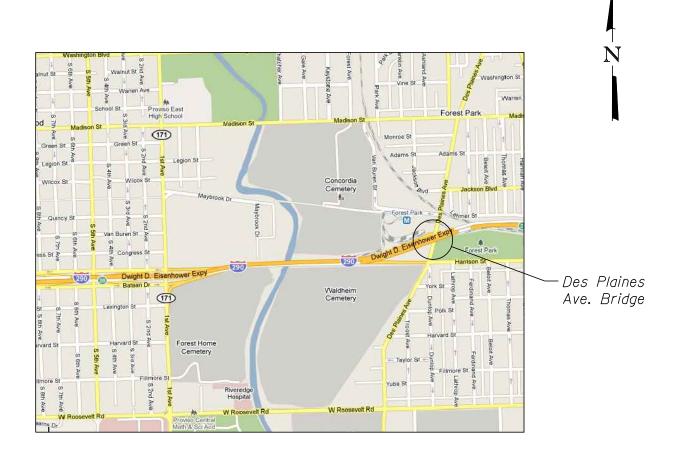
Attachment C. Bridge Inspection Report

- **Attachment D. Structure Photographs**
- 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

Structure Number:	016-0706	District: 1							
		Inv	entory Data						
Facility Carried: DE	S PLAINES AVE	Bridge Name:		Sufficiency Rating:	76.7	Structure Length:	140.2		
Feature Crossed: I-29	90 IKE	Location: 0.5 M W IL 43		HBP Eligible:	Yes	AASHTO Bridge Len	gth: 99.9		
Bridge Remarks:				Replaced By:	-	Length of Long Spar	1: 83.0		
Bridge Status:	1 OPEN - NO RESTRICT	Status Date: 04/1988		Replaces:	-	Bridge Roadway Wid	ith: 54.0		
Status Remarks:				Last Update Date:	08/20/2014	Appr Roadway Widtl	h: 54.0		
Maint County: 07	16 COOK	Maint Township: 27 PR	OVISO	Parallel Structure:	None	Deck Width:	66.0		
Maint Responsibility:	01 I.D.O.T.			Multi-Level Structure Nbr:		Sidewalk Width Righ	nt: 5.0		
Service On/Under:	5 SECOND LEVEL INTERCHAN	GE 1 / HIGHWAY		Skew Direction: N	None	Sidewalk Width Left:			
Reporting Agency:	1 I.D.O.T BUREAU OF MAINTI	-		Skew Angle: 0 D		Navigation Control:	N N/A		
Main Span Matl/Type:	4 STEEL CONTINUOUS		MULTI-BEAM/GIRDER	Structure Flared:	No	Navigation Horiz Cle			
Nbr Of Main Spans:	2 Nbr Of Approach	Spans: 0		Historical Significance:	No	Navigation Vert Clea			
Approaches				Border Bridge State:		Culvert Fill Depth:	0.0		
Near #1 Matl/Type:		/		Bdr State SN:		Number Culvert Cell			
Near #2 Matl/Type:		/		Bdr State % Responsibility:		Culvert Opening Are			
Far #1 Matl/Type:		/			392000	Culvert Cell Height:	0.00		
Far #2 Matl/Type:		/	Defeil De	Substructure Material:		Culvert Cell Width:	0.00		
Median Width/Type:	0 Ft. / 0 None	Nono	Rated By:		Rate Met		d Crossing Info		
Guardrail Type L/R: Toll Facility Indicator:	0None / 0 0 No Toll	None Inventory		•	ate: 10/03/20		a crossing into		
Latitude:		Operating 87.81541004 S	Rating: 1.640 Design Lo			Crossing 1 Nbr: Crossing 1 Nbr:			
Deck Structure Type:	41.87323810 S Longitude A CIP CON NRMLLY FORM		ck Structure Thickness		· ·	RR Lateral Undercle	ar: 0.0		
Sidewalks Under Structure				S. 7.5 SD. N 10.			Ft 0 In		
	Key Route On Data	1		Key Route Under Data					
Key Route Nbr: FEDERAL	•	Station: 0.4400	FEDERAL-AID	•	0290 Stat				
Appurtenances Main Rout		Segment:	Main Route	00000		ment:			
Inventory County: 016	COOK	Linked: Y	016		Link				
• •		I. Hwy System: Not on NHS	27 PROV	ISO			On NHS		
Municipality 2005		entory Direction:		OREST PARK		ntory Direction:			
Urban Area: 1051		r AADT Yr/Count: 2014 / 1	10400 1051 1051			•	2014 / 176600		
Functional Class: 5		Truck Percentage: 11		STATE		Truck Percentage:	4		
** CLEARANCES ** South		nber Of Lanes: 5	South/East	North/West		ber Of Lanes:	6		
Max Rdwy Width: 54.0	On	e Or Two Way: 2 Two	o-Way 0.0		One	Or Two Way: 2	2 Two-Way		
Horizontal: 64.0	0.0 By	bass Length: 0	56.0	56.0	Вур	ass Length:	0		
	Fut	ure AADT Yr/Cnt: 2032 / 1	13184		Futu	re AADT Yr/Cnt: 2	2032 / 192816		
	Des	signated Truck Rte: NONE			Des	ignated Truck Rte: (CLASS I		
Lateral:	Sp	ecial Systems: No			Spe	cial Systems:	/es		
	*** Marked Route On Da	ita ***		*** Marked	Route Under	r Data ***			
	Designation	Kind Number		Designation		Kind	Number		
Route #1: 1 Mainline	8 Other			1 Mainline	1 Inte	rstate Highway	290		
Route #2: 1 Mainline				1 Mainline		e Highway	110		
Route #3: 1 Mainline				1 Mainline					
-			•						

Date: 10/30/2015 Page: 1

Illinois Department of Transportation Structures Information Management System Structure Summary Report

Structure Number:	016-0706		District:	1										
				Da	ta Related to Ins	pection Info	rmation							
*** Inspect	ion Intervals *	**			*** Maximur	n Allowable Pos	sting Limits ***				B	ridge Po	sting Le	vel:
Routine NBIS:	24 MOS 🛛	Underwater:	0 MOS	One Tr	uck At A Time:	0	Combination	і Ту	pe 3S-1:	Tons	5	No Po	sting R	equired
	:	Special:	Ν	Single	Unit Vehicles:	Tons	Combination	і Ту	pe 3S-2	Tons				
					Inspection/Appr	aisal Informa	ation							
Inspection Date:	09/05/	2014 Inspectior	Temperature:		82Deg. F						** /	Actual Po	sted Li	mits **
Deck:	7	GOOD CON	DITION - SOME	MINOR F						Singl	e Unit Vehic	les:		Tons
Superstructure:	6	SATISFACT	ORY CONDITION	I - MINO	R DETERIORATION					Comb	ination Typ	e 3S-1:		Tons
Substructure:	6	SATISFACT	ORY CONDITION	I - MINO	R DETERIORATION					Comb	ination Typ	e 3S-2:		Tons
Culvert:	Ν	NOT APPLI	CABLE							One 1	ruck At A T	ime:	0	
Channel and Protection:	Ν	NOT APPLI	CABLE			Deck Wearin	ng Surf: A	4	BARE DECK NC	OVRLAY	Las	t Paint T	ype:	С
Structural Evaluation:	6	EQUAL TO	PRESENT MINIM	UM CRI	TERIA	Deck Memb	rane: F	=	NONE		LD SHP	GRN&AL	- FNL	
Deck Geometry:	2	INTOLERA	BLE - HIGH PRIO	RITY FO	R REPLACEMENT	Deck Protec	tion:	4	EPOXY COATE	D REINF				
Underclearance-Vert/Lat	.: 2	INTOLERA	BLE - HIGH PRIO	RITY FO	R REPLACEMENT	Total Deck	Thick: 7	7.5						
Waterway Adequacy:	Ν	NOT APPLI	CABLE			Last Paint D	ate: 0	06/1	985					
Approach Roadway Alig	n: 6	EQUAL TO	PRESENT MINIM	UM CRI	TERIA									
Bridge Railing Appraisal	: 3	Meets Stand	dards											
Approach Guardrail:	111	Does Not Ex	xist Does Not	Exist	Does Not Exist									
Pier Navig Protection:	N	N/A												
				Unde	rwater Inspectior	n/Appraisal In	nformation							
Inspection Date:														
Temperature:		Inspection M	lethod:											
					Apprais	al Rating:								
		Scol	ur Critical Info	rmatic	n					Mise	cellaneous	5		

		30	our critic		Miscenarieou
Rating:				Evaluation Method:	
Analysis Dat	te:				Microfilm Data Recorded:
		Construction	Informati	on	
Year:	1957	Original	1984	Reconstructed	
Route:	FAI-1	Sta: 50+43.24	FAI-290	Sta: 4+14.84	
Section Nbr:	:	062-3333.5-MFT		1983-154BR	
Contract Nb	r:			36915	
Fed Aid Pr#:	:	I 0014012000		IR-290-4(37)	
Built By:	0	UNKNOWN		1 I.D.O.T.	
-					

Date: 10/30/2015

Page: 2

ATTACHMENT C

BRIDGE INSPECTION REPORT



4

Routine Inspection Report

SN: 016-0706	District: 1	Spans:	2	Appr. Spans: 0 Skew: 0			ADT: 12900	ľ	Truck Pct: 4			
ADT Un: 179200	Maint. Co: COO	<		Twsp: PROVISO Status: OPEN, NO RESTRICTIONS								
Facility Carried: D	ES PLAINES A	Έ		Feature Crossed: I-290 IKE								
Location: 0.5 M V	V IL 43	Munici	pality: FOR	EST PARI	<			Team/Sub Section: 022/A91 Insp/Rte: 022				
Bridge Name:				Material &	Туре:	STEEL C	оити	NUOUS/MULTI-BI	EAM			
Insp. Intervals Ro	utine: 24	Fractur	re Critical: (Inderwa	ater: 0	1	Special: N/A		Elemer	nt Level: 24	4
90 - Inspection D	ate: 915119	⁽ 9(0C - Temp.	(°F):	8z	- \	90B1	I - In-Depth				
ls Delinquent:	Reason:	-										
90A - Agency Pro	gram Manager:	J.(andors		90A3	- Consulta	ant Pr	ogram Manager:				
90A1 - Team Lea	der: <u>う、</u> とり	al'il			90A2	- Inspecto	r:					
90B - Inspection I	Remarks:	-		<u></u>	· .	·						
Pre Klige Pre Pre Pre Pre Pre Pre Pre Pre Pre Pre												
				Re	sourc	es						
Time to Inspect(H	I:M): 1:0	Trat	ffic Control:		Boa	ıt:	V	Vaders	Snoc	oper:		
Ladder:	Manlift:		Bucket Tr	uck:		Other:						
				Inspecto	or's Ap	praisals						
58 - Deck Condit	Pre ion: 7	/ New ∞	STATE STATE									an sector
56 - Deck Colluit			50020000	的现在分词		e Mesjae y.	(10)(2)(0)					
59 - Superstructu	ire Cond: 6	6	moderate	to heavy ri	ust cov	ers most c	of the	steel surface				
60 - Substructure	Cond: 6	6	spalls with	n exposed	rebars	at abutme	ents a	and pier				
					ria: Origini		an a		al silve a s	si anali sina	en la derection de col	usura sua
62 - Culvert Conc	lition: N											
61 - Channel Cor	ndition: N	N										
71 - Waterway A	dequacy: N	N										
72 - Approach Ro	dwy Align: 6	6										
							1.900 A.V.		9945 AN 133	(Regulation)		a da ana ana ana ana ana ana ana ana ana
111 - Pier Navig	Protection: N									SARAS () References	an an thairte. An thairte an thairte	
nest-große-talen ign Stati	QARARINI.		9()B - Insp	ection	Remark	ks:			9838)) -		



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Structure Number: 016-0706

Routine Inspection Report

			Additional Inspection Data									
36A - Bridge Railing Adequacy:	Prev 3	New	Prev	New	Prev	New	Pr	rev	New			
Approach Guardrail Adequacy: 36	B - Tra	nsitions	: 1		36C - Guardrail: 1		36CD - Ends:	1				
	Prev	New										
108A - Wearing Surface Type:	Α		If 'L-Other' Describe:									
108B - Type of Membrane:	F		If 'E-Other' Describe:									
108C - Deck Protection:	А	If 'I-Other' Describe:										
108D - Total Deck Thickness (In.):	7.5											
59A - Paint Date(Mo/Yr):	06/19	85										
59B - Paint Type:	С			Color:	Fascia; Inter	;	; Railing					
59C - Utilities Attached:	9		If 'B-Other' Describe:									
	70A2	- Single	e Unit Veh	icles:			Tons					
Weight Limit Posting:	70B2	- Comb	ination Ty	pe 38	6-1 (3 or 4 axles):		Tons					
	70C2	- Comb	ination Ty	pe 3	S-2 (5 or more axles):		Tons					
	70D2 - One Truck at a Time:											
							_					

Joint Openings (In.):

90B - Inspection Remarks:

	Signature	Dat	e
Inspection Team Leader:	Jawal Chelil	915	1 I¥
Consultant Program Manager:		1	1
Agency Program Manager:	402	1018	114

Illinois Department of Transportation

Structure Number: 016-0706

Routine Inspection Report

	Historical Remarks							
Inspection Date	Remarks							
09/26/12	Substructure Condition: spalls with exposed rebars at abutments and pier							
09/26/12	Superstructure Condition: moderate to heavy rust covers most of the steel surface							
09/27/10	58) DECK IS IN GOOD CONDITION, BUT HAS A FILLET PROBLEM. ITEM 59 RATING (BOTTOOOM FLAGES, WEBS, AND DIAPHRAGMS SHOWING SIGNS OF PAINT PEELLING & HEAVY RUST). SPALL W/EXP BARS IN VARIOUS SUB STRUCT ELEMENTS.							
09/26/08	58) DECK IS IN GOOD CONDITION, BUT HAS A FILLET PROBLEM. ITEM 59 RATING (BOTTOOM FLAGES, WEBS, AND DIAPHRAGMS SHOWING SIGNS OF PAINT PEELLING & HEAVY RUST).							
09/27/06	ITEM 59 RATING (BOTTOM FLAGES, WEBS, AND DIAPHRAGMS SHOWING SIGNS OF PAINT PEELLING & HEAVY RUST).							

Printed 09/28/2014

Illinois Department of Transportation

Element Level Inspection Report

SN: 016-07	06 District:	1	Spans: 2	Appr. Sp	ans: 0	Skev	v: 0	ADT:	12900	Truck	Pct: 4	
ADT Un: 17	/9200 Maint. (Co: COOK	<u> </u>	Twsp: Pl	ROVISC	с <u>'</u>		Status	: OPEN, N	IO RESTRI	CTIONS	
Facility Car	ried: DES PLA	INES AV	E	Feature	Crosse	d: I-290) IKE					
Location: 0	.5 M W IL 43		Municipality: F	OREST PAR	٦K			Team.	/Sub Section	on: 022/A91	l Insp/Rt	e: 022
Bridge Nan	ne:		l	Material	& Type	: STEE		NOUS	S/MULTI-BE	EAM		
Insp. Interva	als Routine: 24	1	Fracture Critica	al: 0 U	Inderwa	ater: 0		Speci	al: N/A	Elem	ent Level: 2	.4
93D - Inspe	ection Date:	9/5/14	93C6 - Te	mp. (°F):		8 Z						
ls Delinque	nt	Reason:										
90E - Agen	cy Program M	anager:	J. Lande	-5	90E	3 - Coi	nsultant P	rogram	Manager:	2		
90E1 - Tea	m Leader:	J. V	<i>Chalil</i>		90E	2 - Ins	pector:					
		2 4 4 2 . E 2 2 8 8		R	esou	rces						
Time to Ins	pect(H:M);):0 :	Traffic Cont	rol:	Bo	oat:	N N	/aders		Snooper:		
Ladder:	M	anlift:	Bucket	Truck:		Othe	r:					
				Inspect	or's A	Appra	isals					
Element		Elem	ent Description	1		Env	Quantity	Unit	CS1	CS2	CS3	CS4
1226	Concrete Dec	k Bare				4	9257	SF	8457	800	0	0
	Remarks	Many	areas of fillets	removed in	the sof	fit. Son	ne minor t	ransv.	cracks in ti	he soffit.		
107	Lead Painted	Steel Op	en Girder			4	16190	SF	0	16190	0	0
	Remarks	Heav	y rust on bottom	n flanges &	paint pe	eeling o	on the wel	o with r	ust presen	t.		
8172	Lead Painted	Steel Clo	osed Web/Box G	Sirder and O	pen	4	24	EA	0	24	0	0
	Remarks	Heav	y rust on bottom	n flanges &	paint pe	eeling o	on the we	o with I	rust presen	it.	, <u></u>	
205	Reinforced C		mn or Pile Exten			4	840		806	1	22	0
	Remarks	Spall	l with exposed b	ars @ col. i	¥2 (11 S	SF). Cr	acking @	col. #:	3 & 4 (12 S	F).		
210	Reinforced C			4	155		1519			0		
	Remarks	Dela	minations, spall	s and crack	ing pre	ng present on the south and north face wall (10SF & 8SF).						
215	Reinforced C					4	484	1	4694)	0
	Remarks	Vert. @ N	delamins in S. abut spall 5 SF	abut approx	. (60 S orner	F) & N.	abut app	rox. (28	SF) Spal	I @ SE Cor	ner (1 SF).	Backwall
234	Reinforced C	onc Pier (or Abutment Ca	р		4	23	3 LF	190	23	25	C
·····	Remarks	Dela	min and spalls	@ S. & N. C	ap							
302	Preformed Jo					4	16		C			0
	Remarks	N. &	S. joint seal she	ow signs of	abrasio	on and	tearing ar	id evide	ence of lea	kage from	below.	
310	Elastomeric	Bearing				4	2	4 EA	0	0 0	24	(
	Remarks	Bear	rings @ abut sh	owing signs	of med	d. to he	avy rust.		_			
313	Fixed Bearin	g				4	1	2 EA	0) 12	. 0	(
	Remarks	Bea	rings showing s	igns of rust.								
8323	Approach Pa					4		2 EA	(-		1
	Remarks	Mea appr		south	approach	pavem	ents. Som	e pothole p	atching in s	outh		
331	Concrete Bri					4	28	0 LF		230) 50	(
	Remarks	spal	lls on outside fa	ce								
8058	Sidewa	ιK				4	14	00				



Structure Number: 016-0706

Element Level Inspection Report

	Signature /	Date
Inspection Team Leader:	Japal Chall	10 18 14
Consultant Program Manager:		1 1
Agency Program Manager:	$(1)_{2}$	1018114



Location:

S -

Bridge Repairs Report

Structure Number: 0160706

Location & Inventory Information

Facility Carried:	DES PLAINES AVE	Feature Crossed:
Facility Carried:	DES PLAINES AVE	Feature Crossed:

Team Section: 022

1-290 IKE

Mat/Type/#Spans: Steel continuous/Multi-beam/2

0.5 M W IL 43

(Only Active IWC's are Shown)										
Repair Code	Repair Description	IWC Date	Completed By	Prty. Code	Qty.	Unit	Inspector			
Status	Comments	9/5/14	•							
<u>411</u>	PARTIAL DEPTH PATCHES	09/26/2012	TS	М	4	SQ. YD.	KHALILJS			
AP	approach slab paothole patching in lane 1 northbound @ south approach									
<u>619</u>	OVERHEAD CONCRETE REMOVAL	09/ 26/2012 9/5/14	BC	Н	0	HRS.	KHALILJS			
AP	scaling at backwall, abutment wall and abutment caps									
<u>656</u>	CLEANING AND PAINTING	09/26/2012	СМ	М	16000	SQ. FT.	KHALILJS			
AP	Fascia beams, interior, and below deck joints									
<u>750</u>	BRIDGE CONCRETE REPAIR	09/26/2012 9/5/14	СМ	М	128	SQ. FT.	KHALILJS			
AP	Form concrete repair @ N. backwall and @ South & North abut caps. Pier caps and wall									

JJ - 10/8/14

Priority Codes: H-High, M-Medium, L-Low BBS-BRR (Rev. 01/2002)

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ATTACHMENT D

STRUCTURE PHOTOGRAPHS



Photo 1 - Overall Looking West



Photo 2 – Top of Bridge Looking South



Photo 3 – Center Pier



Photo 4 – North Abutment



Photo 5 – Typical Underdeck Layout



Photo 6 – South Abutment and SW Wingwall



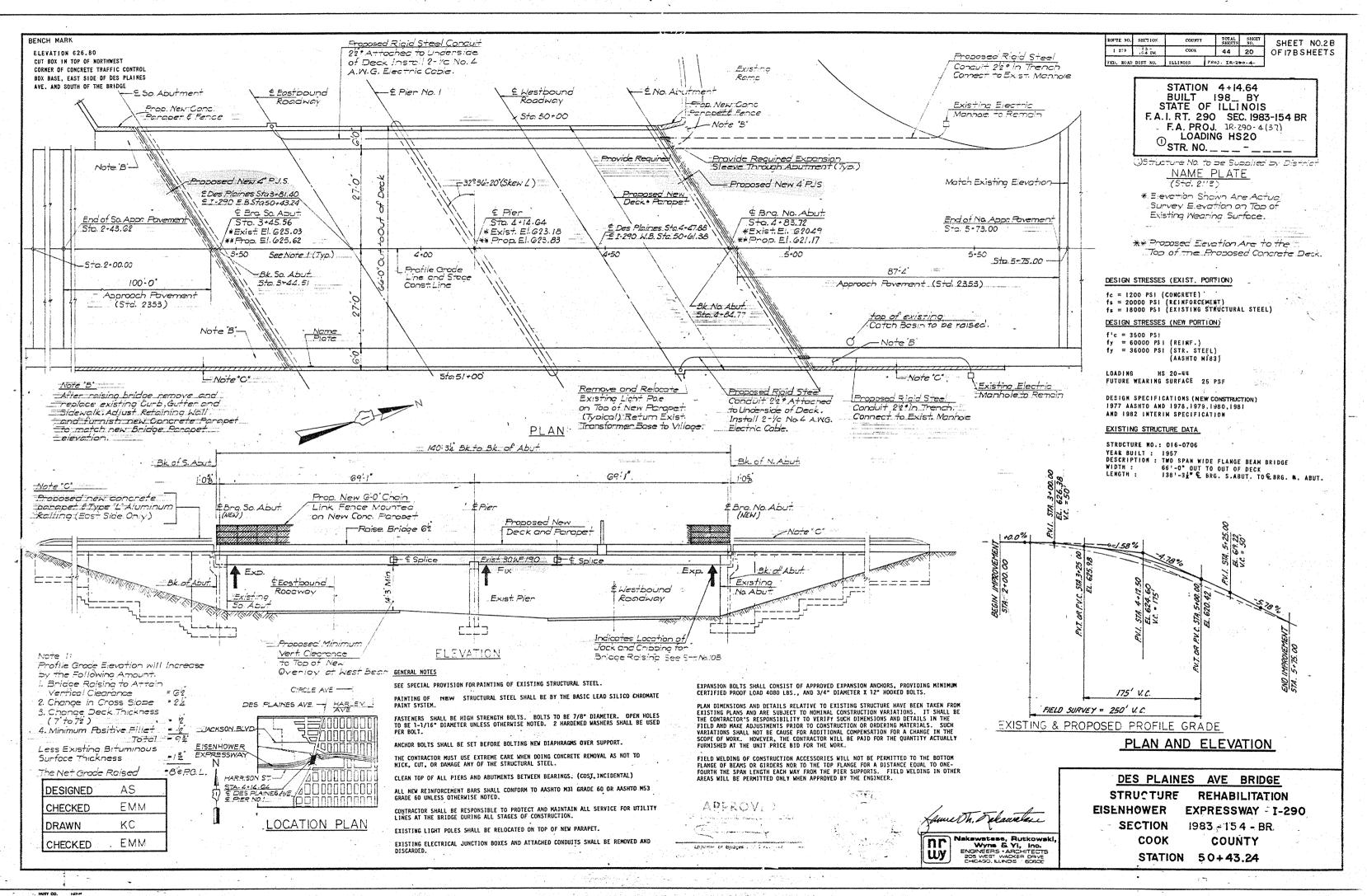
Photo 7 – Abutment Backwall Spalling and Utilities

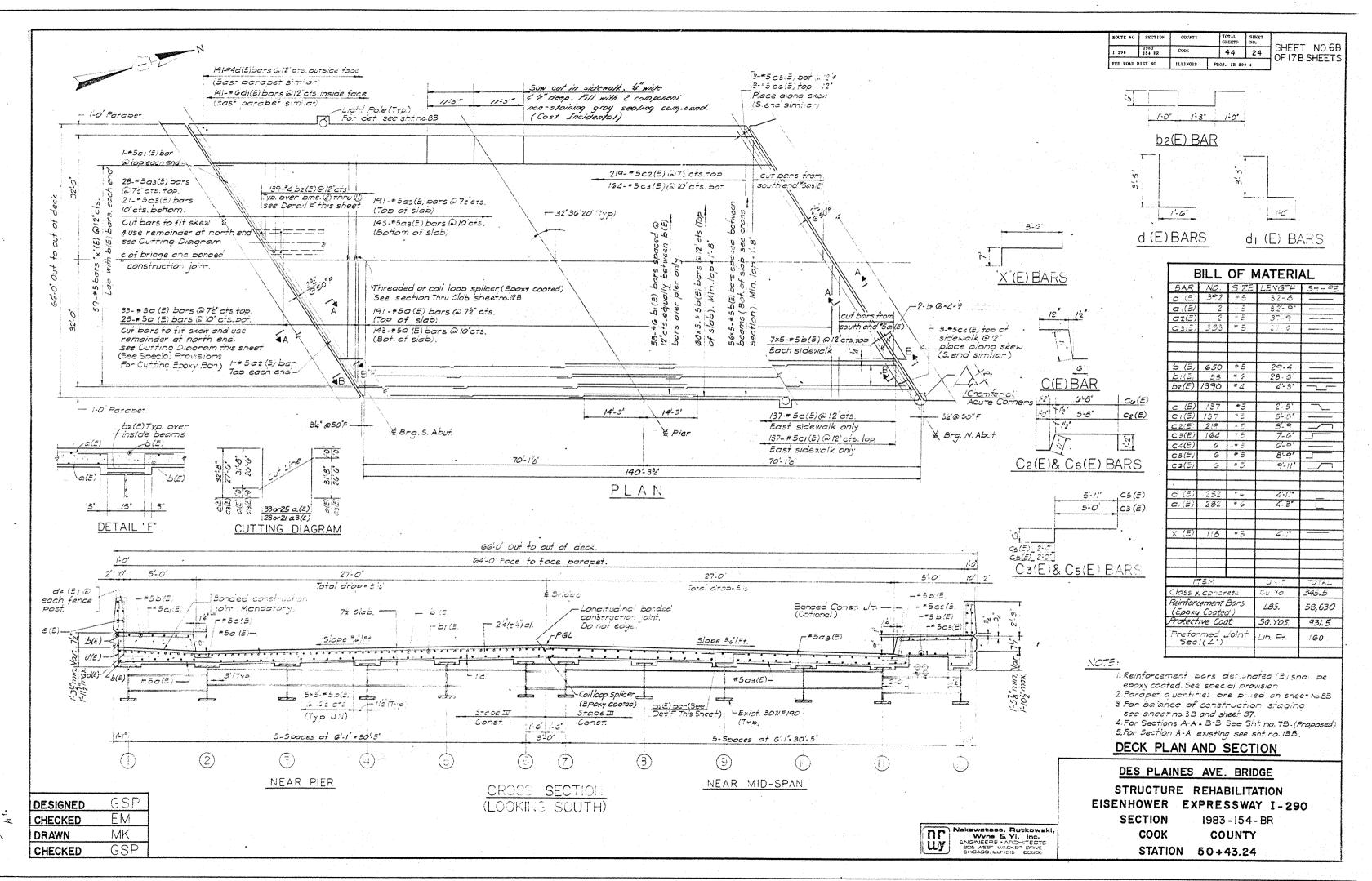


Photo 8 – Bearing Condtion with Utilities

ATTACHMENT E

ABBREVIATED EXISTING PLANS





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ATTACHMENT F

PROPOSED PLAN AND PROFILE

