Abbreviated Bridge Condition Report





For

- REGION / DISTRICT: 1 / 1
 - ROUTE: F.A.P. 360 (Kirk Road)
 - COUNTY: Kane County
- STRUCTURE NUMBER: 045-3096
 - **LOCATION:** *Kirk Road over Union Pacific RR & Reed Road*
 - PREPARED BY: Hampton, Lenzini & Renwick Inc. and Strand Associates, Inc.®
 - DATE INSPECTED: January 16, 2014

PROPOSED LETTING DATE: unknown



Hampton, Lenzini and Renwick, Inc.

Civil Engineers, Structural Engineers & Land Surveyors Springfield, IL 217-546-3400



STRAND ASSOCIATES, INC.[®] IDFPR No. 184-001273 1170 South Houbolt Road Joliet, IL 60431 www.strand.com

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I. Geographical and Administrative Data

Structure Number:	045-3096
County:	Kane
Route Carried:	FAU Route 2 (Kirk Road)
Feature Crossed:	Union Pacific Railroad and Reed Road
Section:	21-000192-04-BR
Station:	13+50.11
Roadway Classification:	Other Principal Arterial
Design/Posted Speed:	
ADT (current/design):	25,900/33,048 (2010/2032)
ADTT (current/design):	1,813/2,313 (7 percent)
DHV:	
Inventory Rating HS:	20.0 (IDOT Master Structure Report)
Operating Rating HS :	27.3 (IDOT Master Structure Report)
Sufficiency Rating:	66.0

Construction / Reconstruction / Repair History:

Year Constructed:	1974–Original construction
Year/s Reconstructed:	1987–Concrete deck overlay
	2003-New joints, drain extensions, and deck, parapet, and
	steel repairs
	2013–Deck repairs

II. <u>Physical Description of Structure</u>

Superstructure Type: Steel girder (I-section)

Substructure Type:

Abutments: reinforced concrete spill through Piers:reinforced concrete multi-column

Length and Width: 1,376'-2" back to back of abutments; 62'-0" out-to-out of deck; 55'-6" roadway width (plus 3'-0" raised concrete median)

Span Arrangement and Lengths: 4-units totaling 18-spans on a curved/tangent alignment with super-elevation transition

Skew: 0°

Existing Wearing Surface Type and Thickness: Concrete wearing surface-3"

Existing Horizontal and Vertical Alignment:

Horizontal–a horizontal curve is present at the north end of the structure Vertical–the bridge sits in a section with a crest and sag vertical curve

Utilities and Attachments Present: One–2" utility pipe is located on the east side of the bridge in the first interior bay of the deck from that end. Two additional utility pipes are located on the west side of the bridge, a 2 1/2" pipe is attached to the outside of the fascia beam and 1 3/4" pipe is suspended from the deck in the first interior bay from that end.

III. Field Inspection and Physical Evaluation

Superstructure:

Deck: The deck was originally constructed in 1974 with a 7.5" thickness. In 1987 the deck had a concrete overlay placed on it. The overlay consisted of milling off the top 2" of concrete and replacing it with 3" of concrete overlay to make for a new total concrete thickness of 8.5". An additional deck patching contract was completed in 2013. The deck is currently in **poor condition** overall.

<u>Top of Deck</u>–The deck overlay is heavily delaminated with map cracking and numerous open cracks present. A few small areas are spalled and numerous locations have concrete and temporary bituminous patches in place. The total top of deck area is approximately 76,260 square feet (sq. ft.) (minus median and parapets). An estimated 17,300 sq. ft., or 22.7 percent of this area is delaminated, spalled or patched. (See the Top of Deck Survey and photos 18 to 26)

<u>Bottom of Deck</u>–The bottom of the deck has numerous areas with cracking, leaching, delaminations and spalls present. There are three longitudinal construction joints in the deck, one in each of the outer bays and one in the center bay. It is estimated the concrete along these joints is delaminated or spalled over an area approximately 1' wide for 35 percent of the length of each of the outer construction joints. The total bottom of deck area is approximately 80,380 sq. ft. (minus the area beneath the parapets). An estimated 5,200 sq. ft., or 6.5 percent minimum of this area is delaminated, spalled or is heavily cracked and leaching. (See the Bottom of Deck Survey and photos 28 to 35)

<u>Parapets and Bridge Lighting</u>—The parapet is a GM type with an aluminum handrail. Large areas of the inside face of the concrete parapet are cracked with delaminations and spalls present. Concrete repairs have been made in many locations to this portion of the parapet in the past; however, many of these repairs are failing. It is estimated approximately 35 percent of the inside face of each parapet is damaged, or 2,400 sq. ft. The deck located beneath the parapets is heavily damaged. It is estimated 50 percent of the length of the east and 30 percent of the west deck area located beneath the parapets is damaged over a width of 1.5'. This is equal to approximately 1,650 sq. ft. (2.1 percent) of additional concrete damage to the bottom of the deck area. (see photos 14 to 17 and 28)

The aluminum handrail anchorage is damaged due to impact on the west side of Span-14.

The parapet mounted light poles are missing or damaged in a number of locations. Light poles are missing on the east side of Span-7 and the west side of Span-14 (see photo 27). There is impact damage to the light poles located on the east side of Span-3, west side of Span-5, west side of Span-10 and the east side of Span-16. The concrete at the base of the light pole on the east side of Span-12 is spalled, causing reduced bearing area.

Joints: The bridge has transverse joints located at the North and South Abutments as well as Piers 3, 8, and 13.

<u>Abutment Transverse Joints</u>–The original joint seals at both abutments have been replaced with silicon joint seals. These seals have failed at both abutments allowing large amounts of runoff from the deck to pass through to the beams and substructure elements located below (see photos 9 and 13).

<u>Pier Transverse Joints</u>—The transverse joints at Piers 3, 8, and 13 are currently modular type joints. They are in satisfactory condition with only minor damage and leakage noted (see photos 10 to 12).

Beams: The bridge girders consist of non-composite weathering steel W36 sections. They are in **satisfactory condition** with only minor problems noted (see photos 28 to 35).

Some beam ends located below the transverse deck joints have suffered minor section loss to the web and bottom flange. These areas were originally unpainted. Minor pitting and section loss occurred on the steel in these areas once the deck joints began to fail and allowed roadway drainage to pass through to the beams. The beam ends and bearings located below the joints were painted in 2003 to prevent further corrosion. This paint is beginning to fail at a few locations. The section loss at these locations is approximately 1/16" at the most (see photos 39 and 40).

Minor corrosion with no significant section loss has also occurred on the bottom flanges at a few locations adjacent to deck drain down spouts that do not extend sufficiently far below the bottom of the beams. The section loss at these locations is approximately 1/16" at the most.

The bridge was rated for its current condition using LFD. The resulting ratings were:

Operating Rating =	1.21, (without FWS allowance)
Inventory Rating =	2.02, (without FWS allowance)

Bearings: All bearings are steel high profile fixed or expansion bearings. They are in good condition overall (see photos 36 to 38). A few bearing locations have loose or missing anchor bolt nuts (see the Bottom of Deck Condition Survey for locations). The paint has failed on a number of bearings at the abutments due to the heavy amount of roadway drainage passing through the failed transverse deck joints located above. This has allowed minor corrosion to start on these bearings. No unusual tilting of the expansion bearings was noted during the inspection.

Substructure:

Abutments: The abutments are reinforced concrete spill through type with parallel wingwalls. They are in **satisfactory condition**. Damage noted to the abutments consisted of tight cracks in the caps and moderate amounts of delaminated and spalled concrete. This damage was primarily noted at the north abutment. It is estimated that approximately 15 sq. ft. of concrete repair is currently required on the abutments (see photos 41 and 42).

Piers: The piers are reinforced concrete multi-column type. They are in **satisfactory condition**. The piers located beneath continuous deck locations exhibit little or no damage. Those located beneath the transverse deck joints, Piers 3, 8, and 13, have large amounts of concrete delaminations and spalls present. It is estimated that approximately 470 sq. ft. of concrete repair is currently required on the piers (see photos 43 to 50).

Slope Protection: Riprap has been placed at each end of the bridge and is in good condition. It covers the area beneath each end span, around the abutment wingwalls and around each first interior pier from each end of the bridge (see photos 5 and 41 to 43).

Inspection History (NBIS Ratings):

Year:	Deck:	Super:	<u>Sub</u> :
2010	5	6	6
2011	4	6	6
2012	4	6	6
2014	4	6	6

Geometric, Horizontal and Vertical Clearances:

The horizontal clear width through this structure matches the urban approach roadway cross section at the south end of the bridge.

This structure crosses a road and a double track rail line. The minimum vertical clearances to these are as follows:

Reed Road = 14.70' UP Rail Line = 22.77'

IV. Potential Scope of Work Determination and Analysis:

The following potential scopes of work were considered for this structure:

Scope of Work-A: Rehabilitation-Deck Repair and Overlay

For this scope of work the existing deck would be repaired and a new microsilica-concrete overlay placed on the deck. The major work items for this scope of work would include:

- Deck scarification using hydro-demolition
- Full depth deck repairs
- Microsilica concrete overlay of the deck
- New transverse deck joints at the abutments
- Concrete repairs to the parapets and raised median
- Lighting repairs
- Replace the existing bearings beneath the transverse deck joints with elastomeric bearings
- Concrete repairs to the substructure
- Deck drain extensions
- Painting the structural steel located beneath the transverse deck joints

This scope of work has an estimated service life of 12 years before major deck repairs are required again. This reduced service life for the overlay is based on the advanced age of the existing deck and estimated high chloride content of the remaining concrete. The estimated cost for this bridge work is \$2,873,000.

Scope of Work-B: Rehabilitation-Deck Replacement

For this scope of work the existing deck would be replaced with a new composite 8" deck. The major work items for this scope of work would include:

- Deck removal and replacement with an 8" composite deck
- Concrete repairs to the substructure
- Replace the existing bearings beneath the transverse deck joints with elastomeric bearings
- Painting the structural steel located beneath the transverse expansion deck joints
- New lighting

This scope of work has an estimated service life of 25 years before deck replacement is potentially required. The estimated cost for this bridge work is \$6,454,000.

The bridge was rated for this proposed condition using LFD. The resulting ratings were:

Operating Rating = 1.15, (with 50 psf FWS allowance)

Inventory Rating = 1.92, (with 50 psf FWS allowance)

Scope of Work-C: Structure Replacement

The scope of work for this option would be to remove the existing structure and replace it with two separate single-span structures. The major work items for this scope would include:

- Two new single-span bridge structures of sufficient width to support an additional lane of traffic in each direction with a widened median and a shared-use path. One structure will be over the Union Pacific Railroad and the other over Reed Road.
- MSE wall to be constructed to "close off" the other existing spans.
- Shared-use path along Kirk Road between Cherry Lane and IL-38.
- New lighting.
- New culvert for White's Creek through the MSE wall.

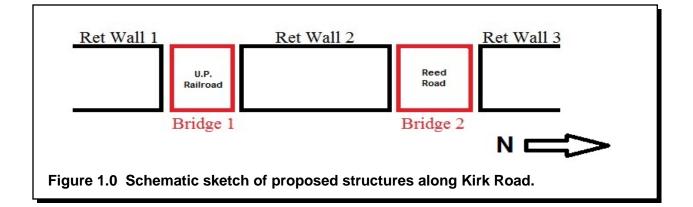
This scope of work has an estimated design life of 75 years. The estimated cost for this bridge work is \$19,500,000.

V. Discussion and Recommended Scope of Work:

Kane County has identified Kirk Road in its Strategic Plan to be widened to three lanes in each direction. Kane County, the Kane County Forest Preserve, and other agencies also expressed the need to connect the shared-use path along Kirk Road between IL 38 and Fabyan Parkway. Since the existing structure would not be able to accommodate the future roadway widening requirements, rehabilitation options were ruled out. Therefore, **Scope of Work-C: Structure Replacement** is recommended as the preferred alternative.

The bridge over the Union Pacific Railroad will span approximately 115' to 125'. The bridge over Reed Road will span approximately 70' to 80'. The clearance over the railroad will be increased to achieve a minimum 23'-0" clearance. The clearance over Reed Road will be increased to 14'-9" minimum, in accordance with the Bureau of Local Roads Manual.

Three mechanically stabilized earth (MSE) retaining walls will be constructed to support new fill. The southernmost wall will be "U" shaped. This wall will parallel Kirk Road and will support the south abutment of the bridge over the railroad. The middle wall will be box shaped. It will parallel Kirk Road between the railroad and Reed Road and will support the north abutment on the railroad bridge and the south abutment of the Reed Road Bridge. The northernmost wall will be "U" shaped and parallel Kirk Road and will support the north abutment of the Reed Road Bridge. A schematic sketch of the bridge and wall layout can be found in Figure 1.0. The wall lengths will be further defined during the TS&L development.

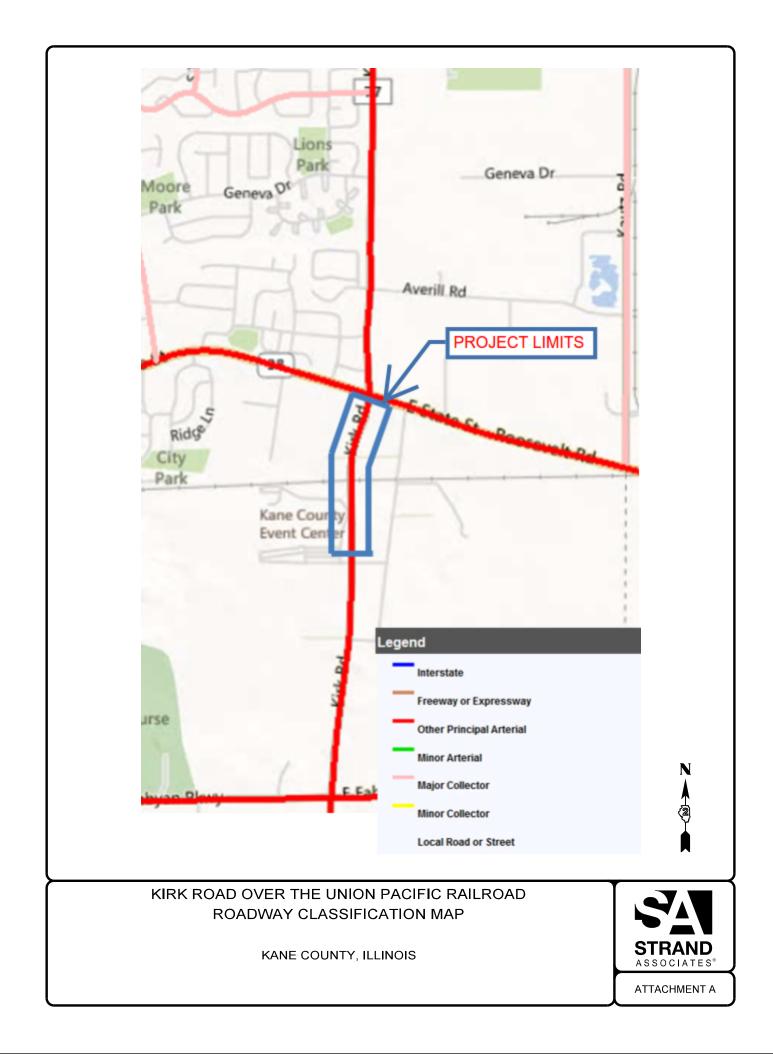


ATTACHMENTS:

- Attachment A. Roadway Classification Map
- Attachment B. IDOT Master Structure Report
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ATTACHMENT A

ROADWAY CLASSIFICATION MAP



ATTACHMENT B

IDOT MASTER STRUCTURE REPORT

87.0 55.5 72.0 99.9 62.0 0.0 0.0 0.00 0.0 0.00 1376.3 0.0 N N/A 0 0 23 Ft 06 In Number % 174987P ***Railroad Crossing Info*** 35.6 Number Culvert Cells: 0 Culvert Opening Area: Navigation Horiz Clear: AASHTO Bridge Length: Navigation Vert Clear: 0 Culvert Cell Height: Bridge Roadway Width 55 Culvert Cell Width: Length of Long Span: Sidewalk Width Right: Appr Roadway Width: Culvert Fill Depth: S Navigation Control: Sidewalk Width Left: Structure Length: **RR Vertical Underclear: RR** Lateral Underclear: Designated Truck Rte: Est Truck Percentage: Deck Width: Curr AADT Yr/Count: Future AADT Yr/Cnt: Inventory Direction: *** Marked Route Under Data *** Number Of Lanes: ш Natl. Hwy System: Crossing 1 Nbr: Crossing 1 Nbr: One Or Two Way: Special Systems: Bypass Length: Kind Key Route Under Data Rate Method: Segment: Station: Linked: 66.0 Yes None 07/05/2012 å Ŷ None 0 W Bdr State % Responsibility: (36) Load Rating Date: 01/01/1900 Multi-Level Structure Nbr: Substructure Material: 0 Border Bridge State: Structural Steel Wt: Historical Significance: Sufficiency Rating: Parallel Structure: Last Update Date: Bdr State SN: Structure Flared: Ħ Skew Direction: Skew Angle: North/West HBP Eligible: Replaced By: Designation Replaces: FO: N 乱乱 N N/A 5 Ē ť SD: Y South/East Rated By: (49) ť ť 1.000 1.365 7.5 Inventory Data 02 STRINGER/MULTI-BEAM/GIRDER Design Load: 02 HS20 33048 25900 Two-Way Number **Operating Rating:** nventory Rating: **1 MI E GENEVA** Deck Structure Thickness: % 9 On NHS 2010 / 2032 / NONE 4 9 Yes 04/1988 RAILROAD GENEVA Designated Truck Rte: Est Truck Percentage: 19.0800 \succ Curr AADT Yr/Count: Future AADT Yr/Cnt: Inventory Direction: Number Of Lanes: Natl. Hwy System: Bridge Name: One Or Two Way: Special Systems: Bypass Length: 2 Location: StatusDate: Segment: Kind 60 0360 Station: *** Marked Route On Data *** Linked: Maint Township: Key Route On Data Other -0 0 None CIP CON NRMLLY FORM 88.00000000 **District:** ω 18 Nbr Of Approach Spans: **OPEN - NO RESTRICT** STEEL CONTINUOUS 00 Ft 00 In 99 Ft 11 In 00 Ft 00 In North/West JNION PACIFIC R.R. 0.0 00000 0 None Curb Key Route Nbr: FEDERAL-AID PRIMARY 42.00000000 Longitude: Designation COUNTY HIGHWAY Structure Number: 045-3096 COUNTY KIRK ROAD GENEVA Ft. / 3 045 KANE No Toll None 045 KANE 99 Ft 11 In ** CLEARANCES ** South/East 4 Sidewalks Under Structure: Appurtenances Main Route 60.09 4 0.0 03 Mainline Mainline Mainline **Fownship/Road Dist** 09 0000 1051 Toll Facility Indicator: Deck Structure Type: Main Span Matl/Type: Maint Responsibility: Functional Class: 3 Nbr Of Main Spans: Median Width/Type: Guardrail Type L/R: Reporting Agency: Near #1 Matl/Type: Near #2 Matl/Type: Service On/Under: Inventory County: Max Rdwy Width: ***Approaches*** Far #2 Matl/Type: Far #1 Matl/Type: Feature Crossed: Bridge Remarks: Status Remarks: Facility Carried: Bridge Status: Maint County: 10 Ft Vertical: Municipality **Win Vertical:** Urban Area: Route #3: Horizontal: Route #1: Route #2: _atitude: _ateral:

Date: 4/3/2014

Page

Structures Information Management System

Master Structure Report (S-107)

Illinois Department of Transportation

					Illinois Depart Structures Inform Master Stru	Illinois Department of Transportation Structures Information Management System Master Structure Report (S-107)	iion System)	Date: 4/3/2014 Page 2
Structure Number:	Imber:	045-3096	9	District:			-45	
					Data Related to Ins	Data Related to Inspection Information		
Routine NBIS:	***Inspect		ntervals *** Underwater:	0 MOS	One Truck At A Ti	*** Maximum Allowable Posting Limits *** me: 0 Combination Type 3S-1:	-1: Tons	Bridge Posting Level: 5 No Posting Required
Fracture Critical:		0 MOS Special:	sial:	z	Single Unit Vel	s Combination Type 3S-2:		
Inspection Date:	Date:	0	05/17/2012		Inspection Temperature: 64 Den F	raisai intormation Insn hv (Name)		** Actual Dacted I imite **
Deck:		4	POOR C	- NOITIONO:	IORAT	Insp by (Name):	11	Single Unit Vehicles
Superstructure:		9	SATISF/	ACTORY CC	SATISFACTORY CONDITION - MINOR DETERIORATION	Utilities Attached:	9 ELECTRIC	
Substructure:		9	SATISF/	ACTORY CC	SATISFACTORY CONDITION - MINOR DETERIORATION	11	N N/A	
Culvert:			NOT API	NOT APPLICABLE				0
Channel and Protection:	rotection:		NOT AP	NOT APPLICABLE		Deck Wearing Surf:		Last Paint Type:
Structural Evaluation:	uation:	9	EQUAL	TO PRESEN	EQUAL TO PRESENT MINIMUM CRITERIA	Deck Membrane:	FNONE	
Deck Geometry:	Ľ		BETTER	THAN ADE	BETTER THAN ADEQUATE TO BE LEFT IN PLACE	Deck Protection:	J NONE	
Underclearance-Vert/Lat.:	e-Vert/Lat		SUPERI	OR TO PRE	SUPERIOR TO PRESENT DESIRABLE CRITERIA	Total Deck Thick:	7.5	
Waterway Adequacy:	quacy:		NOT API	NOT APPLICABLE		Last Paint Date:	1	
Approach Roadway Align:	way Aligi		EQUAL	TO PRESEN	EQUAL TO PRESENT DESIRABLE CRITERIA	Inspection Remarks:		
Bridge Railing Appraisal:	Appraisal		Doesn't I	Doesn't Meet Standards	ards	OVERLAY HEAVILY M	AP CRACKED WITH NUMERO	OVERLAY HEAVILY MAP CRACKED WITH NUMEROUS OPEN CRACKS. APPROX. 22.5% OF
Approach Guardrail:	drail:	333	Acceptable		Acceptable Acceptable	DECK SU RFACE IS D	DECK SU RFACE IS DELAMINATED. MANY AREAS WITH CRACKS, LEACHING,	WITH CRACKS, LEACHING,
Pier Navig Protection:	tection:	z	N/A					
					Underwater Inspection	erwater Inspection/Appraisal Information	tion	and the second se
Inspection Date:	ä							
lemperature:			Inspect	Inspection Method:				
Inspected By:			Inspected By:	ted By:	Appraisal Rating:	•		
Inspection Remarks:	narks:							
				Sco	Scour Critical Information			Miscellaneous
Rating:					Evaluation Method:		Fra	Fracture Critical Members: No
Analysis Date:					Analysis By:		Mic	Microfilm Data Recorded: No
			Constru	Construction Information	ormation			
Year: Route:	1974 (FAS1100	Original	Cto. 13460 11	3150 11	Reconstructed			
Section Nbr:	192-3VB		0.04		014:			
Contract Nbr:								
Built By:		COUNTY AGENCY	CY					
						Proposed Improvement	and the second se	
	Cos	Cost Estimate Year:	Year:		Length:		*	*** Costs in Dollars ***
	đĂ1	Type of Work:					Bridge Cost:	ost:
	Dou	Domarks:					Roadway Cost:	/ Cost:
		.eu 191	_				I OTAI PTC	l otal Project Cost:

ATTACHMENT C

BRIDGE INSPECTION REPORT

Illinois Department of Transportation

Routine Inspection Report

SN: 045-3096	District	:1	Spans: 18	Appr. Spa	ns:	Skew: 90	ADT: 26,000	Truck Pct: 7		
ADT Un:	TUn: Maint. Co: Kane Tws		Twsp: Gei	sp: Geneva			Status:			
Facility Carried: Kirk	Facility Carried: Kirk Road, FAU Rt. 2 Feature Crossed: UP RR & Reeds Rd.									
Location: 0.2 MI S of	Location: 0.2 MI S of IL-38 Municipality: Team/Sub Section: /									
Bridge Name:	Bridge Name: Material & Type: 4 / 2									
Insp. Intervals Routine: Fracture Critical: Underwater: Special:										
90- Inspection Date: 01 / 16 / 2014 90C- Temp. (°F): 35 90A- Program Manager: Mike Zakosek										
Is Delinquent: Reason:										
90A1- Team Leader: Mike Cima 90A2- Inspector: Ted Alleni										
	90B– Inspection Remarks:									
Source and the second s										
Resources										
Time to Inspect (H:M):	_: 7	:0 T	raffic Control:	YY	Boat:	Wader	s: Snoope	r: YY		
Ladder: _ Mar	nlift: _	Buck	et Truck:	Other						
Inspector's Appraisals										
58 – Deck Condition:		vew 4 E	Retween 10-24	5% of the d	eck surfs	Comments	me/spalls			
58 – Deck Condition: 4 4 Between 10-25% of the deck surface has delams/spalls present.										
59 – Superstructure Cond: 6 Steel girders have minor section loss in non-critical areas										
60 – Substructure Cond: 6 6 Moderate levels of delams/spalls present on Piers 3, 8 & 13										
60 – Substructure Cond: 6 Moderate levels of delams/spalls present on Piers 3, 8 & 13										
62 – Culvert Condition	n: <u>N</u>	N	3	Berger and Berger						
61 – Channel Conditio	N N	N		121 X	#G					
	on: <u>N</u>						u se estado de la composición de la composicinde la composición de la composición de la composición de			
74 10/-4 4 -4		NI								
71 – Waterway Adequ	acy: <u>N</u>	N								
72 – Approach Rdwy /	Align: <u>8</u>	8								
111 – Pier Navig Protec	ction: <u>N</u>	N						-		
			90B – In	spection F	Remarks	:				
The transverse joint sea	als at both at	outmei	nts have failed	d. The top o	of deck is	heavily				
delaminated & cracked	with a large	numbe	er of patchs p	resent. The	bottom	of the deck I	has			
numerous spalls and de	elaminations	prese	nt. The steel t	peams have	e minor s	ection loss				
near the transverse deck joints in non-criritcal areas. The piers located beneath the										

Routine Inspection Report

Structure Number: 045-3096															
Additional Inspection Data															
36A – Bridge Railing Adequacy: <u>2</u> 2 Rail Types: <u>GM Concrete</u>					e Para	pet w	/alum		n railing		Prev	New			
Approach Guardr	ail Adequacy: 36	6B – T	ransi	tions:	<u>3</u> 3	36C -	- Guard	drail:	3	3	36D	– Ends:	3	3	
		Prev Ne	ew				Pre	v New		_				Prev	New
108A – Wearing Surfa	асе Туре:	<u>F</u> F	108	8В – Тур	be of M	lembrane	e: <u>F</u>	F	108	C – [Deck Pr	otection	:	ī	J
108D – Total Deck Thickness (In.): <u>7.5</u> 7.5															
Sev New 59A - Paint Date (Mo/Yr): 01 / 2003 01 / 2003 59B - Paint Type:							; Inte	er. –	;Raili	ng –					
59C – Utilities Attached: 9 N N															
	para 100 200 city an and						Prev	<u> </u>	lew						
	70A2 – Single l	Jnit V	ehicle	s:					Tons						
Weight Limit Posting:	70B2 – Combination Type 3S-1 (3 or 4 axles):					_		Tons							
	70C2 – Combin	ation	Туре	3S-2 (5	or mo	ore axles)	:		Tons						
	70D2 – One Tru	uck at	a Tim	ie:			_								

Joint Openings (In.):__

90B - Inspection Remarks Continued:

transverse deck joints have numerous spalls and delams present. The piers not located

below joints show little damage. The bridge approach slab at the north end has large

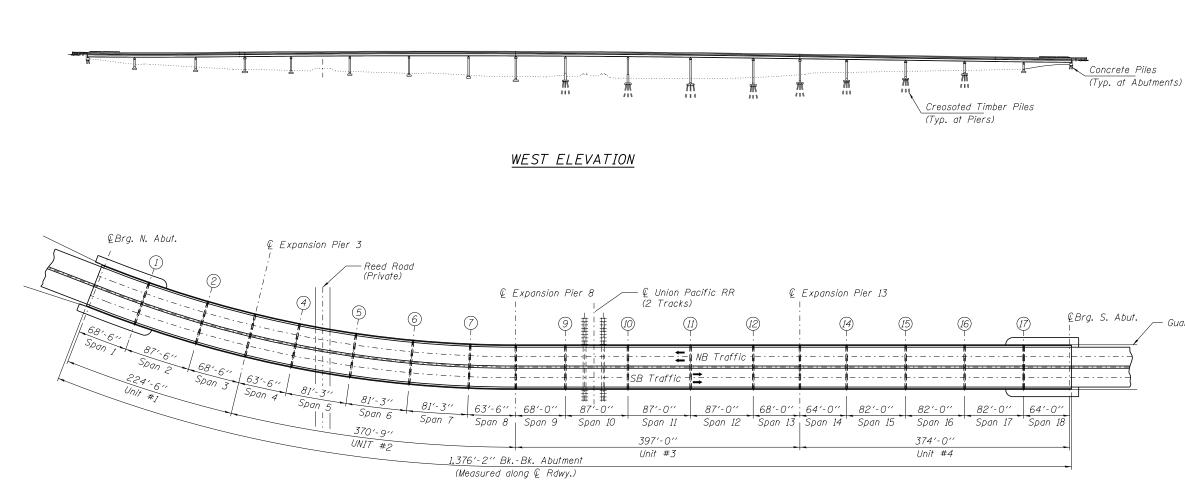
open transverse cracks present. See the Bridge Inspection Narrative report for addition

details.

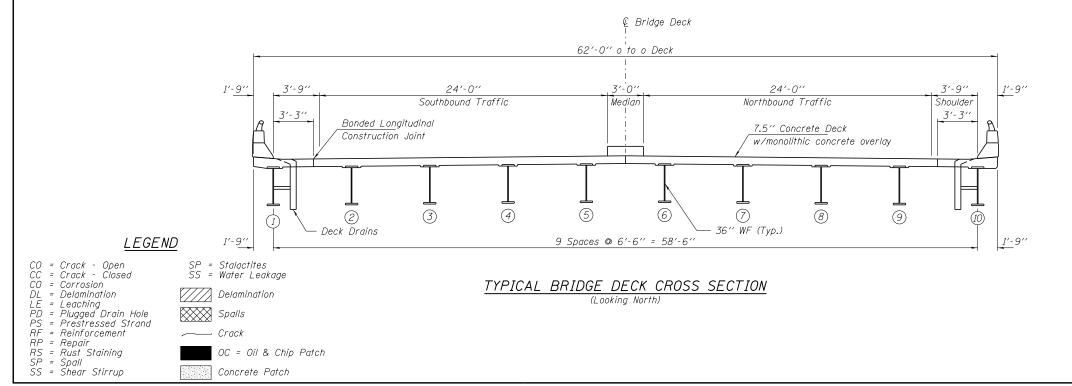
	Signature	Date
Inspection Team Leader:	Michael D. Cara	2 / 3 / 2014
Consultant Program Manager:		1 1
Agency Program Manager:		1 1

ATTACHMENT D

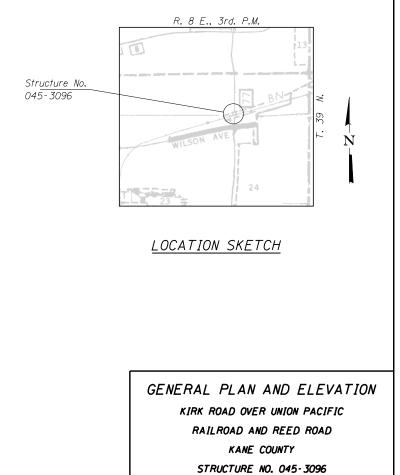
TOP AND BOTTOM OF DECK CONDITION SURVEYS

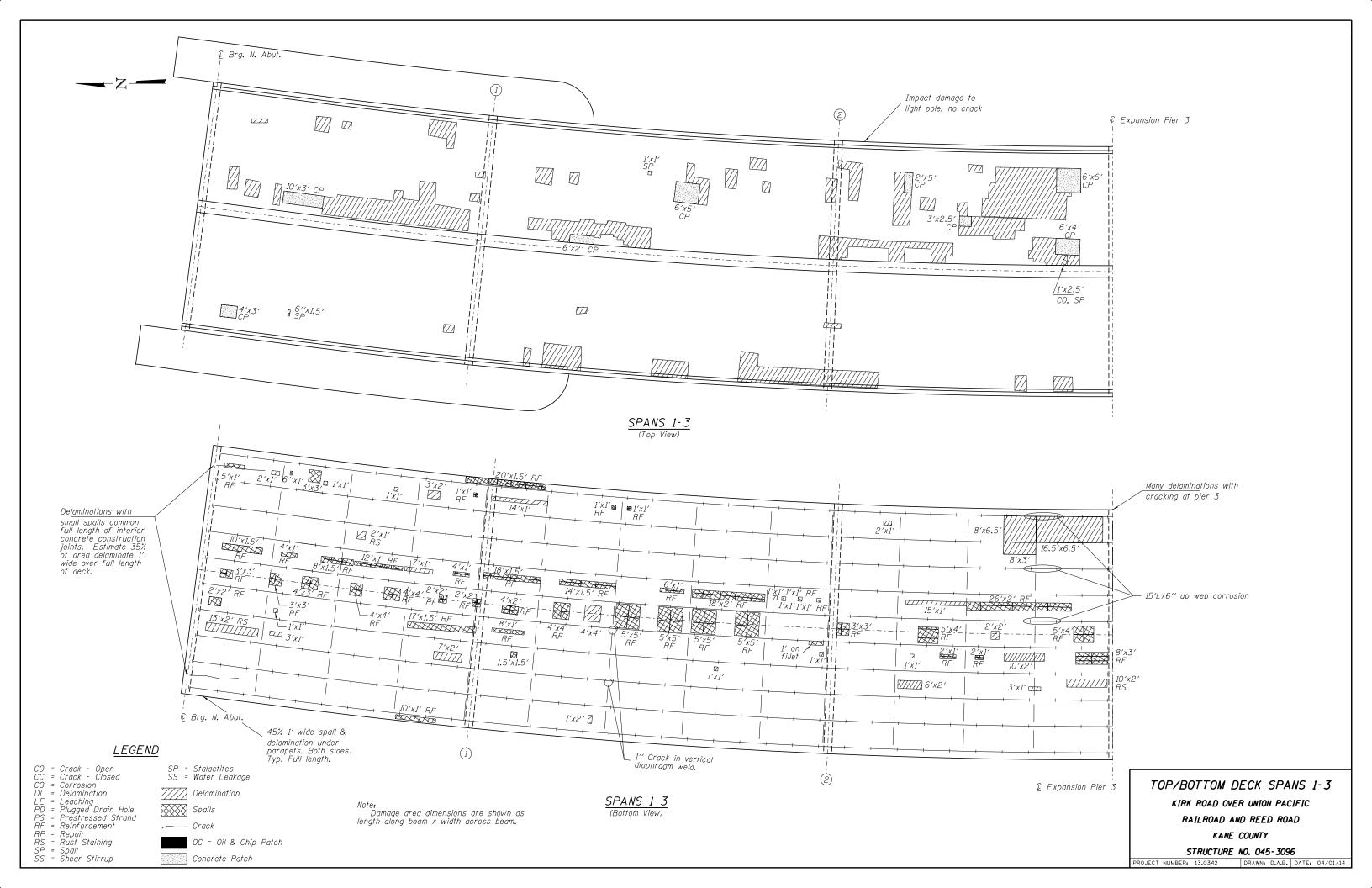


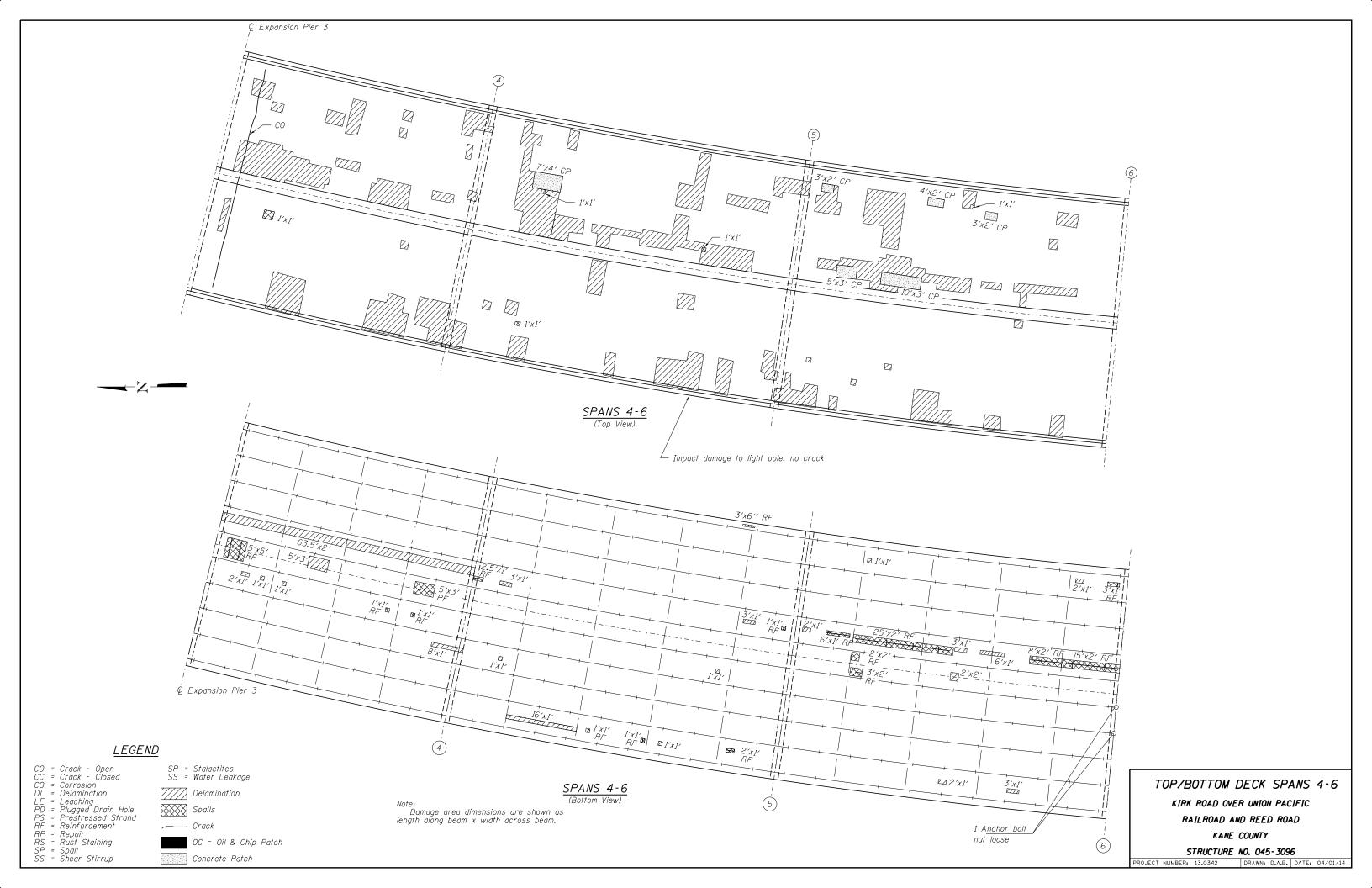


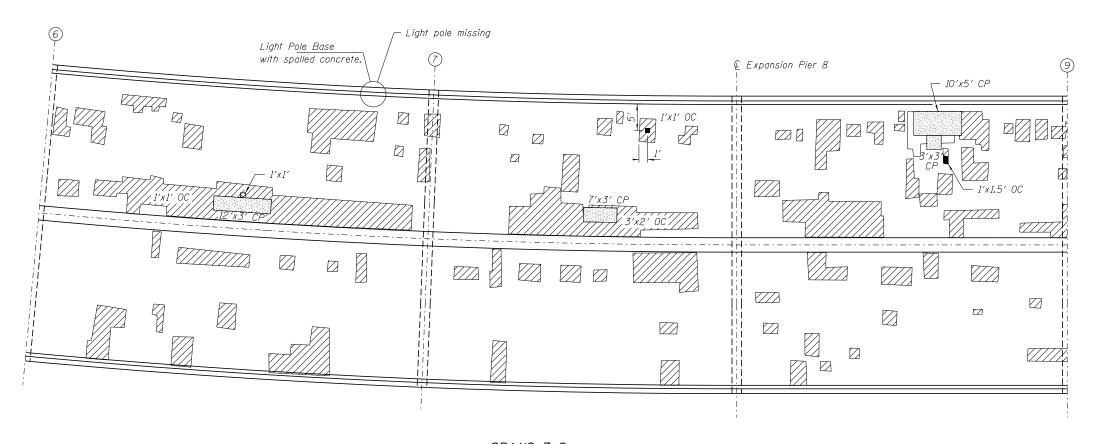


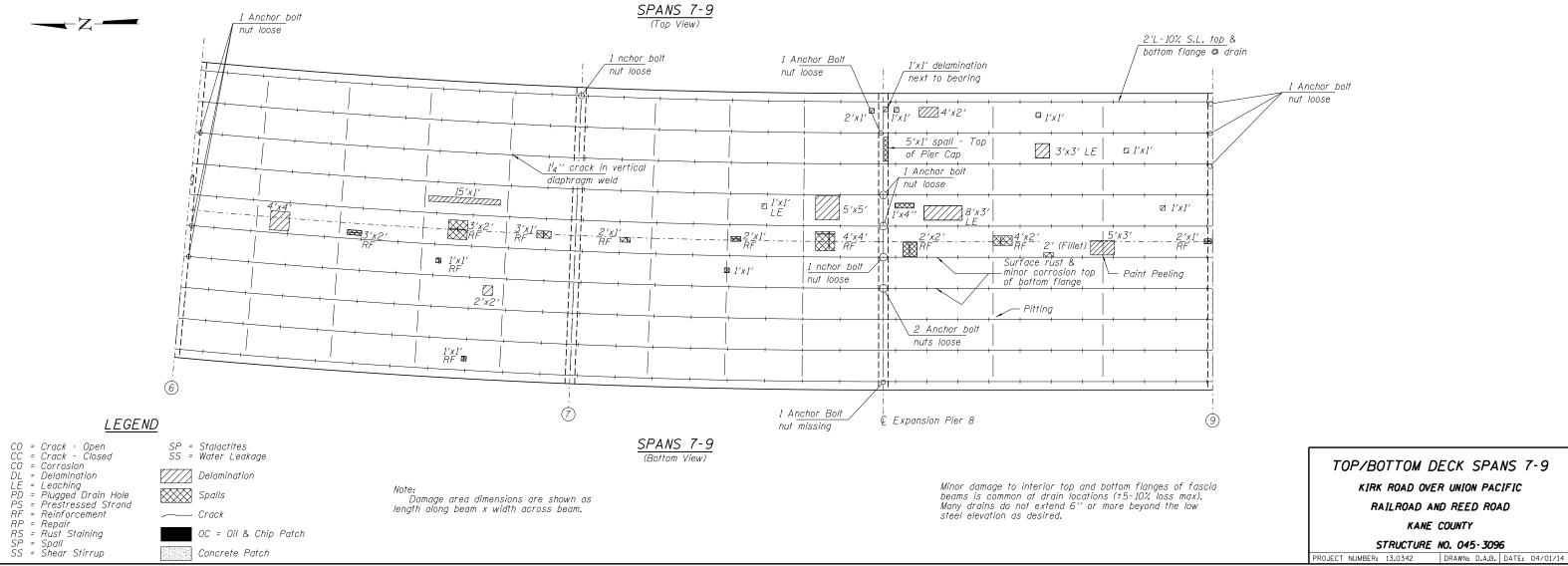
— Guardrail (Typ.)

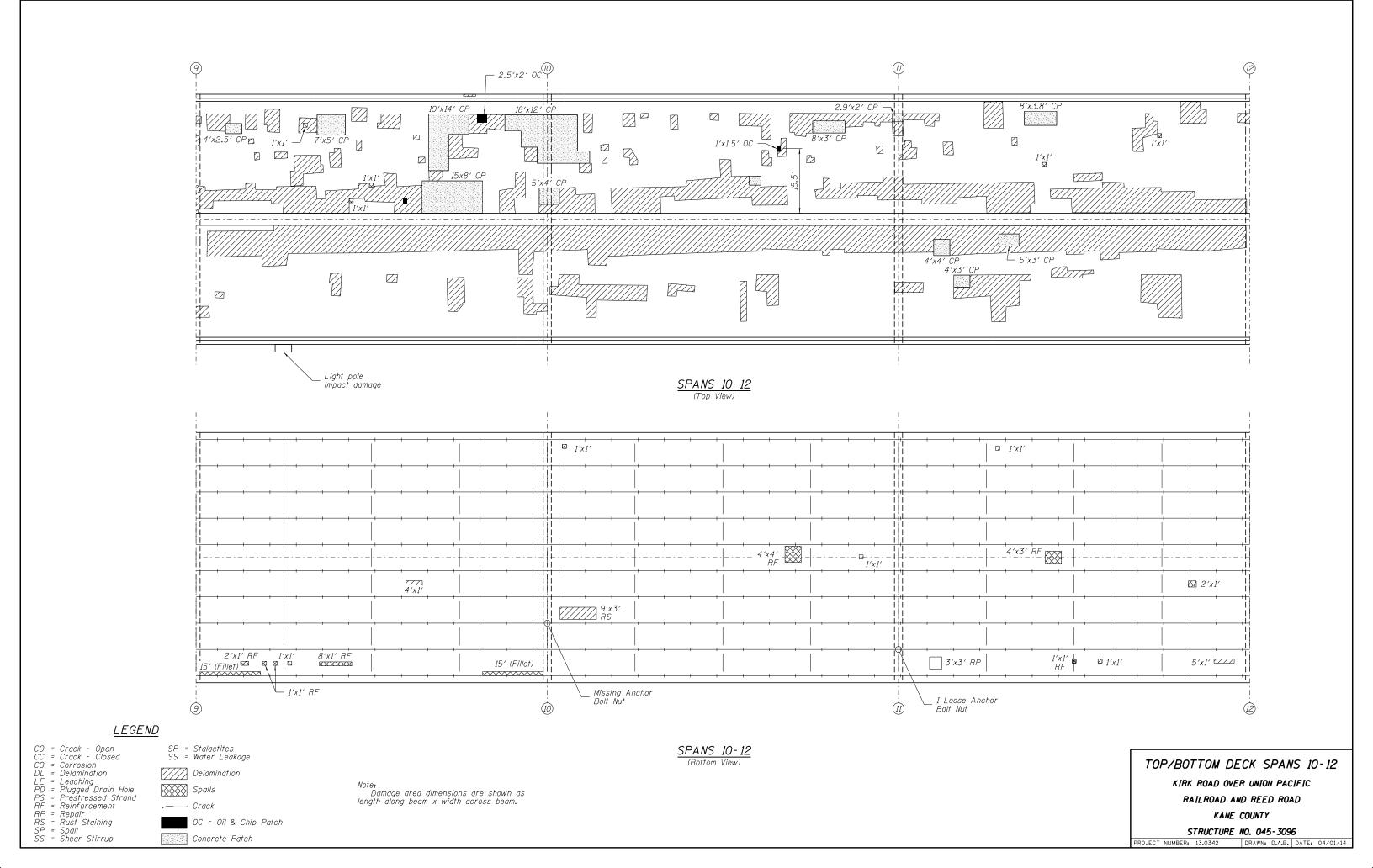


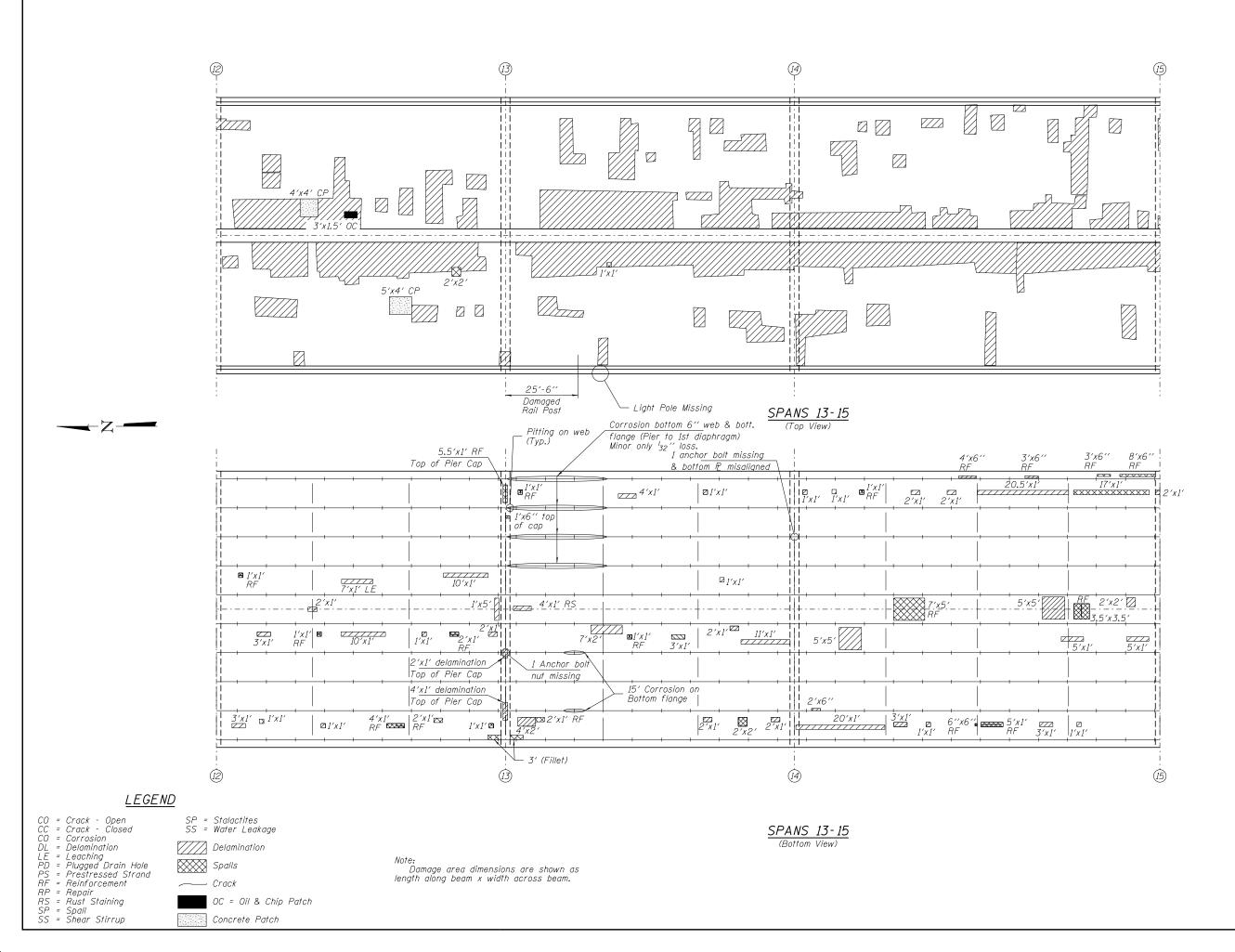


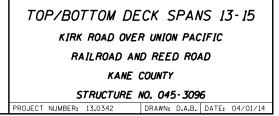


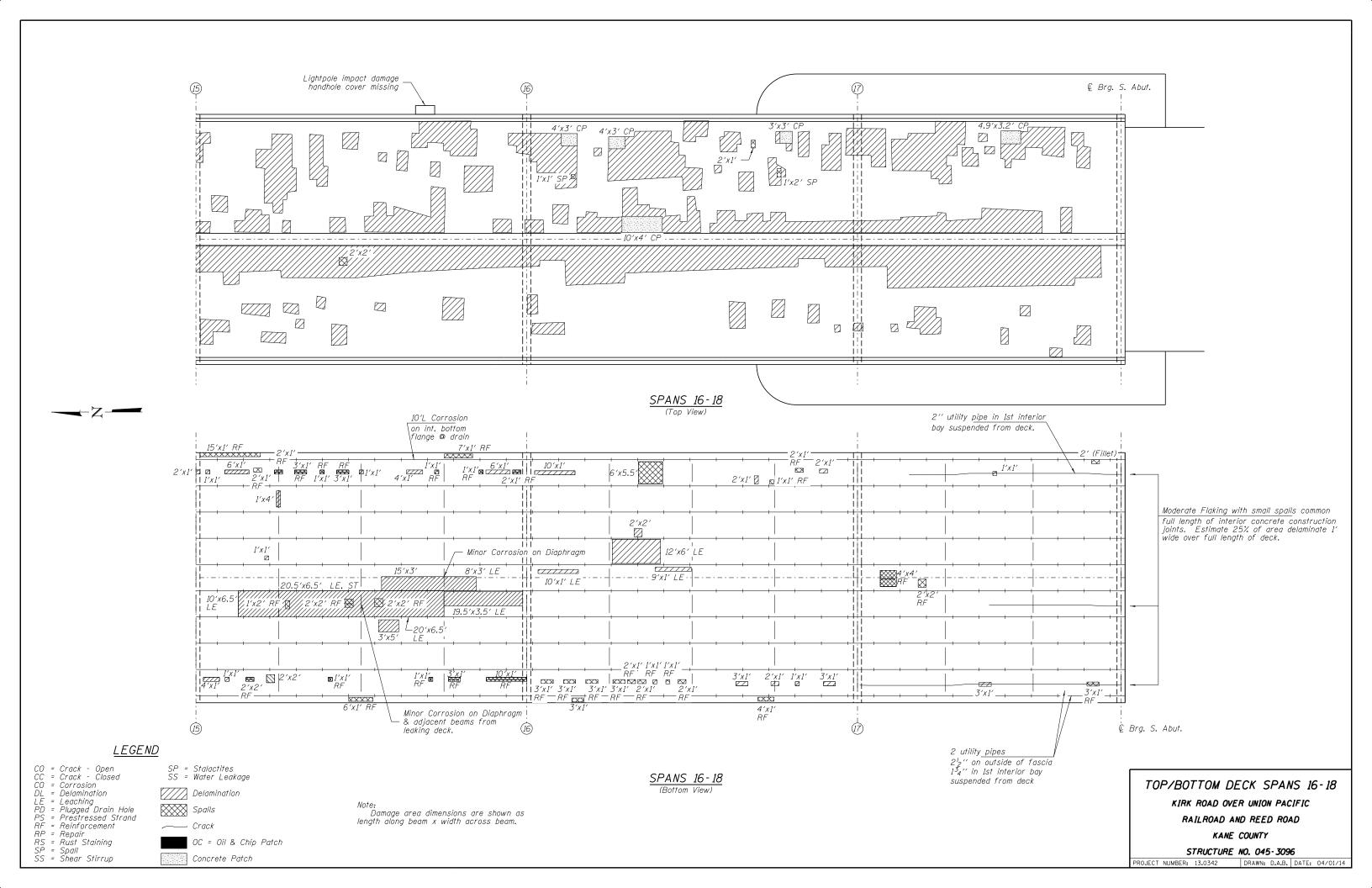






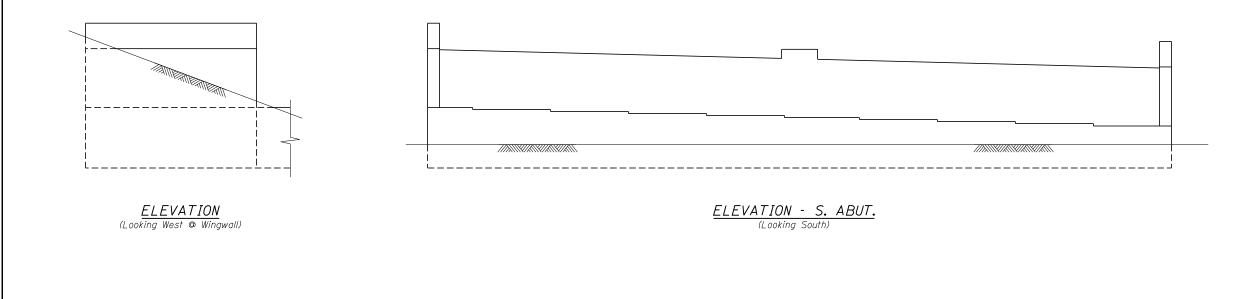


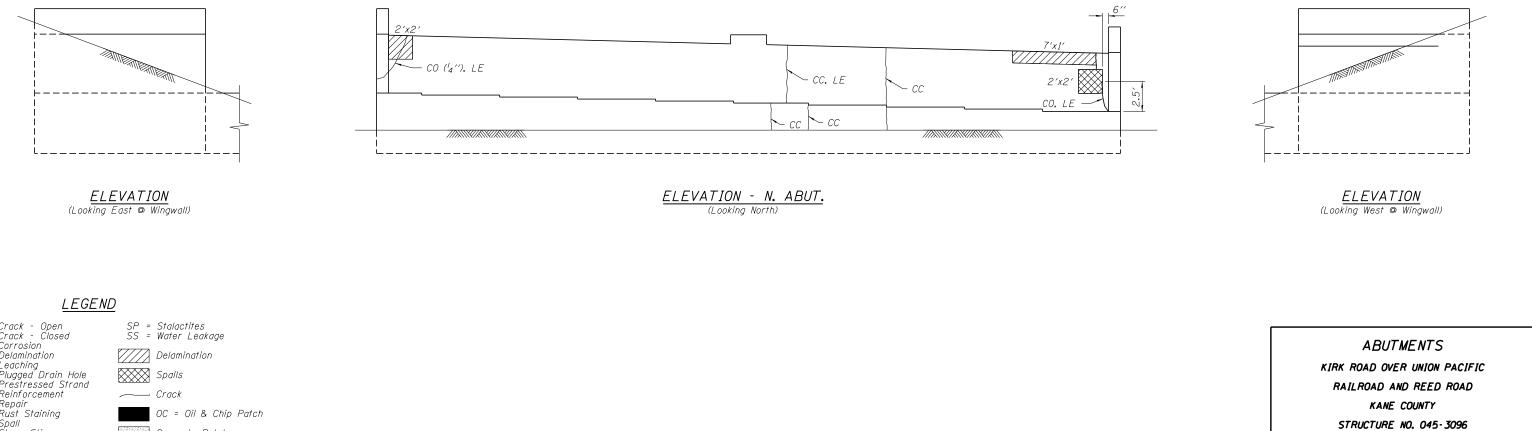




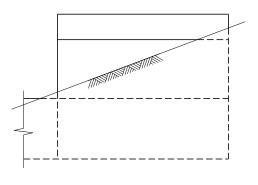
ATTACHMENT E

SUBSTRUCTURE CONDITION SURVEYS

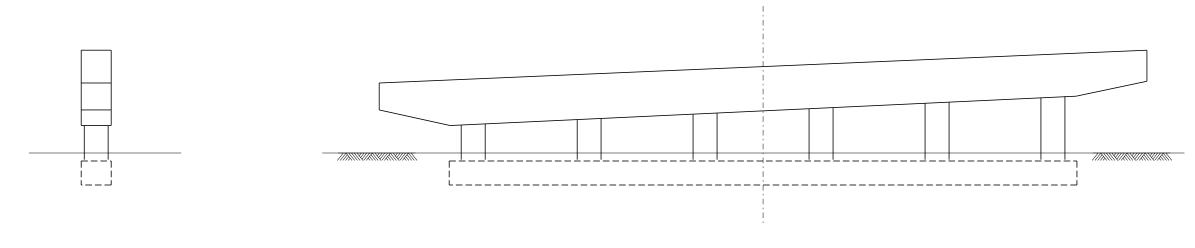




C0 = Crack - Open CC = Crack - Closed C0 = Corrosion DL = Delamination LE = Leaching PD = Plugged Drain Hole PS = Prestressed Strand RF = Reinforcement RP = Repair RS = Rust Staining SP = Spall SS = Shear Stirrup OC = Oil & Chip Patch Concrete Patch

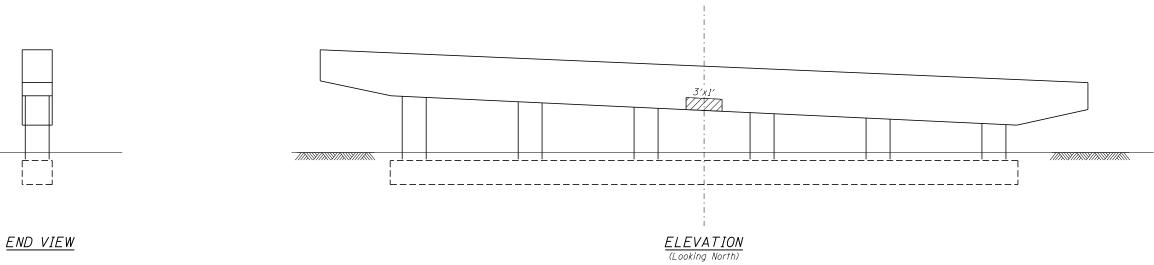


ELEVATION (Looking East @ Wingwall)







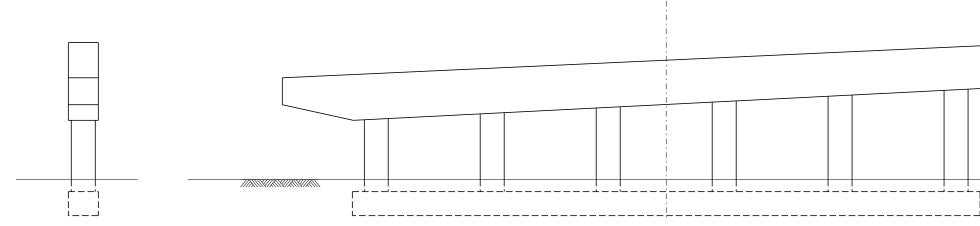


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<u>LEGEND</u> CO = Crack - Open CC = Crack - Closed CO = Corrosion DL = Delamination SP = Stalactites SS = Water Leakage Delamination

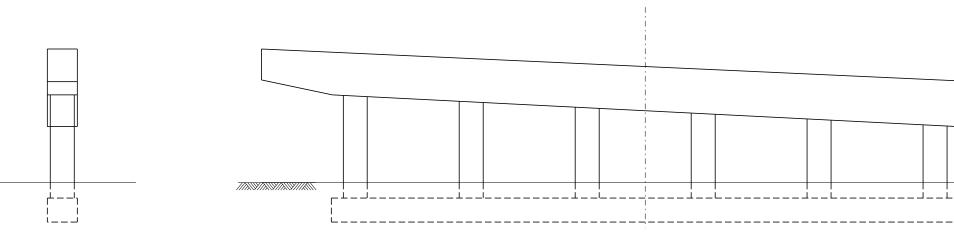
LE = Leaching	
PD = Plugged Drain Hole	Spalls
PS = Prestressed Strand	
RF = Reinforcement	Crack
RP = Repair	
RS = Rust Staining	OC = Oil & Chip Patch
SP = Spall	
SS = Shear Stirrup	Concrete Patch
	5285255255

PIER 1 KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096



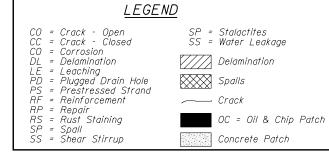
END VIEW

ELEVATION (Looking South)

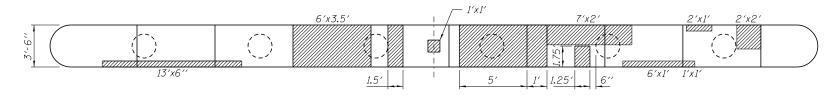


END VIEW

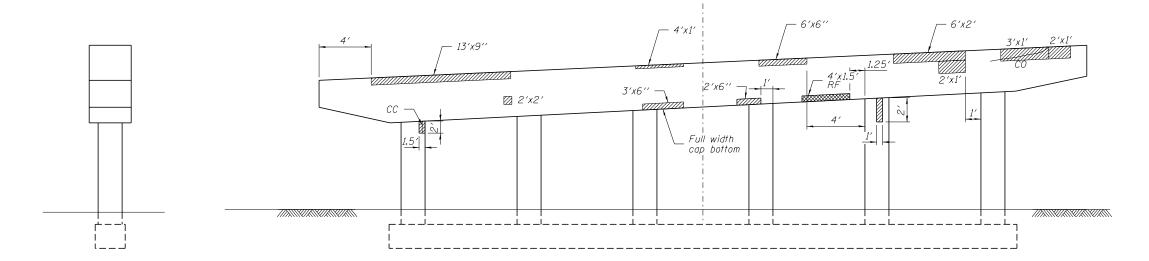
ELEVATION (Looking North)



PIER 2 KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096

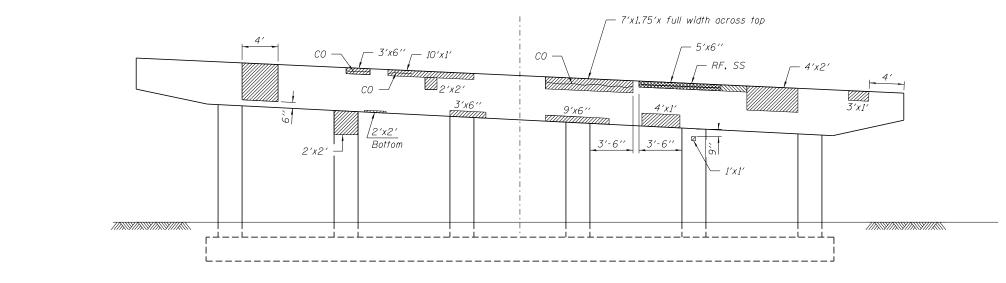


<u>top plan</u>



<u>end view</u>

ELEVATION



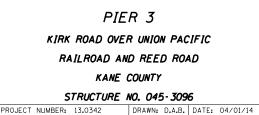
<u>end view</u>

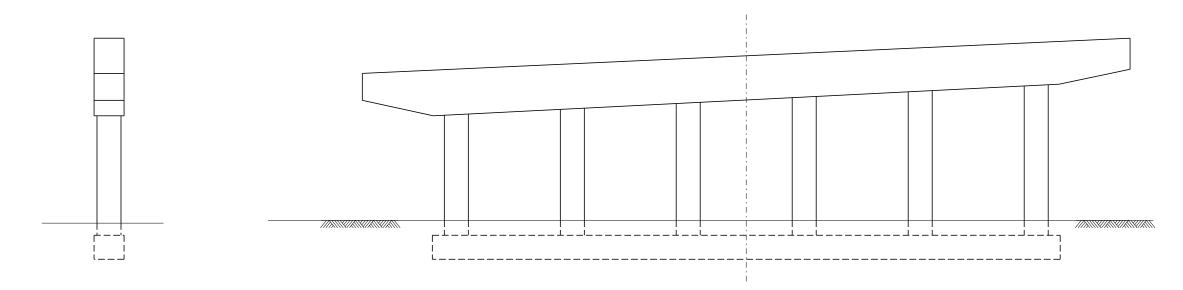
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<u>LEGEND</u>

CO = Crack - Open CC = Crack - Closed	SP = Stalactites SS = Water Leakage
CO = Corrosion DL = Delamination LE = Leaching	Delamination
PD = Plugged Drain Hole PS = Prestressed Strand	Spalls
RF = Reinforcement RP = Repair	Crack
RS = Rust Staining SP = Spall	OC = Oil & Chip Patch
SS = Shear Stirrup	Concrete Patch

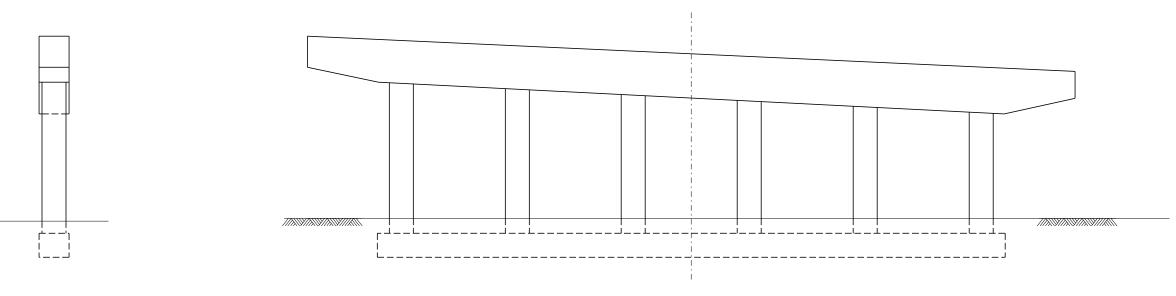
ELEVATION (Looking North)





<u>END VIEW</u>

ELEVATION (Looking South)

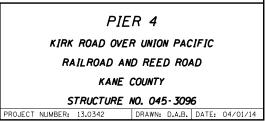


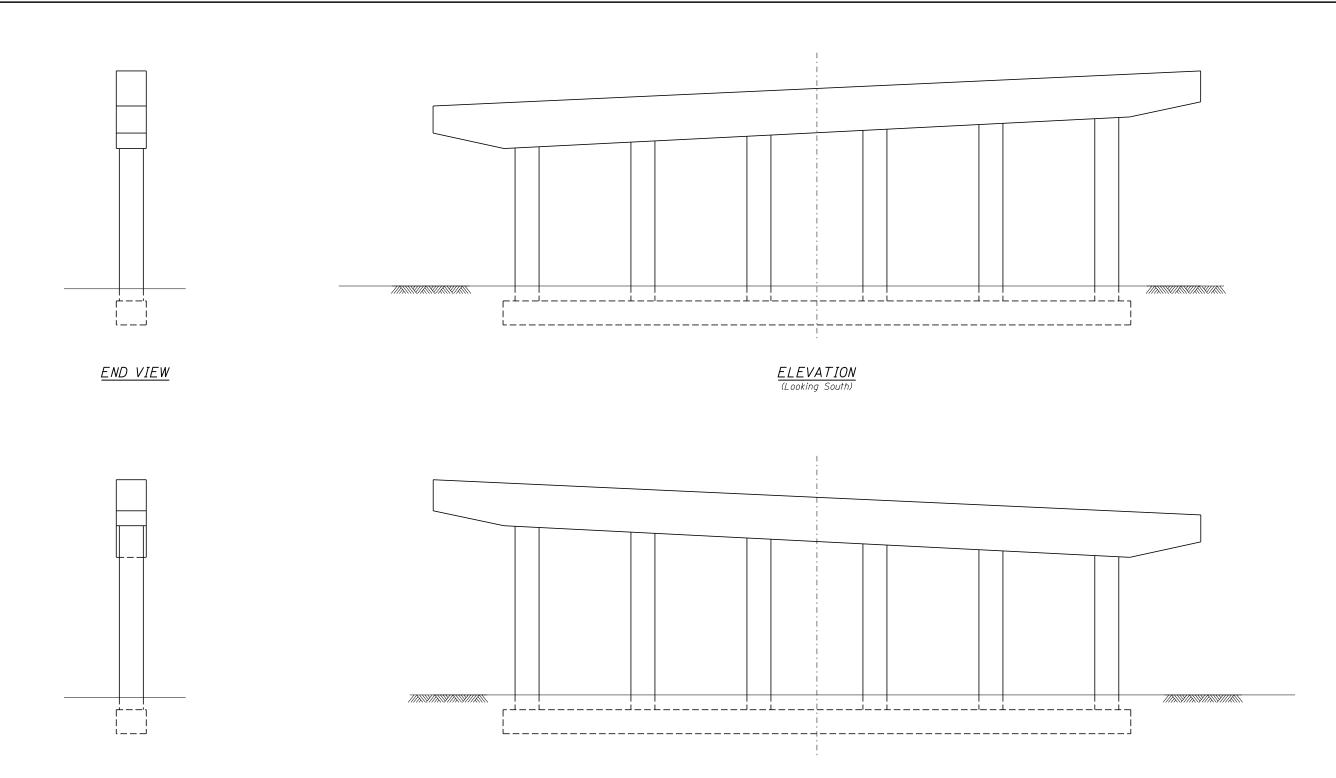
<u>END VIEW</u>



<u>legend</u>

CO = Crack - Open CC = Crack - Closed	SP = Stalactites SS = Water Leakage
CO = Corrosion DL = Delamination LE = Leaching	Delamination
PD = Plugged Drain Hole PS = Prestressed Strand	Spalls
RF = Reinforcement RP = Repair	Crack
RS = Rust Staining	OC = Oil & Chip Patch
SP = Spall SS = Shear Stirrup	Concrete Patch



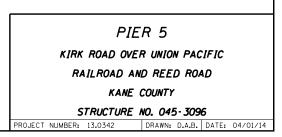


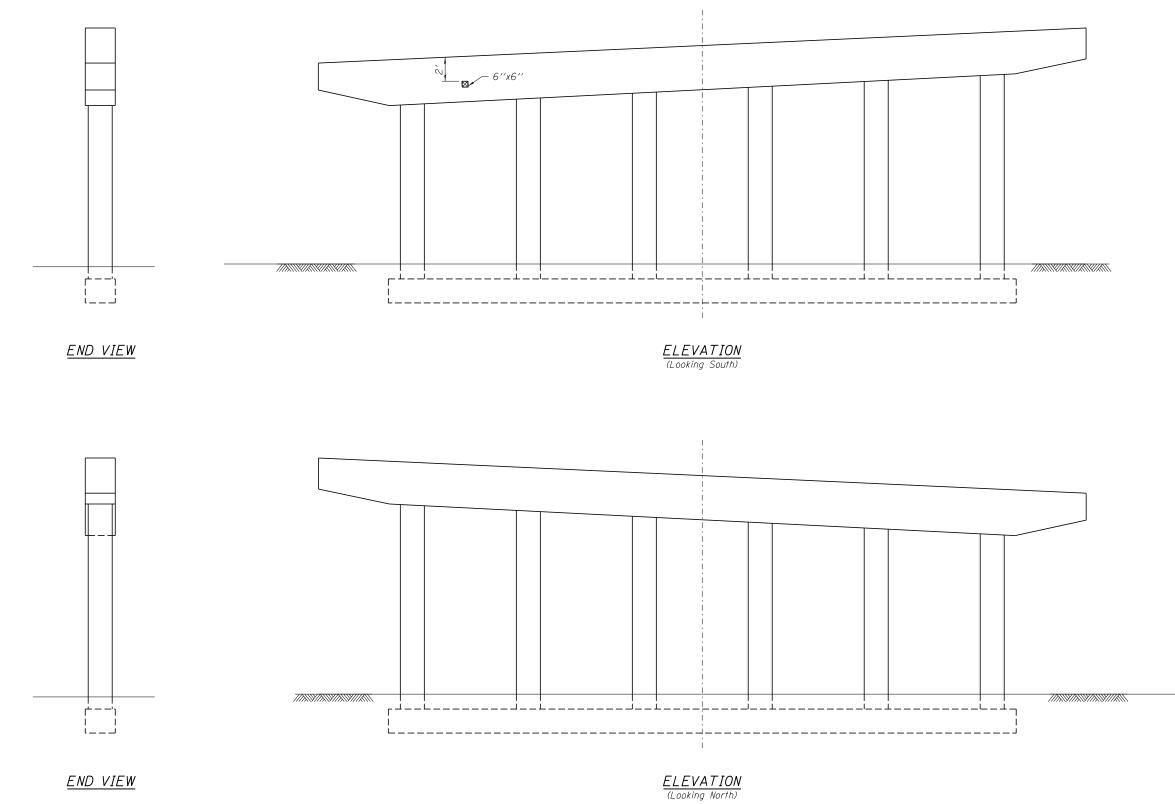
<u>end view</u>



<u>LEGEND</u>

CO = Crack - Open CC = Crack - Closed	SP = Stalactites SS = Water Leakage
CO = Corrosion DL = Delamination LE = Leaching	Delamination
PD = Plugged Drain Hole PS = Prestressed Strand	Spalls
RF = Reinforcement RP = Repair	Crack
RS = Rust Staining SP = Spall	OC = Oil & Chip Patch
SS = Shear Stirrup	Concrete Patch

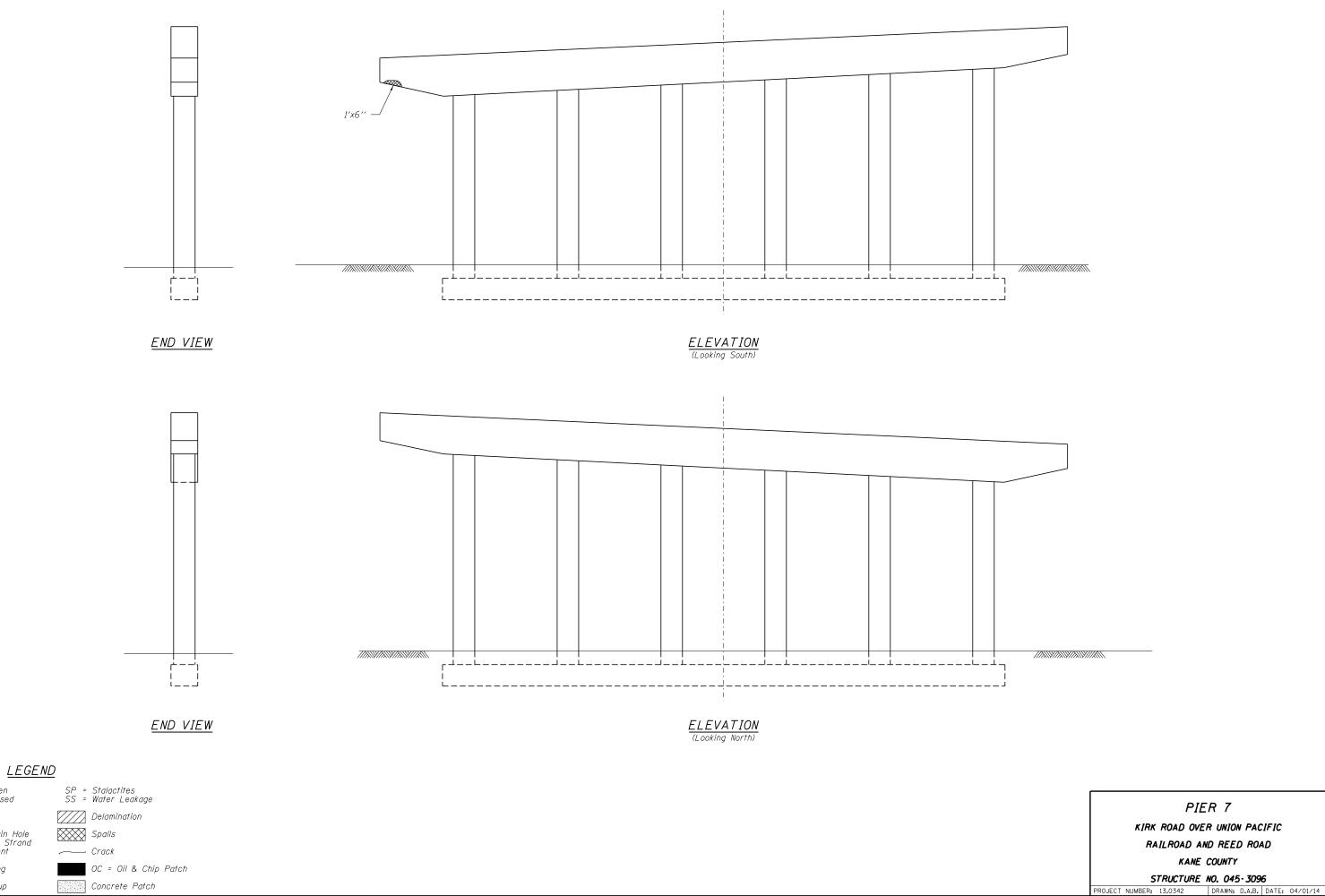




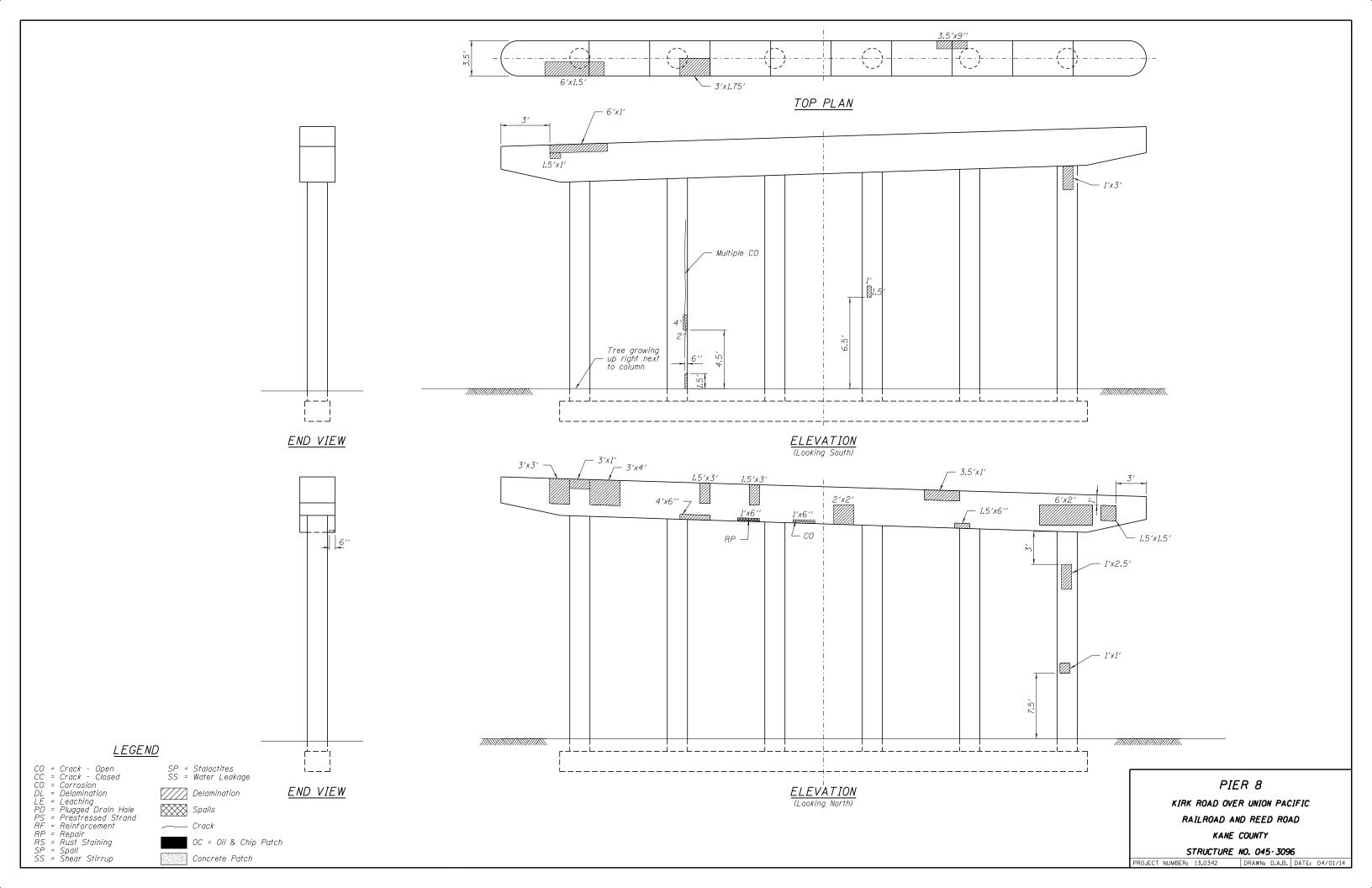
<u>LEGEND</u>

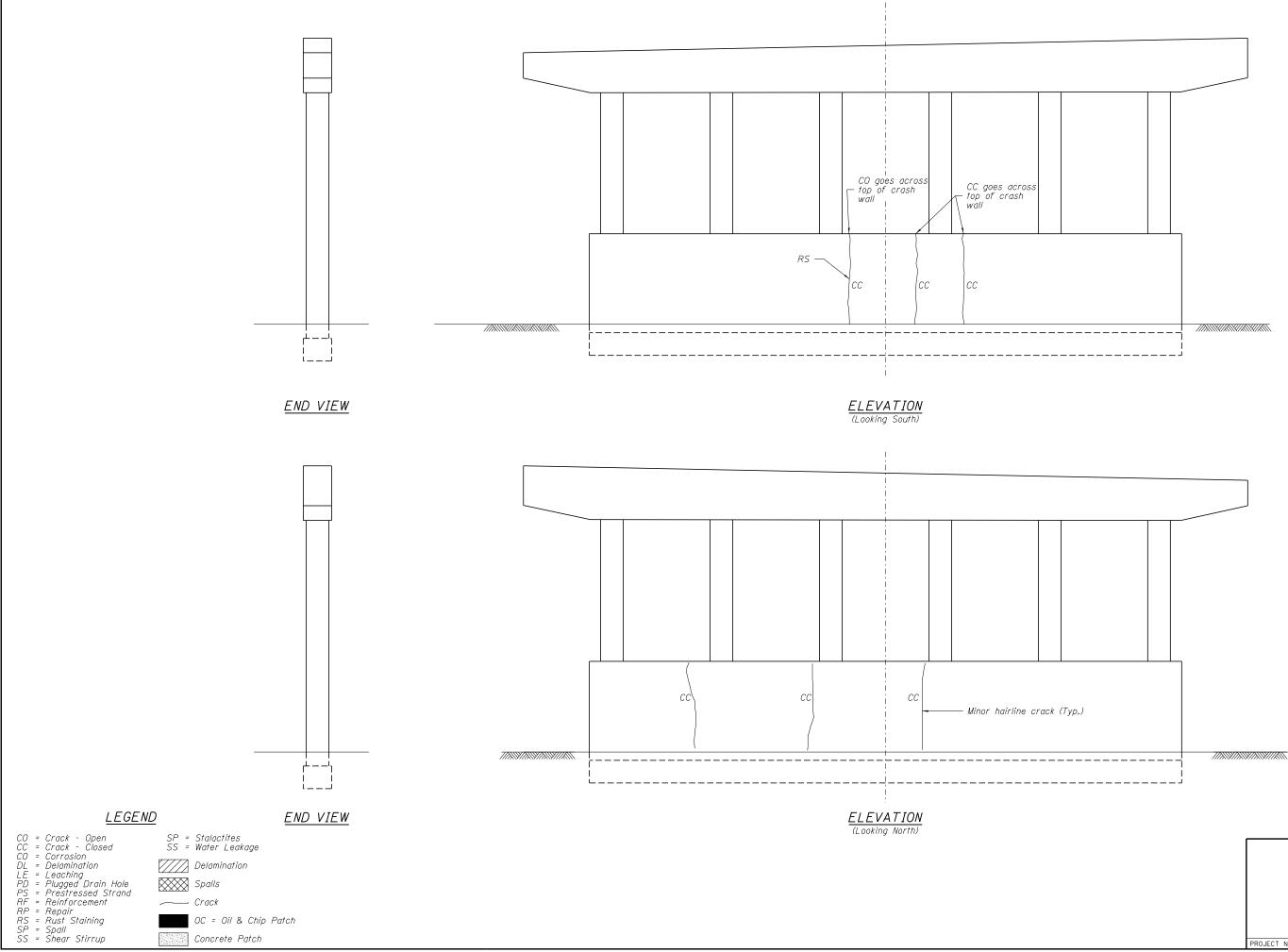
	-
CO = Crack - Open CC = Crack - Closed	SP = Stalactites SS = Water Leakage
CO = Corrosion DL = Delamination LE = Leaching	Delamination
PD = Plugged Drain Hole PS = Prestressed Strand	Spalls
RF = Reinforcement RP = Repair	Crack
RS = Rust Staining SP = Spall	OC = Oil & Chip Patch
SS = Shear Stirrup	Concrete Patch

PIER 6 KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096 PROJECT NUMBER: 13.0342 DRAWN: D.A.B. DATE: 04/01/14



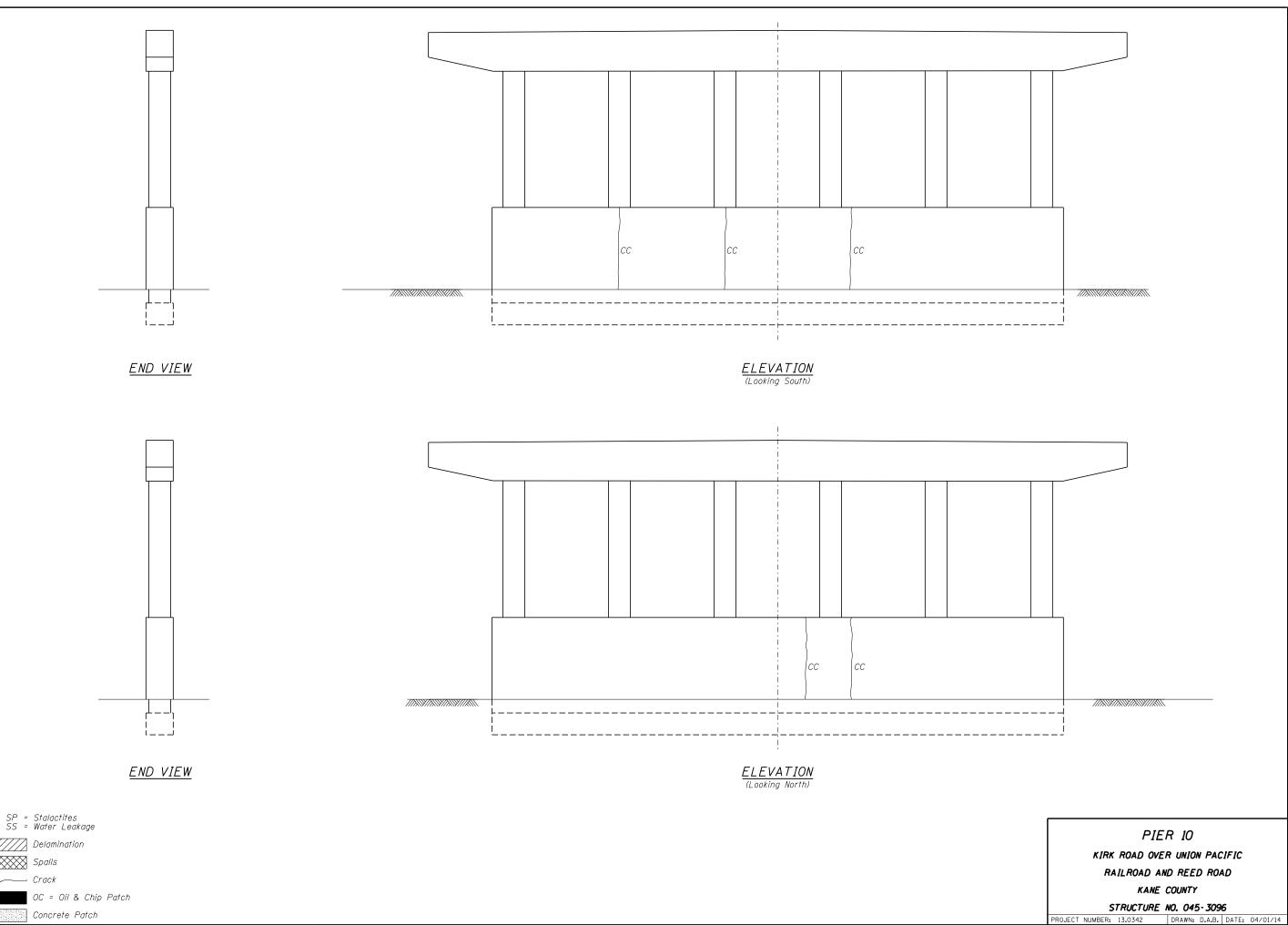
C0 = Crack - Open CC = Crack - Closed C0 = Corrosion DL = Delamination LE = Leaching PD = Plugged Drain Hole PS = Prestressed Strand RF = Reinforcement RP = Repair RS = Rust Staining SP = Spall SS = Shear Stirrup





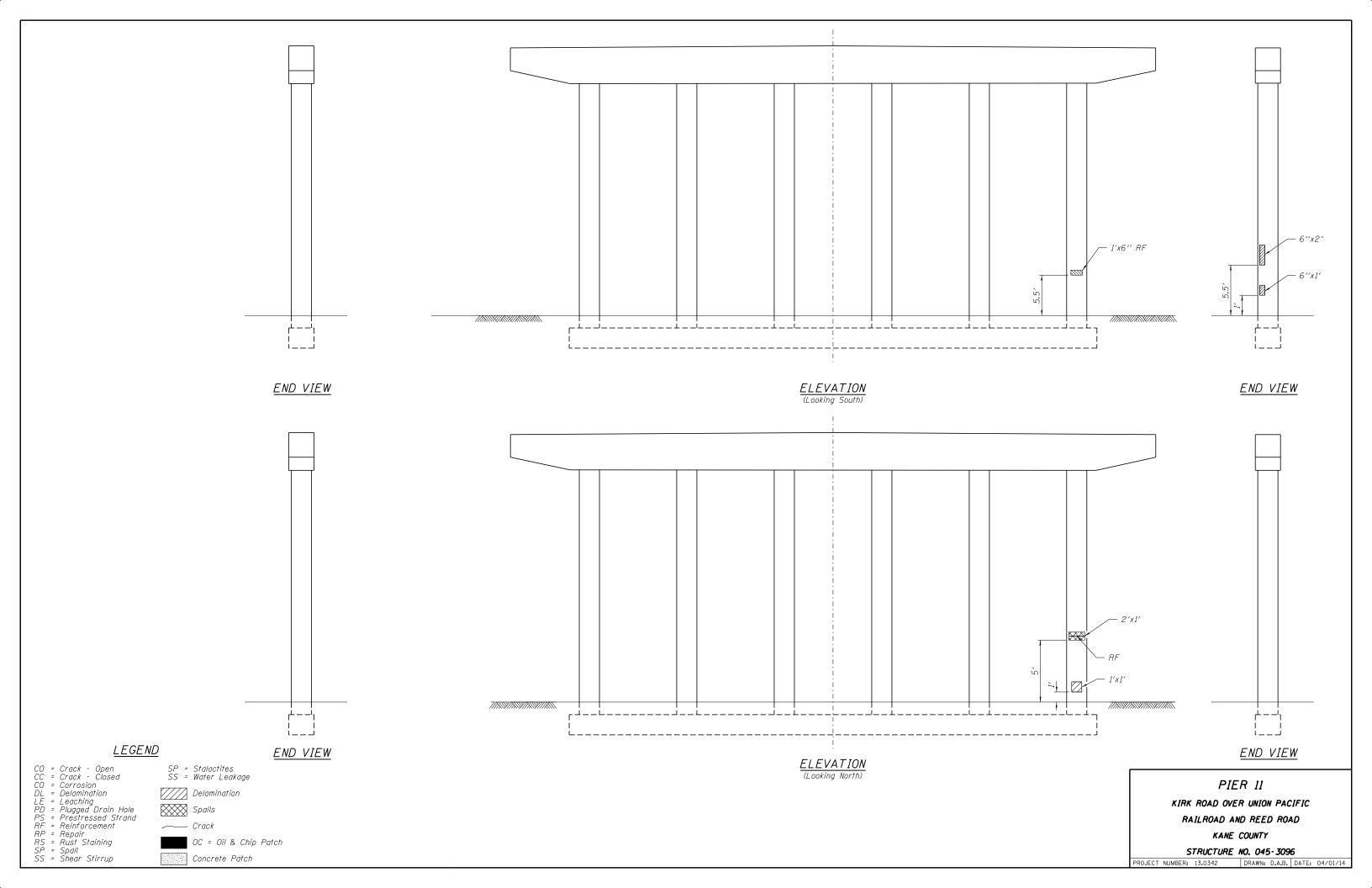
Concrete Patch

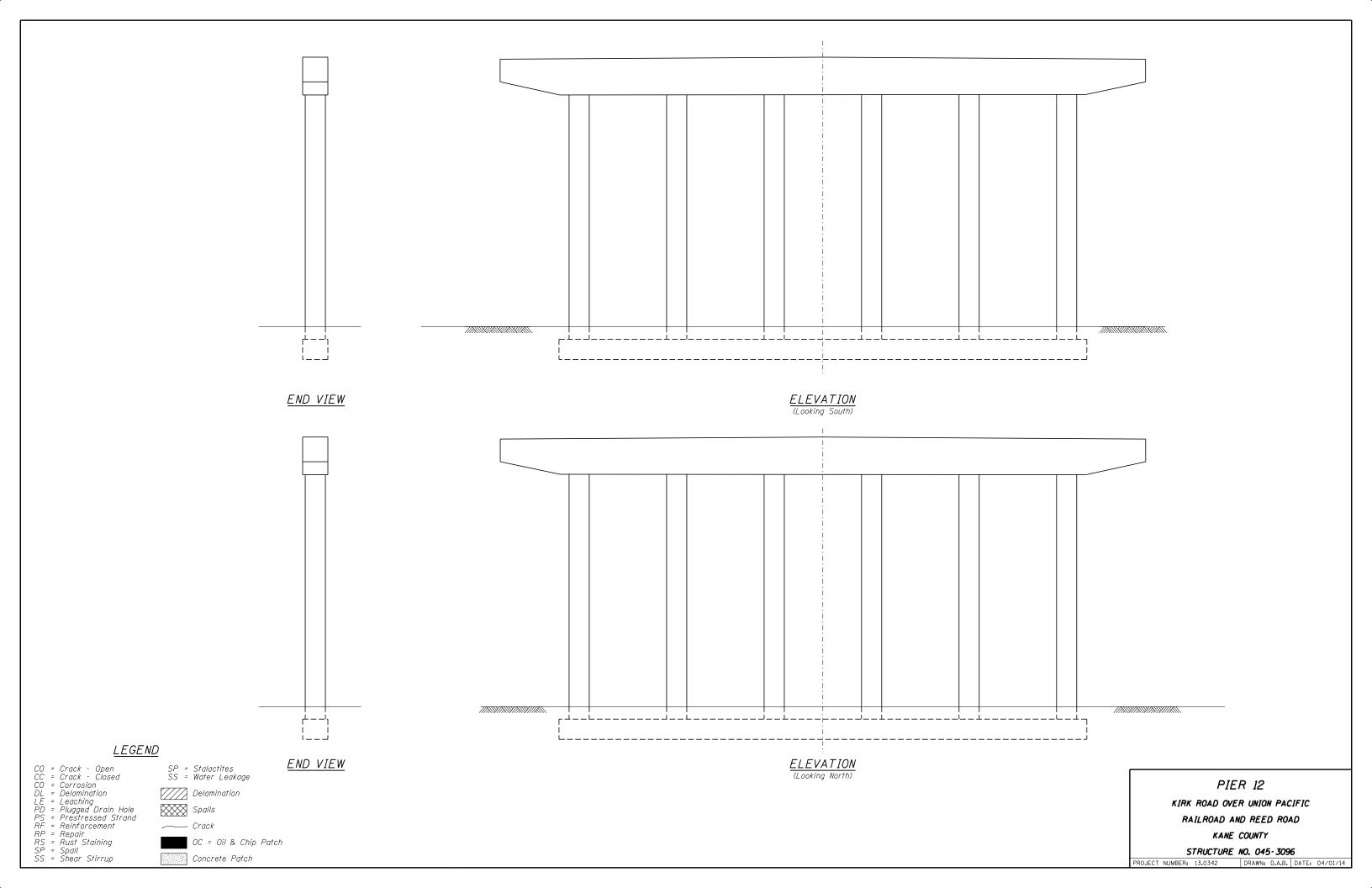
PIER 9 KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096

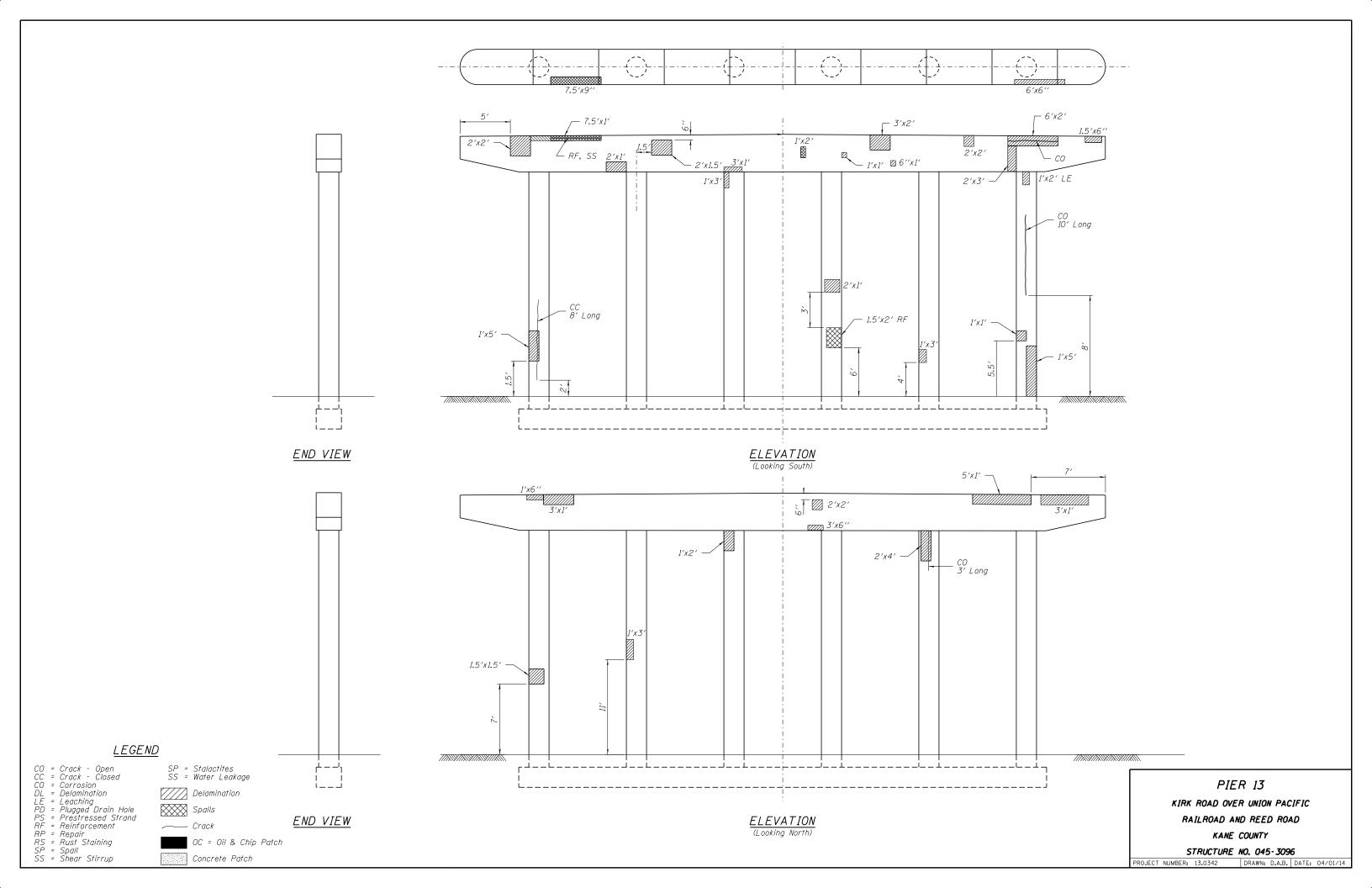


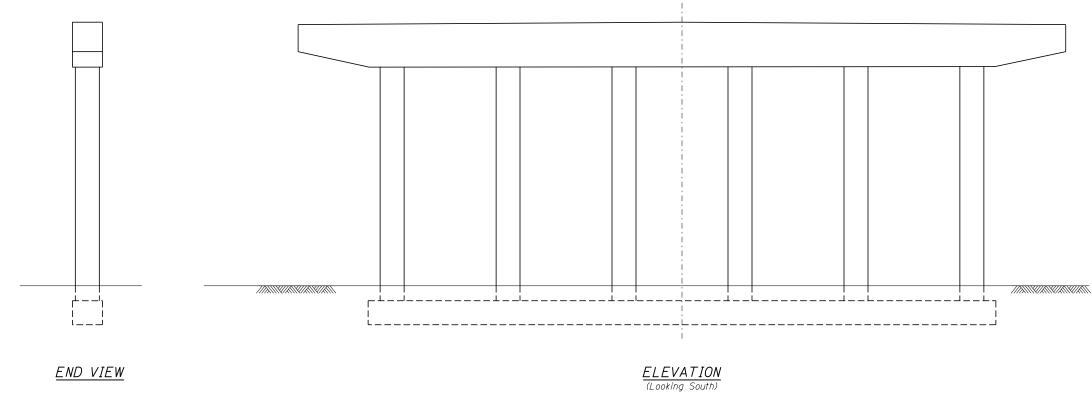
C0 = Crack - Open CC = Crack - Closed C0 = Corrosion DL = Delamination LE = Leaching PD = Plugged Drain Hole PS = Prestressed Strand RF = Reinforcement RP = Repair RS = Rust Staining SP = Spall SS = Shear Stirrup Delamination Spalls _____ Crack OC = Oil & Chip Patch Concrete Patch

<u>LEGEND</u>

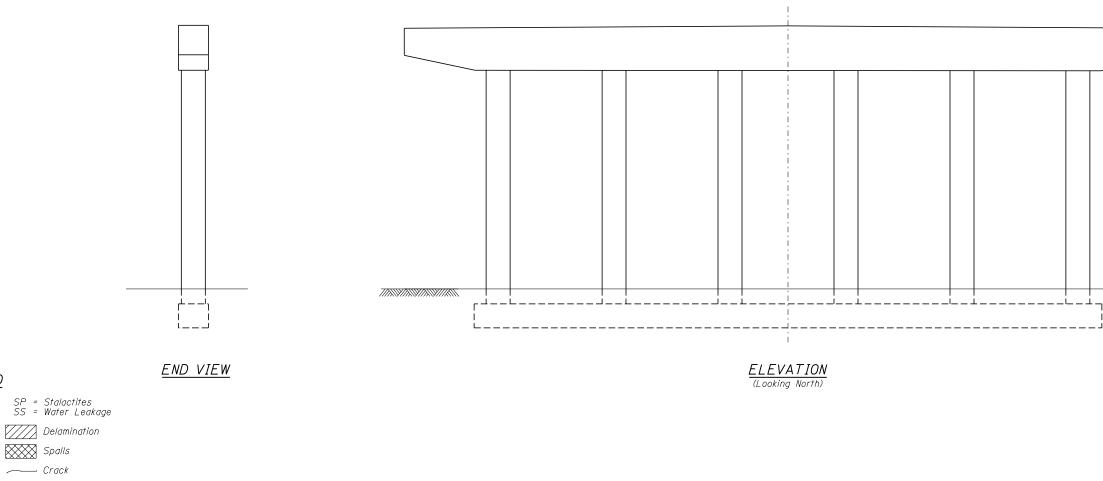












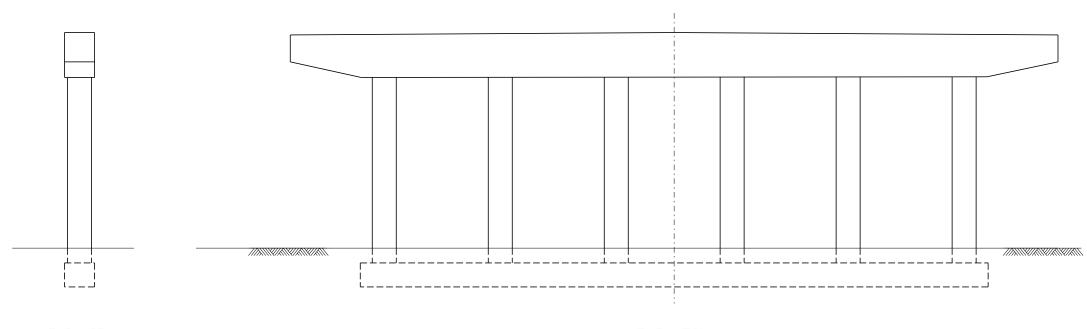
OC = Oil & Chip Patch

C0 = Crack - Open CC = Crack - Closed C0 = Corrosion DL = Delamination LE = Leaching PD = Plugged Drain Hole PS = Prestressed Strand RF = Reinforcement RP = Repair RS = Rust Staining SP = Spall SS = Shear Stirrup Concrete Patch

<u>LEGEND</u>

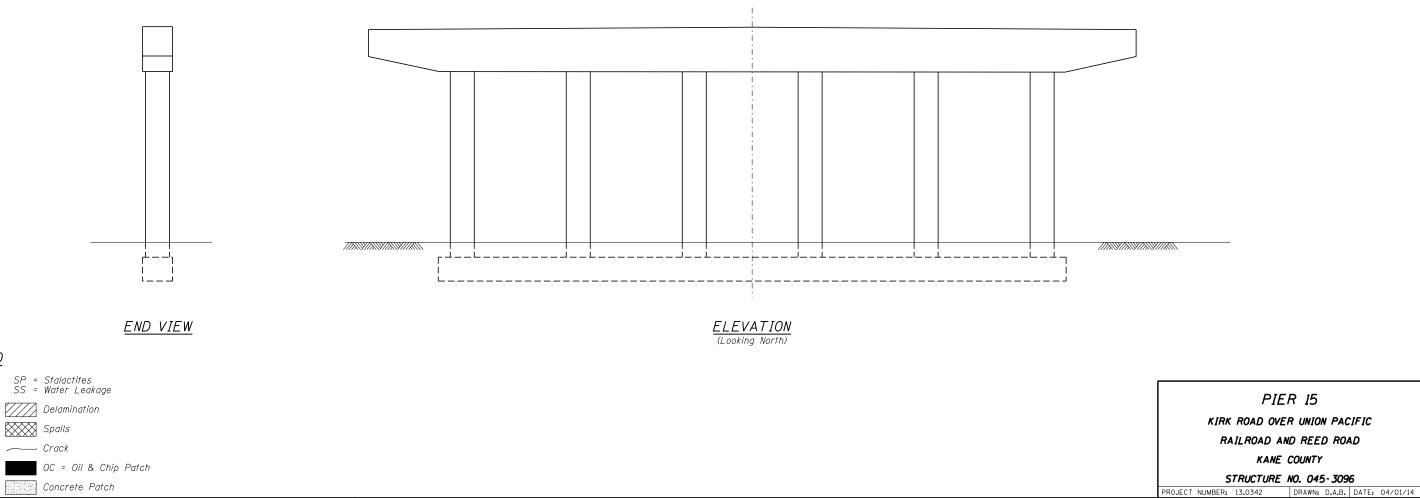
PIER 14 KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096

PROJECT NUMBER: 13.0342 DRAWN: D.A.B. DATE: 04/01/14



<u>END VIEW</u>

ELEVATION (Looking South)



 C0 = Crack - Open
 SP = Stalactites

 CC = Crack - Closed
 SS = Water Leakage

 C0 = Corrosion
 DL = Delamination

 DL = Delamination
 Delamination

 PD = Plugged Drain Hole
 Spalls

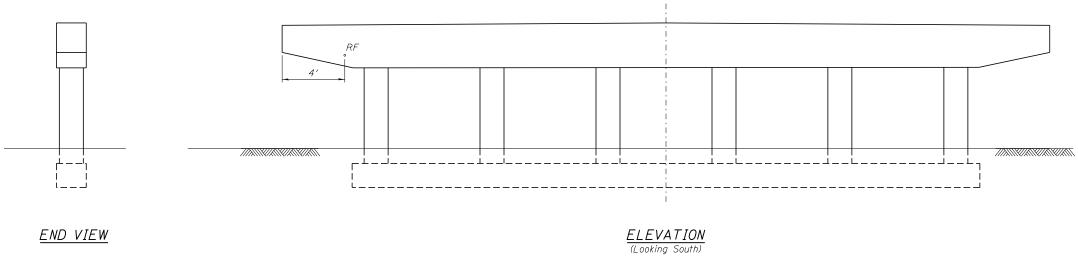
 PS = Prestressed Strand
 Crack

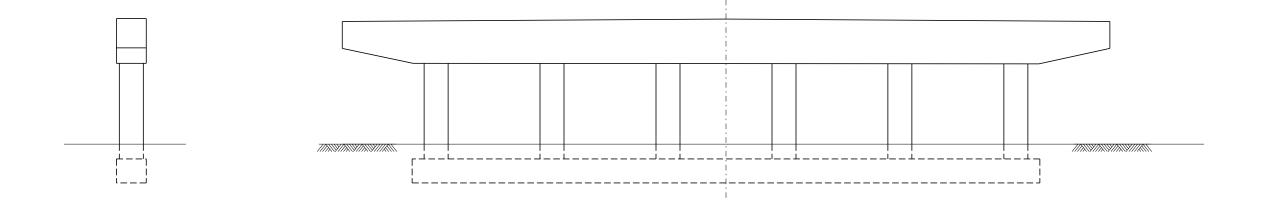
 RP = Reinforcement
 Crack

 RP = Repair
 OC = Oil & Chip Pair

 SP = Spall
 Concrete Patch

<u>LEGEND</u>





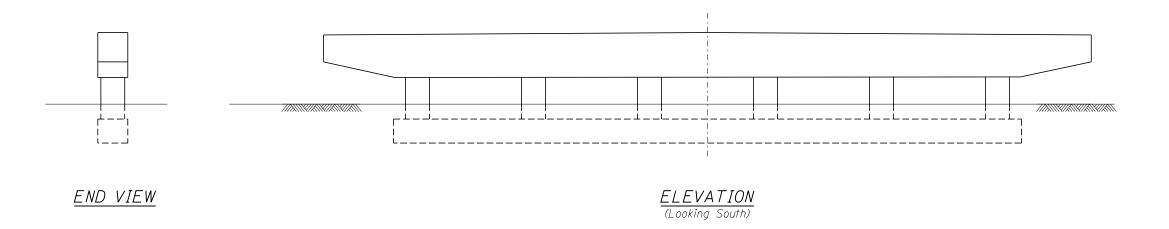
<u>END VIEW</u>

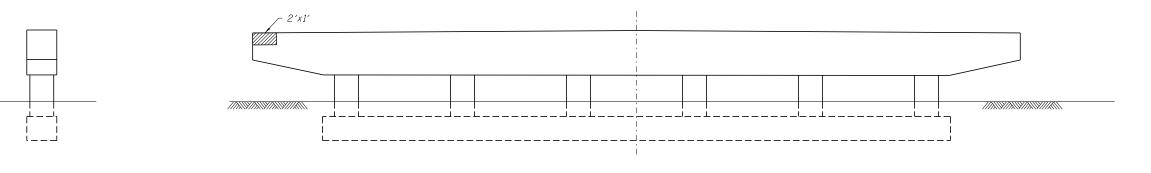
ELEVATION (Looking North)

<u>LEGEND</u>

CO = Crack - Open CC = Crack - Closed	SP = Stalactites SS = Water Leakage
CO = Corrosion DL = Delamination LE = Leaching	Delamination
PD = Plugged Drain Hole PS = Prestressed Strand	Spalls
RF = Reinforcement RP = Repair	Crack
RS = Rust Staining SP = Spall	OC = Oil & Chip Patch
SS = Shear Stirrup	Concrete Patch

PIER 16 KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096 PROJECT NUMBER: 13.0342 DRAWN: D.A.B. DATE: 04/01/14





<u>end view</u>

ELEVATION



CO = Crack - Open CC = Crack - Closed	SP = Stalactites SS = Water Leakage
CO = Corrosion DL = Delamination LE = Leaching	Delamination
PD = Plugged Drain Hole PS = Prestressed Strand	Spalls
RF = Reinforcement RP = Repair	Crack
RS = Rust Staining SP = Spall	OC = Oil & Chip Patch
SS = Shear Stirrup	Concrete Patch

PIER 17 KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096 PROJECT NUMBER: 13.0342 DRAWN: D.A.B. DATE: 04/01/14

ATTACHMENT F

COST ESTIMATES

OPINION OF PROBABLE CONSTRUCTION COST

Computed: MDCCountStruct. No.: 045-3096Date:Location: Kirk Rd over UP RR

County: Kane Date: 4/21/2014

SCOPE OF WORK-A: Deck Repair and Overlay

ltem	<u>Unit</u>	<u>Quantity</u>	Unit Price	<u>Total</u>
Concrete Super Structure:	cu yd	19	\$1,200.00	\$22,800.00
Reinf. Bars, (Epoxy Coated):	lb	4900	\$1.50	\$7,350.00
Bridge Deck Grooving:	sq yd	7875	\$5.00	\$39,375.00
Protective Coat:	sq yd	10193	\$2.00	\$20,386.00
Elastomeric Bearing, Type-1:	each	10	\$900.00	\$9,000.00
Elastomeric Bearing, Type-2:	each	70	\$1,200.00	\$84,000.00
Strip Seal Expansion Joint:	ft	124	\$200.00	\$24,800.00
Traffic Barrier Terminal, Type 5:	each	2	\$1,000.00	\$2,000.00
Traffic Barrier Terminal, Type 6:	each	2	\$3,000.00	\$6,000.00
Steel End Sections-Guardrail:	each	4	\$3,000.00	\$12,000.00
Steel Plate Beam Guardrail:	ft	400	\$32.00	\$12,800.00
Lighting Repairs	LS	1	\$25,000.00	\$25,000.00
Floor Drain Extensions:	each	140	\$225.00	\$31,500.00
Concrete Removal (special):	cu yd	19	\$1,500.00	\$28,500.00
Erosion Control	LS	1	\$8,000.00	\$8,000.00
Temp. Concrete Barrier (w/relocation):	ft	1500	\$38.00	\$57,000.00
Traffic Control and Protection	LS	1	\$45,000.00	\$45,000.00
Guardrail Removal:	ft	150	\$10.00	\$1,500.00
Clean & Paint Steel:	LS	1	\$60,000.00	\$60,000.00
Bridge Deck Hydro/Mech Scarification:	sq yd	8490	\$40.00	\$339,600.00
Bridge Deck Microsilica Conc. Overlay:	sq yd	8490	\$80.00	\$679,200.00
Deck Slab Repair (full depth):	sq yd	761	\$700.00	\$532,700.00
Concrete Repair-Parapet & Median:	sq yd	360	\$290.00	\$104,400.00
Epoxy Crack Sealing:	ft	200	\$45.00	\$9,000.00
Formed Concrete Repair <= 5":	sq ft	500	\$125.00	\$62,500.00
Jack & Remove Existing Bearing:	each	80	\$1,500.00	\$120,000.00
RR Protective Liability Insurance	LS	1	\$50,000.00	\$50,000.00
	each	0	\$50.00	<u>\$0.00</u>
Sub-Total from above:				\$2,394,411.00
Mob., Contingency & Other (20%):				<u>\$478,882.20</u>

Total Estimated Cost = \$2,873,293

OPINION OF PROBABLE CONSTRUCTION COST

Computed: MDC County: Kane Struct. No.: 045-3096 Date: 4/21/2014 Location: Kirk Rd over the UP RR

SCOPE OF WORK-B: Deck Replacement

ltem	<u>Unit</u>	Quantity	Unit Price	<u>Total</u>
Stud Shear Connectors	each	41280	\$2.75	\$113,520.00
Concrete Super Structure:	cu yd	2840	\$1,000.00	\$2,840,000.00
Reinf. Bars, (Epoxy Coated):	lb	737960	\$1.25	\$922,450.00
Bridge Deck Grooving:	sq yd	7951	\$5.00	\$39,755.00
Protective Coat:	sq yd	10404	\$2.00	\$20,808.00
Elastomeric Bearing, Type-1:	each	10	\$900.00	\$9,000.00
Elastomeric Bearing, Type-2:	each	70	\$1,200.00	\$84,000.00
Strip Seal Expansion Joint:	ft	124	\$200.00	\$24,800.00
Finger Plate Expansion Joint	ft	186	\$1,900.00	\$353,400.00
Guardrail Removal:	ft	150	\$10.00	\$1,500.00
Traffic Barrier Terminal, Type 5:	each	2	\$1,000.00	\$2,000.00
Traffic Barrier Terminal, Type 6:	each	2	\$3,000.00	\$6,000.00
Steel End Sections-Guardrail:	each	4	\$3,000.00	\$12,000.00
Steel Plate Beam Guardrail:	ft	400	\$32.00	\$12,800.00
Light Pole w/Luminair, Bridge Mounted:	each	10	\$3,500.00	\$35,000.00
Floor Drains:	each	150	\$345.00	\$51,750.00
Drainage Scuppers, DS-11:	each	16	\$1,275.00	\$20,400.00
Deck Removal on steel bm-reuse bm:	cu yd	2467	\$150.00	\$370,050.00
Traffic Control and Protection	LS	1	\$60,000.00	\$60,000.00
Temp. Concrete Barrier (w/relocation):	ft	1500	\$38.00	\$57,000.00
Staging Traffic Control Prot & Signing:	LS	1	\$55,000.00	\$55,000.00
Clean & Paint Steel:	LS	1	\$60,000.00	\$60,000.00
Epoxy Crack Sealing:	ft	200	\$45.00	\$9,000.00
Formed Concrete Repair <= 5":	sq ft	500	\$125.00	\$62,500.00
Erosion Control	LS	1	\$10,000.00	\$10,000.00
Jack & Remove Existing Bearing:	each	80	\$1,200.00	\$96,000.00
RR Protective Liability Insurance	LS	1	\$50,000.00	\$50,000.00
	each	0	\$50.00	<u>\$0.00</u>
Sub-Total from above:				\$5,378,733.00
Mob., Contingency & Other (20%):				<u>\$1,075,746.60</u>
т	otal Estim	nated Cost	=	\$6,454,480



Project Route Section County

Estimate of Cost

Location of Improvement:

Scope of Work C: Structure Replacement

For a total	distance of	Net improvement of					
Туре	Width	Thickness Maximum Grade					
Shoulders	Average Haul						
Code Number	ltem	Unit of Measure	Quantity	Unit Price	Total Cost		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	24,210	\$14.00	\$338,940.0		
	HOT-MIX ASPHALT (BASE/BINDER/SURFACE COURSE)	TON	290	\$105.00	\$30,450.0		
	PORTLAND CEMENT CONCRETE PAVEMENT	SQ YD	18,830	\$47.00	\$885,010. \$79.310.		
14000100	PAVEMENT REMOVAL	SQ YD	7,210	\$11.00			
50102400	CONCRETE REMOVAL	CU YD	524	\$300.00	\$157,200.0		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	\$1,280,000.00	\$1,280,000.0		
50300225	CONCRETE STRUCTURE	CU YD	837	\$800.00	\$669,600.0		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,073	\$1,000.00	\$1,073,000.0		
50401315	FURNISHING AND ERECTING PRECAST CONCRETE BEAMS, IL36N	FOOT	750	\$220.00	\$165.000.		
50401335	FURNISHING AND ERECTING PRECAST CONCRETE BEAMS, ILSAN	FOOT	1,580	\$220.00	\$347.600.		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	419,000	\$2.00	\$838,000.		
50901720	BICYCLE RAILING	FOOT	1,150	\$120.00	\$138,000.		
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	24	\$800.00	\$19,200.		
30605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4,900	\$23.00	\$112,700.		
50618300	CONCRETE MEDIAN SURFACE, 4"	SQ FT	11,450	\$4.00	\$45.800.		
50620000	CONCRETE MEDIAN, TYPE SB-6.24	SQ FT	17,100	\$10.00	\$171,000.		
Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	68,500	\$10.00	\$3,767,500.0		
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	28,750	\$50.00	\$1,437,500.		
20073002	EXPANSION JOINTS	FOOT	450	\$200.00	\$90.000.		
	EMBANKMENT	CU YD	60,000	\$30.00	\$90,000.		
	RAILROAD LIABILITY INSURANCE	L SUM	1	\$50,000.00	\$1,800,000.		
	LIGHTING	L SUM	1	\$40,000.00	\$30,000.		
	DRAINAGE	L SUM	1	\$100,000.00	\$40,000.		
			1				
	SIGNING/PAVEMENT MARKINGS EARTH EXCAVATION/FURNISHED EXCAVATION	L SUM	1	\$80,000.00 \$100,000.00	\$80,000. \$100,000.		
	EROSION CONTROL/LANDSCAPING	L SUM	1	\$75,000.00	\$75.000.		
					• - /		
	FOREST PERSERVE REALIGNMENT ROAD MOBILIZATION (4%)	L SUM	-	\$137,000.00	\$137,000. \$725,000.		
	TRAFFIC CONTROL (5%)			-	\$905,000.		
	MISCELLANEOUS (5%)	-	-	-	\$905,000.		
	CONTINGENCY (15%)	-		-	\$903,000.		
					φ2,740,000.		
PAGE 1 TC	TAL ESTIMATED COST OF WORK INCLUDING ALL LABOR, MATERIALS AND PF	ROFITS.			\$19,302,810		

 Made by
 BRL
 Date
 9/25/2015
 Examined
 ,

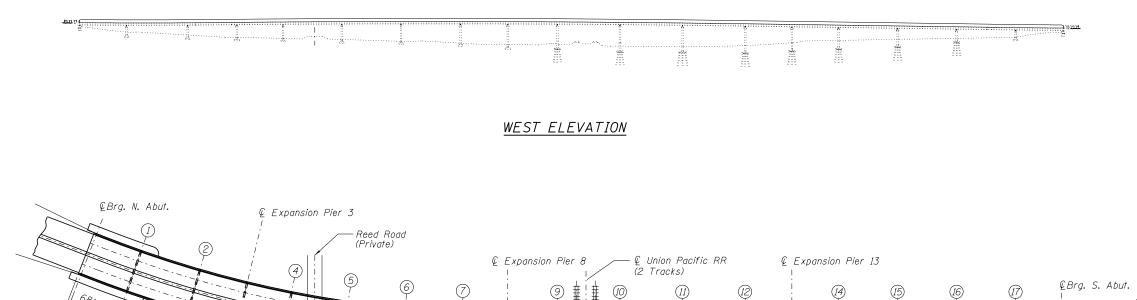
 Checked by

 Date

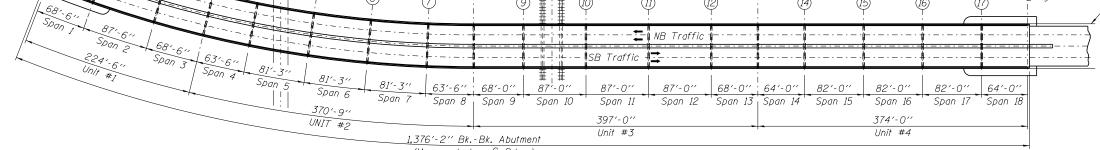
 Regional Engineer

ATTACHMENT G

PROPOSED STRUCTURE

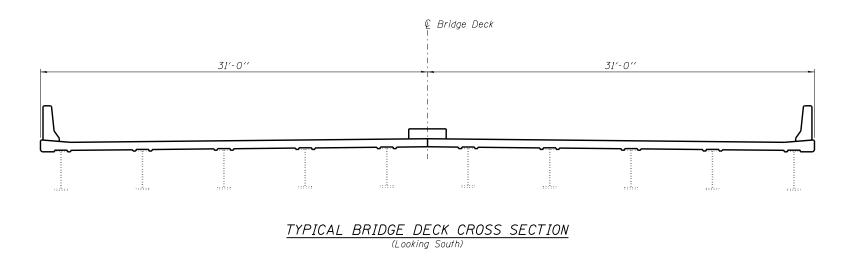


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(Measured along 🕻 Rdwy.)

<u>PLAN</u>

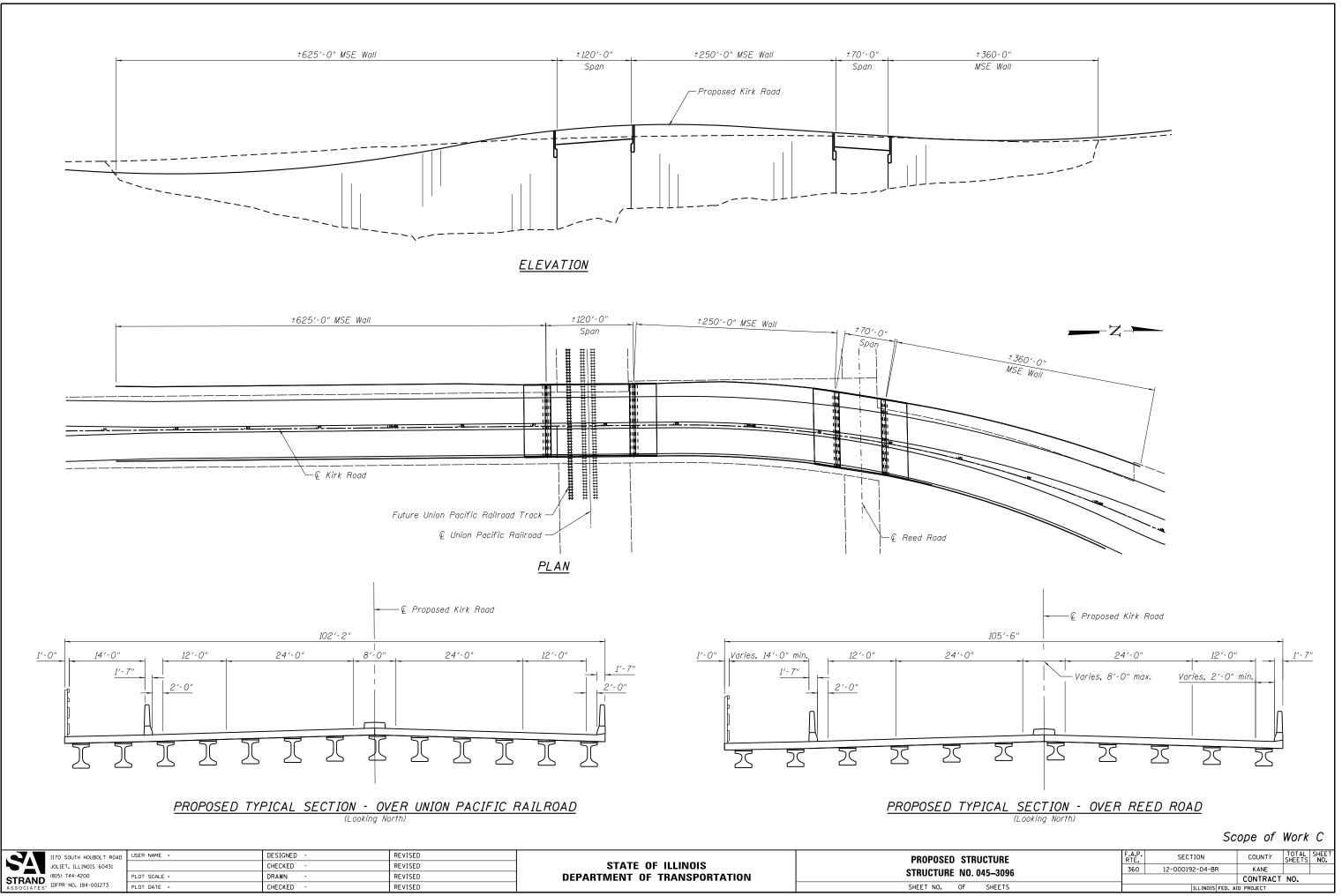


— Guardrail (Тур.)

SCOPE OF WORK A & B

PROPOSED STRUCTURE KIRK ROAD OVER UNION PACIFIC RAILROAD AND REED ROAD KANE COUNTY STRUCTURE NO. 045-3096

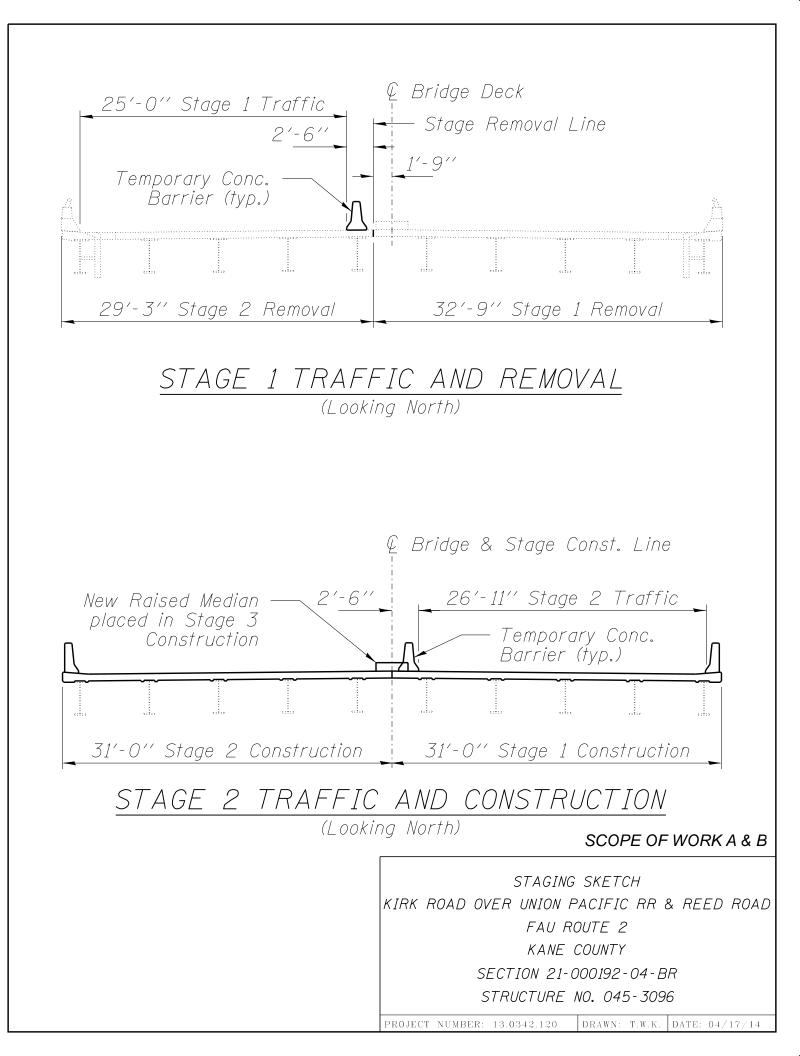
PROJECT NUMBER: 13.0342 DRAWN: D.A.B. DATE: 04/01/14

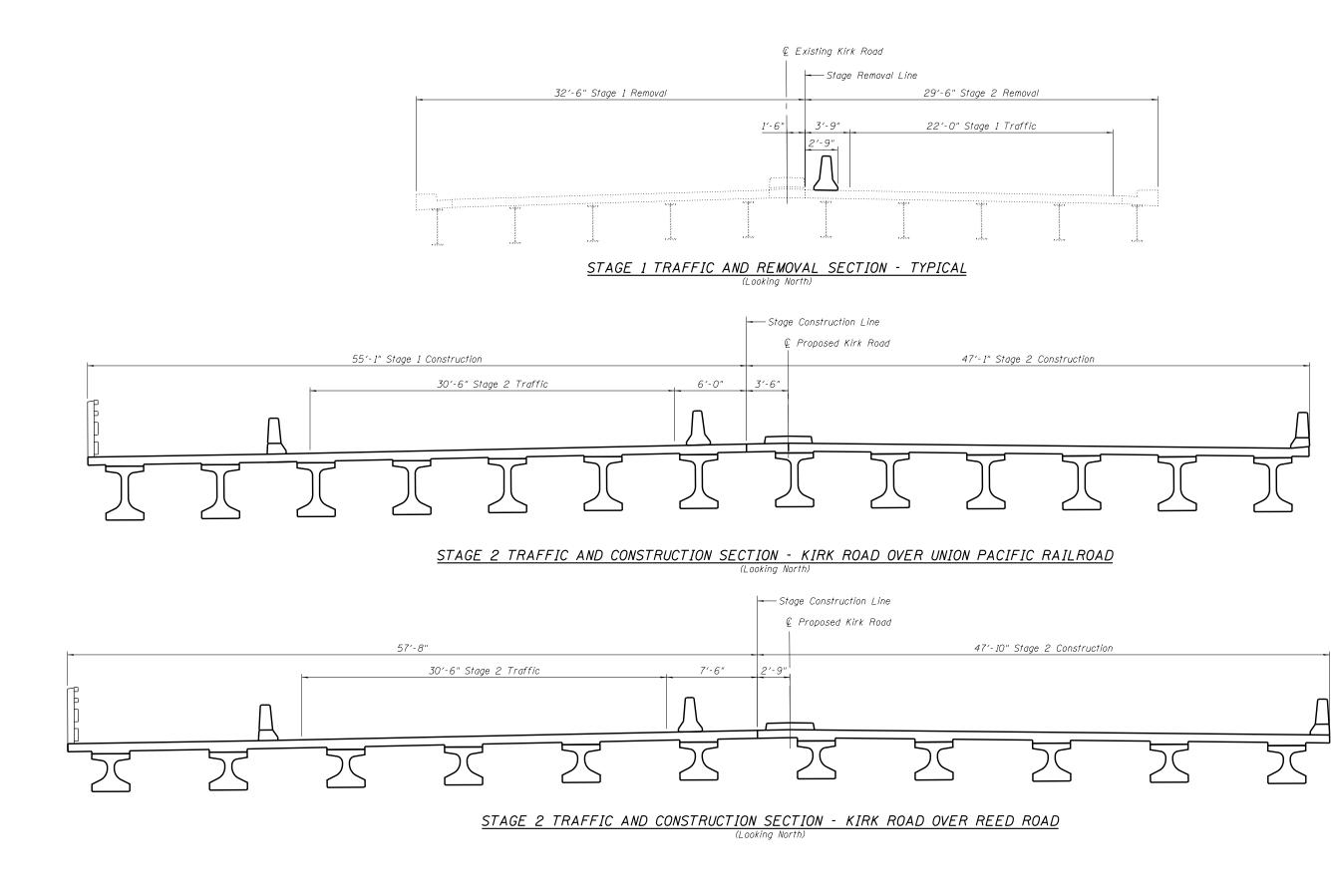


NAME = 5\.JOL.\3500--3599\3507\003\Micros(CADD.Sh

ATTACHMENT H

STAGING SKETCH





	1170 SOUTH HOUBOLT ROAD	USER NAME =	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING SKETCH	F.A.P. SEC	CTION (COUNTY TOT	FTS NO.	
	JOLIET, ILLINOIS 60431			REVISED		STRUCTURE NO. 045–3096	360 12-0001)192-04-BR	KANE		
ST	RAND (815) 144-4200	PLOT SCALE =		REVISED					CC	ONTRACT NO.	
ASS	ASSOCIATES IDEPR NO. 184-001273	PLOT DATE =	CHECKED -	REVISED		SHEET NO. OF SHEETS			ILLINOIS FED. AID PROJECT		

Scope of Work C

ATTACHMENT I

STRUCTURE PHOTOGRAPHS



Photo No. 1 Looking south through bridge



Photo No. 2 Looking north through bridge



Photo No. 3 Looking east from bridge (2012 photo)



Photo No. 4 Looking west from bridge (2012 photo)

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Photo No. 5 East elevation of bridge



Photo No. 6 West elevation of bridge



Photo No. 7 North approach pavement looking east



Photo No. 8 South approach pavement looking east



Photo No. 9 North abutment transverse joint, seal is leaking

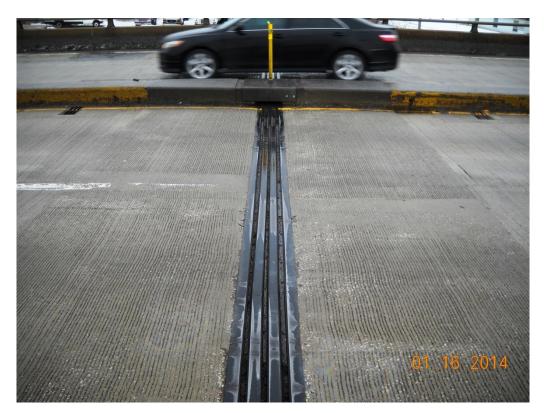


Photo No. 10 Pier 3 transverse joint

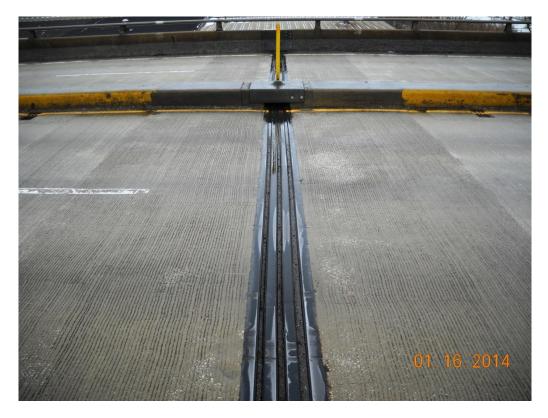


Photo No. 11 Pier 8 transverse joint

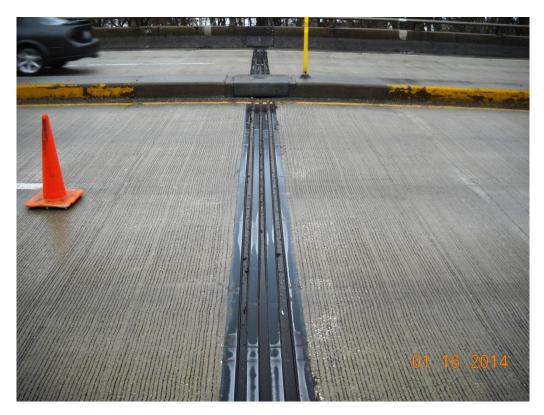


Photo No. 12 Pier 13 transverse joint



Photo No. 13 South abutment transverse joint, seal has failed



Photo No. 14 West parapet looking south



Photo No. 15 East parapet looking northeast



Photo No. 16 Delaminated concrete on parapet - common



Photo No. 17 Spalled concrete on parapet - common



Photo No. 18 Top of deck, span 5 SB, looking south



Photo No. 19 Top of deck, span 5 SB – intersecting open cracks in overlay (common)



Photo No. 20 Top of deck, span 9 SB, looking south

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Photo No. 21 Top of deck, span 9 SB – open cracks in overlay (common)



Photo No. 22 Top of deck, span 16 SB - spall



Photo No. 23 Top of deck, span-8 NB, looking north



Photo No. 24 Top of deck, span-7 NB, oil and chip patch



Photo No. 25 Top of deck, span-7 NB, damaged concrete patch



Photo No. 26 Top of deck, span-3 – intersecting open cracks in overlay



Photo No. 27 Missing light pole, span-14, west side



Photo No. 28 West deck fascia – typical condition, looking SW



Photo No. 29 Bottom of deck and beams, span-4 – center bays, looking south



Photo No. 30 Bottom of deck and beams, span-8 – center bays, looking south

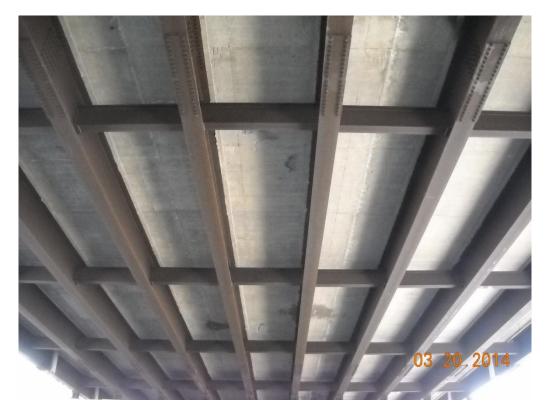


Photo No. 31 Bottom of deck and beams, span-15 – center bays, looking south



Photo No. 32 Bottom of deck and beams, span-16 – center bays, looking south



Photo No. 33 Fascia bay - typical



Photo No. 34 Bottom of deck and beams, span-13, looking north



Photo No. 35 Beams and deck, span-10, looking NE

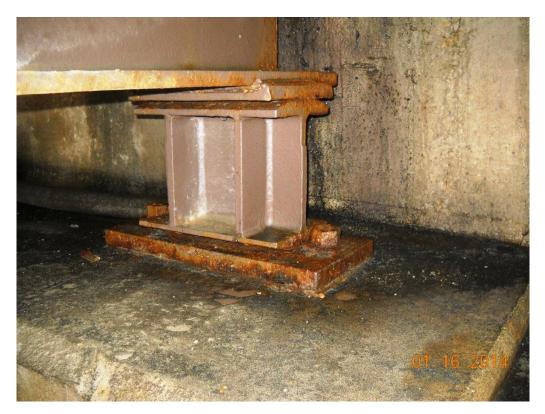


Photo No. 36 Expansion bearing at north abutment – typical condition



Photo No. 37 Expansion bearings at Pier-3, typical condition beneath interior transverse joints



Photo No. 38 Expansion bearing at Pier-5, typical condition beneath continuous deck locations



Photo No. 39 Corrosion on web and bottom flange on Beam-6 from west side near Pier 3

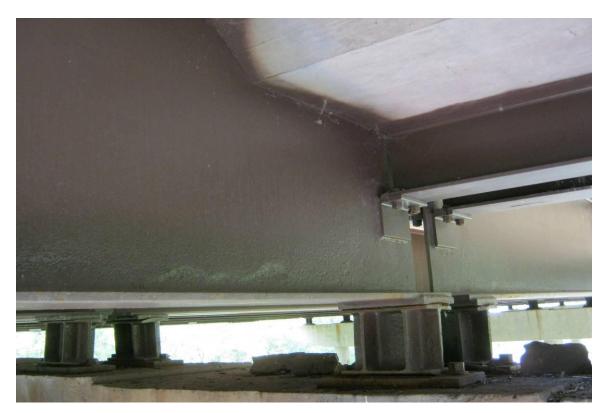


Photo No. 40 Typical pitting of web near Pier-13



Photo No. 41 Abutment cap – typical condition



Photo No. 42 NE abutment wingwall

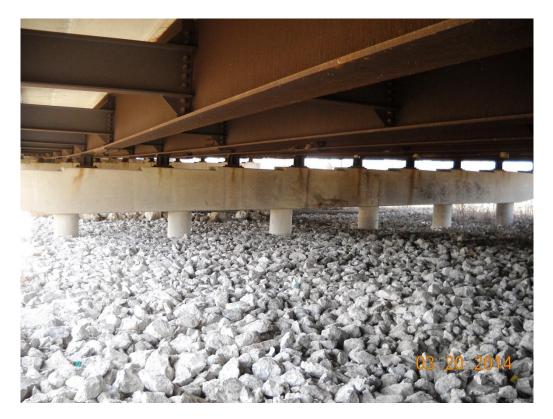


Photo No. 43 Pier 1, looking SW



Photo No. 44 Pier 3, looking SE



Photo No. 45 Pier 3, looking SW, cracking and delaminations common in cap



Photo No. 46 Pier 7, looking south (typical pier condition without transverse deck joint)



Photo No. 47 Pier 8, looking south



Photo No. 48 Pier 8, delaminations at top of west column, looking SW



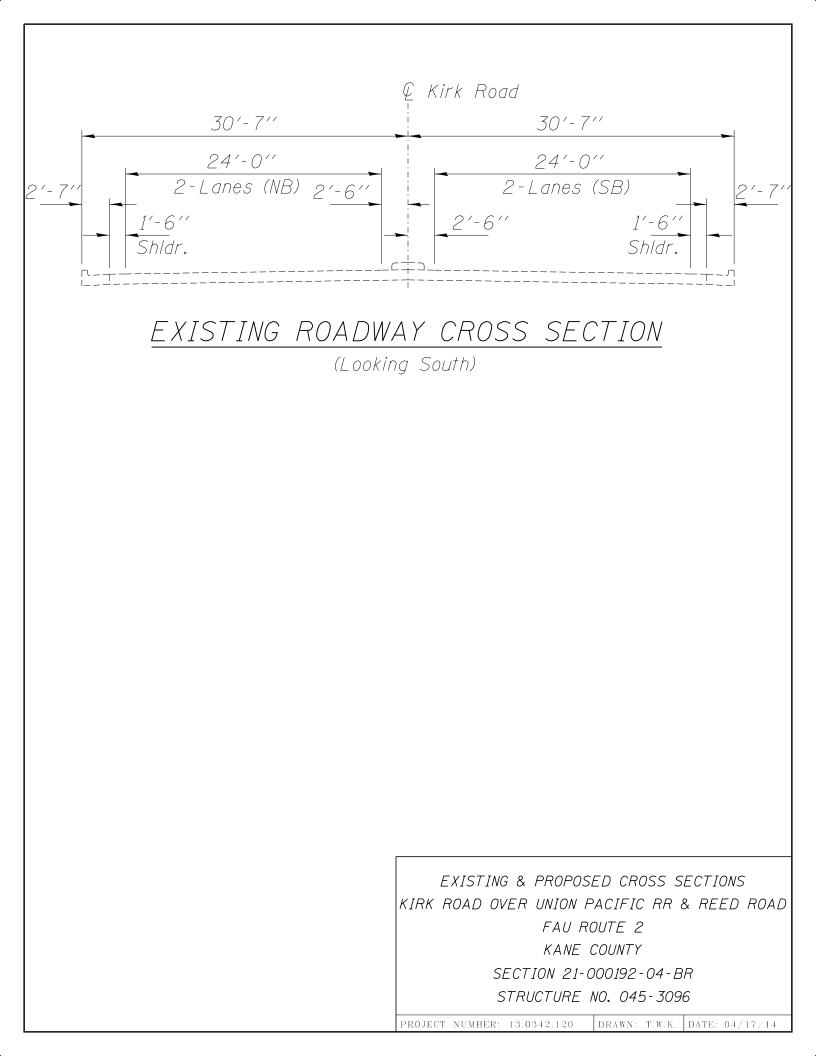
Photo No. 49 Pier 13, looking south

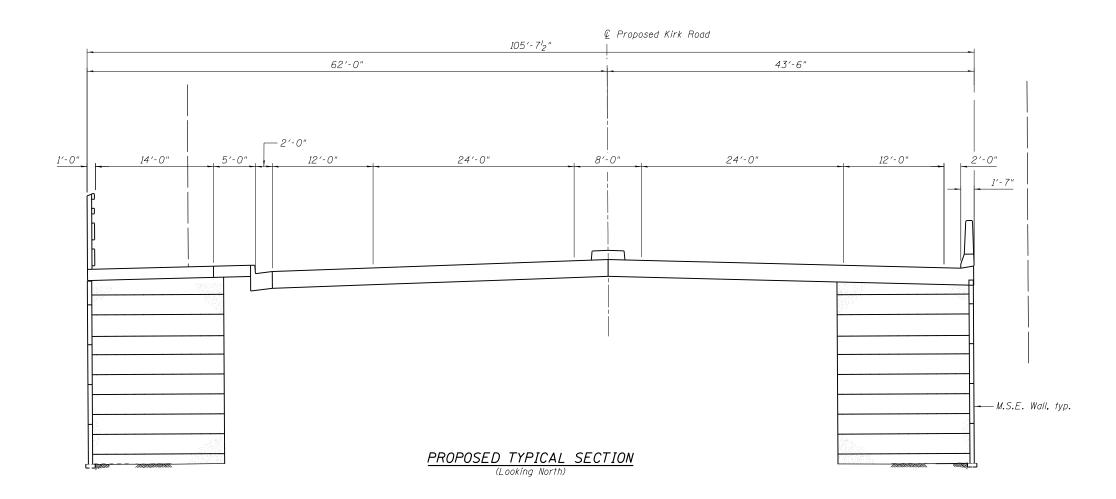


Photo No. 50 Pier 13, east end looking south, spalling and delaminations common in cap

ATTACHMENT J

EXISTING AND PROPOSED ROADWAY CROSS SECTIONS





REVISED REVISED

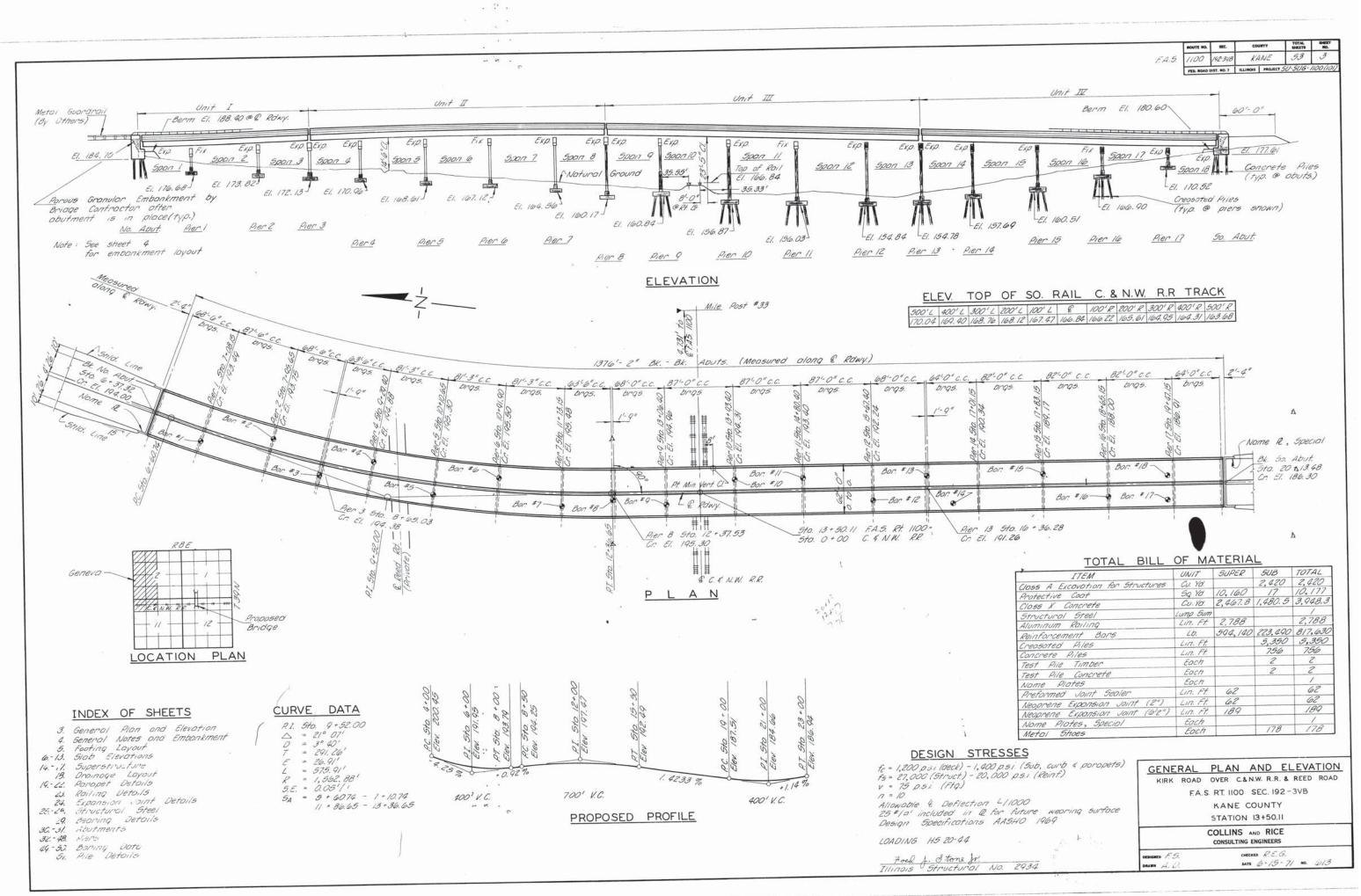
REVISED REVISED



CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 045–3096	360	12-000192-04-BR	KANE		
			CONTRACT	NO.	
SHEETS	ILLINOIS FED. AID PROJECT				

ATTACHMENT K

ABBREVIATED EXISTING PLANS



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