



L0962 I 70 Cooper Co.  
Joint at L8, span 13  
Eastbound lane failing  
9-24-13



**L0962 I 70 Cooper Co.  
L7, L8 stringer 9 bent  
near center at bottom flange  
9-24-13**







L0962 I 70 Cooper Co.  
L7, L8 right bottom chord with  
heavy pack rust at riveted  
connection  
9-24-13



L0962 I 70 Cooper Co.  
L10 - U10 Span 13, minor  
pack rust at riveted connection  
9-24-13







L0962 I 70 Cooper Co.  
L-11 right inner gusset with  
moderate pack rust at  
vertical connection at  
Span 13  
9-24-13



**L0962 I 70 Cooper Co.  
L-16 right inner gusset,  
Span 13 with minor section  
loss at connections  
9-24-13**





L0962 I 70 Cooper Co.  
Joint at L16, span 13  
Eastbound lane cracked  
and leaking  
9-24-13







L0962 I 70 Cooper Co.  
Overall view of Span 13  
underside  
9-24-13





L0962 I 70 Cooper Co.  
Joint at west abutment XJS  
good condition  
9-24-13



L0962 I 70 Cooper Co.  
Span 1 missing RPM  
9-24-13



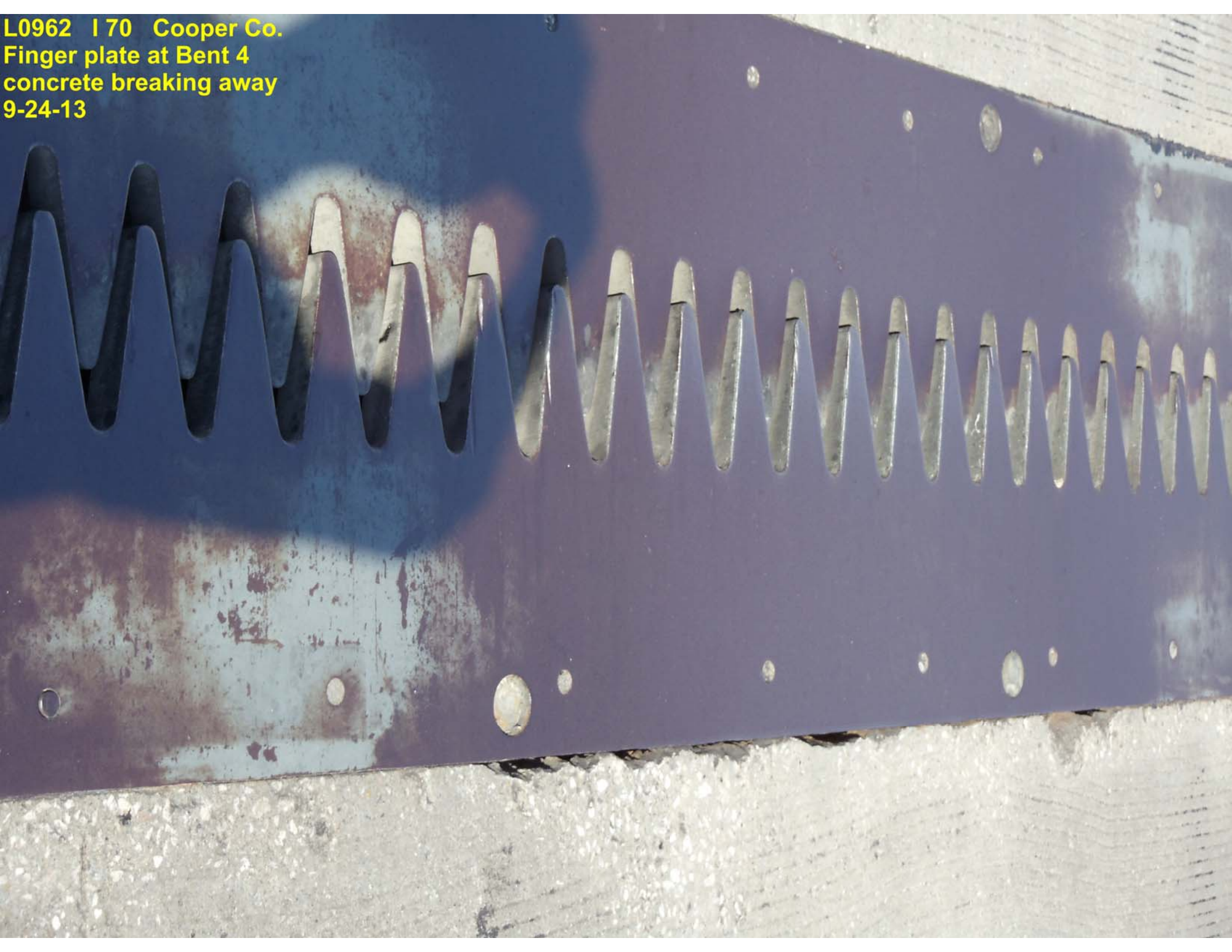


L0962 I 70 Cooper Co.  
Span 1 broken/cracked  
RTM typical  
9-24-13





L0962 I 70 Cooper Co.  
Finger plate at Bent 4  
concrete breaking away  
9-24-13





L0962 170 Cooper Co.  
Finger plate at Bent 7  
concrete breaking away  
9-24-13







L0962 I 70 Cooper Co.  
Finger plate at Bent 10  
East side 3/8 inch high  
9-24-13





L0962 170 Cooper Co.  
Finger plate at Bent 13  
Good condition  
9-24-13



**L0962 I 70 Cooper Co.  
Collision damage to barrier  
wall West abutment south side  
9-24-13**

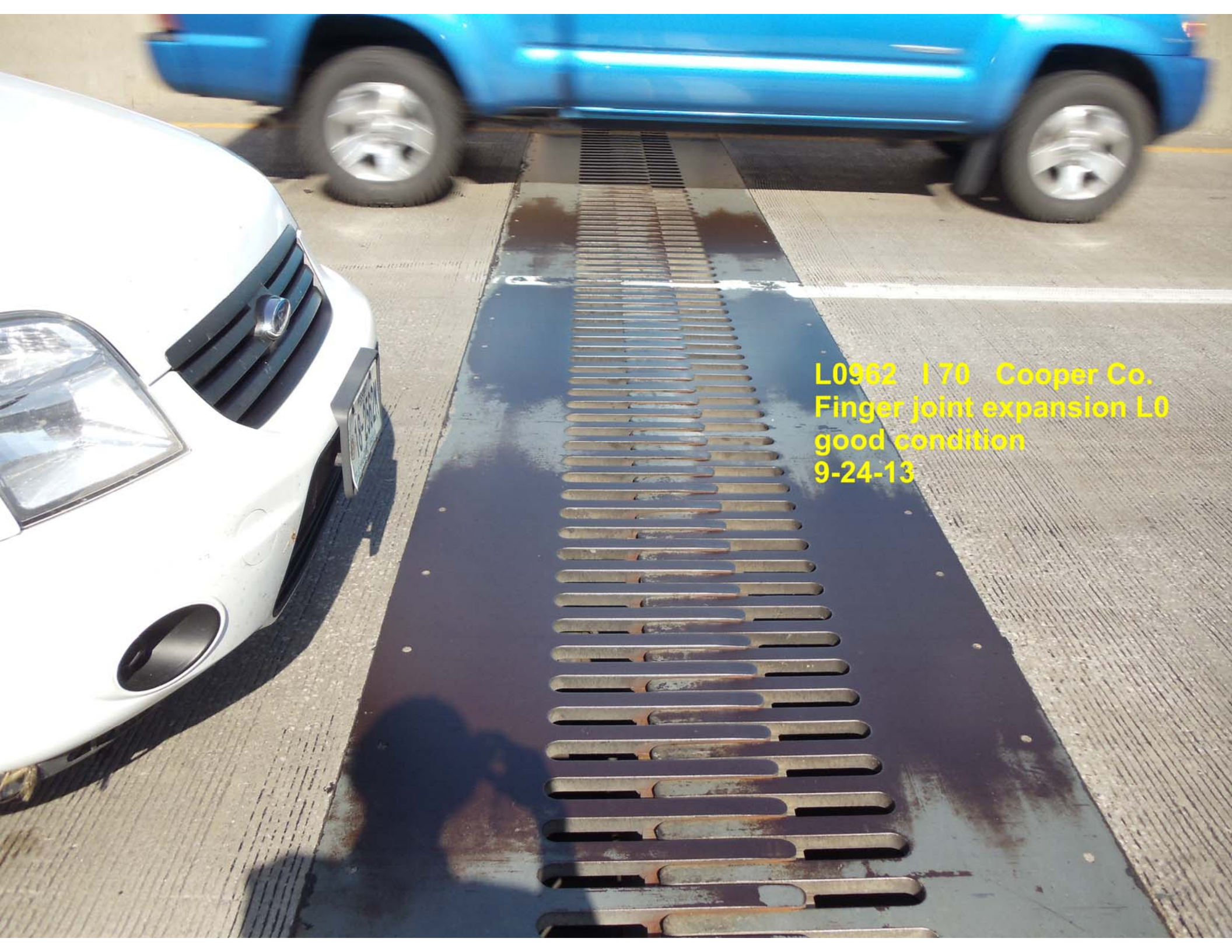




L0962 I 70 Cooper Co.  
Damage RPM  
9-24-13







L0962 170 Cooper Co.  
Finger joint expansion L0  
good condition  
9-24-13





L0962 I 70 Cooper Co.  
Compression joint nosing  
broken L4  
9-24-13





L0962 I 70 Cooper Co.  
Compression joint nosing  
broken L8  
9-24-13





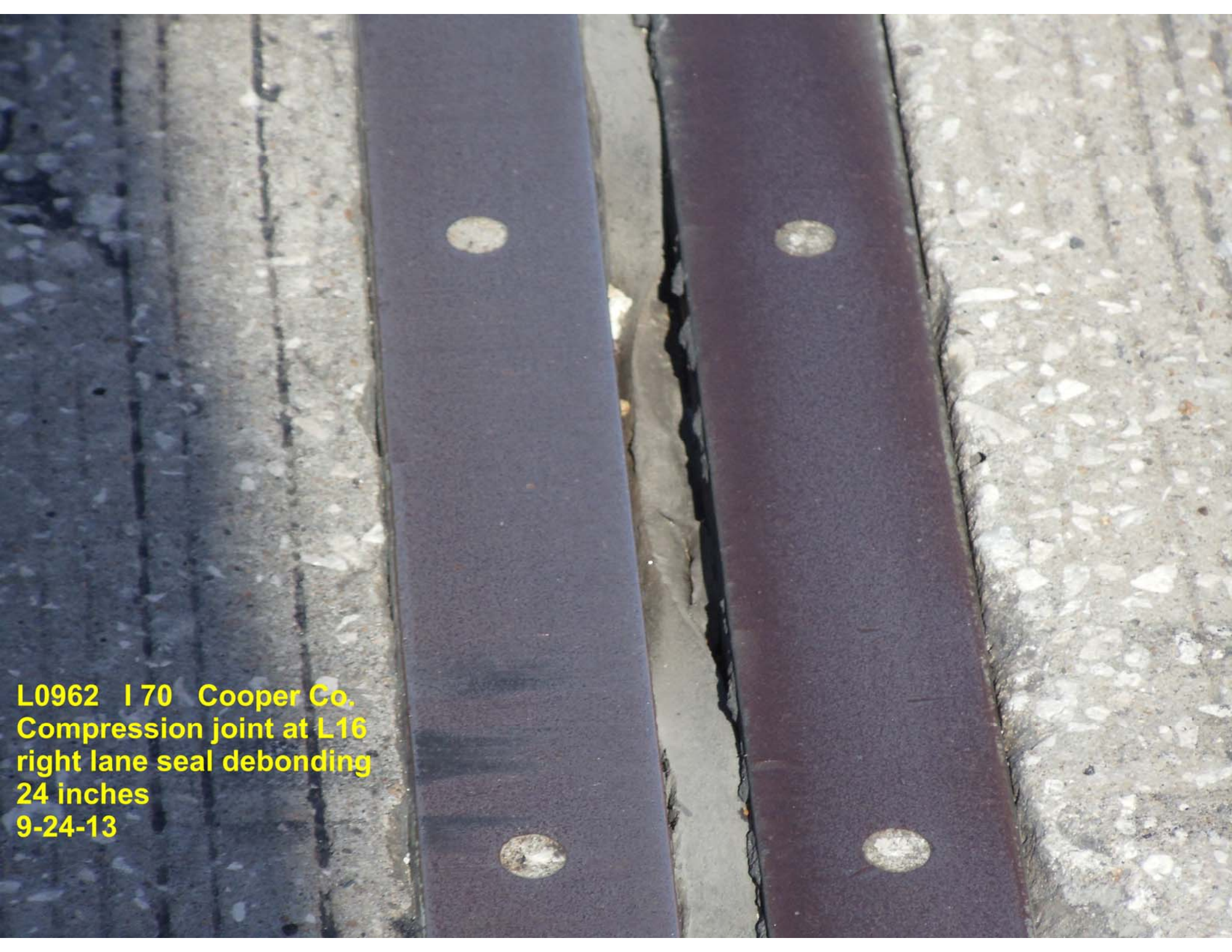
L0962 I 70 Cooper Co.  
Compression joint seal  
good condition L12  
9-24-13



L0962 I 70 Cooper Co.  
Barrier wall at L12 East  
side 1 inch low  
9-24-13







L0962 I 70 Cooper Co.  
Compression joint at L16  
right lane seal debonding  
24 inches  
9-24-13



L0962 I 70 Cooper Co.  
Compression joint at L19  
Right lane seal debonding  
12 inches  
9-24-13





L0962 I 70 Cooper Co.  
Pier cup at L20  
9-24-13





L0962 I 70 Cooper Co.  
Compression joint at L19  
good condition  
9-24-13







L0962 I 70 Cooper Co.  
Compression joint at L16  
good condition  
9-24-13



L0962 I 70 St. Louis City  
Compression joint at L12 armor  
nosing missing 36 inches of  
seal missing  
9-24-13







L0962 I 70 Cooper Co.  
Compression joint at L8  
good condition  
9-24-13





A close-up photograph of a metal compression joint. A dark, textured seal is visible in the center, flanked by two metal plates. The plate on the right is perforated with a grid of small holes. The joint appears to be part of a larger structure, possibly a bridge or a large container, with a rough, weathered surface.

L0962 170 Cooper Co.  
Compression joint at L4 seal  
debonding right lane 32 inches  
9-24-13





L0962 170 Cooper Co.  
Finger plate at L0  
good condition  
9-24-13





L0962 I 70 Cooper Co.  
Compression seal at East  
abutment splitting  
fair condition  
9-24-13






L0962 9-23-13  
PIER 15 ROCKERS  
ON STEP CAP TIPPED  
W ALMOST TO THE  
MAX



A photograph of a concrete pier, likely part of a bridge or dam structure. The pier is light-colored concrete and shows significant damage. A large, irregularly shaped section of the concrete surface is missing, exposing the internal structure. Within this exposed area, several vertical steel rebar rods are visible, some of which appear rusted. The surrounding concrete surface is marked with several thin, pinkish-red lines, possibly indicating the extent of the damage or planned repair areas. To the left, a portion of a metal structure, possibly a ladder or scaffolding, is visible against a clear blue sky. The lighting suggests it is daytime, with shadows cast across the pier's surface.

**L0962 9-23-13  
PIER 15 E SIDE OF CAP FACE  
W/LRG 6'X7' SPALL REBAR  
EXP & HVY DELAM**





L0962 9-23-13  
PIER 15 ELECTRICAL  
JUNCTION BOX OF  
NAV LIGHTS IS OPEN  
WIRES EXP

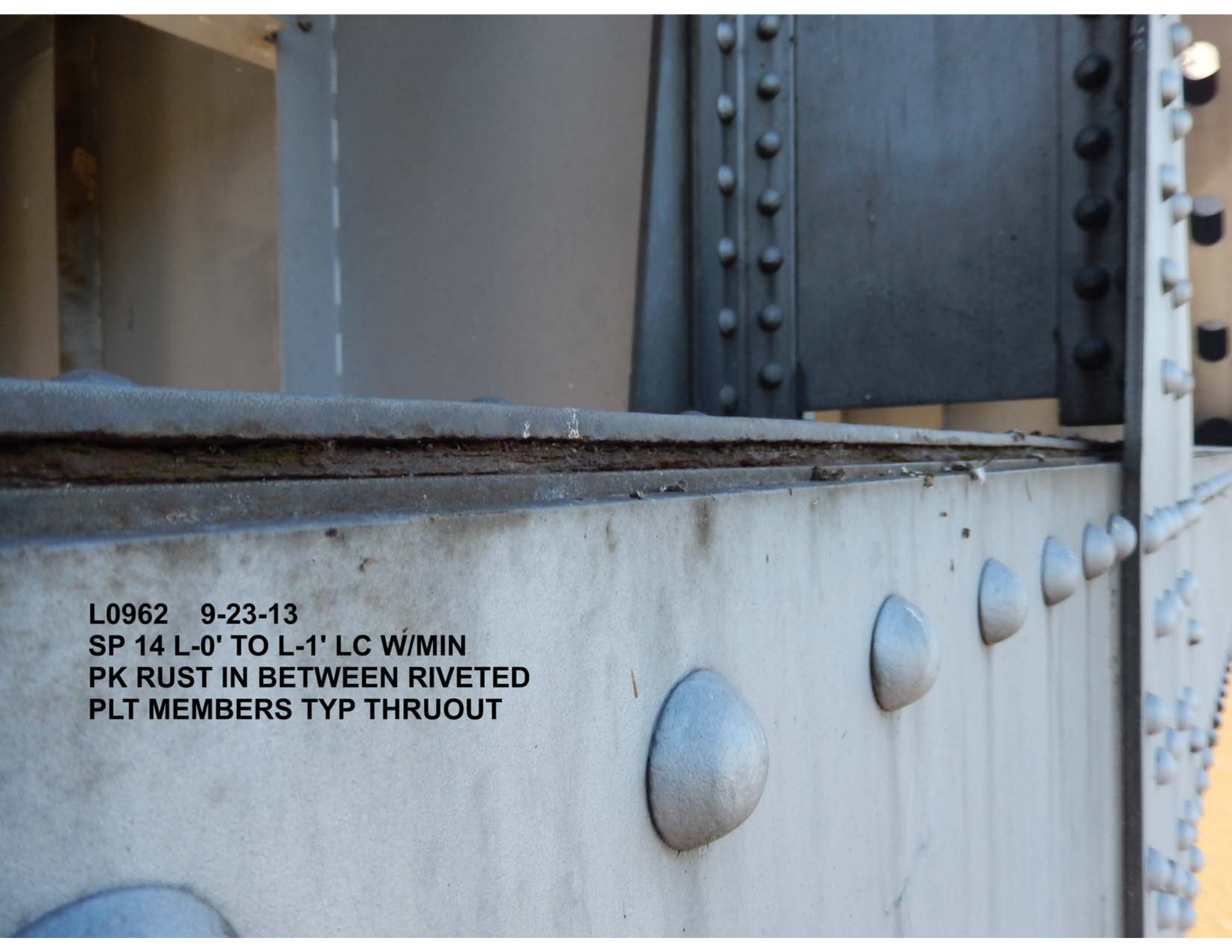
The image shows a close-up of an open electrical junction box mounted on a dark, metallic structure, likely part of a pier. Several wires are visible, some bundled together and others hanging loosely. The background shows a body of water and a distant shoreline under a bright sky. The text overlay provides a log entry for this observation.





**L0962 9-23-13**  
**SP 14 OVERALL VIEW**  
**LOOKING E**






A close-up photograph of a steel bridge structure. The image shows a horizontal steel beam with a visible joint where two sections meet. The joint area is heavily rusted and shows signs of wear. Several large, rounded rivets are visible on the surface of the beam. In the background, more rivets and the structure of the bridge are visible, though slightly out of focus.

**L0962 9-23-13  
SP 14 L-0' TO L-1' LC W/MIN  
PK RUST IN BETWEEN RIVETED  
PLT MEMBERS TYP THRUOUT**





**L0962 9-23-13  
SP 14 L-2' TO L-3' MED TO HVY  
PK RUST IN BETWEEN LC  
BUILT UP MEMBERS TYP  
THRUOUT**



L0962 9-23-13  
SP 14 L-9' LEFT LOWER GUSS  
DISTORTED DUE TO MIN PK  
RUST





**L0962 9-23-13**  
**SP 14 L-12' OVERALL**  
**VIEW OF SADDLE BRNGS**





L0962 9-23-13

SP 14 L-11' LEFT BTTM RIVET  
HEAD SHEARED OFF THRU  
INSIDE GUSS

Rivet  
head  
sheared  
off





L0962 9-23-13  
SP 14 L-12' FLBM BTTM FLNG  
W/MIN PK RUST & SL







L0962 9-23-13  
SP 14 PIER 14 ELECTRICAL  
JUNCTION BOX OF NAV  
LIGHTS W/EXP WIRES



A close-up photograph of a metal structure, likely an aircraft fuselage, showing a diagonal built-up angle. A rivet head on this angle is sheared off. The metal is light-colored with some rust and staining. Other rivets are visible along the angle and on a horizontal beam above it. A dark, semi-circular patch is also visible on the upper right.

**L0962 9-23-13  
SP 13 L-16 TO M-17 LEFT  
SIDE DIAG RIVET HEAD  
SHEARED OFF INSIDE  
BUILT UP ANGLE**





**L0962 9-24-13**  
**PIER 4 W SIDE TOP EDGE OF CAP**  
**W/LRG 4'X1' SPALL REBAR EXP**





**L0962 9-24-13  
PIER 4 E SIDE LRG  
DELAM AREAS  
W/SPALLS & MAP  
CRKS ON BEAM CAP**





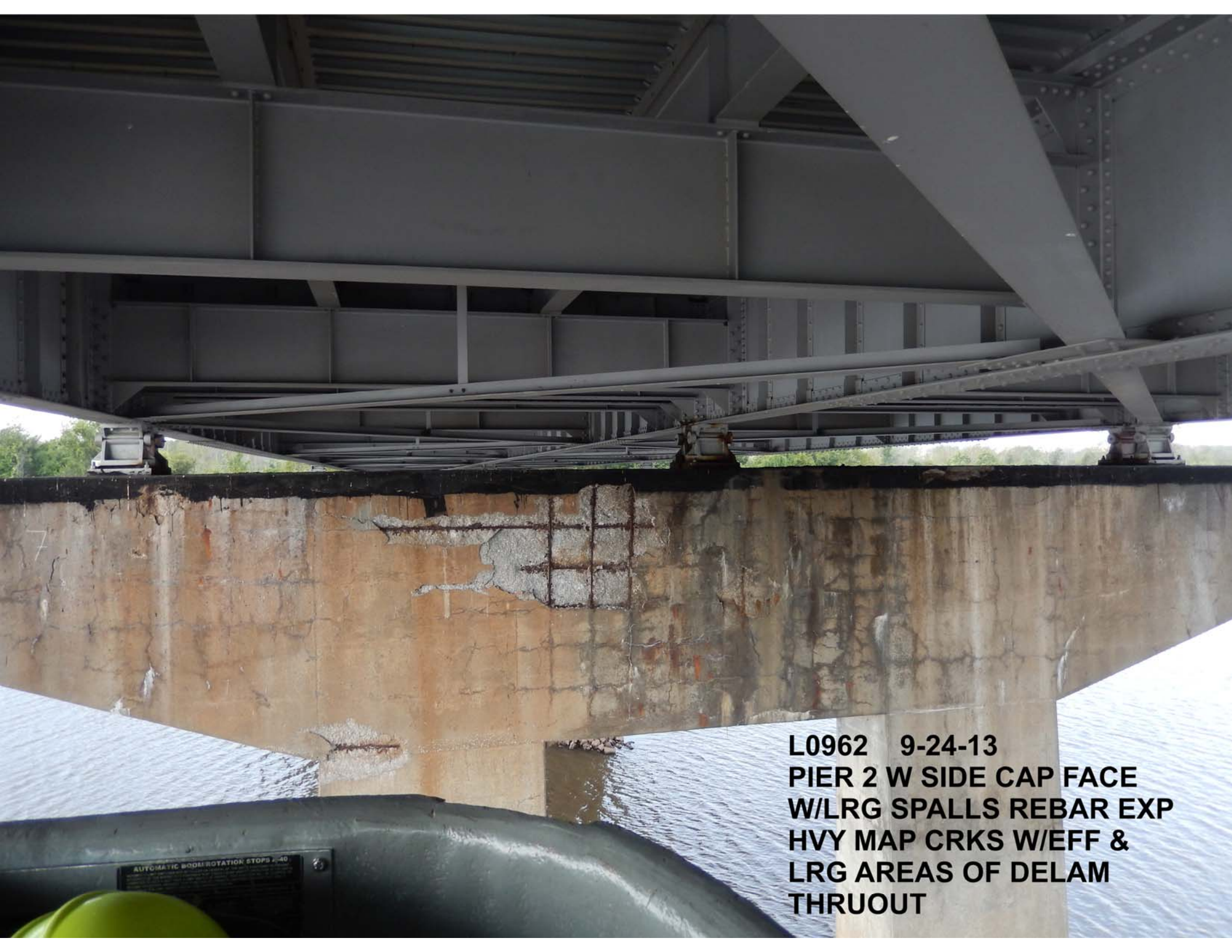
L0962 9-24-13  
S SIDE OF BRIDGE W/HVY  
AMOUNT OF BIRD DROPPINGS  
ON BTTM FLNG





**L0962 9-24-13**  
**PIER 2 W SIDE CAP FACE**  
**W/LRG SPALLS REBAR EXP**  
**HVY MAP CRKS W/EFF**  
**& LRG AREAS OF DELAM**  
**THRUOUT**





**L0962 9-24-13  
PIER 2 W SIDE CAP FACE  
W/LRG SPALLS REBAR EXP  
HVY MAP CRKS W/EFF &  
LRG AREAS OF DELAM  
THRUOUT**

**AUTOMATIC BOOM ROTATION STOPS #48**



**L0962 9-24-13  
PIER 7 FLBM W SIDE ALONG  
BTTM FLNG W/SL 30%- 50%  
REMAINING THRUOUT  
ENTIRE MEMBER**





**L0962 9-24-13  
PIER 7 FLBM W SIDE ALONG  
BTTM FLNG W/SL 30%- 50%  
REMAINING THRUOUT  
ENTIRE MEMBER**





**L0962 9-24-13  
PIER 7 FLBM W SIDE ALONG  
BTTM FLNG W/SL 30%- 50%  
REMAINING THRUOUT  
ENTIRE MEMBER**








**L0962 9-24-13  
PIER 13 W SIDE OF  
ENTIRE CAP FACE  
W/ HVY MAP CRKS  
& EFF & LRG AREAS  
OF DELAM**



An aerial photograph showing a large steel pier structure extending over a body of water. The pier is constructed from heavy steel beams with visible rivets. A concrete cap is visible at the end of the pier, with a red buoy attached to it. The water is a murky brown color. The text "L0962 9-24-13 PIER 14 S SIDE CAP NEEDS RESEALED" is overlaid on the bottom right of the image.


**L0962 9-24-13  
PIER 14 S SIDE  
CAP NEEDS  
RESEALED**



L0962 9-24-13  
SP 14 FLBM 19' E SIDE  
SL @ BTTM FLNG & WEB








The image shows a close-up of a metal structure, likely a bridge or industrial component, with a prominent area of rust and corrosion. The rust is a dark, flaky brown color, contrasting with the lighter, metallic surface. The structure consists of several parallel metal plates or beams, some of which are bolted together. The rust is concentrated along a joint or seam where two plates meet. The overall appearance is one of significant wear and degradation.

**L0962 9-24-13  
SP 14 L-16' RIGHT SIDE TOP FLNG  
OF FLBM W/MOD PK RUST**






A close-up photograph of a metal saddle on a rail. The saddle is a light-colored, possibly galvanized, metal plate. The rail is a darker, weathered metal. There is significant rust and debris at the interface between the saddle and the rail. The background is a light-colored, textured surface, possibly concrete or a wall. The lighting is bright, casting shadows.

L0962 9-24-13  
SP 14 L-16' SADDLE  
@ BRNG #9 W/HVY  
PK RUST






The image shows a close-up of a steel bridge structure. A horizontal steel beam is visible, with a red-painted plate attached to its top surface. The plate is bulging, and the rivets along the edge of the beam are visible. The background shows the underside of the bridge deck and other structural elements.


**L0962 9-24-13  
SP 14 L-16' - L-15' RIGHT  
TOP OF LC RIVETED CONN  
PLT BULGING DUE TO 1"  
PK RUST TYP THRUOUT  
ALL SPANS**





L0962 9-24-13  
SP 14 L-16' - L-15' RIGHT  
TOP OF LC RIVETED CONN  
PLT BULGING DUE TO 1"  
PK RUST TYP THRUOUT  
ALL SPANS





The image shows a close-up of a steel bridge structure, specifically a riveted connection plate. The plate is heavily corroded, with a thick layer of reddish-brown rust covering a significant portion of its surface. The rust is uneven, with some areas appearing more severely affected than others. The steel plate is bolted to a larger structural member, and the bolts are visible along the top edge. In the background, a river flows under the bridge, and a yellow support pier is visible. The sky is clear and blue.

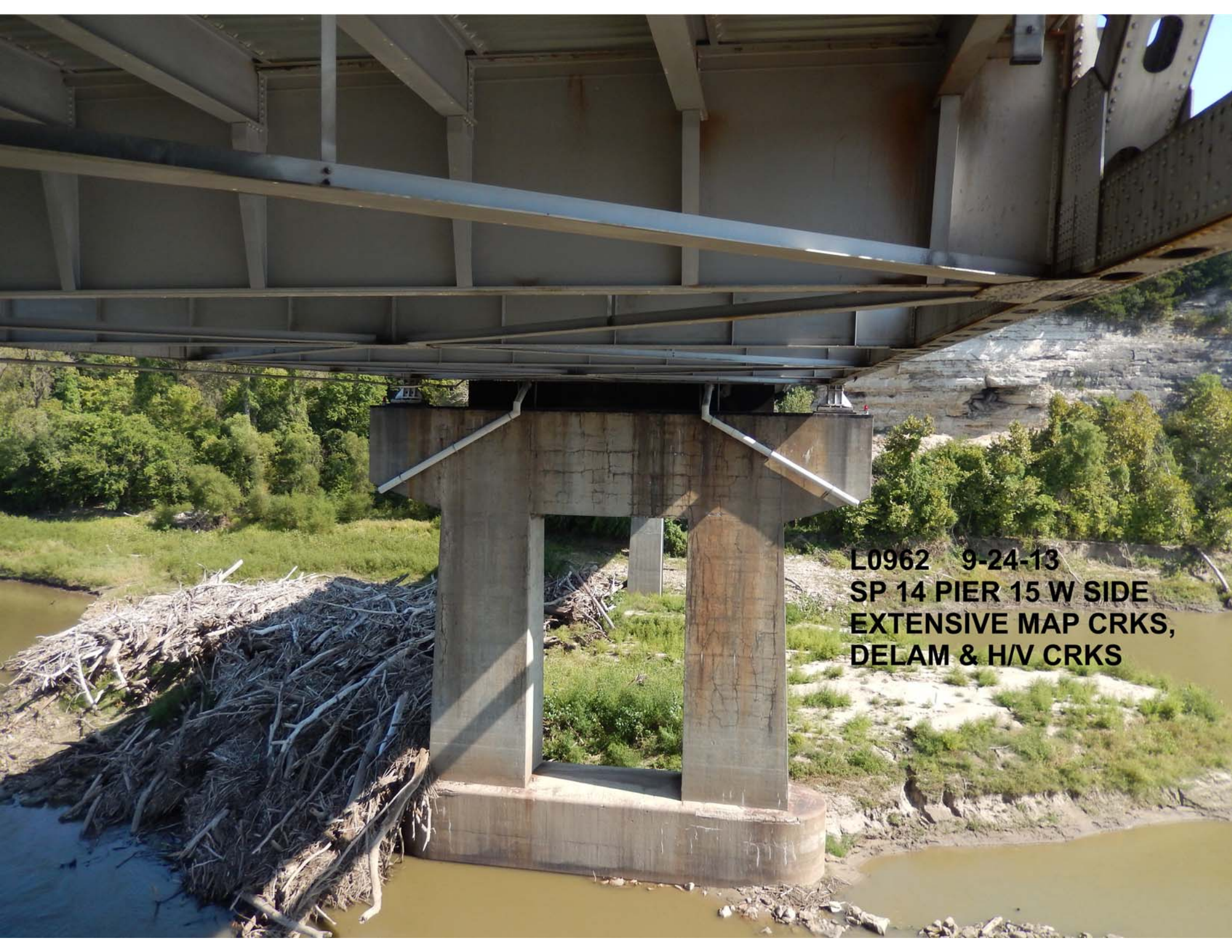
**L0962 9-24-13  
SP 14 L-14' RIGHT SIDE  
BTTM OF INSIDE LC  
RIVETED CONN PLT  
BULGING DUE TO 1"  
PK RUST TYP THRUOUT**





L0962 9-24-13  
SP 14 L-12' SADDLE @  
BRNG # 9 W/HVY PK  
RUST





**L0962 9-24-13  
SP 14 PIER 15 W SIDE  
EXTENSIVE MAP CRKS,  
DELAM & H/V CRKS**



L0962 9-24-13  
PIER 15 W SIDE OF  
STEP CAP W/3'X3'  
MIN SPALL REBAR  
EXP





**L0962      9-23-13 B**  
**TOP VIEW OF TRUSS**  
**LOOKING WEST**





**L0962      9-23-13 B**  
**SP 14 U-7' LEFT UPPER LATERAL**  
**W/ MINOR DISTORTION OF FLNG**





A close-up photograph of a steel bridge girder. The girder is light gray and features a series of rivets along its length. A gusset plate is visible, connecting the girder to another structural member. The rivets are arranged in a regular pattern, and the gusset plate is secured with multiple rows of rivets. The background shows some greenery and a clear sky.

**L0962      9-23-13 B**  
**SP 14 U-8' LEFT TOP GUSS**  
**W/ MINOR DISTORTION**



**L0962      9-23-13 B**  
**SP 14 L-15' LEFT W/ MINOR RUSTING**  
**& PAINT FADING TYPICAL THRUOUT**





**L0962      9-23-13 B**  
**SP 13 L-19 LEFT W/ FERN'S GROWING**  
**IN DIAG. CONNECTION PLATE**





**L0962      9-23-13 B**  
**SP 13 U-10 LEFT TOP GUSS**  
**W/ MINOR DISTORTION**






**L0962      9-23-13 B**  
**SP 13 U-7 LEFT W/ 3" RIP IN TOP GUSS**  
**NO CRK BEYOND DAMAGED AREA**







A close-up photograph of a metal gusset plate, likely part of a bridge or industrial structure. The plate is light gray and features a grid of raised, dome-shaped fasteners. A significant 3-inch rip is visible in the top edge of the plate. The background shows a steel truss structure and a road with yellow lane markings.

**L0962      9-23-13 B**  
**SP 13 U-7 LEFT W/ 3" RIP IN TOP GUSS**  
**NO CRK BEYOND DAMAGED AREA**





A close-up photograph of a metal bridge girder, likely made of steel, showing a significant rip in the top flange. The girder is covered in a grid of circular rivets. A dark shadow of a person is cast onto the lower part of the girder. In the background, a body of water and green trees are visible.

**L0962 9-23-13 B**  
**SP 13 U-7 LEFT W/ 3" RIP IN TOP GUSS**  
**NO CRK BEYOND DAMAGED AREA**



L0962 9-23-13 B  
SP 13 L-3 LEFT W/ MINOR  
COLLISION DAMAGE

L 3



**L0962      9-23-13 B**  
**SP 13 L-15 LEFT W/ MINOR**  
**COLLISION DAMAGE**

**L15**





L0962 Cooper 70 E 8/24/15  
Deck east to west






**L0962 Cooper 70 E 8/24/15**  
**Abut 18 strip seal**  
**expansion joint**  
**starting to tear**





A close-up photograph of a metal expansion joint. Two vertical metal plates are joined by a central strip seal. The seal is made of a dark, textured material, possibly rubber or a composite, and shows signs of wear and tearing, particularly along the edges. The metal plates have a ribbed texture. The lighting is bright, casting shadows that highlight the texture of the metal and the seal.

**L0962 Cooper 70 E 8/24/15**  
**Abut 18 strip seal**  
**expansion joint**  
**starting to tear**



**L0962 Cooper 70 E 8/24/15**  
**North side profile**





**L0962 Cooper 70 E 8/24/15**  
**Abut 18 rockers**  
**tipped west seal**  
**peeling spalls few in cap**







**L0962 Cooper 70 E 8/24/15**  
**Abut 18 outer edge of**  
**cap delamed throghout**



**L0962 Cooper 70 E 8/24/15**  
**Abut 18 bolts replaced**  
**in sole plate at girder 1**





**L0962 Cooper 70 E 8/24/15**  
**Span 16 north side of girder 2**  
**with moderate rusting**  
**in bottom of SIP form**



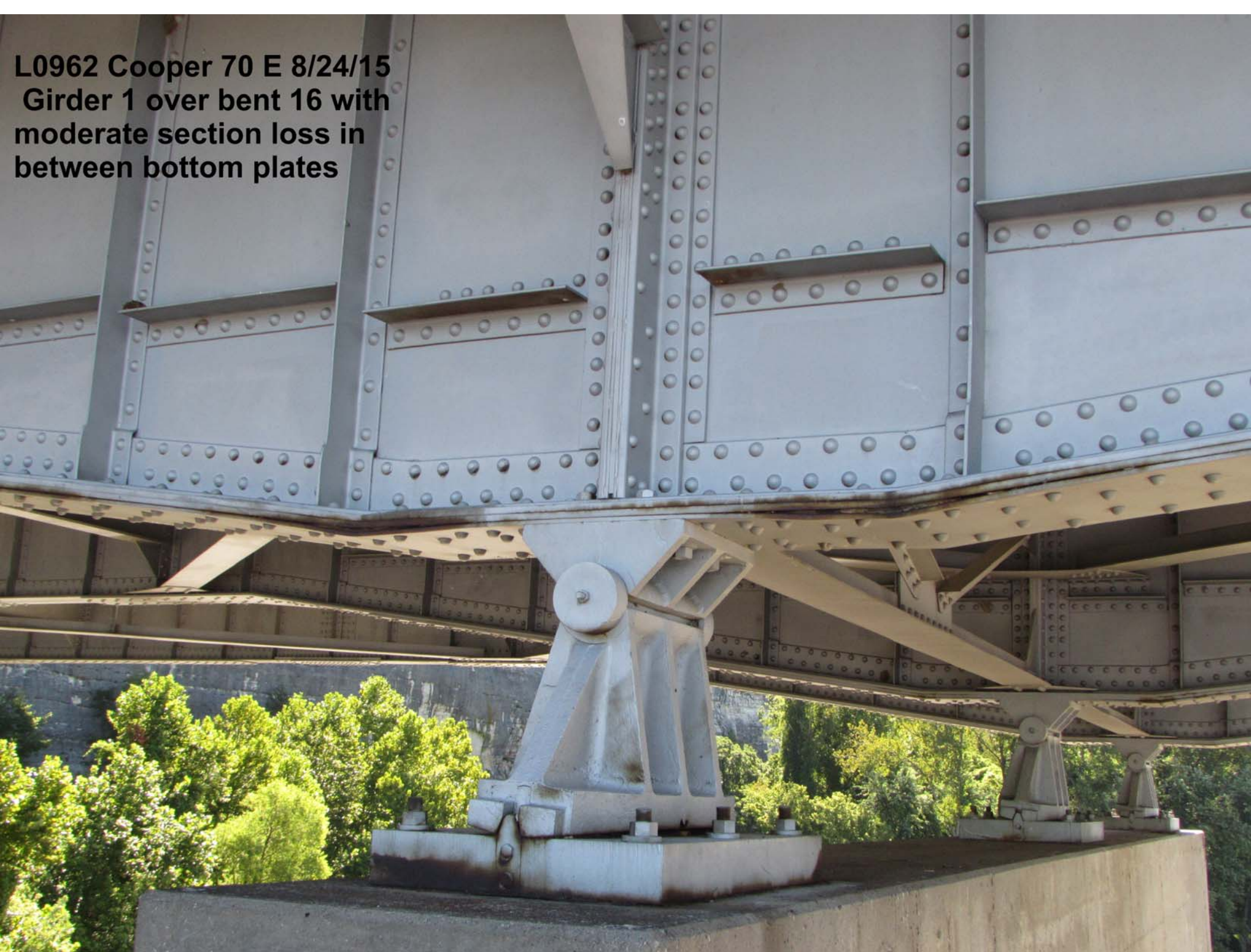


**L0962 Cooper 70 E 8/24/15**  
**Debris piled up north**  
**side of piers 15 and 16**





**L0962 Cooper 70 E 8/24/15**  
**Girder 1 over bent 16 with**  
**moderate section loss in**  
**between bottom plates**







**L0962 Cooper 70 E 8/24/15  
Pier 15 east side with large  
spalls with rebar exposed and large  
map cracking throughout  
caps and columns**





**L0962 Cooper 70 E 8/24/15  
Pier 15 girder 2 rocker with  
minor rust moderate leaning  
to west typical throughout rockers**



**L0962 Cooper 70 E 8/24/15**  
**Top view of**  
**open joint pier 15**







L0962 Cooper 70 E 8/24/15  
Pier 15 west side view  
heavy map cracking with  
moderate efflorescence



**L0962 Cooper 70 E 8/24/15**  
**Span 14 stringer 9**  
**heavy pack rust and**  
**minor sec loss 80**  
**percent remaining**








**L0962 Cooper 70 E 8/24/15**  
**Span 14 underside**  
**view of deck**



**L0962 Cooper 70 E 8/24/15**  
**Span 14 L1' left side**  
**minor pack rust distorting**  
**gusset at lower chord**  
**and bottom floorbeam**







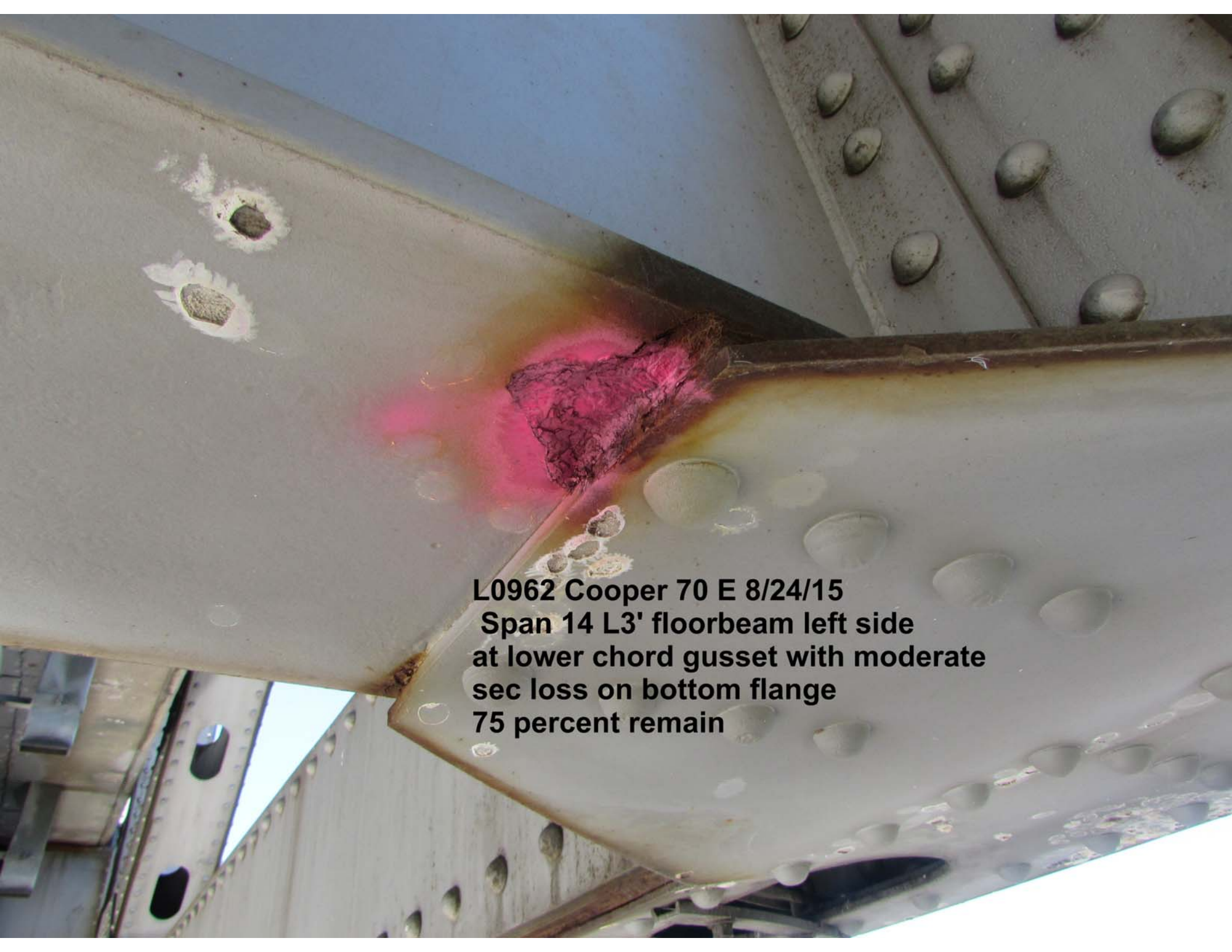
**L0962 Cooper 70 E 8/24/15**  
**Span 14 L2' to L3' lower chord**  
**left side hvy pack rust**  
**between top plates**  
**and channels**



**L0962 Cooper 70 E 8/24/15**  
**Span 14 L3' left side outer**  
**gusset with moderate pack rust**  
**between vertical and gusset**





A close-up photograph of a steel beam connection. A red laser line is projected onto a crack in the lower chord gusset. The crack is a jagged, dark line. The steel beam has several circular holes along its length. The background shows other steel beams and rivets.

**L0962 Cooper 70 E 8/24/15**  
**Span 14 L3' floorbeam left side**  
**at lower chord gusset with moderate**  
**sec loss on bottom flange**  
**75 percent remain**



**L0962 Cooper 70 E 8/24/15**  
**Span 14 L3' stringer 5**  
**hvy pack rust**  
**raised stringer 3/4 inch**





L0962 Cooper 70 E 8/24/15  
Span 14 L3' stringer 4  
hvy pack rust  
raised 3/8 inch






**L0962 Cooper 70 E 8/24/15**  
**Span 14 L4' floorbeam stringer 1**  
**saddle bearing with hvy**  
**pack rust lifting stringer 1 inch**







The image shows a close-up of a steel floorbeam in a bridge structure. The beam is a wide-flange section, and the top flange is visible. There are several bolts securing the beam to the structure. The top flange shows signs of minor rust, which is noted in the text. The background shows the corrugated metal deck of the bridge.

**L0962 Cooper 70 E 8/24/15**  
**Span 14 L4' floorbeam**  
**minor rusting at top flange**



**L0962 Cooper 70 E 8/24/15**  
**Span 14 L3' floorbeam center**  
**lower lateral connection with**  
**hvy pack rust between bottom**  
**flange and connection plate**







**L0962 Cooper 70 E 8/24/15**  
**Span 14 L4' expansion**  
**joint west bound side**  
**18 inches falling out**



**L0962 Cooper 70 E 8/24/15**  
**Span 14 L4' expansion**  
**joint west bound side**  
**18 inches falling out**







**L0962 Cooper 70 E 8/24/15**  
**Span 12 bent 13**  
**hvy debris in diaper**






**L0962 Cooper 70 E 8/24/15  
Bent 13 with large  
amount of debris  
spilling out of diaper**





**L0962 Cooper 70 E 8/24/15  
Span 12 bent 13 girder 2  
rocker with hvy pack rust and  
moderate sec loss on masonry plate**





**L0962 Cooper 70 E 8/24/15  
Bent 12 north cap end  
map cracking throughout**





**L0962 Cooper 70 E 8/24/15  
Bent 10 east side view large  
area of map cracking and delamination  
spalls with hvy efflorescence**



**L0962 Cooper 70 E 8/24/15**  
**Bent 10 girder 2 with hvy**  
**pack rust at cantilever**  
**area typical throughout**








**L0962 Cooper 70 E 8/24/15**  
**Bent 10 west side view**



A close-up photograph of a steel bridge structure, specifically a lower chord. The image shows a series of large, rounded rivets arranged in a grid pattern on a light-colored steel plate. The rivets are slightly raised and show some signs of wear. The steel plate itself has a mottled appearance with some darker areas, particularly near the rivets, which are noted in the text as having heavy pack rust. The bridge structure is positioned over a body of water, which is visible in the lower right corner of the frame. The water is a murky, yellowish-brown color. The overall scene is a detailed view of the bridge's construction and its condition.

**L0962 Cooper 70 E 8/24/15**  
**Span 14 L6' to L7' left side**  
**lower chord with hvy pack rust**  
**between top plate and channels**



**L0962 Cooper 70 E 8/24/15**  
**Span 14 L7' floorbeam**  
**with hvy pack rust between**  
**bottom flange and center**  
**lower left gusset typical throughout**



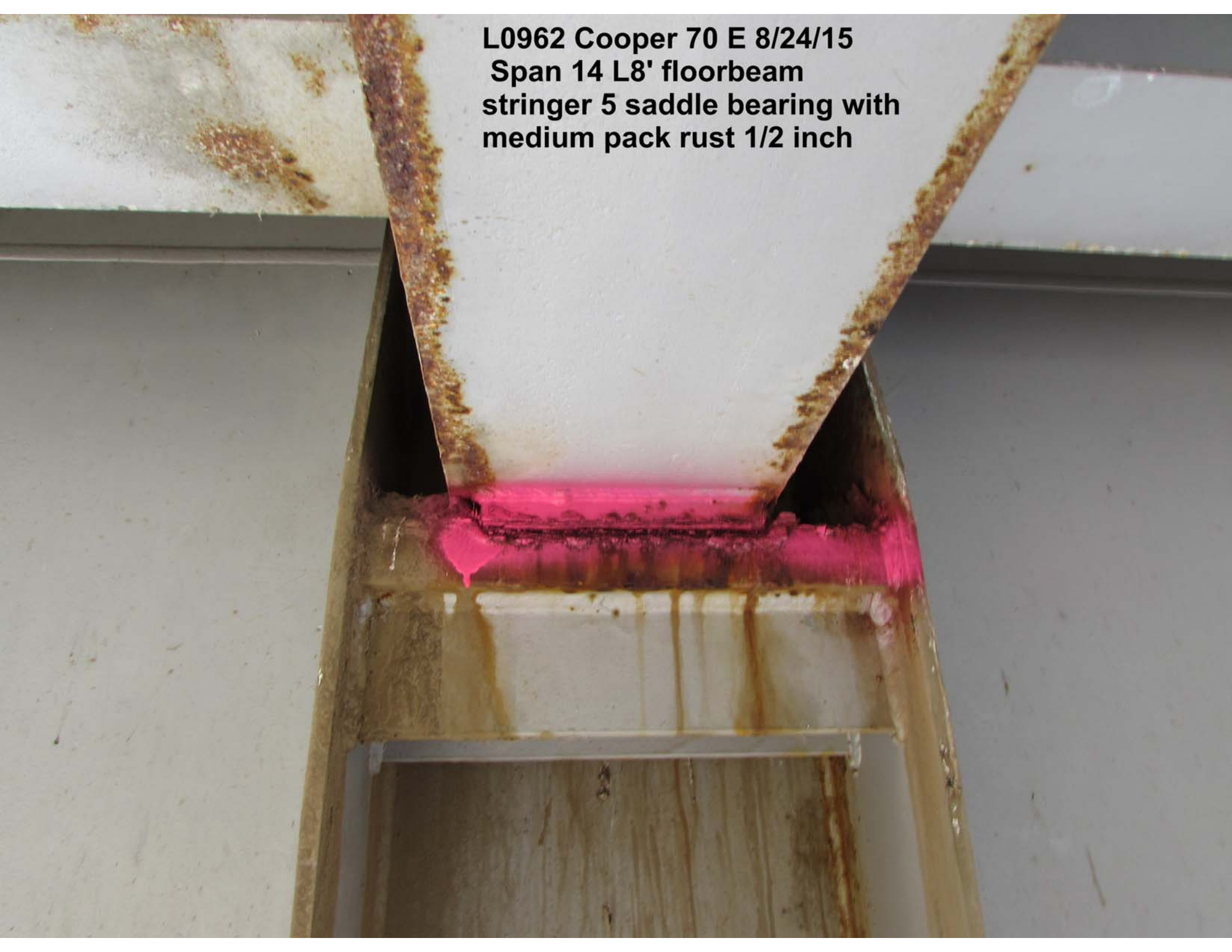




**L0962 Cooper 70 E 8/24/15  
Span 14 L8' floorbeam  
with moderate pack rust in web  
and bottom flange under  
stringer 5 saddle bearing**



**L0962 Cooper 70 E 8/24/15**  
**Span 14 L8' floorbeam**  
**stringer 5 saddle bearing with**  
**medium pack rust 1/2 inch**





**L0962 Cooper 70 E 8/24/15**  
**Span 14 L8' floorbeam**  
**stringer 1 saddle bearing**  
**with hvy pack rust 1 inch**





**L0962 Cooper 70 E 8/24/15**  
**Span 14 L9' left outer**  
**gusset with hvy pack rust**  
**between vertical and gusset**





**L0962 Cooper 70 E 8/24/15**  
**Span 13 L18 floorbeam**  
**east side with minor rust**  
**on web and bottom flange**



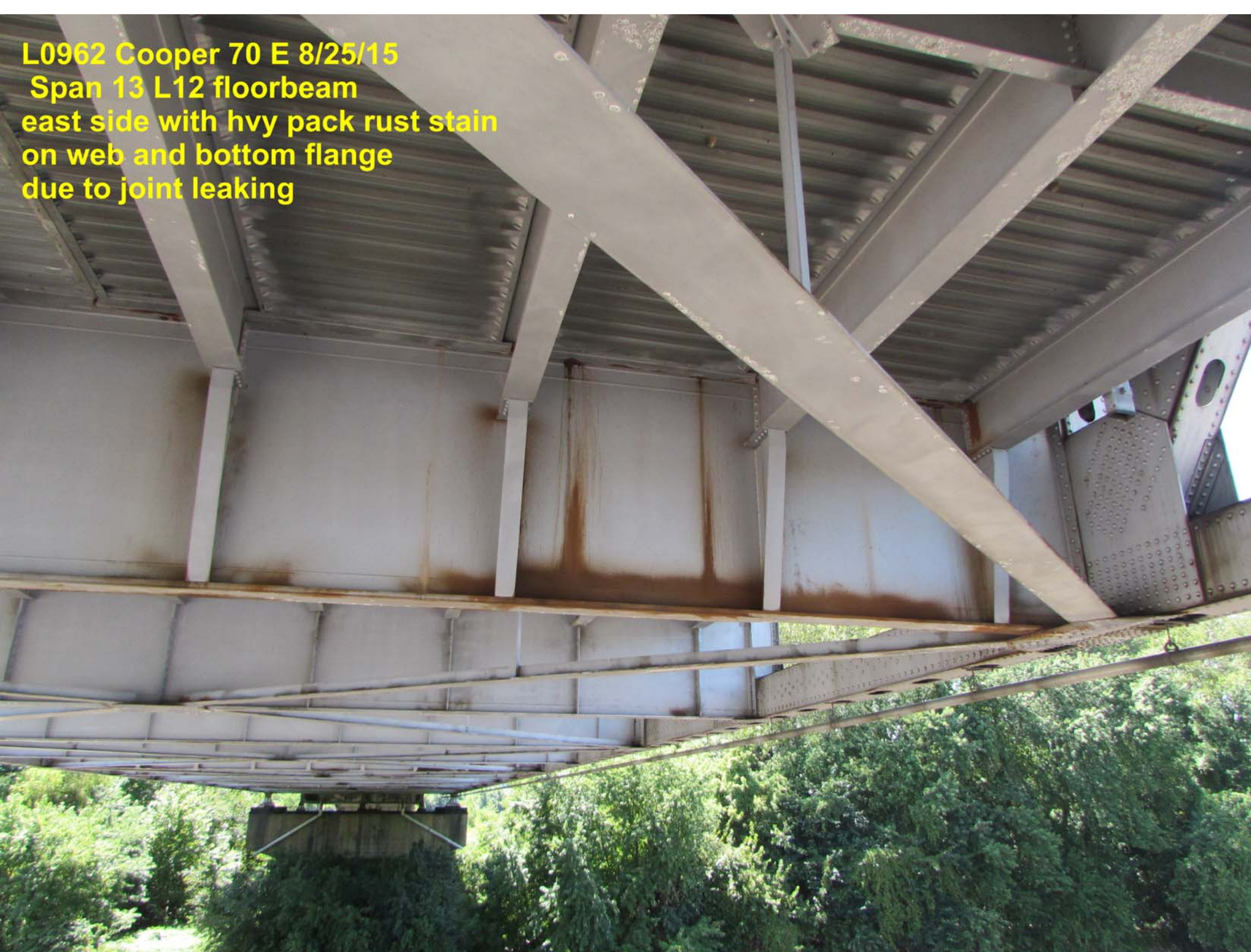




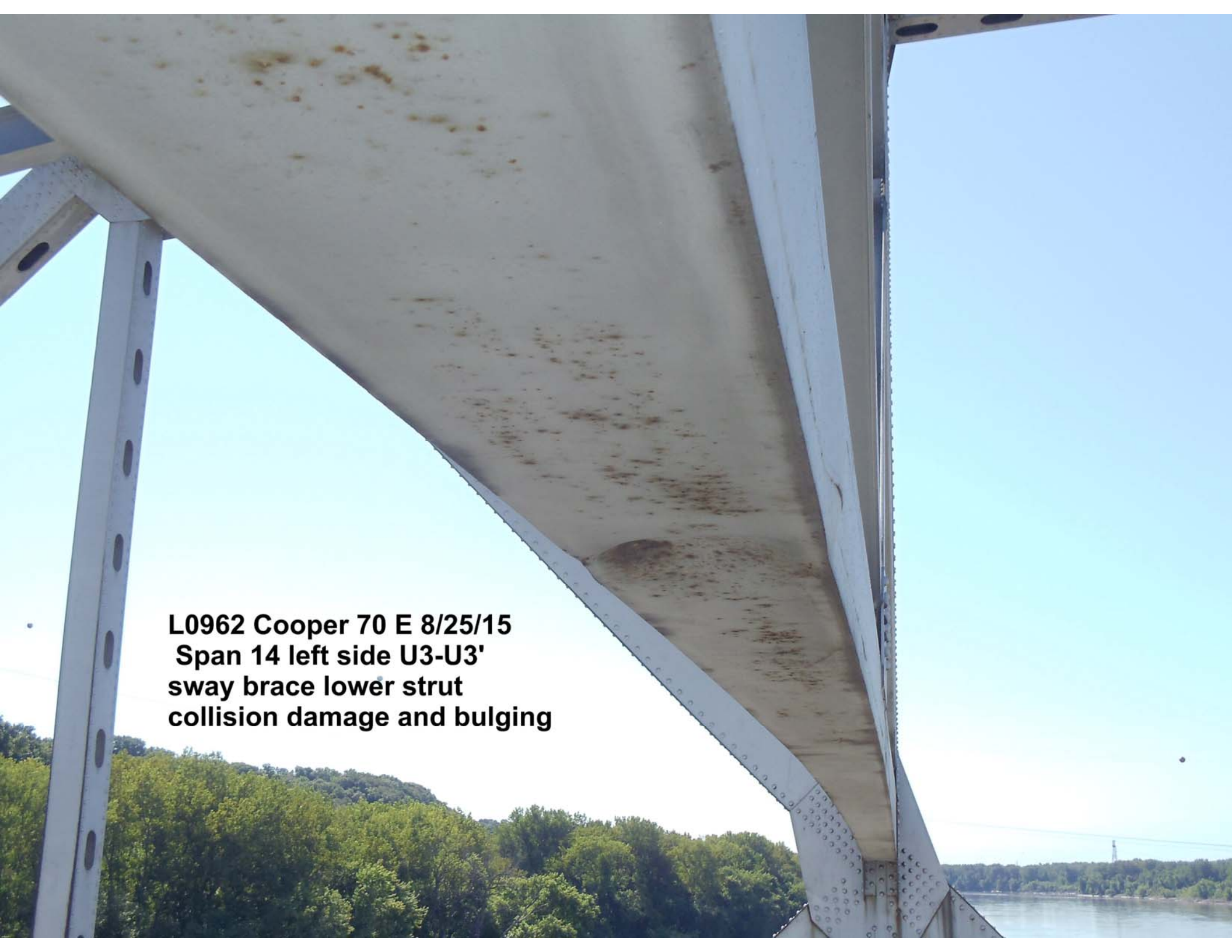
**L0962 Cooper 70 E 8/24/15**  
**Span 13 L16 floorbeam**  
**with minor pack rust**  
**on all saddle bearings**



L0962 Cooper 70 E 8/25/15  
Span 13 L12 floorbeam  
east side with hvy pack rust stain  
on web and bottom flange  
due to joint leaking





A close-up photograph of a bridge's lower sway brace strut. The strut is a large, light-colored metal beam with visible rivets along its edges. It shows significant damage, including a large, dark, irregular bulge and several smaller, brownish spots of corrosion or paint damage. The background shows a clear blue sky, a dense line of green trees, and a body of water in the distance.

**L0962 Cooper 70 E 8/25/15  
Span 14 left side U3-U3'  
sway brace lower strut  
collision damage and bulging**



**L0962 Cooper 70 E 8/25/15**  
**Span 14 left side U3-U3'**  
**sway brace lower strut**  
**collision damage and bulging**

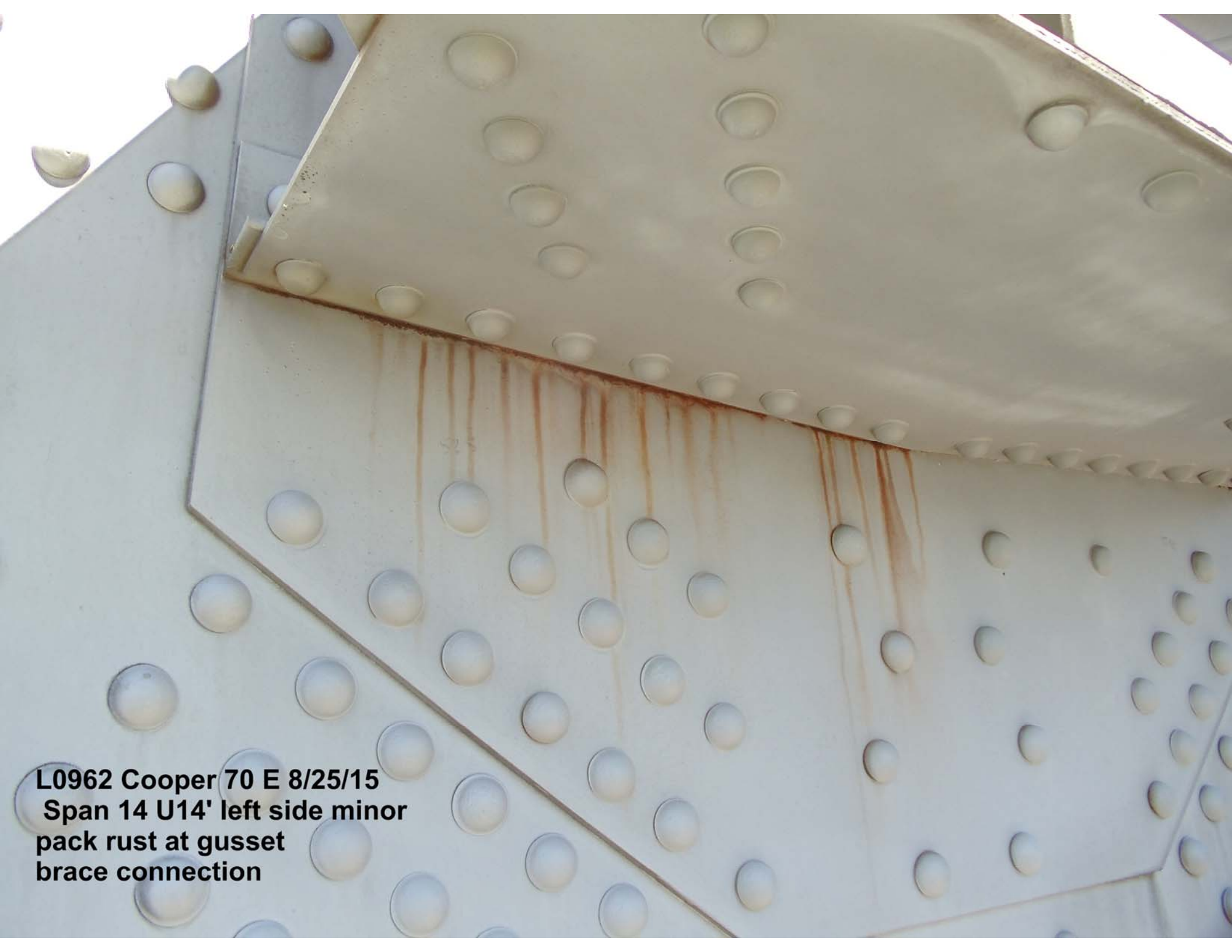




**L0962 Cooper 70 E 8/25/15**  
**Span 14 left side U3-U3' sway**  
**brace lower strut collision**  
**damage and bulging**





A close-up photograph of a steel gusset plate connection. The image shows two large, light-colored steel plates with a regular grid of circular bolt holes. A diagonal line of bolts separates the two plates. Along this line, there are several vertical, reddish-brown streaks of rust that have run down the surface of the lower plate. The background is a clear, bright sky.

**L0962 Cooper 70 E 8/25/15**  
**Span 14 U14' left side minor**  
**pack rust at gusset**  
**brace connection**



**L0962 Cooper 70 E 8/25/15**  
**Span 14 U19' left side**  
**top gusset with**  
**minor distortion**





**L0962 Cooper 70 E 8/25/15**  
**Span 14 U19' left side top**  
**gusset with minor distortion**





**L0962 Cooper 70 E 8/25/15**  
**Span 13 L20-U20 vertical**  
**minor pack rust at**  
**riveted connections**

**L20**






**L0962 Cooper 70 E 8/25/15**  
**Span 13 U15 left side**  
**minor distortion**  
**of top gusset**





A close-up photograph of a steel bridge gusset connection. The steel plates are perforated with a grid of circular holes. Several vertical streaks of brown rust are visible on the central vertical plate, extending from the top connection point downwards. The lighting is bright, casting shadows that emphasize the texture of the steel and the pattern of the holes.

**L0962 Cooper 70 E 8/25/15  
Span 13 U14 left side minor  
pack rust brace to gusset connection**



**L0962 Cooper 70 E 8/25/15**  
**Span 13 U10 left side minor**  
**distortion of top gusset**







**L0962 Cooper 70 E 8/25/15**  
**Span 13 M9 left**  
**side paint peeling**



**L0962 Cooper 70 E 8/25/15**  
**Span 13 U9 left side**  
**minor distortion**  
**of top gusset**





L0962 Cooper 70 E 8/25/15  
Span 13 M3-L4 left  
side diagonal minor pack  
rust at riveted connection





**L0962 Cooper 70 E 8/25/15**  
**Span 13 M3-L4 left side**  
**diagonal minor pack rust**  
**at riveted connection**



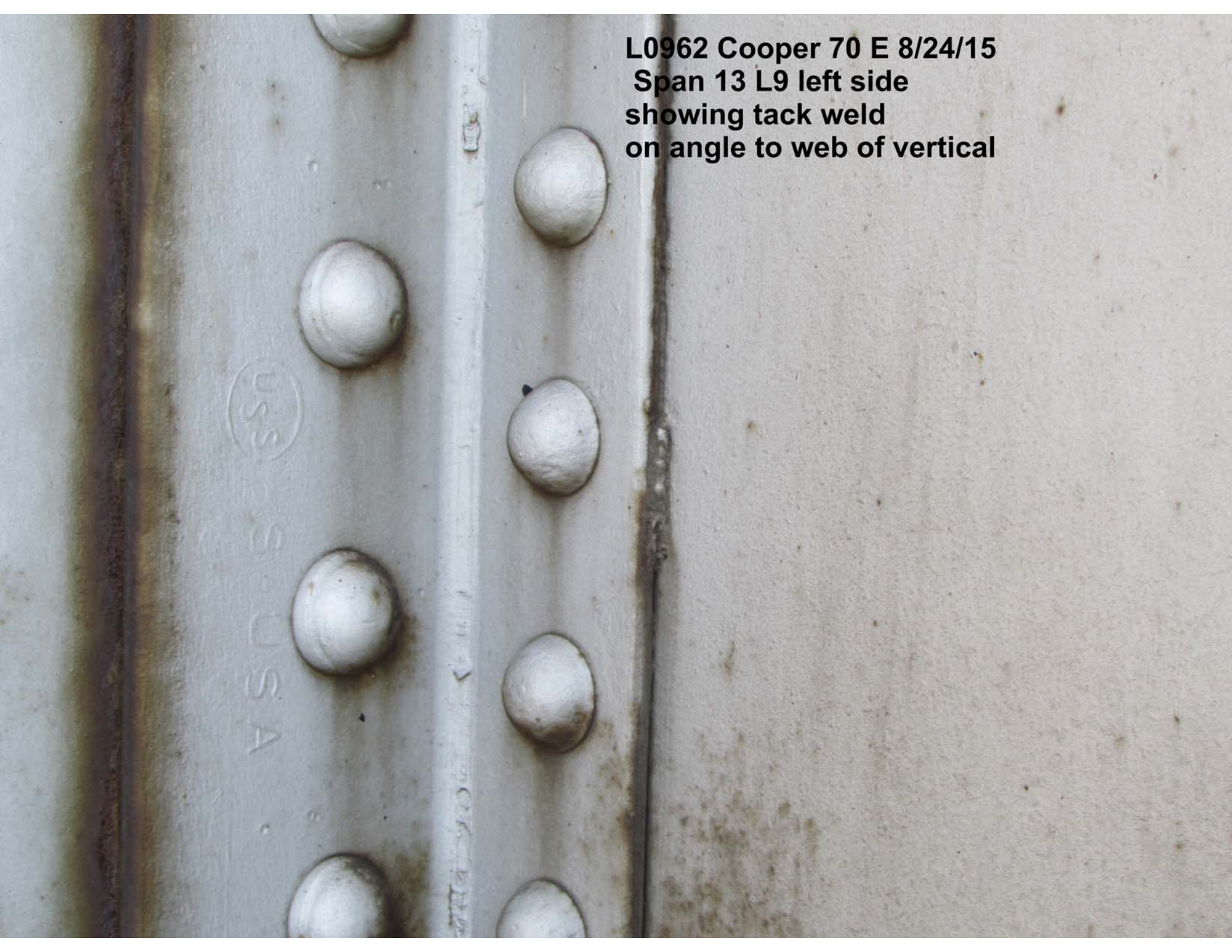


**L0962 Cooper 70 E 8/24/15**  
**Span 13 L11 left lower**  
**gusset hvy pack rust**  
**distorting gusset**





**L0962 Cooper 70 E 8/24/15  
Span 13 L9 left side  
showing tack weld  
on angle to web of vertical**

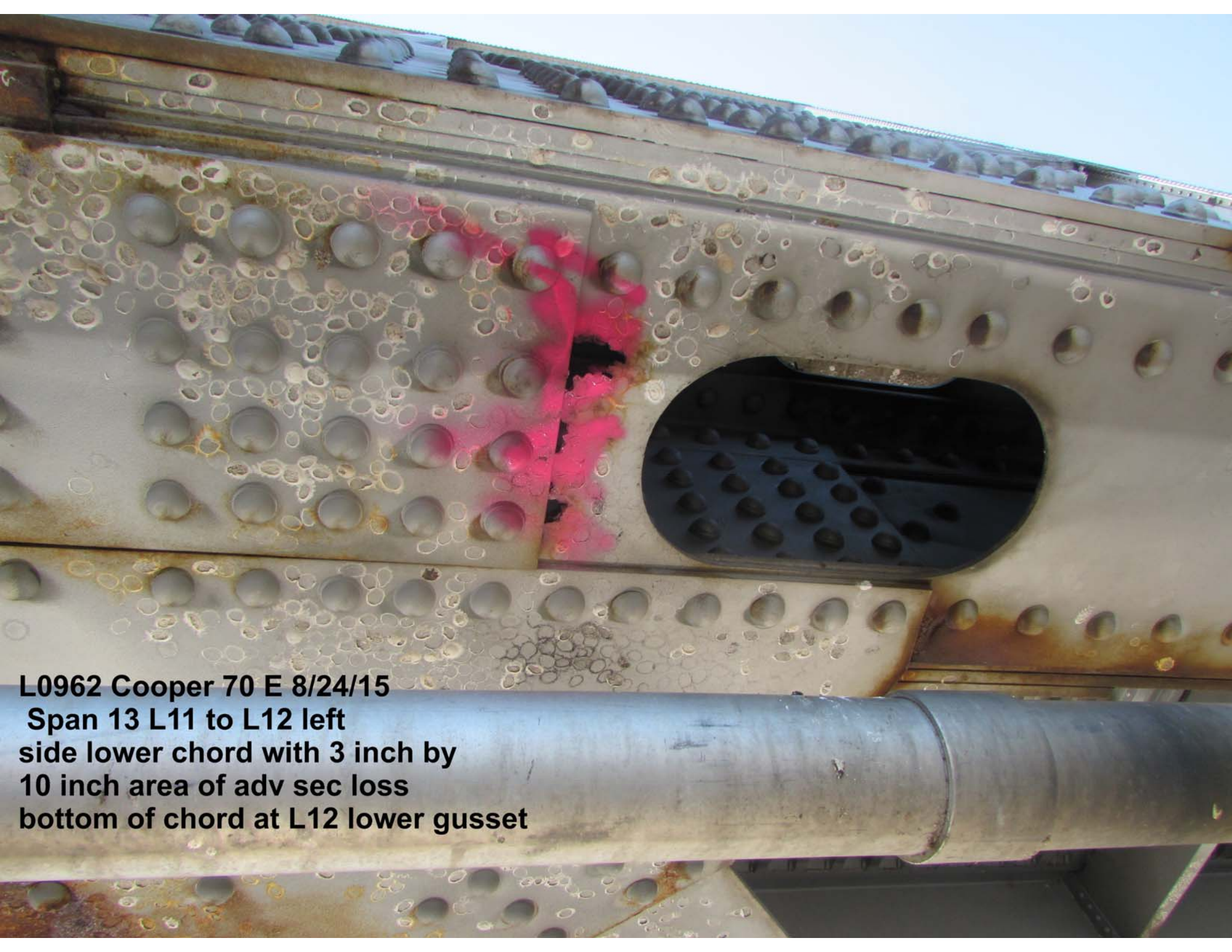




**L0962 Cooper 70 E 8/24/15**  
**Span 13 L12 floorbeam**  
**stringer 3 saddle bearing with**  
**minor rust typical on all bearings**







**L0962 Cooper 70 E 8/24/15**  
**Span 13 L11 to L12 left**  
**side lower chord with 3 inch by**  
**10 inch area of adv sec loss**  
**bottom of chord at L12 lower gusset**





**L0962 Cooper 70 E 8/24/15  
Span 13 L4 floorbeam west  
side with moderate pack rust in  
web and bottom flange under  
stringer 5 saddle bearing**

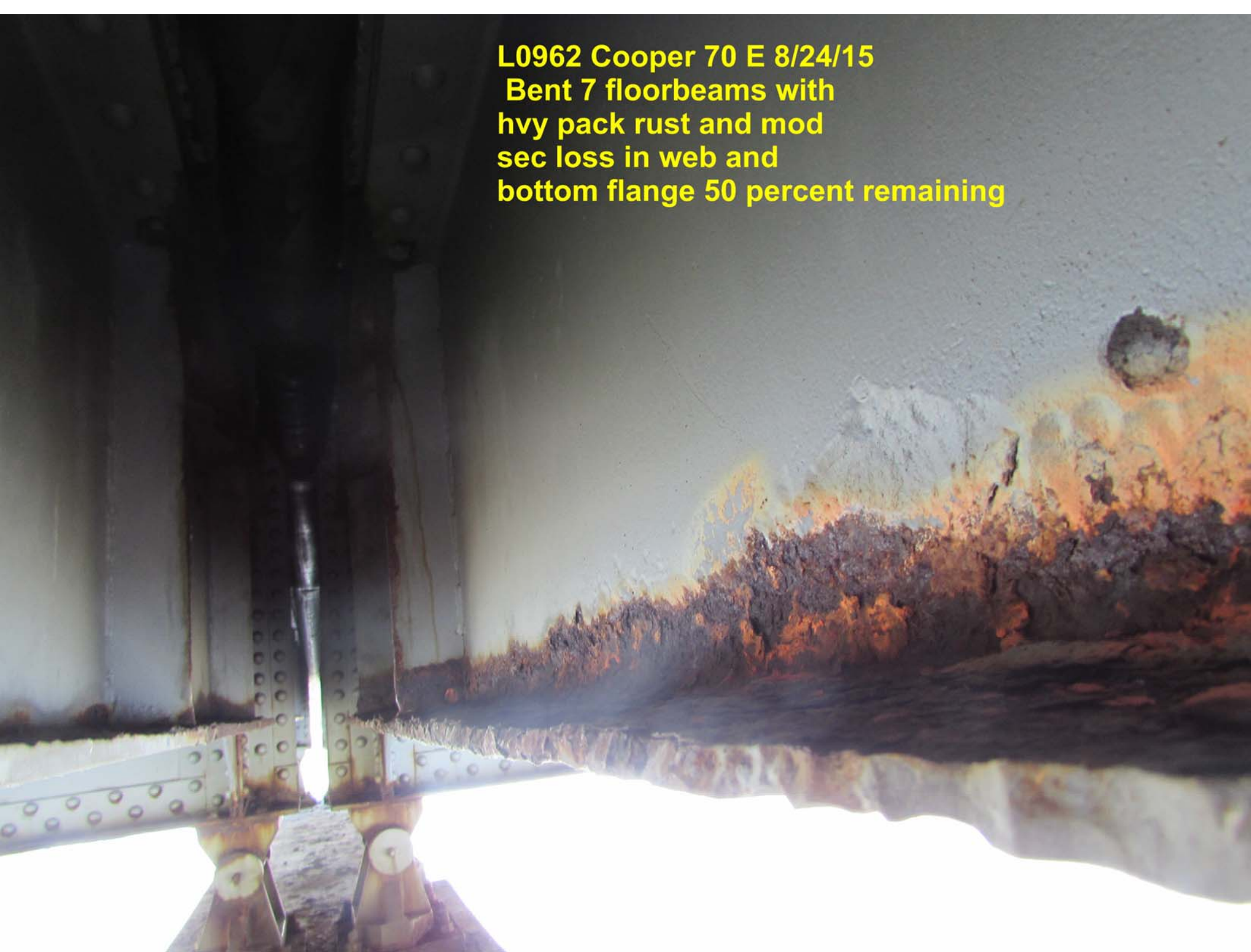





**L0962 Cooper 70 E 8/24/15**  
**Bent 7 span 7 east**  
**side overall view of bent with**  
**map cracking throughout and**  
**large spall with rebar exposed**



**L0962 Cooper 70 E 8/24/15**  
**Bent 7 floorbeams with**  
**hvy pack rust and mod**  
**sec loss in web and**  
**bottom flange 50 percent remaining**







**L0962 Cooper 70 E 8/24/15**  
**Bent 7 span 6 west**  
**side view of bent 7 with map cracking**  
**throughout and large spalls**  
**with rebar exposed**





**L0962 Cooper 70 E 8/24/15  
Bent 4 span 5 east side  
view with map cracking  
throughout and spalls  
with rebar exposed**





**L0962 Cooper 70 E 8/24/15**  
**Bent 4 rockers and floorbeam**  
**with hvy pack rust and**  
**sec loss with 50 percent**  
**remaining**





**L0962 Cooper 70 E 8/24/15**  
**Abut 1 rocker with**  
**hvy pack rust and**  
**H crack along abut**





**L0962 Cooper 70 E 8/24/15**  
**Span 1 trees**  
**growing into bridge**





L0962 Cooper 70 E 8/24/15  
Span 1 trees and  
shrubby growing  
into bridge



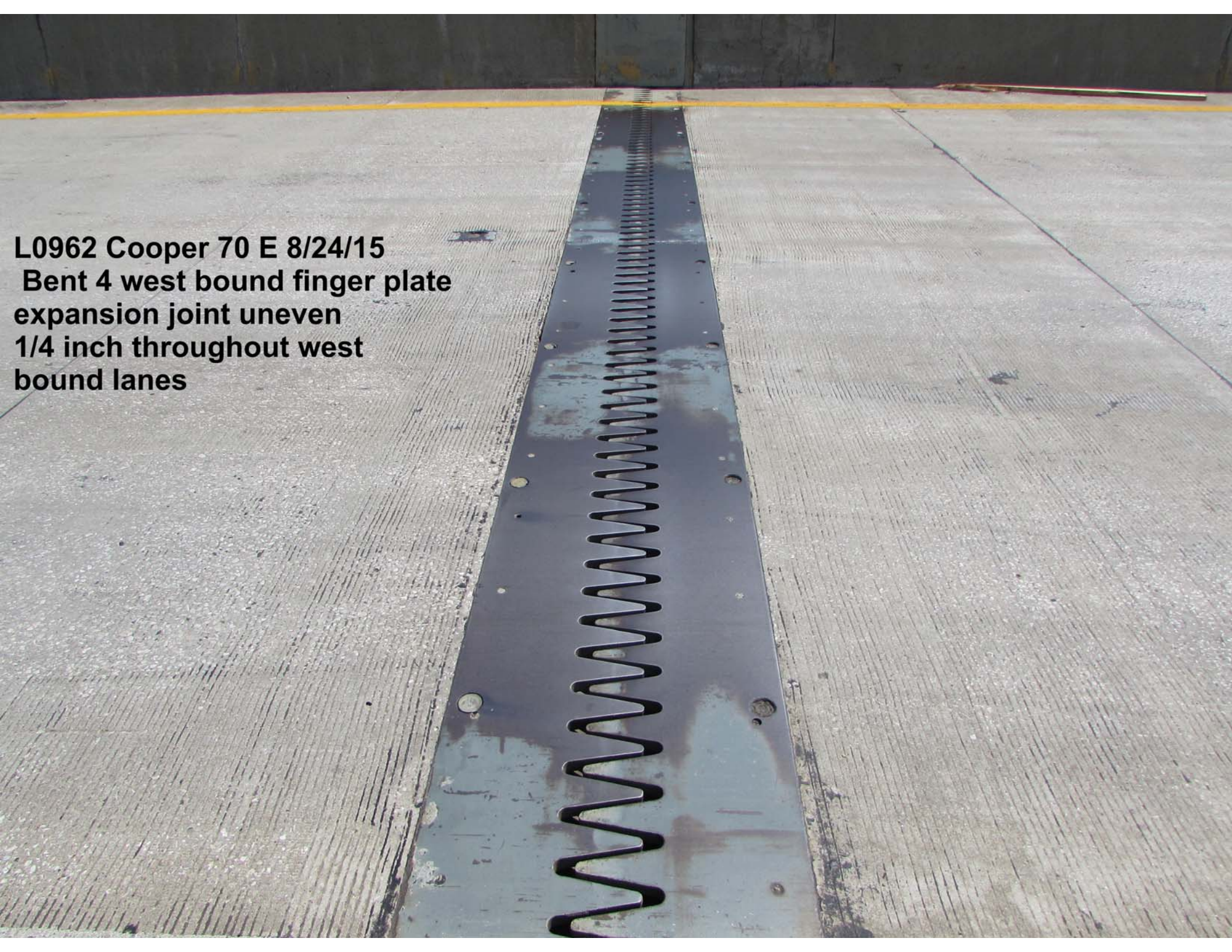
**L0962 Cooper 70 E 8/24/15**

**Abut 1 west bound comp seal  
expansion joint nosing broken loose  
in driving lane and  
loose in passing lane**



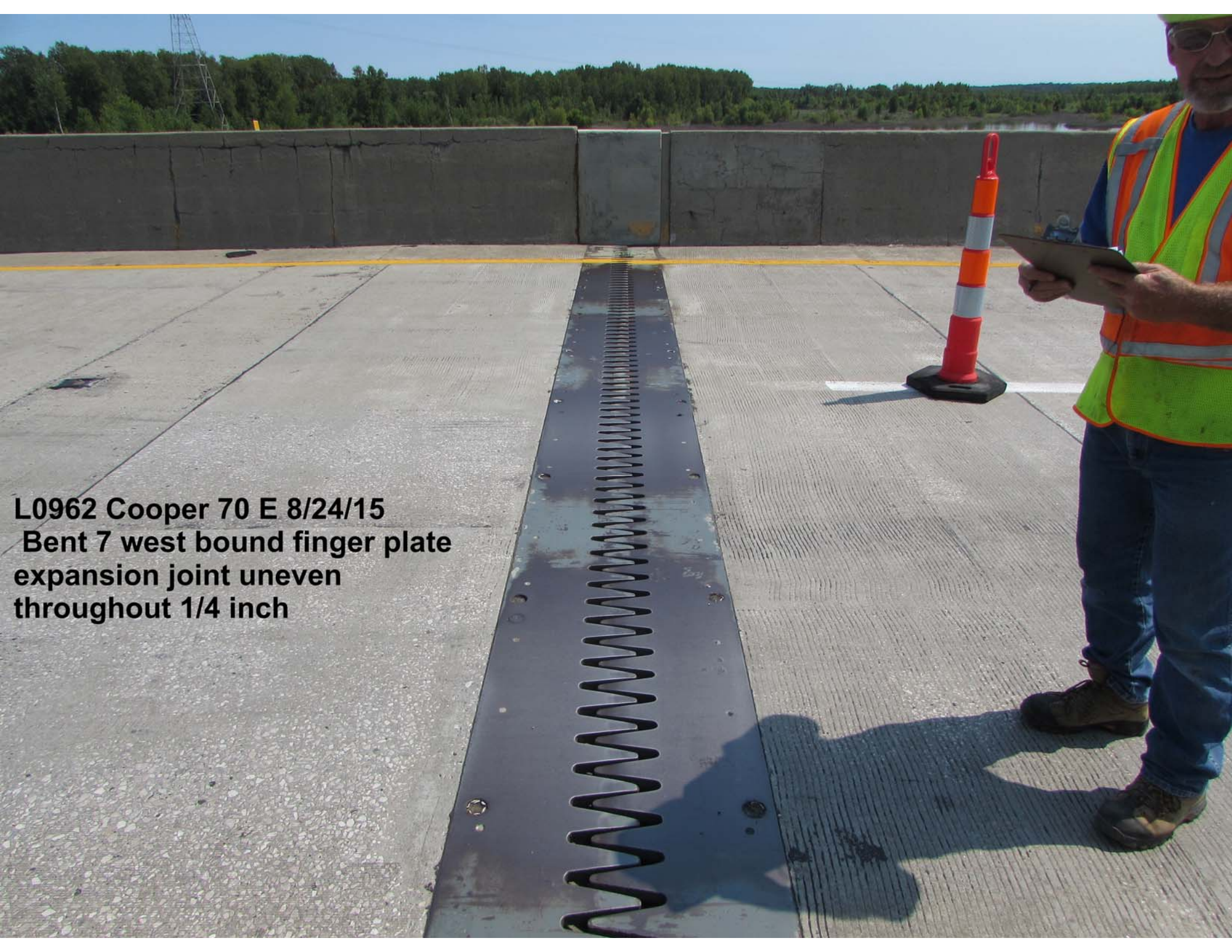


**L0962 Cooper 70 E 8/24/15**  
**Bent 4 west bound finger plate**  
**expansion joint uneven**  
**1/4 inch throughout west**  
**bound lanes**





**L0962 Cooper 70 E 8/24/15  
Bent 7 west bound finger plate  
expansion joint uneven  
throughout 1/4 inch**





**L0962 Cooper 70 E 8/24/15**  
**Bent 10 west bound**  
**finger plate expansion joint**






**L0962 Cooper 70 E 8/24/15**  
**Bent 13 west bound**  
**finger plate expansion joint**








**L0962 Cooper 70 E 8/24/15**  
**Span 13 L4 west bound**  
**expansion joint**  
**seal fallen out**





**L0962 Cooper 70 E 8/24/15**  
**Span 13 L8 west bound**  
**expansion joint**  
**6 foot pulling apart**

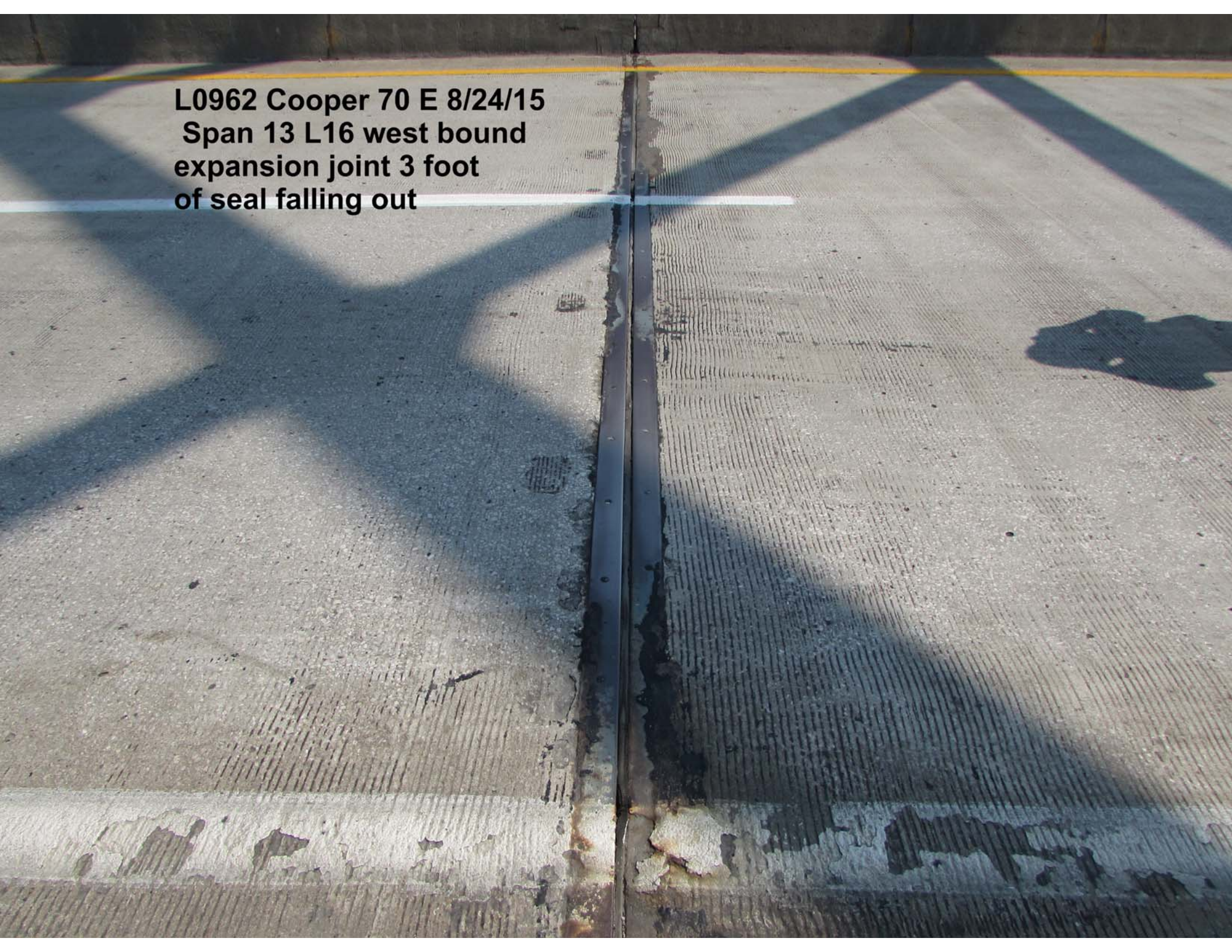


**L0962 Cooper 70 E 8/24/15**  
**Span 13 L12 west**  
**bound expansion joint**





**L0962 Cooper 70 E 8/24/15**  
**Span 13 L16 west bound**  
**expansion joint 3 foot**  
**of seal falling out**





**L0962 Cooper 70 E 8/24/15  
Span 13 L19 west bound  
expansion joint 4 foot of nosing  
busted out driving lane**








**L0962 Cooper 70 E 8/24/15**  
**Span 14 L19' west bound**  
**expansion joint nosing**  
**busting out at center line**






**L0962 Cooper 70 E 8/24/15**  
**Span 14 west bound**  
**L16' seal debonding**  
**at center line 1 foot**





L0962 Cooper 70 E 8/24/15  
Span 14 west bound  
L12' expansion joint  
3 foot of seal debonding





L0962 Cooper 70 E 8/24/15  
Span 14 west bound  
L8' expansion joint 3 foot  
of seal debonding

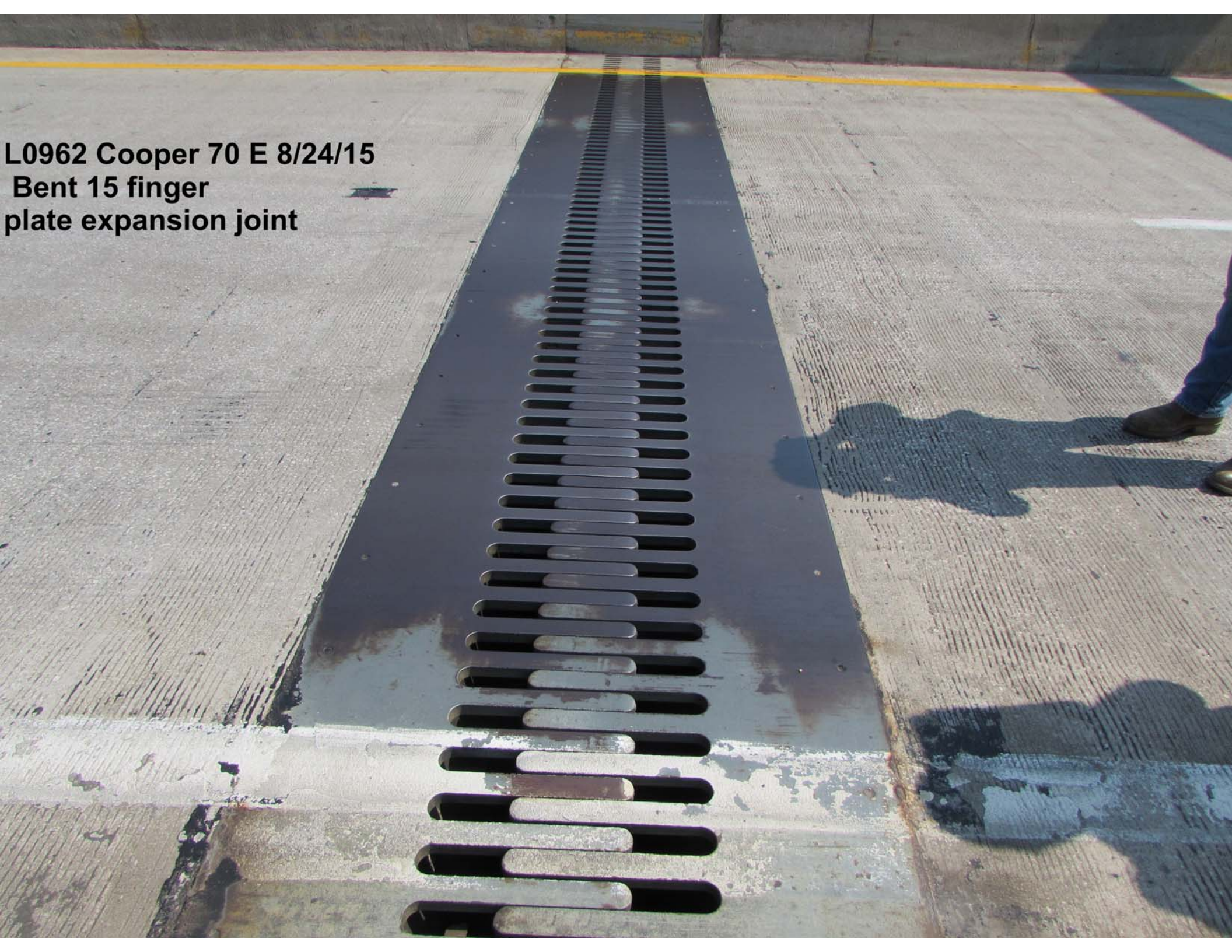




**L0962 Cooper 70 E 8/24/15**  
**Span 14 west bound**  
**L4' repairs made**  
**to expansion joint**



**L0962 Cooper 70 E 8/24/15**  
**Bent 15 finger**  
**plate expansion joint**





**L0962 Cooper 70 E 8/24/15**  
**Span 13 north side**  
**barrier wall at L13 with**  
**hvy collision damage**





**L0962 Cooper 70 9/9/15**  
**Span 13 minor distortion**  
**to top gusset plate VT**  
**right side east side**





L0962 Cooper 70 9/9/15  
Span 13 paint fading  
at L10M9R on box  
beam above curb line





**L0962 Cooper 70 9/9/15**  
**Span 13 minor rusting**  
**and paint peeling throughout**  
**(NC) above curb line at L16M15R**



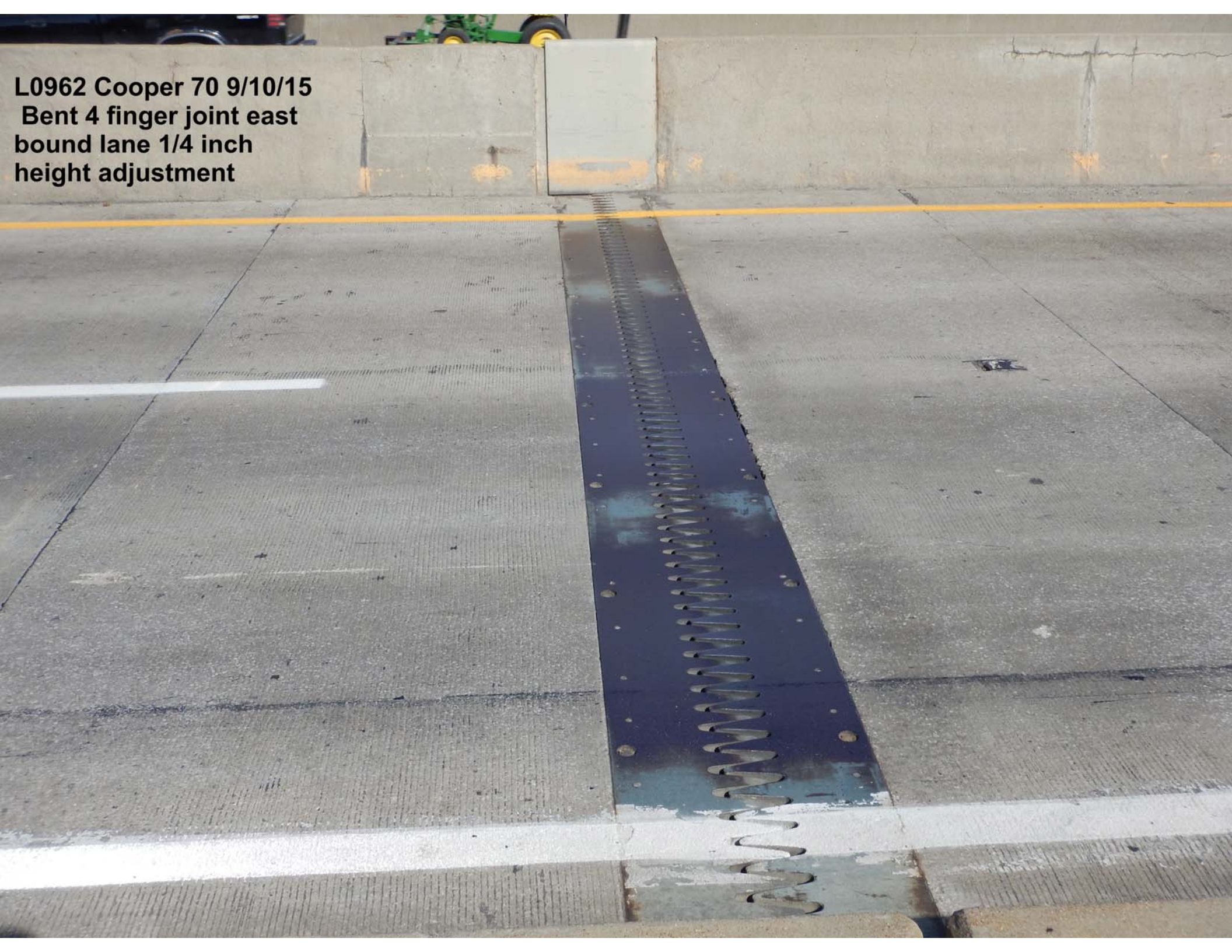




**L0962 Cooper 70 9/10/15**  
**Span 3 center barrier wall**  
**with L cracks and V cracks**  
**typical throughout**



**L0962 Cooper 70 9/10/15**  
**Bent 4 finger joint east**  
**bound lane 1/4 inch**  
**height adjustment**







**L0962 Cooper 70 9/10/15**  
**Bent 7 finger joint**  
**east bound lane**  
**1/4 inch height adjustment**



**L0962 Cooper 70 9/10/15**  
**Span 7 outside stringer**  
**south side paint fading with**  
**minor rust on top and**  
**bottom flange**





L0962 Cooper 70 9/10/15  
Span 6 floorbeam at  
bent 7 with moderate sec loss  
in bottom web 60 percent remain





**L0962 Cooper 70 9/10/15**  
**Span 8 outside stringer**  
**south side with minor rusting**





**L0962 Cooper 70 9/10/15**  
**Bent 10 finger**  
**joint east bound lane**







**L0962 Cooper 70 9/10/15  
Pier 13 view ith brush and  
shrubby overgrown  
on west side**



**L0962 Cooper 70 9/10/15**  
**Pier 13 finger joint**  
**east bound lane 1/4 inch**  
**high on east side**

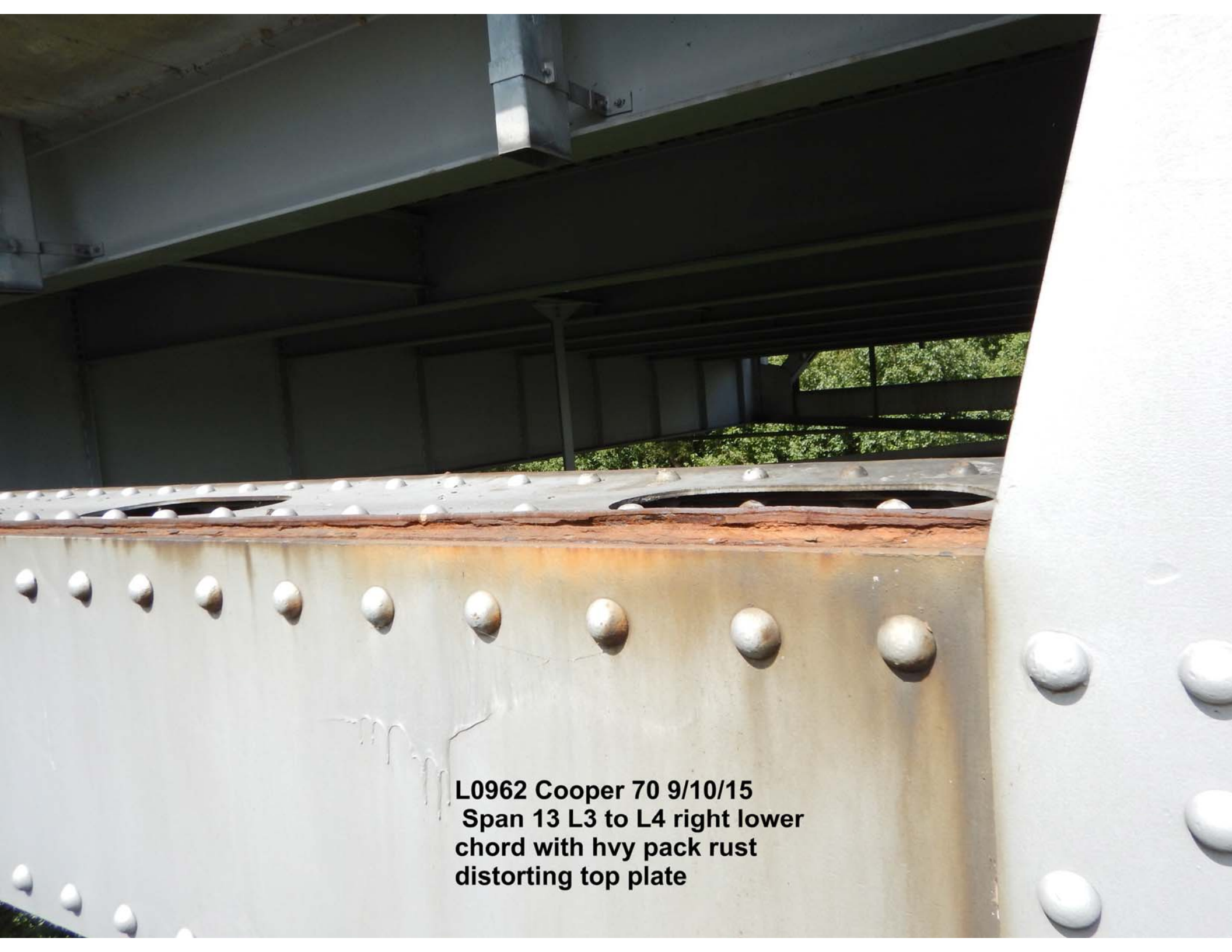




**L0962 Cooper 70 9/10/15**  
**Span 13 L4 compression**  
**joint east bound side**







**L0962 Cooper 70 9/10/15  
Span 13 L3 to L4 right lower  
chord with hvy pack rust  
distorting top plate**



**L0962 Cooper 70 9/10/15**  
**Span 13 stringer 9 at L8**  
**with hvy pack rust**  
**cantilever bearing**



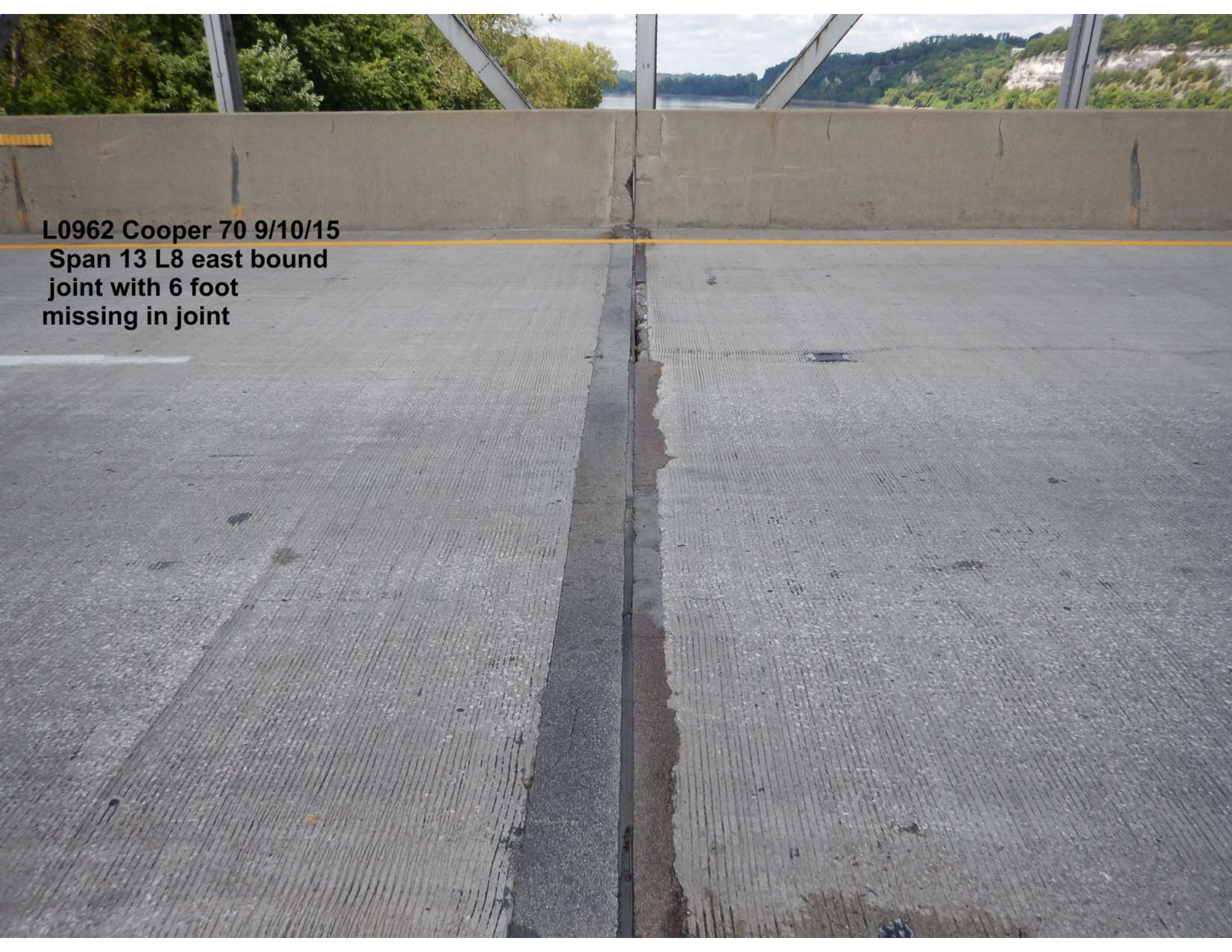


A photograph of a concrete bridge deck. A central longitudinal joint runs vertically through the middle of the frame. A horizontal white line crosses the joint. The concrete surface has a ribbed texture. In the background, a concrete curb is visible with some vertical rebar protruding. The lighting is bright, casting shadows on the right side.

**L0962 Cooper 70 9/10/15**  
**Span 13 L12**  
**compression joint**  
**east bound**



**L0962 Cooper 70 9/10/15**  
**Span 13 L8 east bound**  
**joint with 6 foot**  
**missing in joint**





**L0962 Cooper 70 9/10/15**  
**Span 13 L11 right side**  
**inner gusset with hvy pack**  
**rust between vertical and gusset**








**L0962 Cooper 70 9/10/15  
Span 13 L16 seal joint  
with 3 foot missing in seal**



L0962 Cooper 70 9/10/15  
Span 13 L16 right side  
inner gusset with mod sec loss along  
lower chord 50 percent remaining



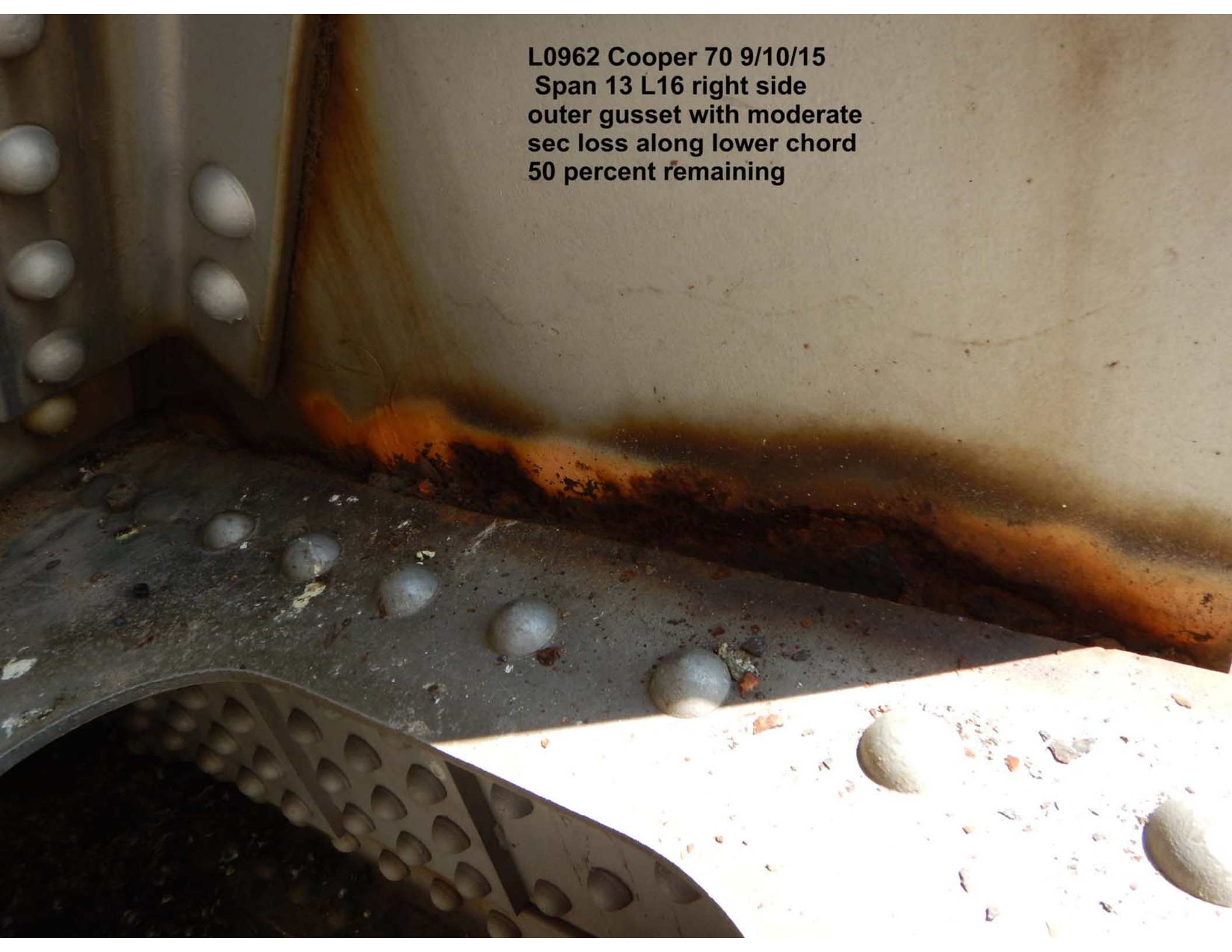


A close-up photograph of a steel bridge girder. The lower chord of the girder shows significant rust and corrosion, with a large section of the outer flange missing. The upper flange and the web of the girder are visible, showing some minor rust. The background shows a body of water and a distant shoreline with trees.

**L0962 Cooper 70 9/10/15  
Span 13 L16 right side  
outer gusset with moderate  
sec loss along lower chord  
50 percent remaining**



L0962 Cooper 70 9/10/15  
Span 13 L16 right side  
outer gusset with moderate  
sec loss along lower chord  
50 percent remaining





**L0962 Cooper 70 9/10/15  
Span 13 L19 east  
bound sealed joint with  
2 foot debonding**







**L0962 Cooper 70 9/10/15**  
**Span 14 L16' floorbeam**  
**stringer 9 cantilever**  
**bearing with hvy pack rust**



**L0962 Cooper 70 9/10/15**  
**PR 15 west side**  
**step cap with 1 foot by 2 foot**  
**spall with rebar exposed**






**L0962 Cooper 70 9/10/15  
PR 15 span 15 rockers  
tilted to the max leaning west**







**L0962 Cooper 70 9/10/15  
Bent 16 girder 3 with  
mod pack rust between  
plates and bottom flange**

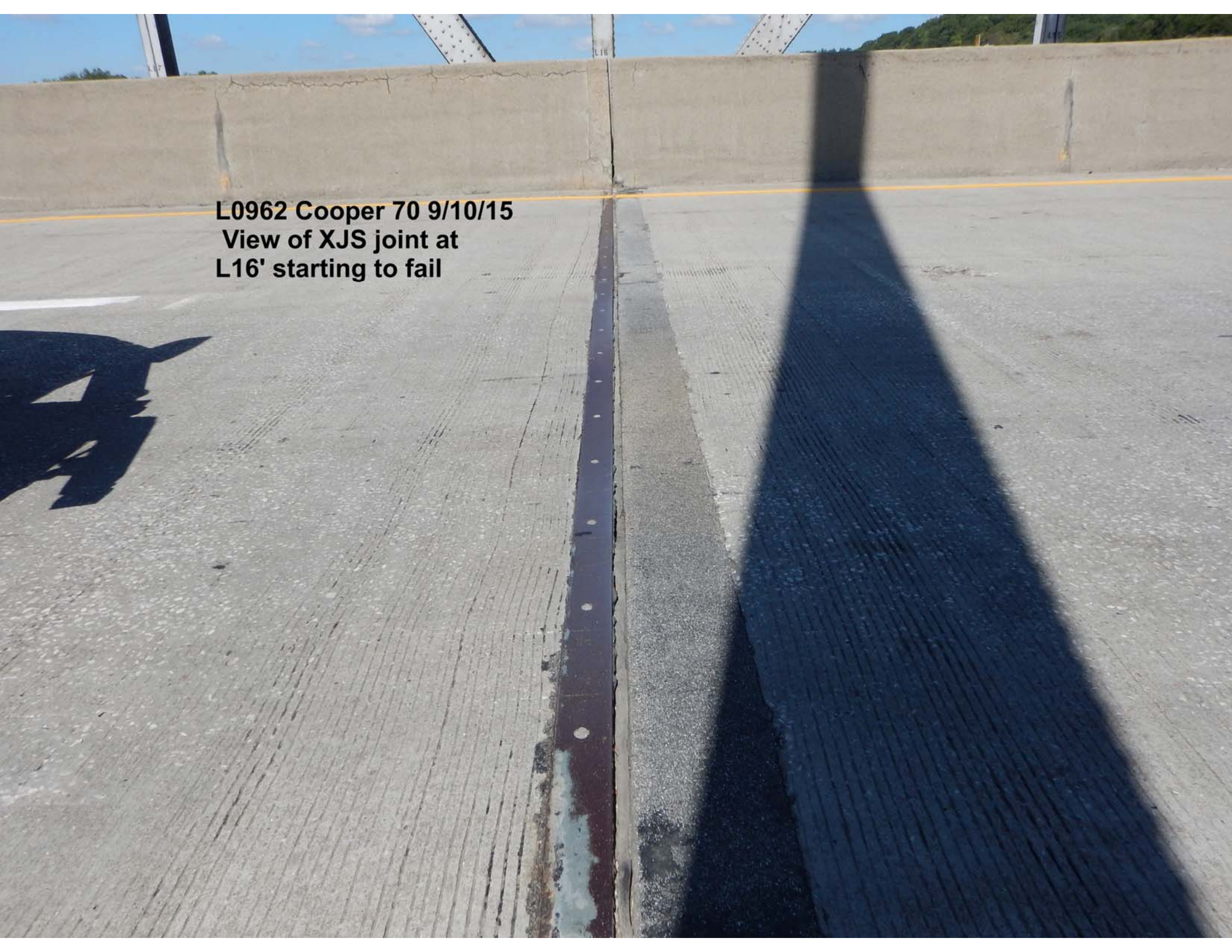




**L0962 Cooper 70 9/10/15**  
**View of XJS joint**  
**at L19' looks good**

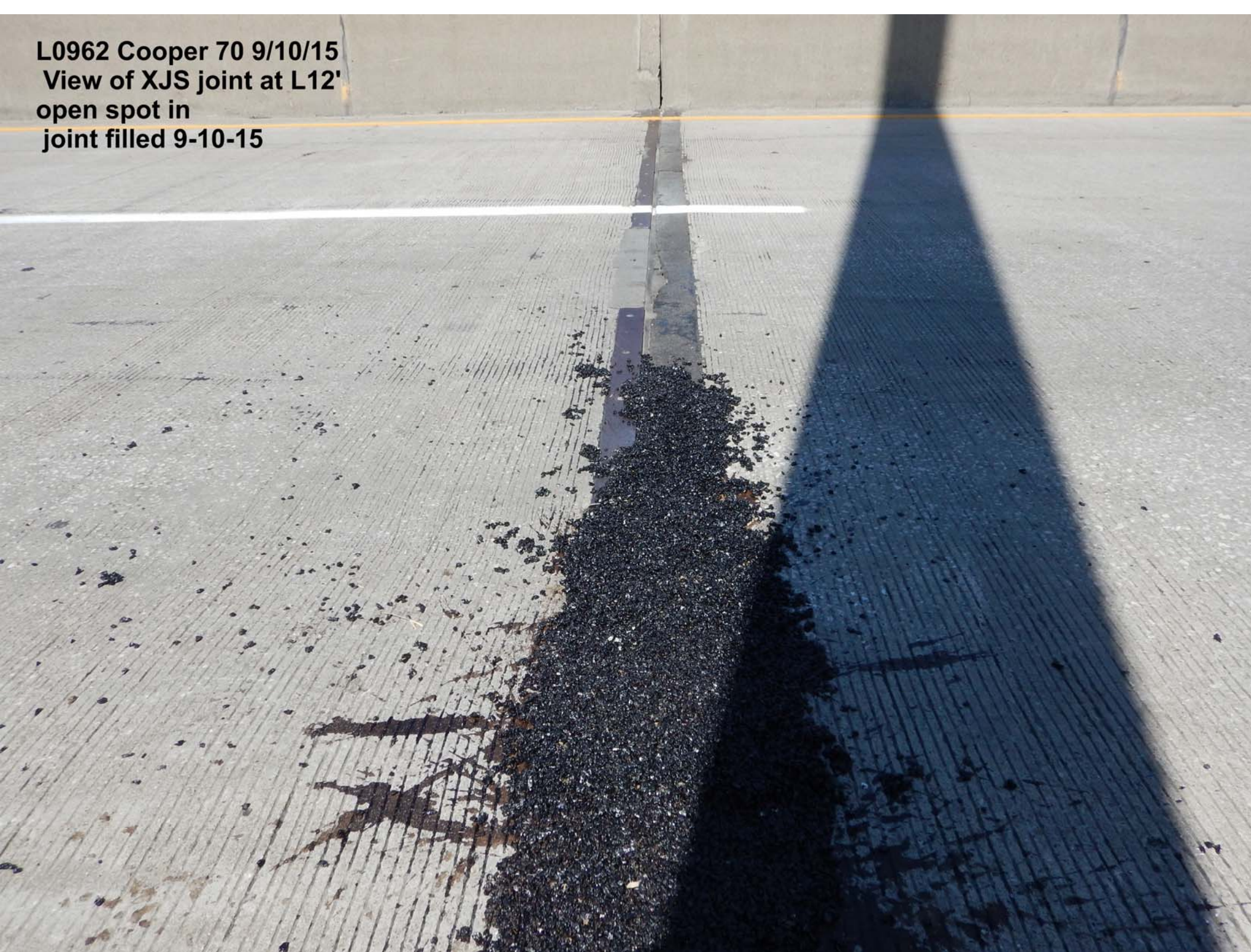


**L0962 Cooper 70 9/10/15**  
**View of XJS joint at**  
**L16' starting to fail**



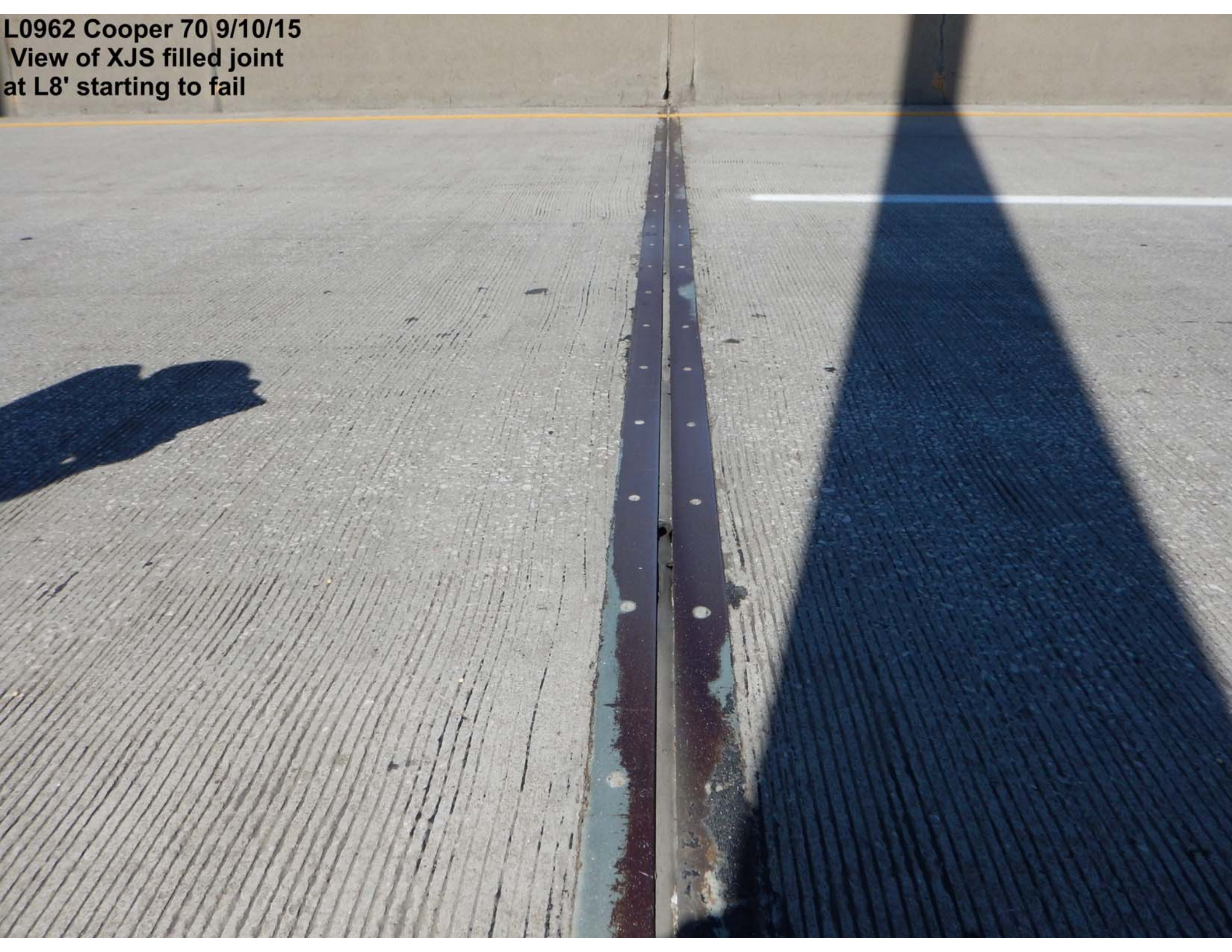


L0962 Cooper 70 9/10/15  
View of XJS joint at L12'  
open spot in  
joint filled 9-10-15

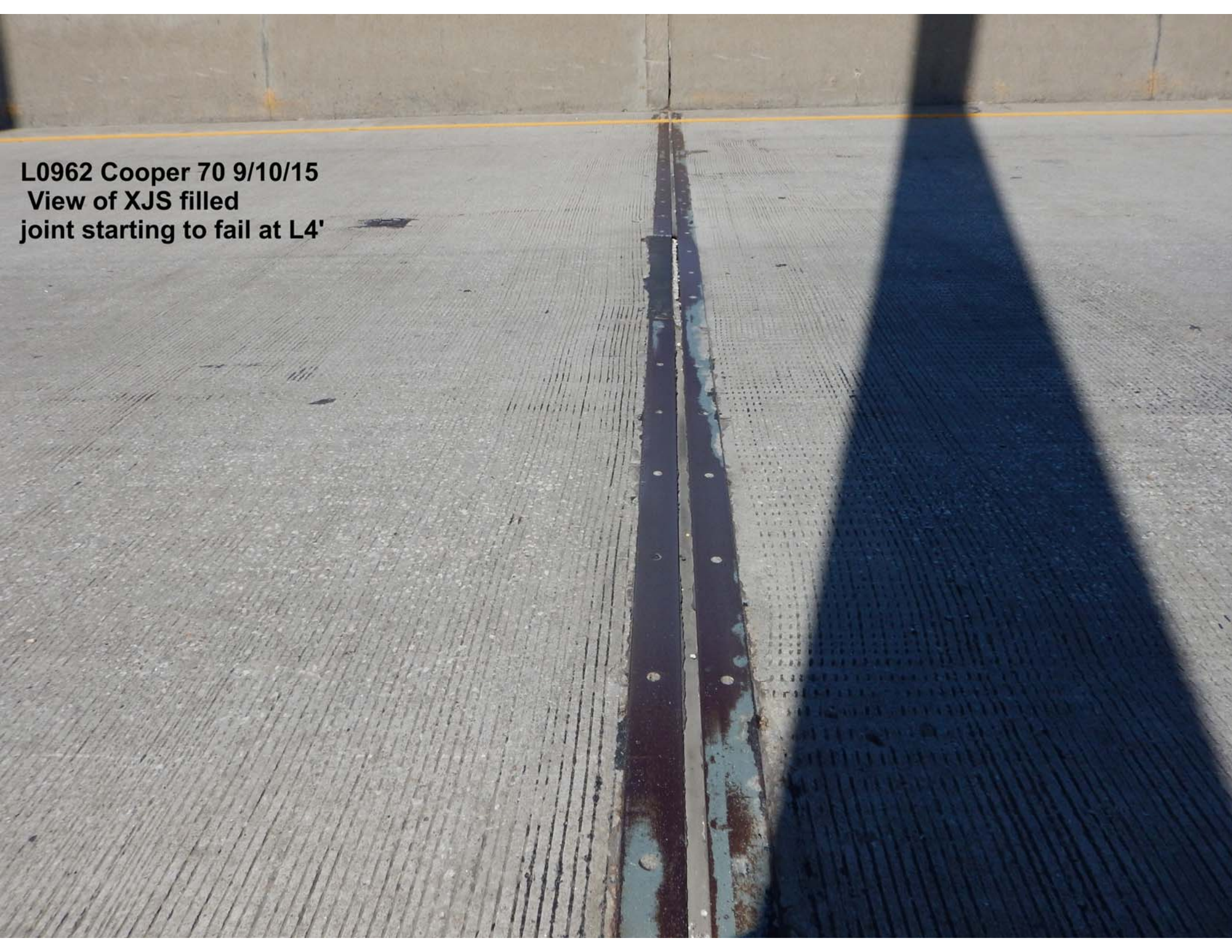




L0962 Cooper 70 9/10/15  
View of XJS filled joint  
at L8' starting to fail







**L0962 Cooper 70 9/10/15**  
**View of XJS filled**  
**joint starting to fail at L4'**



L0962 Cooper 70 9/10/15  
View of finger joint  
at PR 15 looks good

