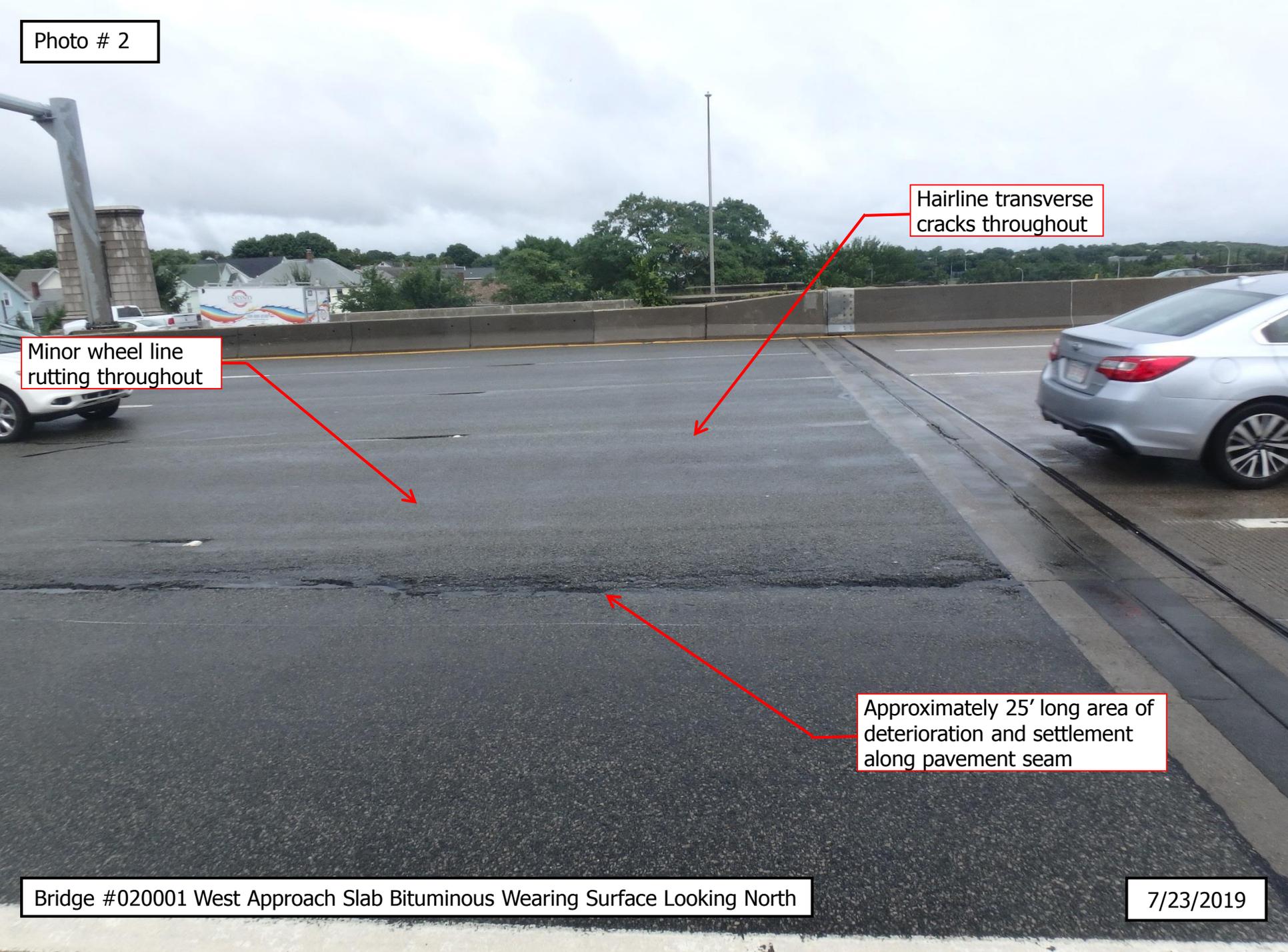


Photo # 1



Bridge #020001 West Approach Bituminous Wearing Surface Looking Northeast

7/23/2019

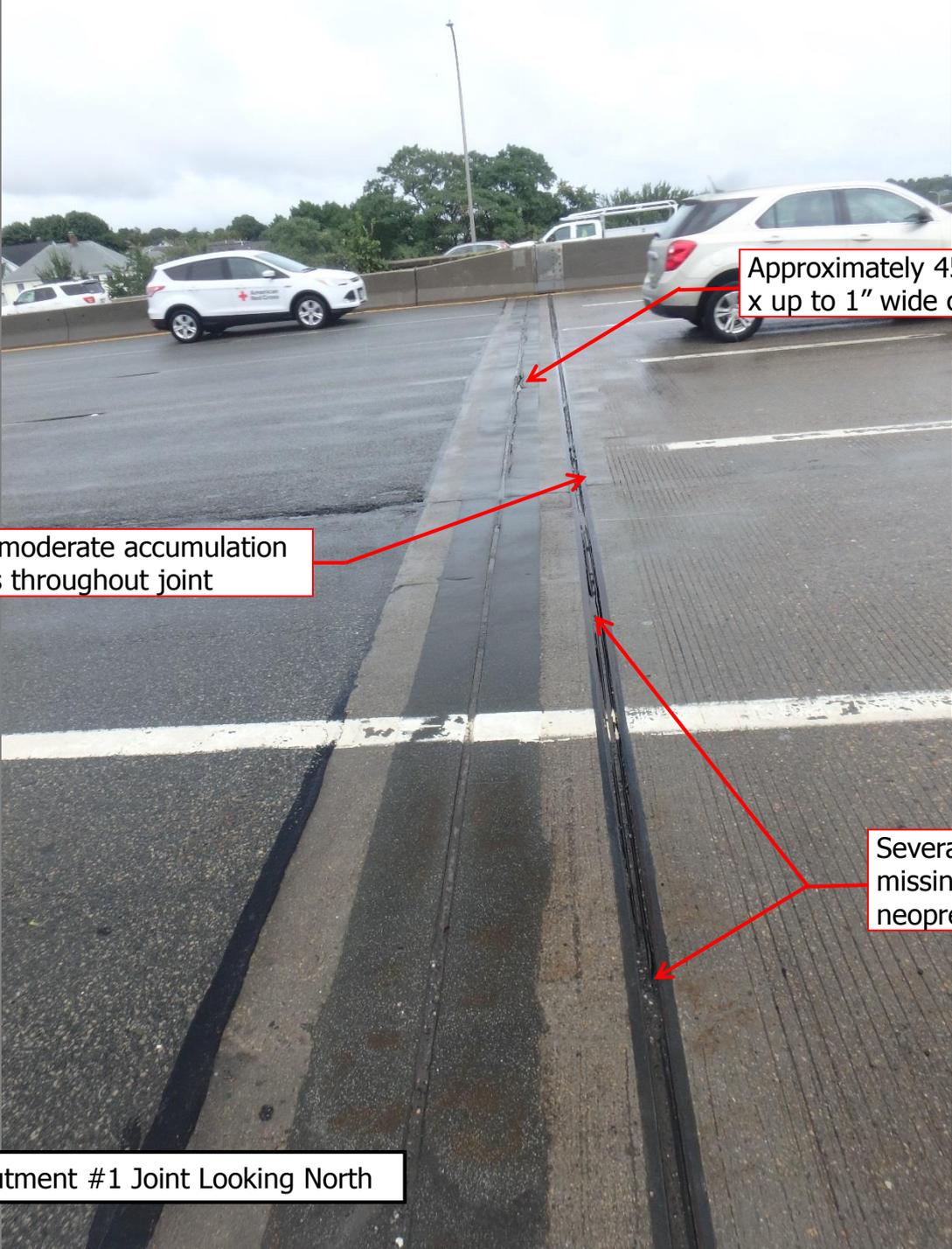


Minor wheel line rutting throughout

Hairline transverse cracks throughout

Approximately 25' long area of deterioration and settlement along pavement seam

Photo # 3



Approximately 45' long
x up to 1" wide crack

Light to moderate accumulation
of debris throughout joint

Several locations of ripped,
missing and depressed
neoprene seal throughout joint

Bridge #020001 West Abutment #1 Joint Looking North

7/23/2019

Photo # 4

Impact scrapes/gouges along parapet (typical condition)

Scupper is 100% clogged with mud/debris with standing water

Minor wear and wheel line rutting throughout

Transverse hairline cracks up to full length spaced approximately 2' to 3' apart



Photo # 6

Scupper is 100% clogged
with mud/debris and
heavy vegetation growth

Bridge #020001 Top of Deck – Right Shoulder Near Pier 2 Looking West

7/23/2019

Photo # 7

Impact scrapes along
parapet (typical condition)

Transverse hairline cracks, minor wear
and wheel line rutting throughout

Bridge #020001 Span 3 – Top of Deck Looking Northeast

7/23/2019

Photo # 8

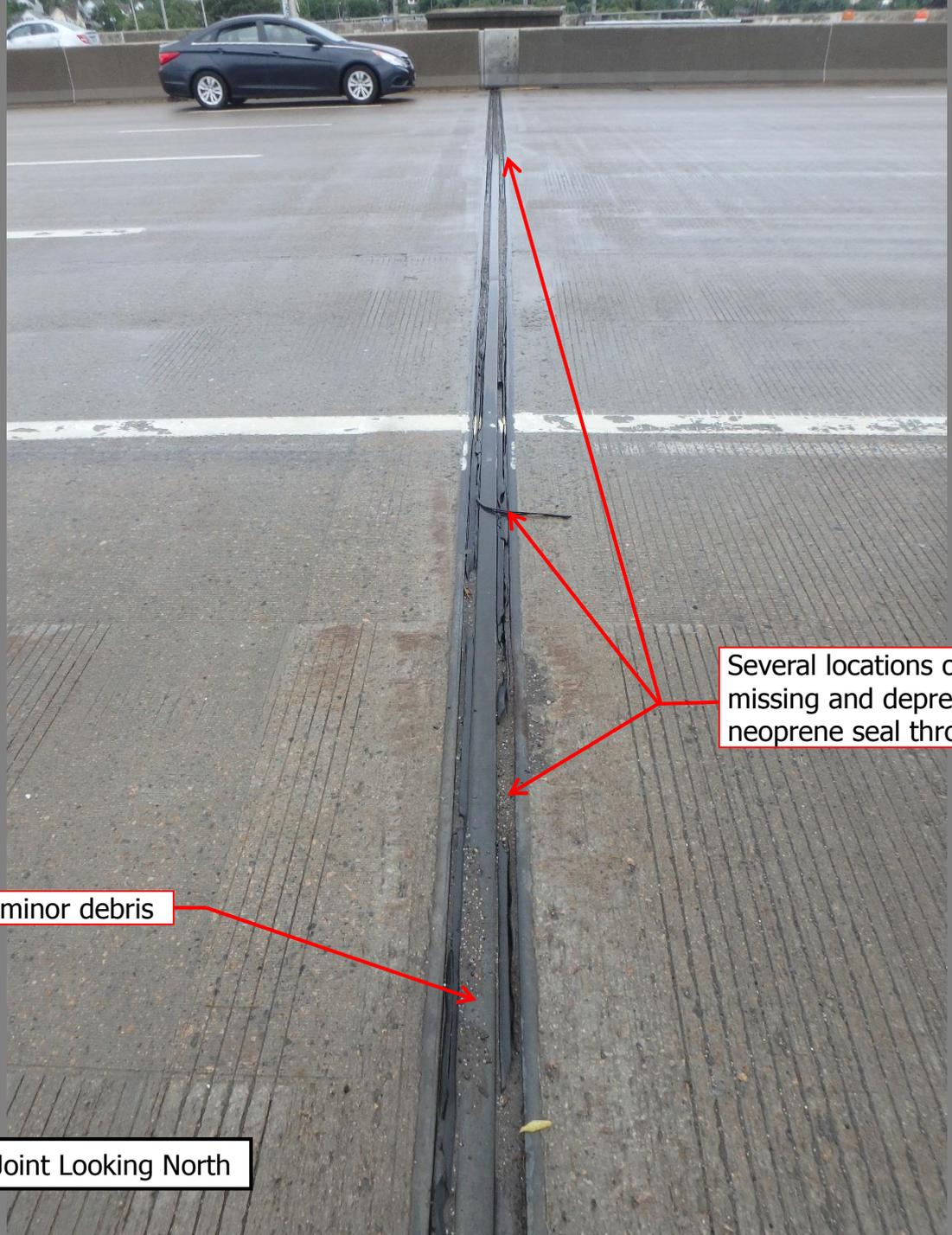
Vertical hairline cracks
throughout parapet

Scupper is 100% clogged with
mud/debris and heavy vegetation
growth with standing water

Bridge #020001 Top of Deck – Right Shoulder Near Pier 4 Looking East

7/23/2019

Photo # 9



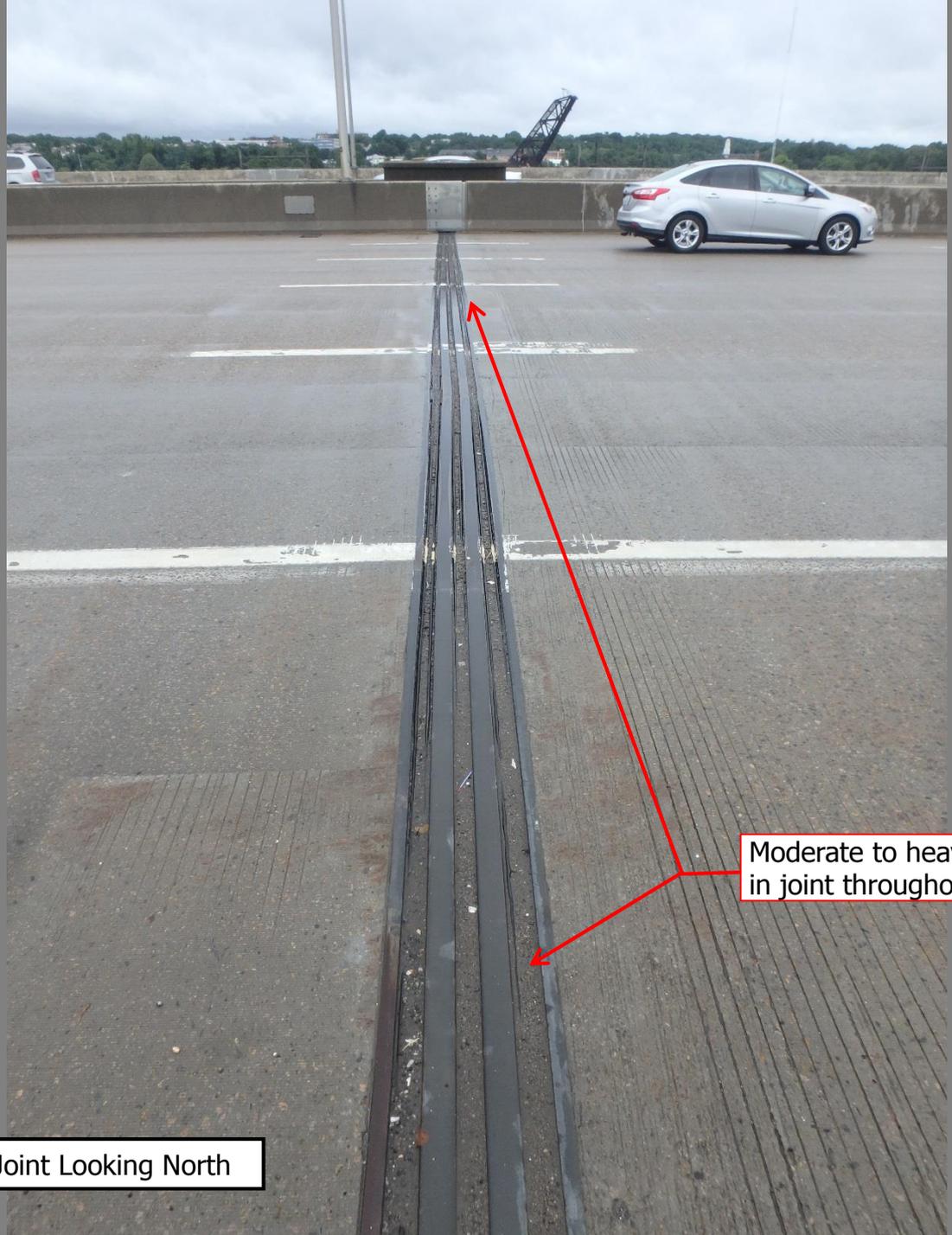
Several locations of ripped, missing and depressed neoprene seal throughout joint

Areas of minor debris

Bridge #020001 Pier #4 Joint Looking North

7/23/2019

Photo # 10



Moderate to heavy debris in joint throughout

Bridge #020001 Pier #9 Joint Looking North

7/23/2019

Photo # 11

Impact scrapes along parapet

Widespread transverse hairline cracks

Bridge #020001 Span 11 – Top of Deck Looking North

7/23/2019

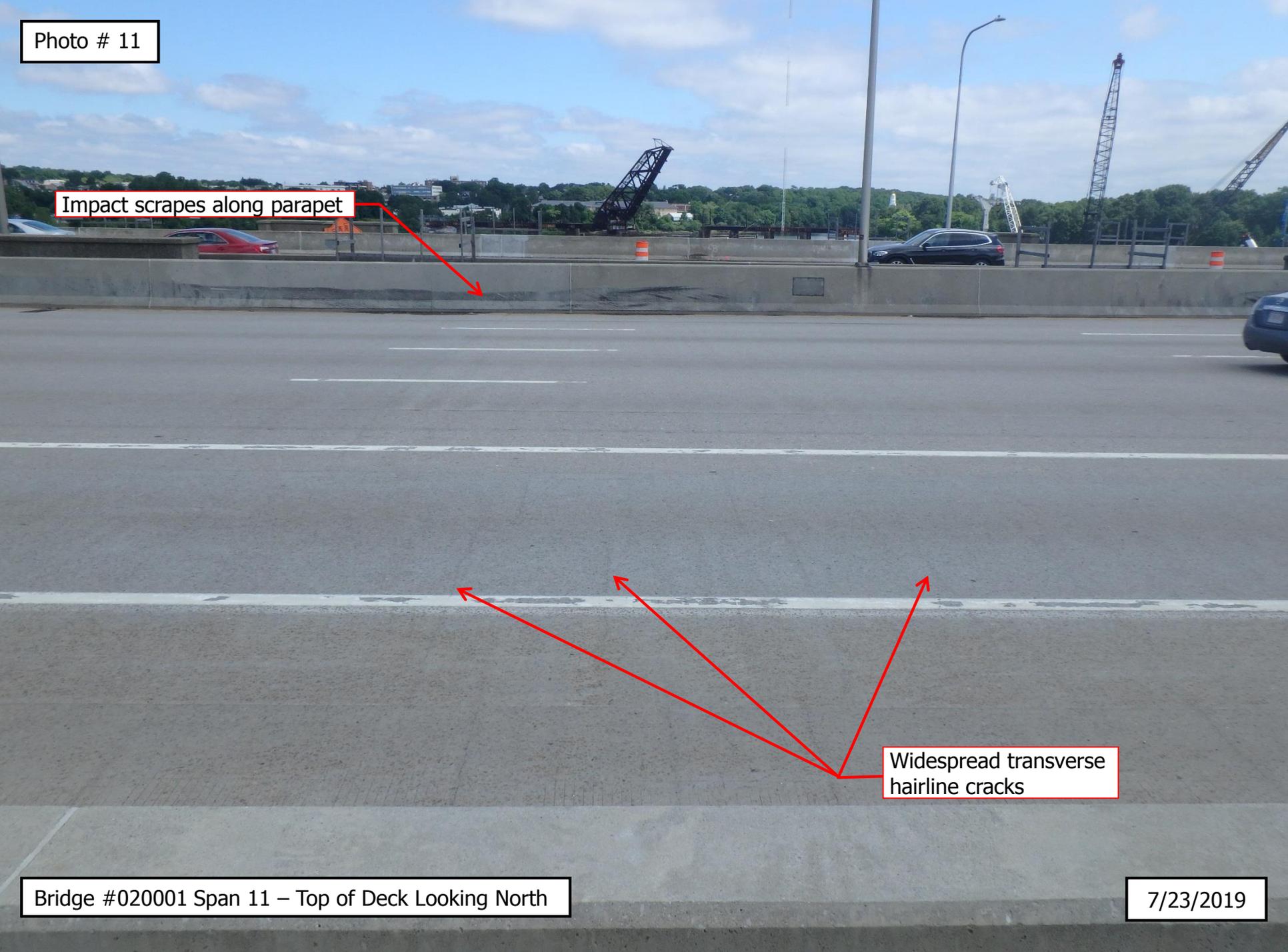


Photo # 12

Minor wear/scaling, wheel line rutting and transverse cracks throughout

Scupper is partially blocked by mud and debris

Bridge #020001 Span 14 – Top of Deck Looking Northeast

7/23/2019

Photo # 13



Several locations of ripped, missing and depressed neoprene seal throughout joint

Bridge #020001 East Abutment #2 Joint Looking North

7/23/2019

Minor to moderate wear and isolated scrapes/gouges to top of approach slab

Scattered hairline longitudinal cracks in off-ramp lane

Photo # 15

Up to full height vertical hairline cracks in outside face of parapet

Span 5

J

Bridge #020001 Skewed South Elevation Looking Northeast

7/23/2019

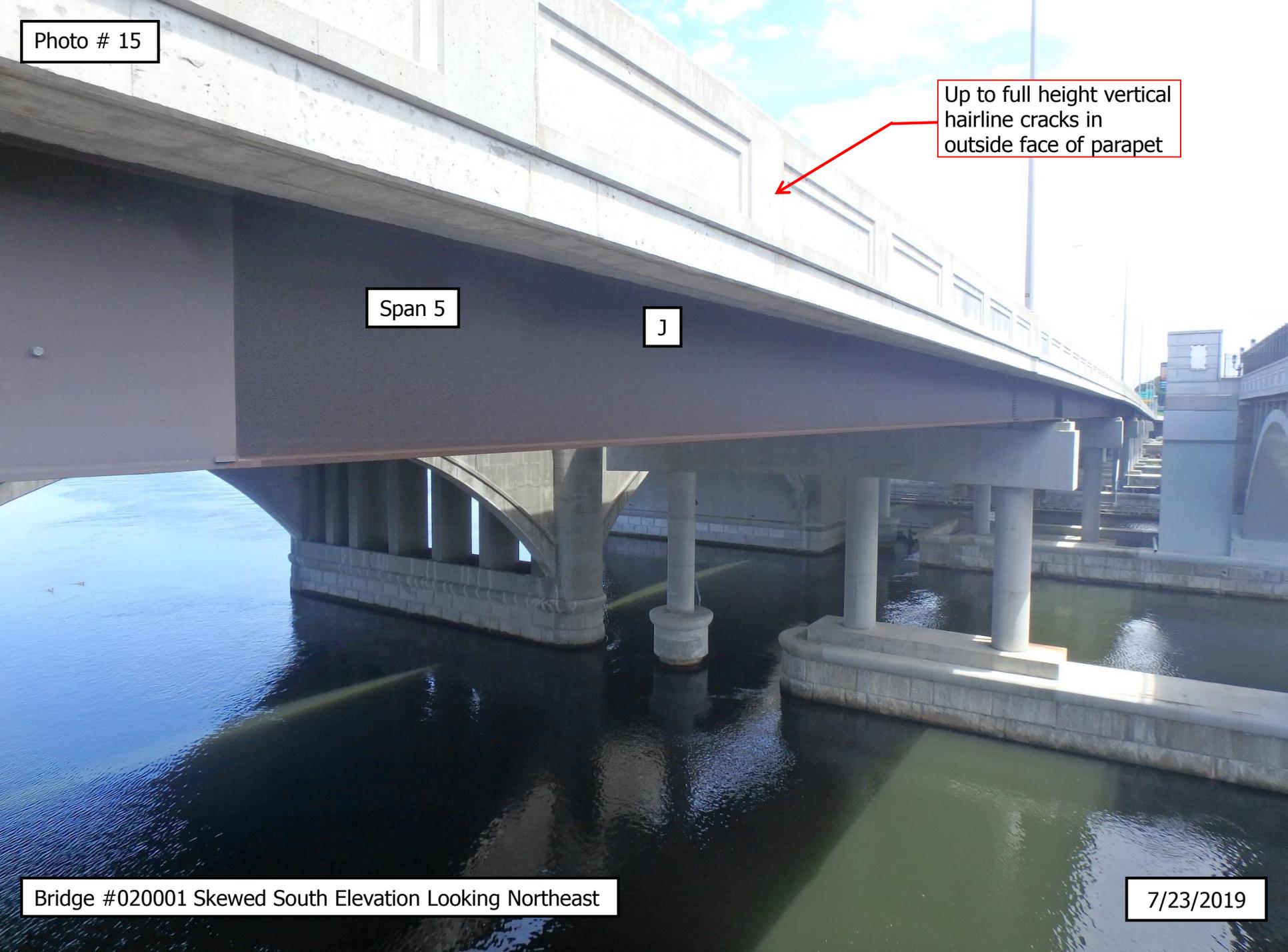


Photo # 16

Span 7

Bridge 070001 blocks the view of Bridge 020001. This elevation is being used as a general view of the area

Bridge #020001 North Elevation Looking South

7/23/2019

C

A

Scattered sealed and unsealed diagonal cracks with and without efflorescence

Horizontal hairline crack with efflorescence up to 20' long

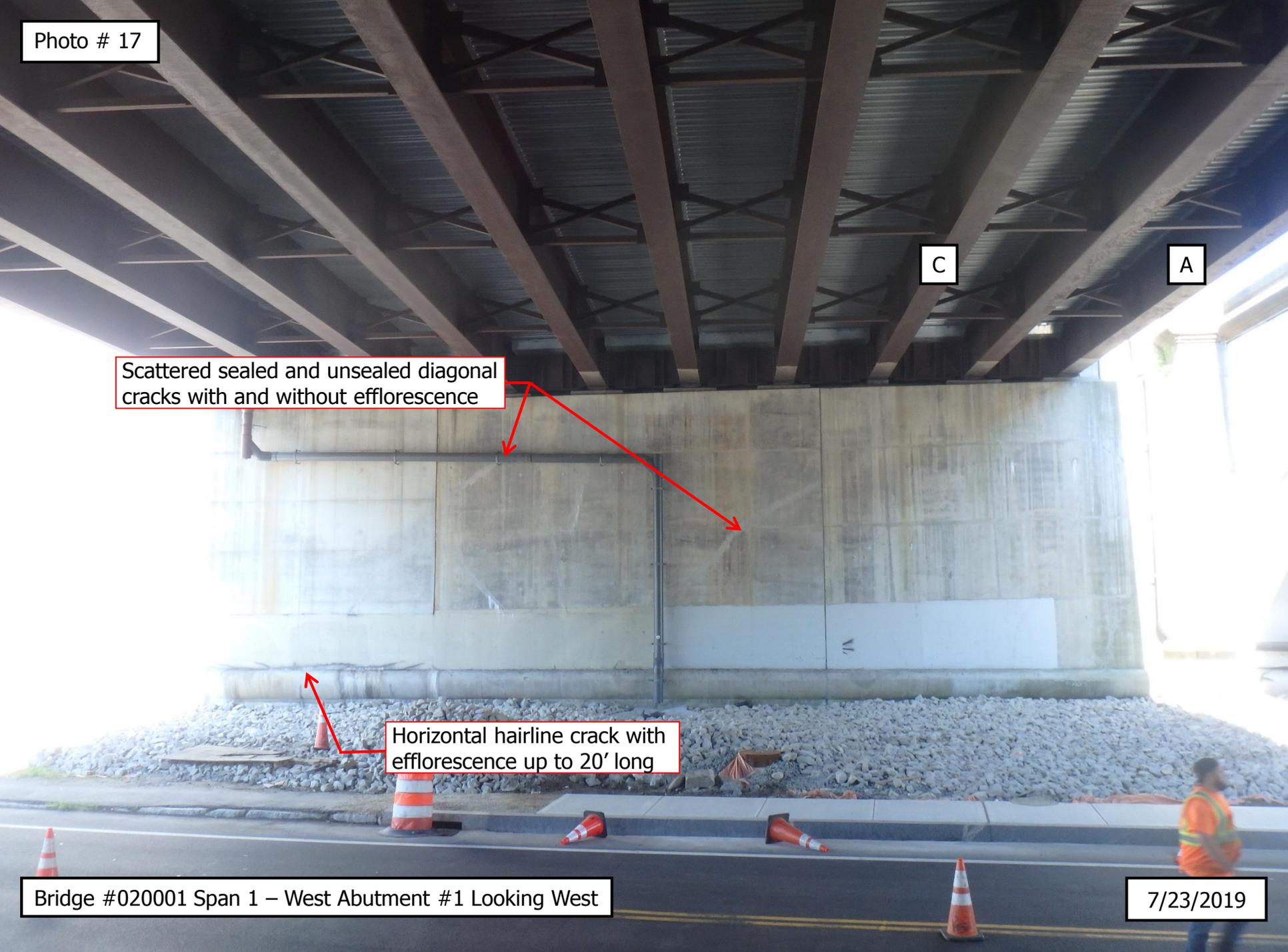
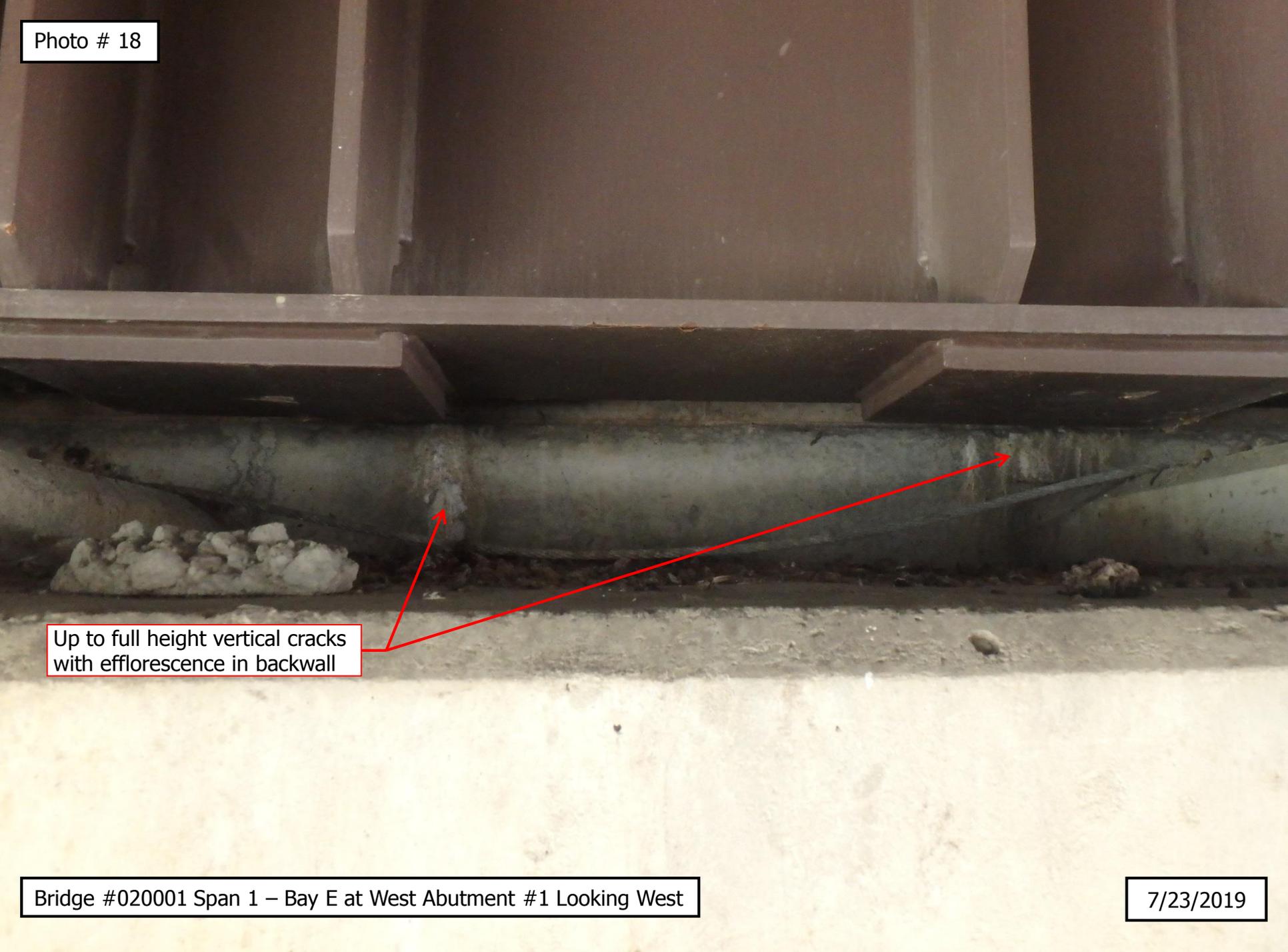


Photo # 18



Up to full height vertical cracks
with efflorescence in backwall

Bridge #020001 Span 1 – Bay E at West Abutment #1 Looking West

7/23/2019

Photo # 19

Light rust

H

G

7A

Debris on beam seat

Bridge #020001 Span 1 – Bay G at West Abutment #1 Looking West

7/23/2019

Photo # 20

H

I

6" long x 3" high x
1/2" deep minor spall

Random hairline
cracks throughout

Bridge #020001 Pier #1 West Elevation Looking East

7/23/2019



Photo # 21

H

Light surface rust
on bearing plates

All four (4) anchor
bolts are backed off

Bridge #020001 Span 1 – Bearing H at Pier #1 Looking East

7/23/2019

Photo # 22

A

Areas of orange, flaking rust with locations of laminar rust throughout girder (typical condition)

Bridge #020001 Span 2 – Girder A Underside Near Midspan Looking East

7/23/2019

Photo # 23

I

Bottom flange is damaged and is bent upward measuring approximately 2' long x $\frac{3}{4}$ "

J

Bottom flange is damaged and is bent upward slightly

Bridge #020001 Span 2 – Girder I and J at 2nd Cross Frame from Pier #2 Looking South

7/23/2019

Photo # 24

Span 2

J

Span 3

Bearing is off center
up to 2" to the west

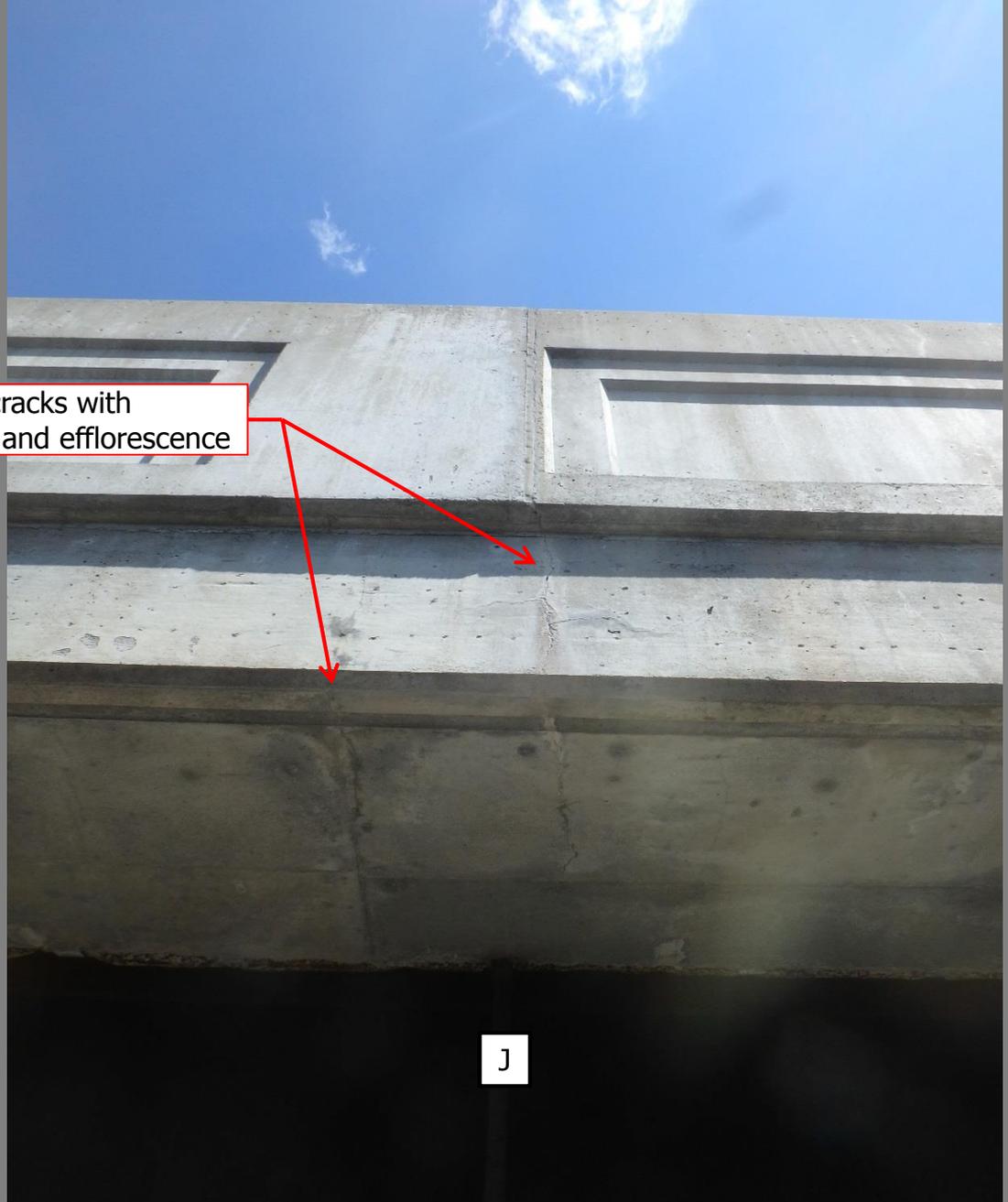
Anchor bolt is bent
slightly to the north

Bridge #020001 Spans 2/3 - Bearing J at Pier #2 Looking North

7/23/2019

Photo # 25

Hairline cracks with moisture and efflorescence



J

Bridge #020001 Spans 2/3 – Underside of Deck Overhang at Pier #2 Looking North

7/23/2019

Photo # 26

D

Vertical hairline crack with efflorescence

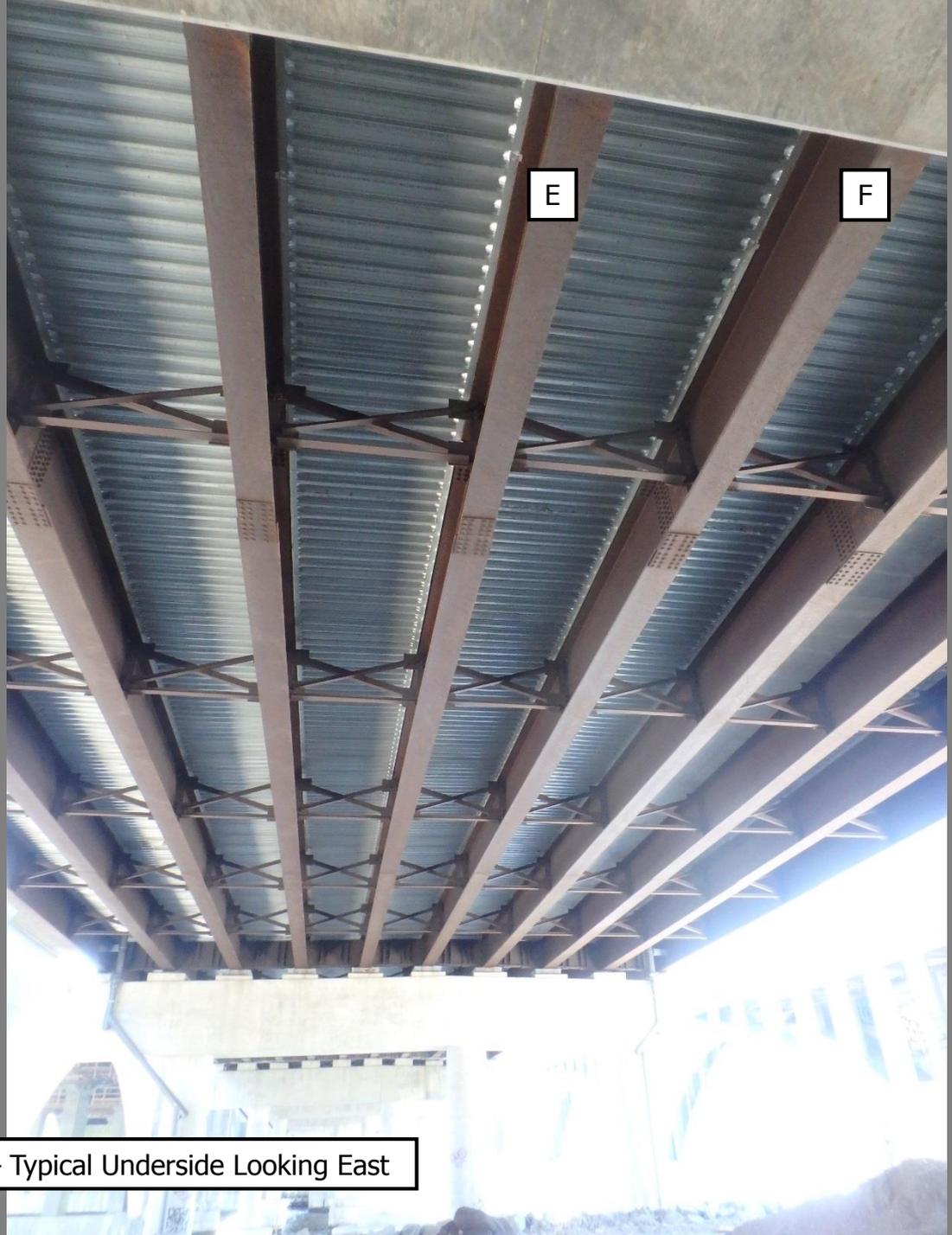


Bridge #020001 Span 3 – East Face of Pier #2 Below Girder D Looking West

7/23/2019



Photo # 27



Bridge #020001 Span 3 – Typical Underside Looking East

7/23/2019

Photo # 28

H

Signs of leakage from anchor bolt hole

Laminar rust measuring 4' long on underside of bottom flange

G

14' long area of laminar rust on top of bottom flange that extends to 2nd cross frame from pier #3

Photo # 29



J

Scattered areas of rust on SIP form

Bridge #020001 Span 3 – Bay I Underside Near 3rd Intermediate Cross Frame From Pier #4 Looking West

7/23/2019

Photo # 30

Scattered areas of light to moderate rust on bearing plates

E

Up to 1/4" high gap between the masonry plate and pedestal at the north and south ends

Photo # 31

E

F

6' high x 0.005" wide vertical crack below girder F that extends 12" long on underside of cap

6' high x 0.010" wide vertical crack below girder E that continues across the cap underside up to full width

Bridge #020001 Span 3 – West Face of Pier #3 Cap Looking East

7/23/2019

J

I

Random vertical hairline cracks and leakage staining throughout (typical condition)

Graffiti on columns and pier wall (typical condition)

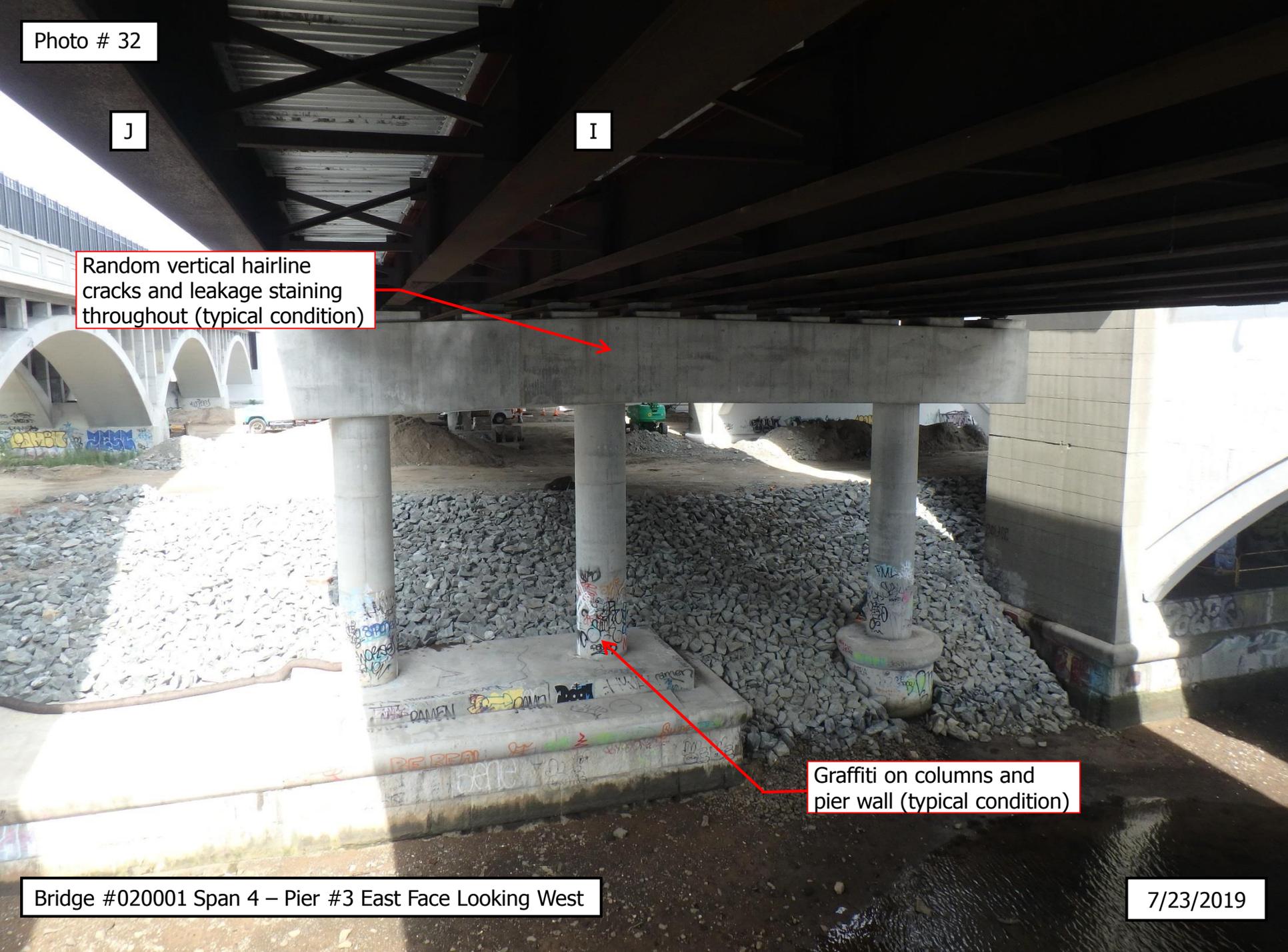


Photo # 33

G

Anchor bolt is backed off

Anchor bolt is not engaged
with masonry plate

Bridge #020001 Span 4 – East Face of Bearing G at Pier #3 Looking West

7/23/2019

Photo # 34

Minor laminar rust starting to form on bottom flange

Areas of orange/yellow rust

A

Photo # 35

F

Anchor bolt nut is not fully threaded with the bolt and the bolt head is not flush with the underside of the splice plate (See next photo)

Bridge #020001 Span 4 – North Face of Girder F at Splice Plate Looking South

7/23/2019

Photo # 36

F

Bottom flange bolt head is not flush with splice plate

Bridge #020001 Span 4 – Underside of Girder F at Splice Plate Looking Northeast

7/23/2019

Photo # 37

Areas of orange/yellow rust that is starting to flake

F

Bridge #020001 Span 4 – South Face of Girder F at Splice Plate Looking Northeast

7/23/2019

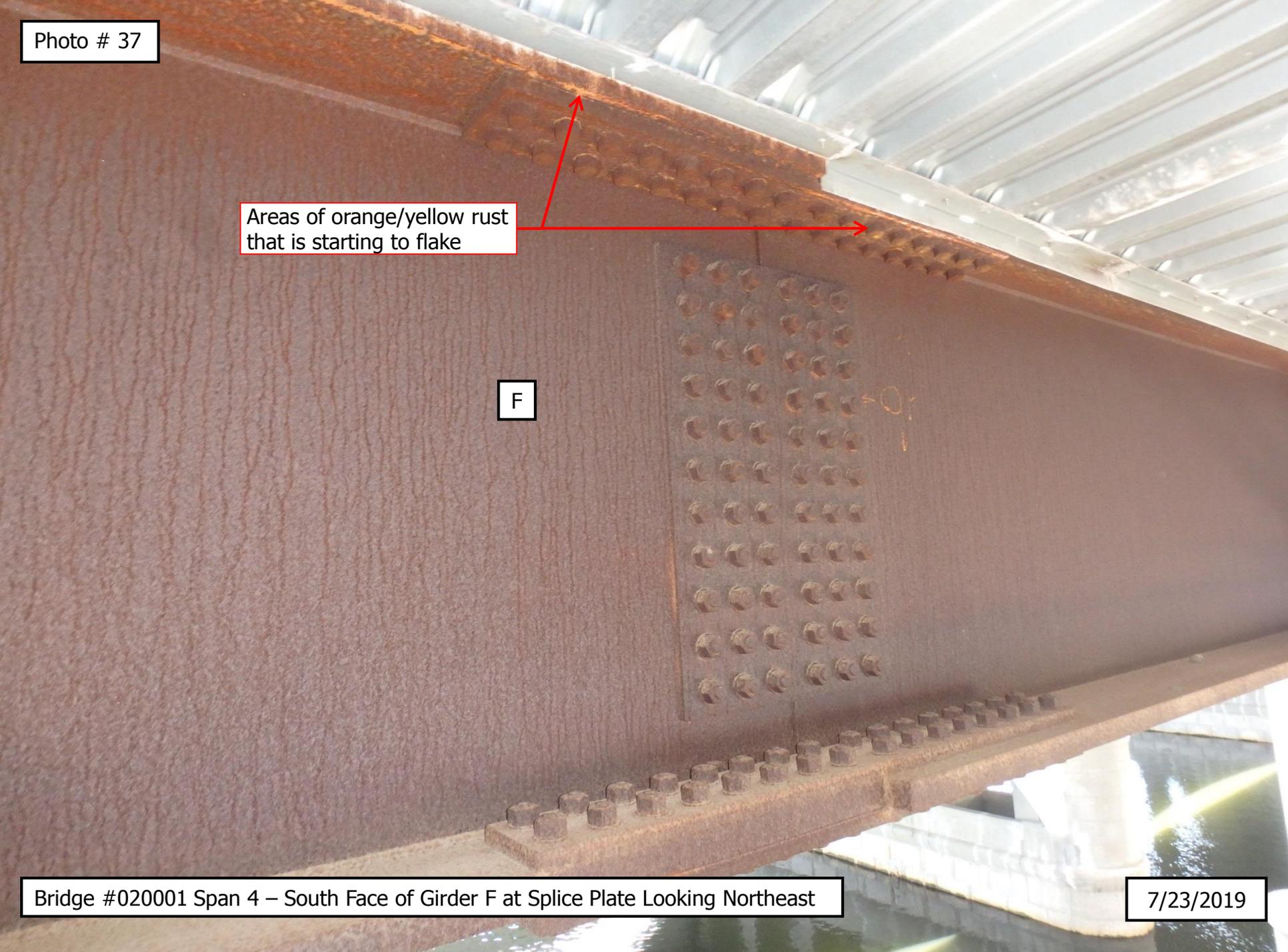


Photo # 38

E

Slightly compressed bearing up to 1/4" is bulging on south side

Bridge #020001 Span 4 – West Face of Bearing E at Pier #4 Looking East

7/23/2019

Photo # 39

Span 4

Span 5

Isolated area of chipped paint with light rust

Moderate rust on masonry plate

Girder ends are painted at both abutments and at piers #4 and #9

Bridge #020001 Span 4/5 – South Face of Girder J at Pier #4 Looking North

7/23/2019



Photo # 40

B

Scattered vertical hairline cracks up to full height



Bridge #020001 Span 5 – East Face of Pier #4 Cap Below Girder B Looking Northwest

7/23/2019

Photo # 41

B

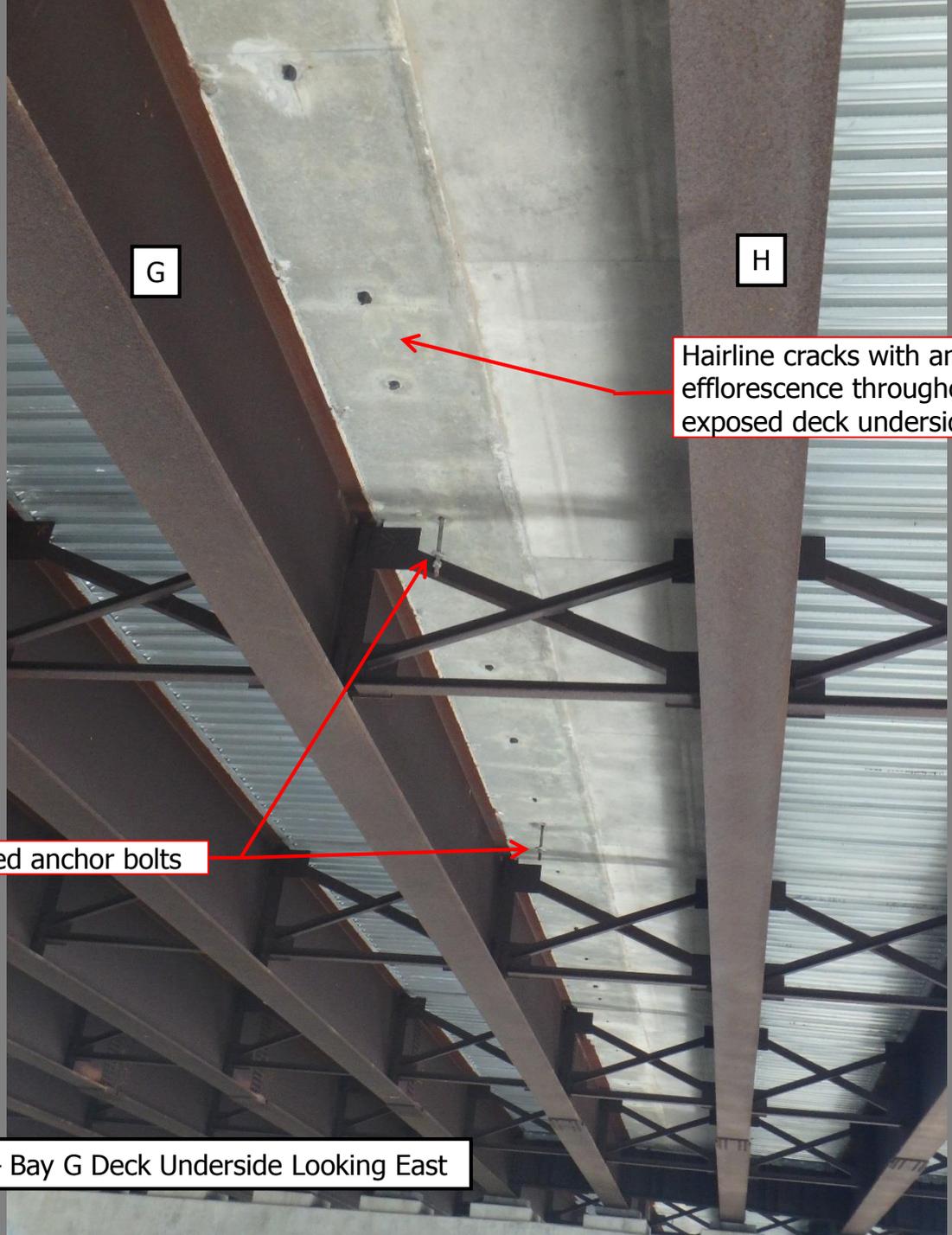
Slightly compressed bearing up to 1/4" is bulging on south side

Girder is slightly offset up to 1.25" to the south of the bearing centerline

Bridge #020001 Span 5 – East Face of Bearing B at Pier 4 Looking West

7/23/2019

Photo # 42



G

H

Hairline cracks with and without efflorescence throughout exposed deck underside

Exposed anchor bolts

Bridge #020001 Span 5 – Bay G Deck Underside Looking East

7/23/2019

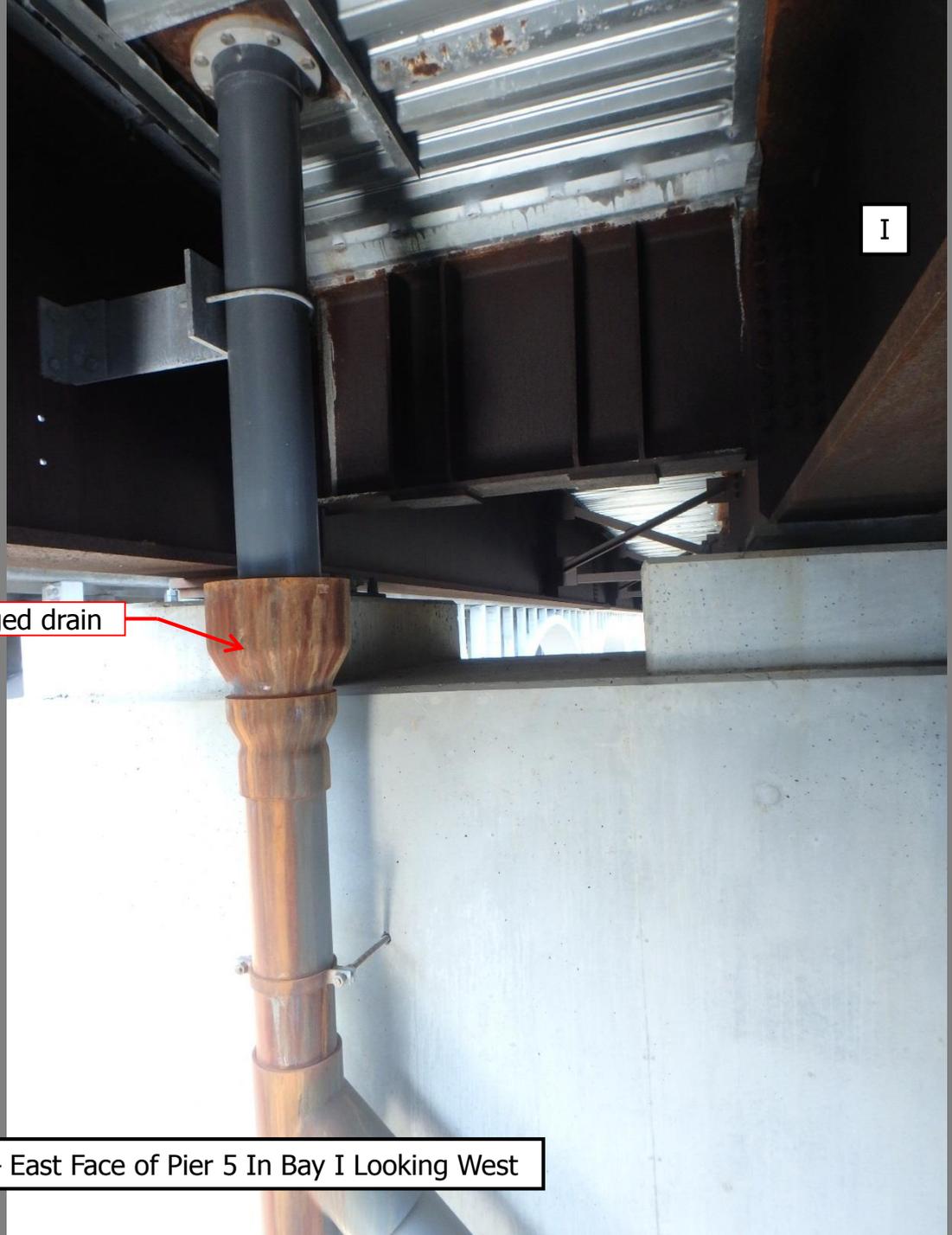
B

C

Vertical hairline cracks with and without efflorescence and areas of leakage staining throughout



Photo # 44



Clogged drain

I

Bridge #020001 Span 6 – East Face of Pier 5 In Bay I Looking West

7/23/2019

Photo # 45

H

1/16" high tapered gap between bottom flange and sole plate

Scattered areas of light to moderate rust on bearing plates

Up to 1/4" high gap between the masonry plate and pedestal at the north and south ends

Bridge #020001 Span 6 – East Face of Bearing H at Pier 5 Looking West

7/23/2019

Photo # 46

Areas of concrete over pour (random locations throughout bridge)

G

Bridge #020001 Span 6 – South Face Girder G at West Splice Plate Looking Northeast

7/23/2019

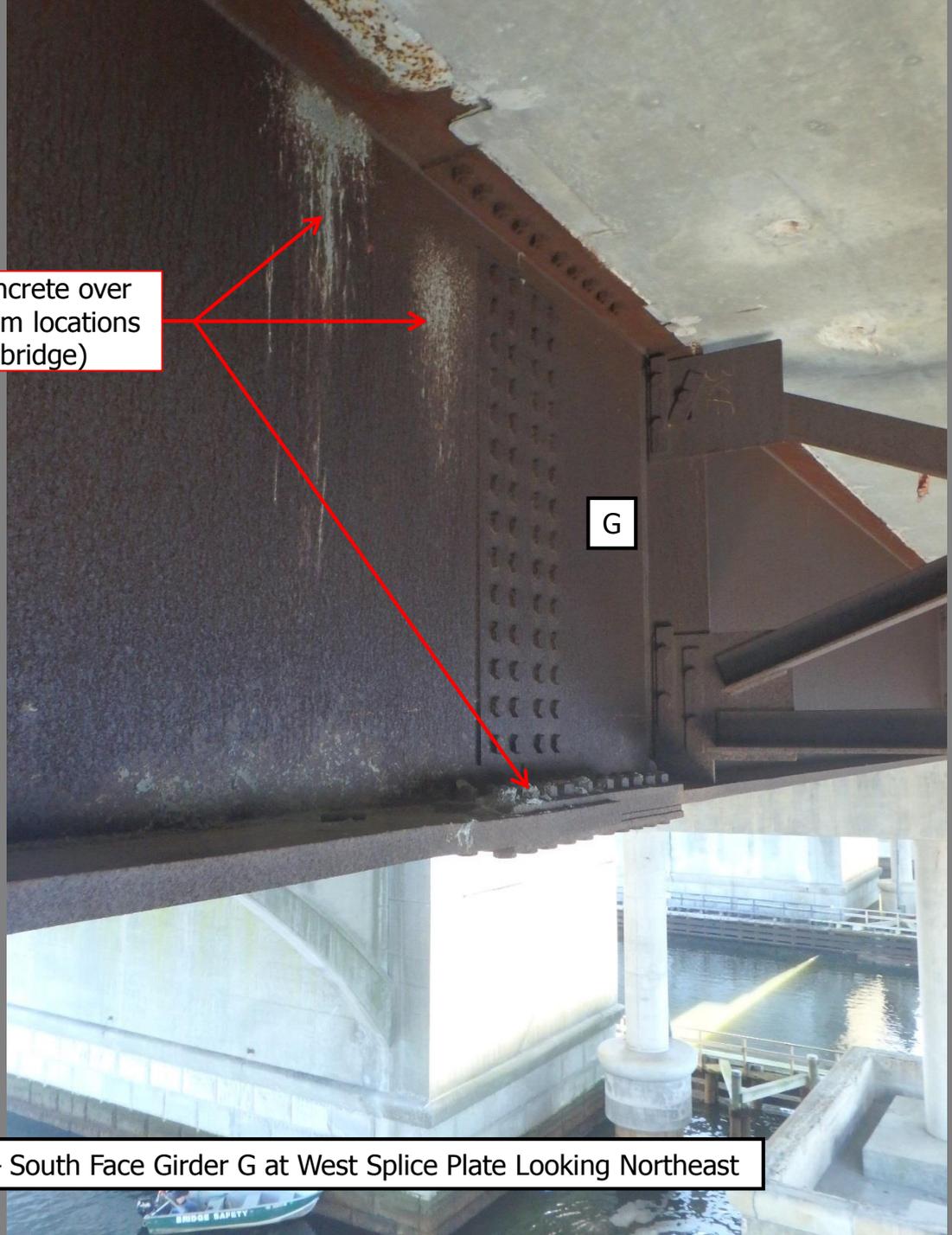


Photo # 47

Active leakage from anchor bolt hole

H

Scattered hairline cracks with and without efflorescence

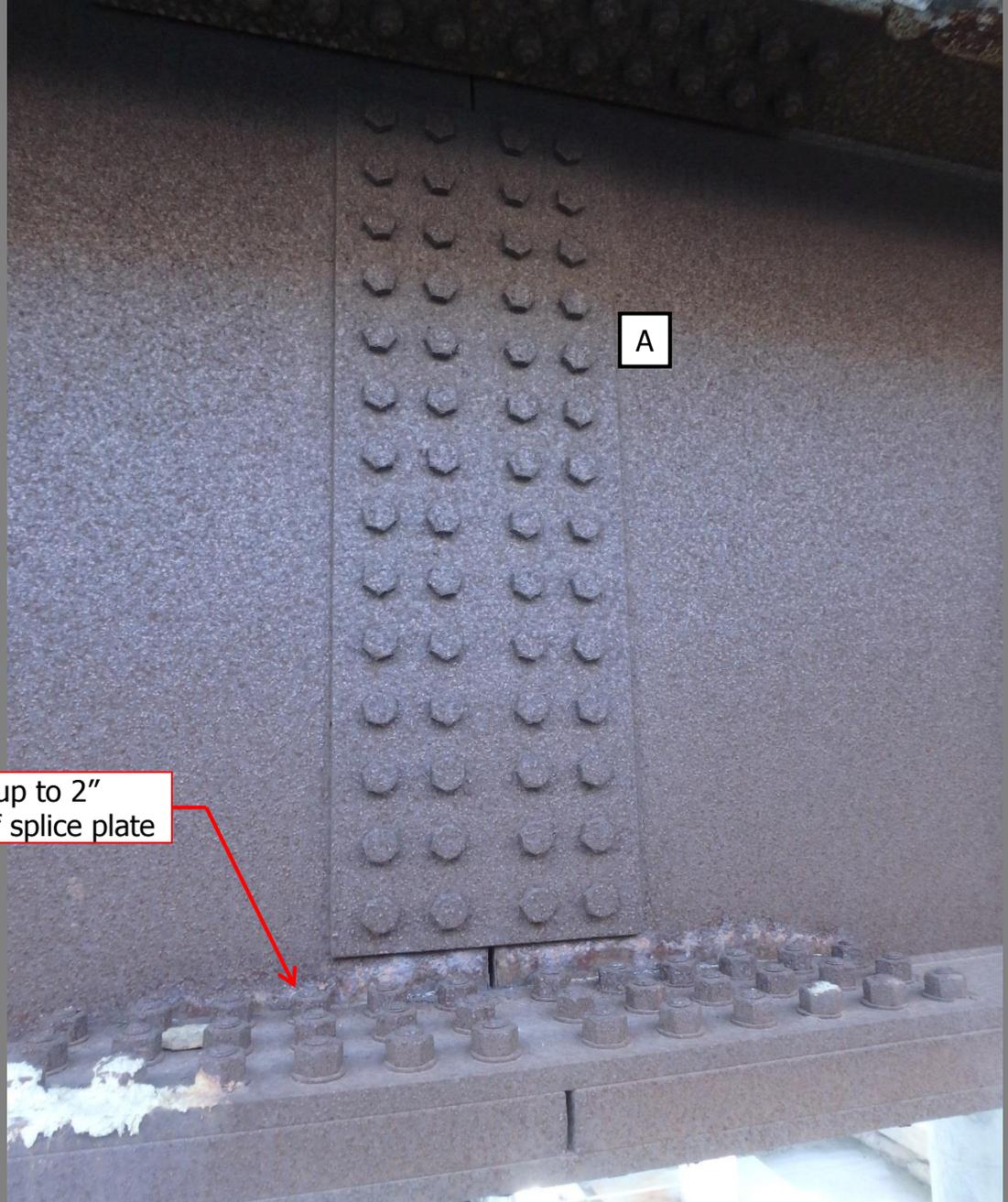
G

Bridge #020001 Span 6 – Bay G Deck Underside Looking North

7/23/2019



Photo # 48



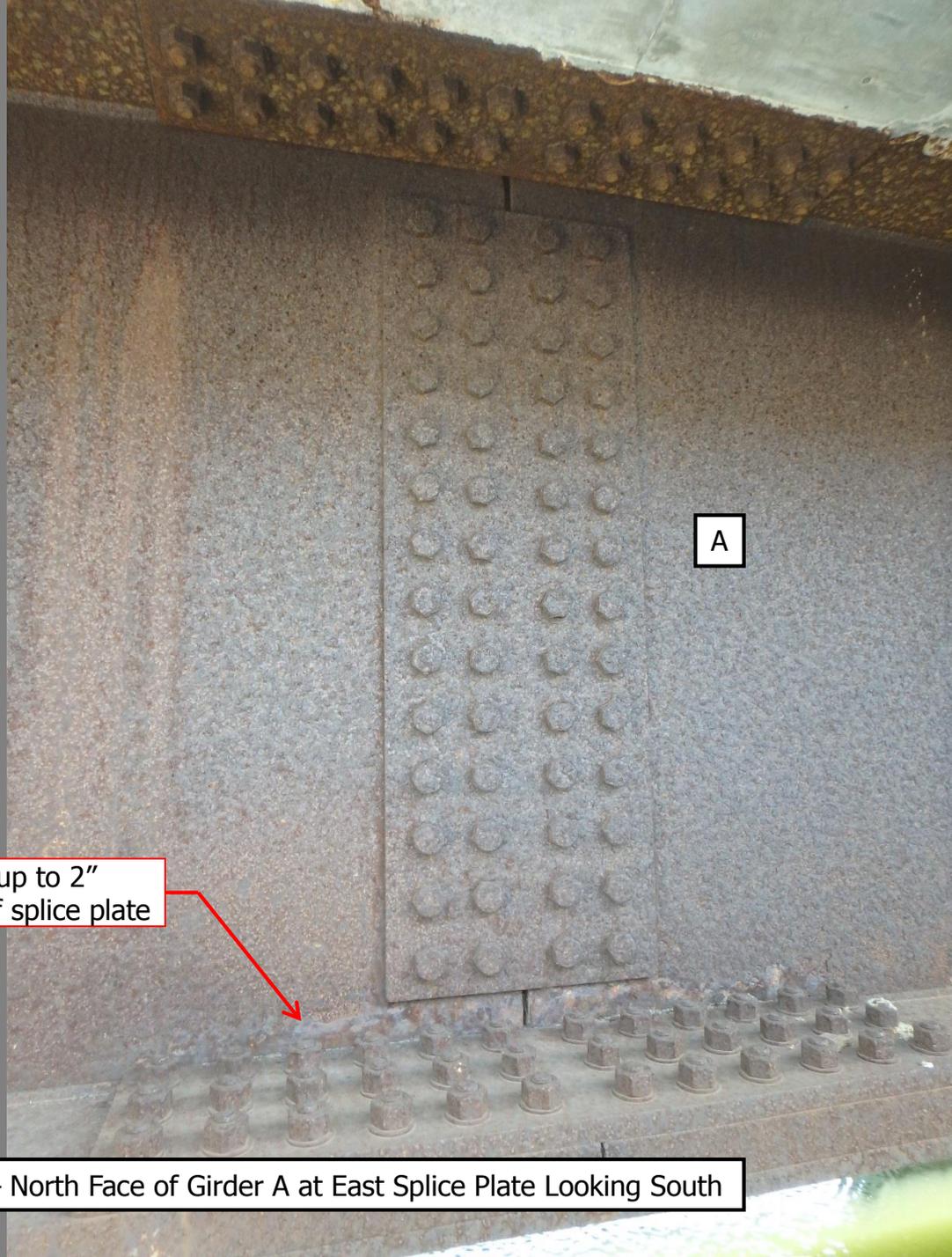
A

Minor laminar rust up to 2" high x full length of splice plate

Bridge #020001 Span 7 – North Face of Girder A at West Splice Plate Looking South

7/23/2019

Photo # 49



A

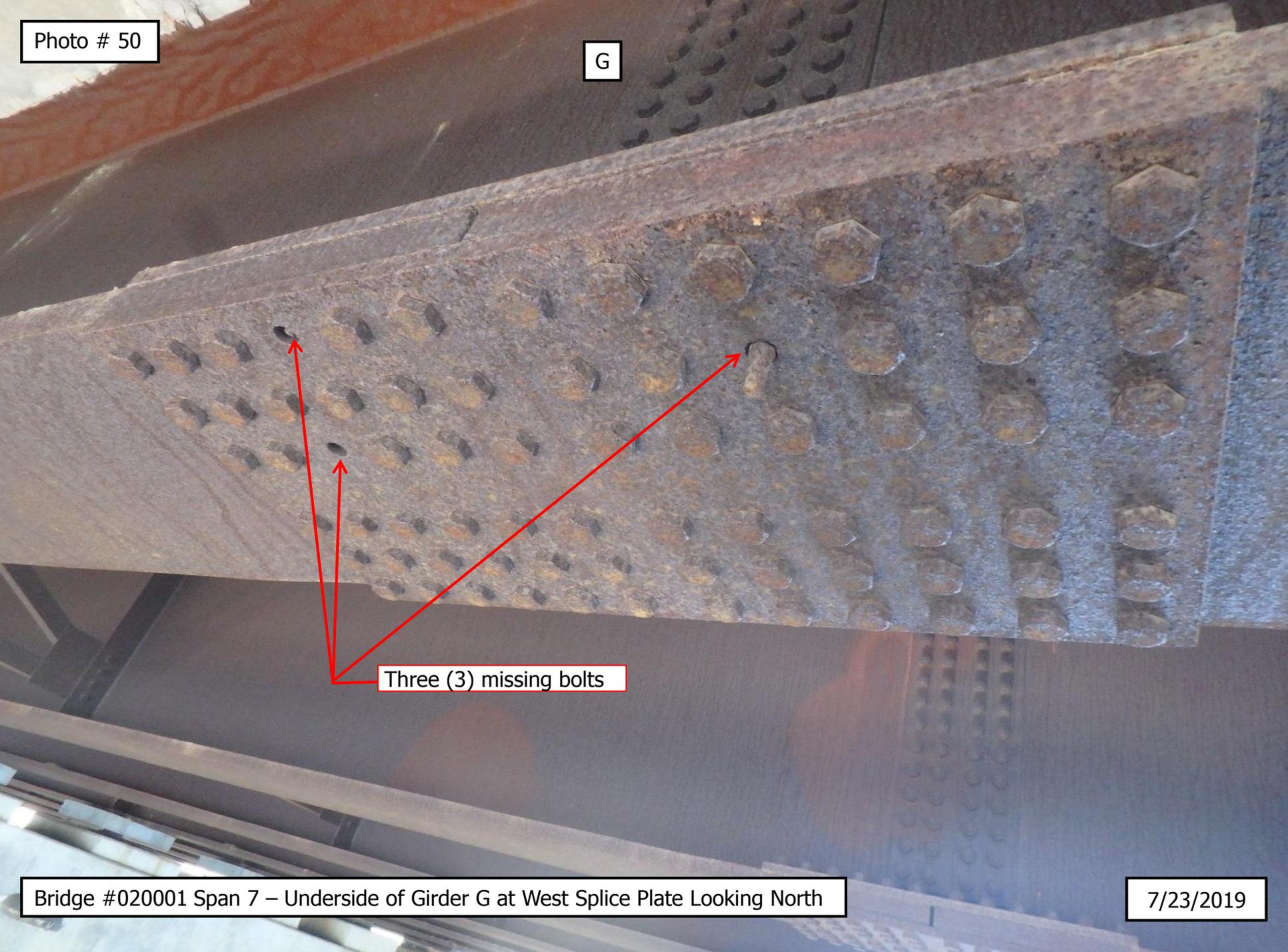
Minor laminar rust up to 2"
high x full length of splice plate

Bridge #020001 Span 7 – North Face of Girder A at East Splice Plate Looking South

7/23/2019

Photo # 50

G

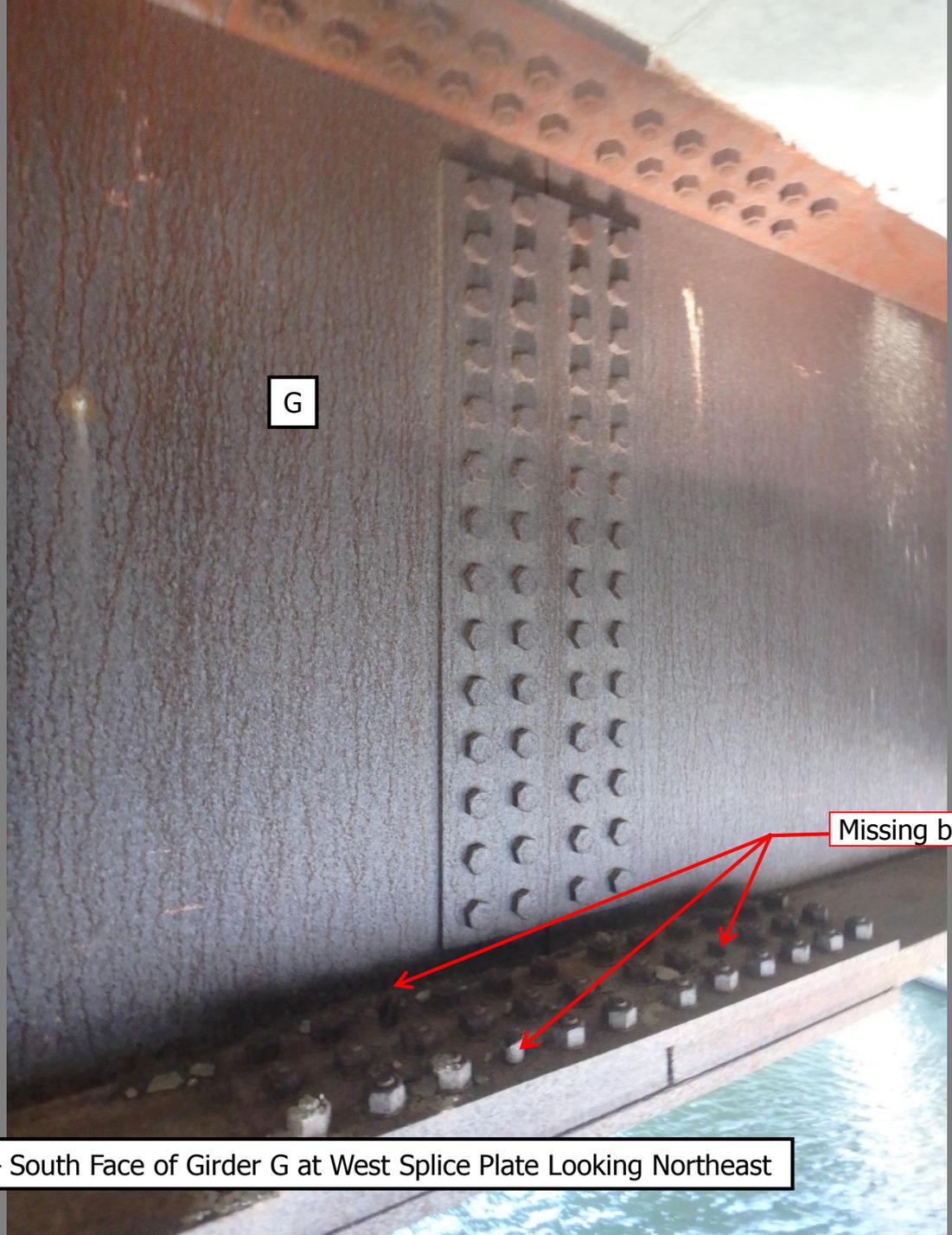


Three (3) missing bolts

Bridge #020001 Span 7 – Underside of Girder G at West Splice Plate Looking North

7/23/2019

Photo # 51



G

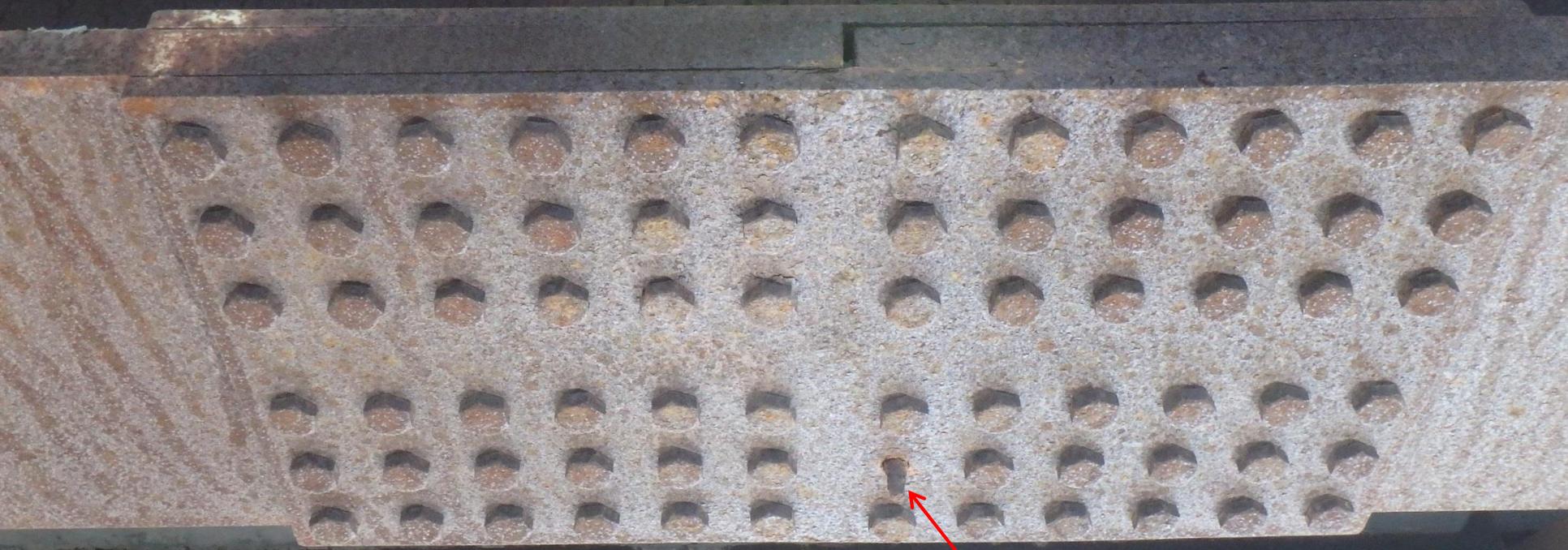
Missing bolts and nuts

Bridge #020001 Span 7 – South Face of Girder G at West Splice Plate Looking Northeast

7/23/2019

Photo # 52

G



One (1) missing bolt

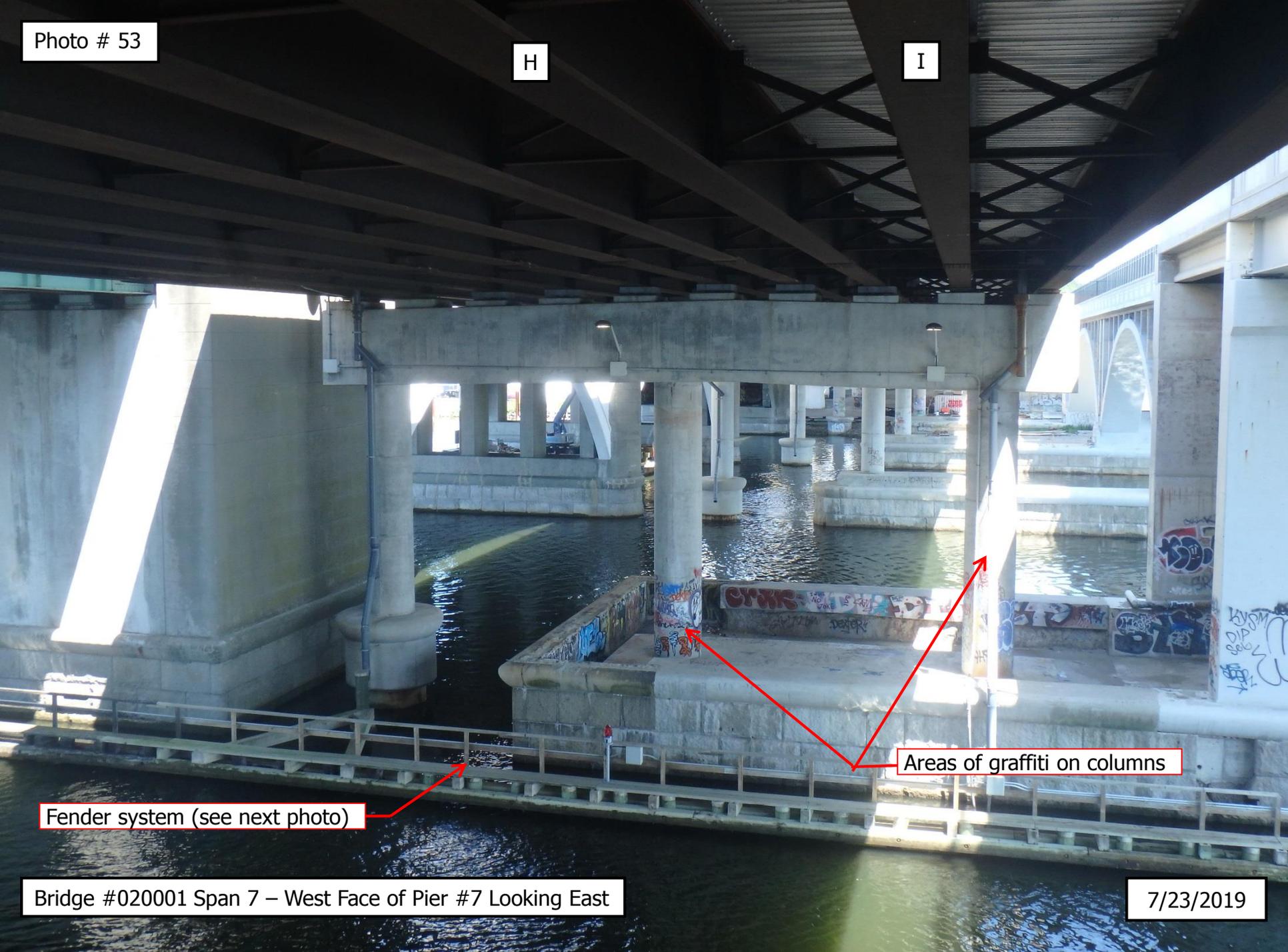
Bridge #020001 Span 7 – Underside of Girder G at East Splice Plate Looking North

7/23/2019

Photo # 53

H

I



Fender system (see next photo)

Areas of graffiti on columns

Bridge #020001 Span 7 – West Face of Pier #7 Looking East

7/23/2019

Photo # 54



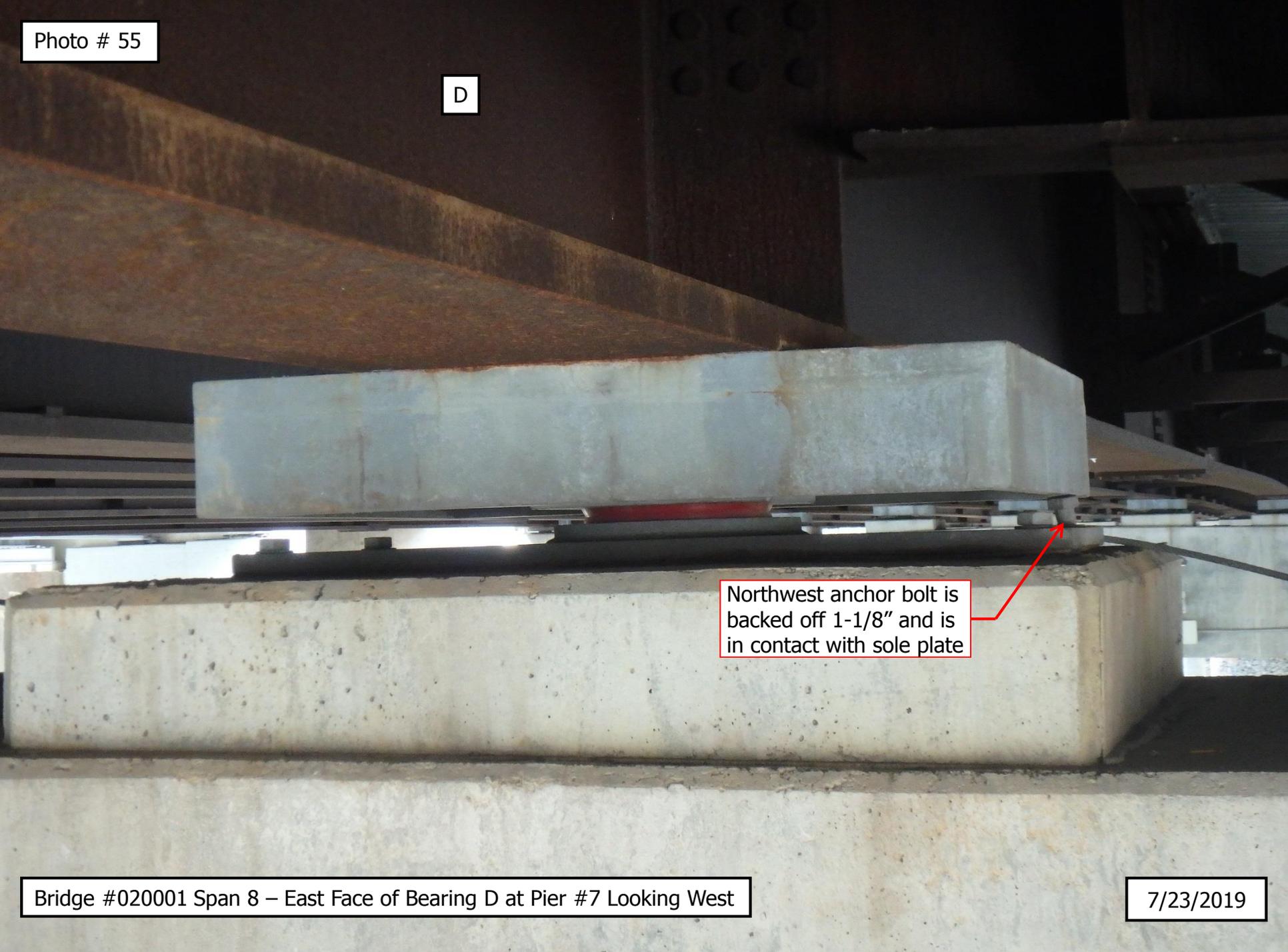
Splits and checks throughout

Bridge #020001 Span 7 – Fender System in Front of Pier #7 Looking Southeast

7/23/2019

Photo # 55

D

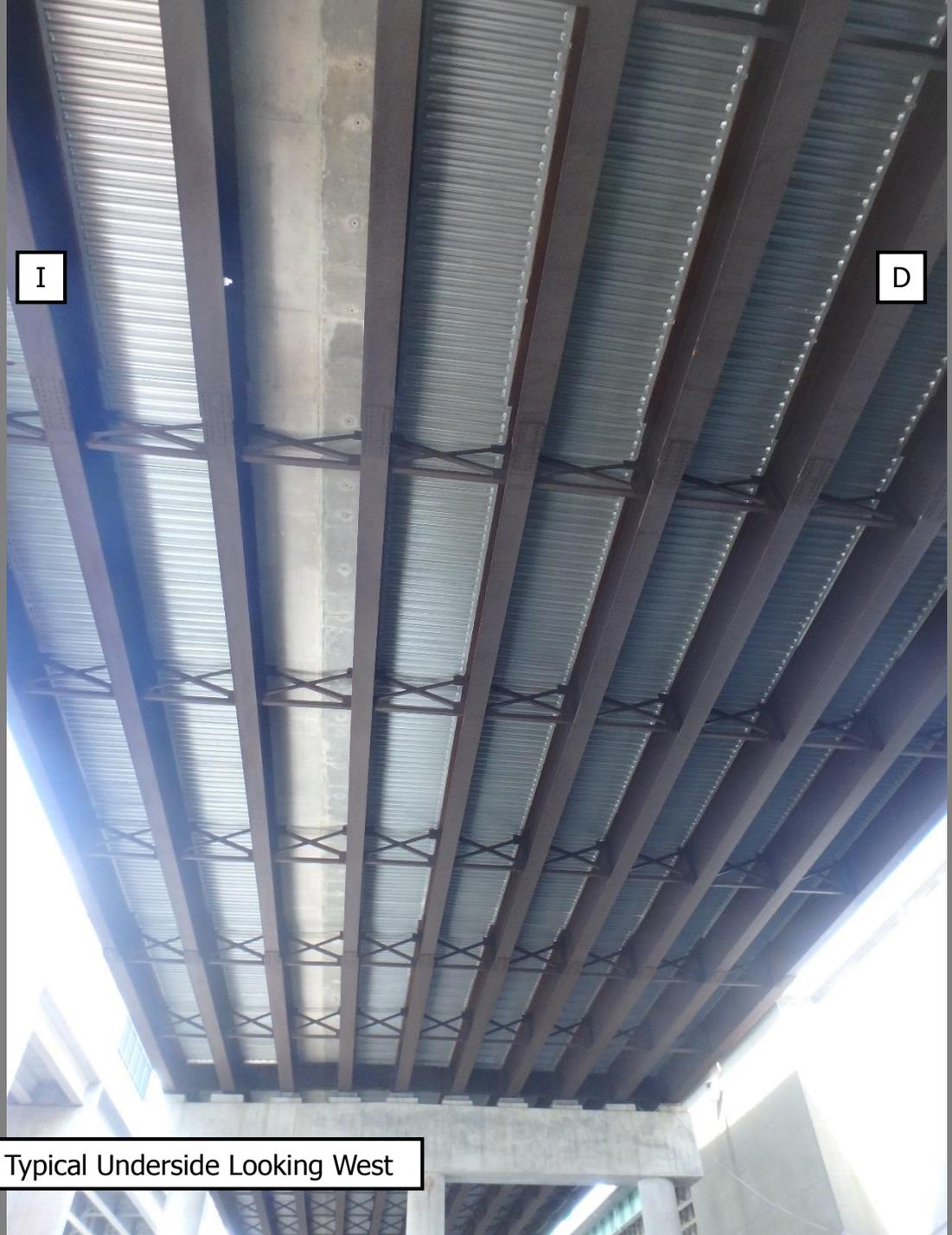


Northwest anchor bolt is backed off 1-1/8" and is in contact with sole plate

Bridge #020001 Span 8 – East Face of Bearing D at Pier #7 Looking West

7/23/2019

Photo # 56



I

D

Bridge #020001 Span 8 - Typical Underside Looking West

7/23/2019

Photo # 57

G

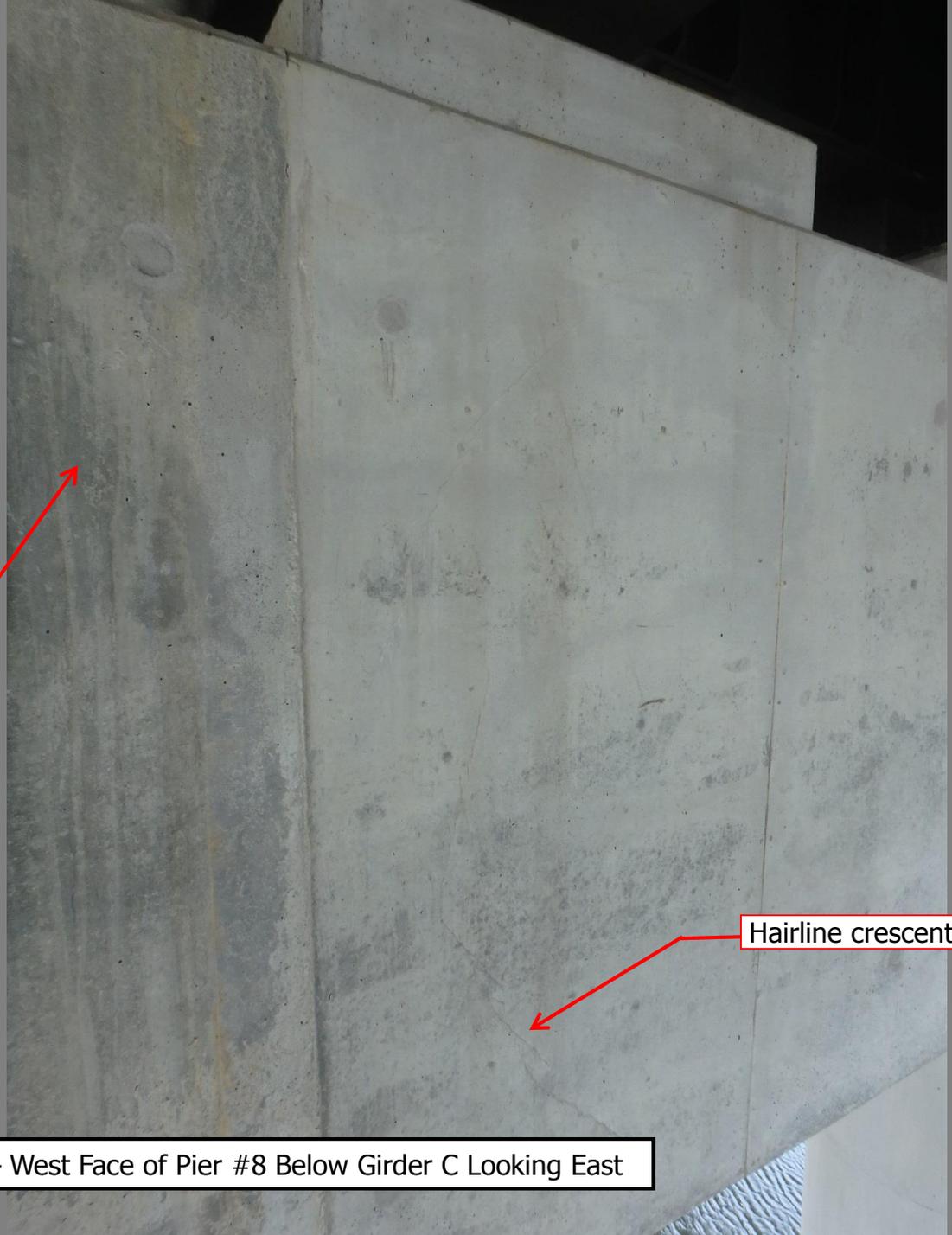
Splice plate is bent upward
approximately 1/8"

Concrete overpour

Bridge #020001 Span 8 – North Face of Girder G at East Splice Plate Looking Southwest

7/23/2019

Photo # 58



Efflorescence and moisture staining

Hairline crescent shaped cracks

Bridge #020001 Span 8 – West Face of Pier #8 Below Girder C Looking East

7/23/2019

Photo # 59



Full height vertical hairline
crack with efflorescence

Bridge #020001 Span 8 – West Face of Pier #8 Below Girder D Looking East

7/23/2019

Photo # 60

J

I

Hairline vertical and crescent shaped cracks with and without efflorescence throughout

Areas of graffiti on columns

Bridge #020001 Span 9 – East Face of Pier #8 Looking Northwest

7/23/2019

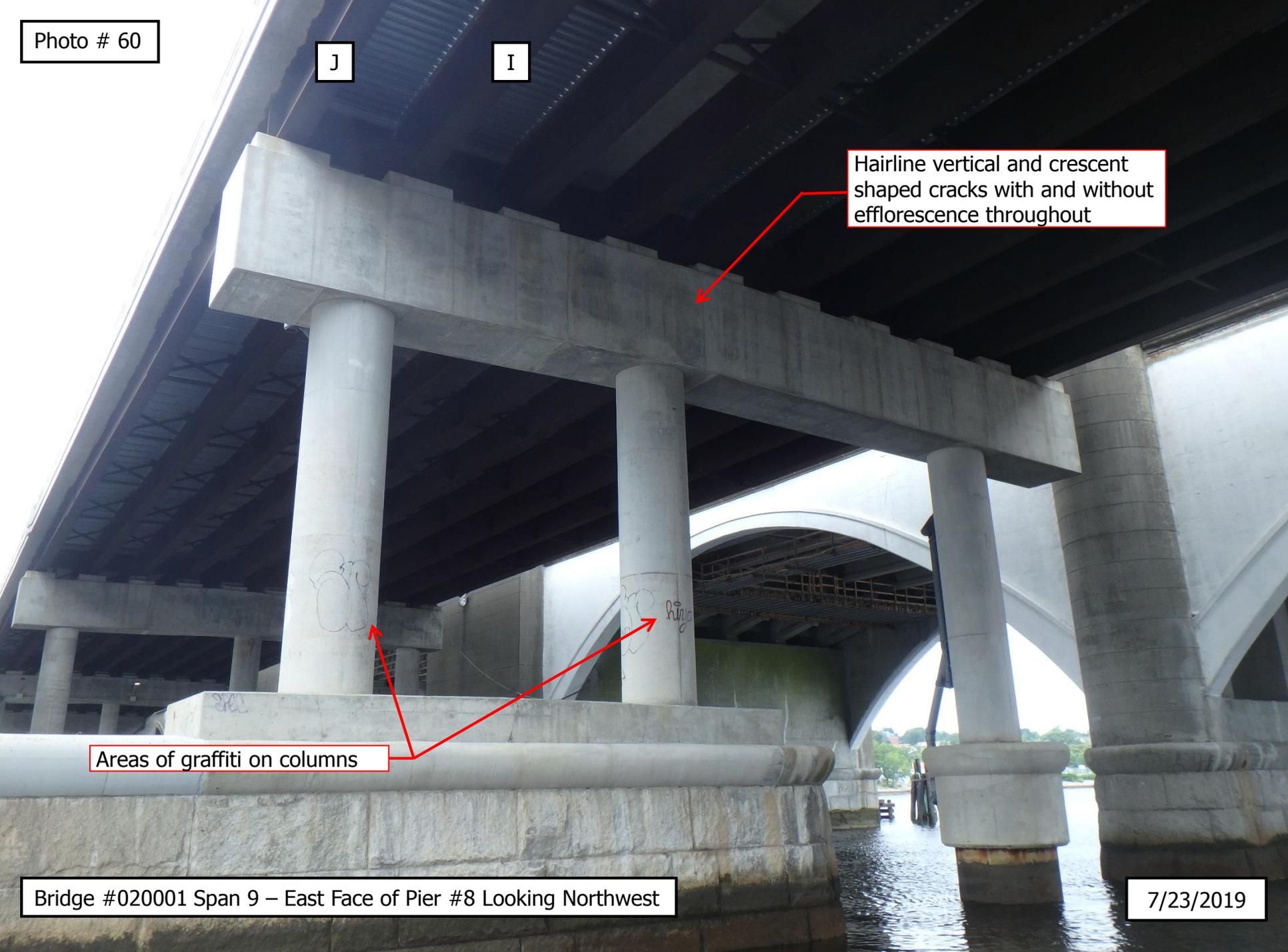
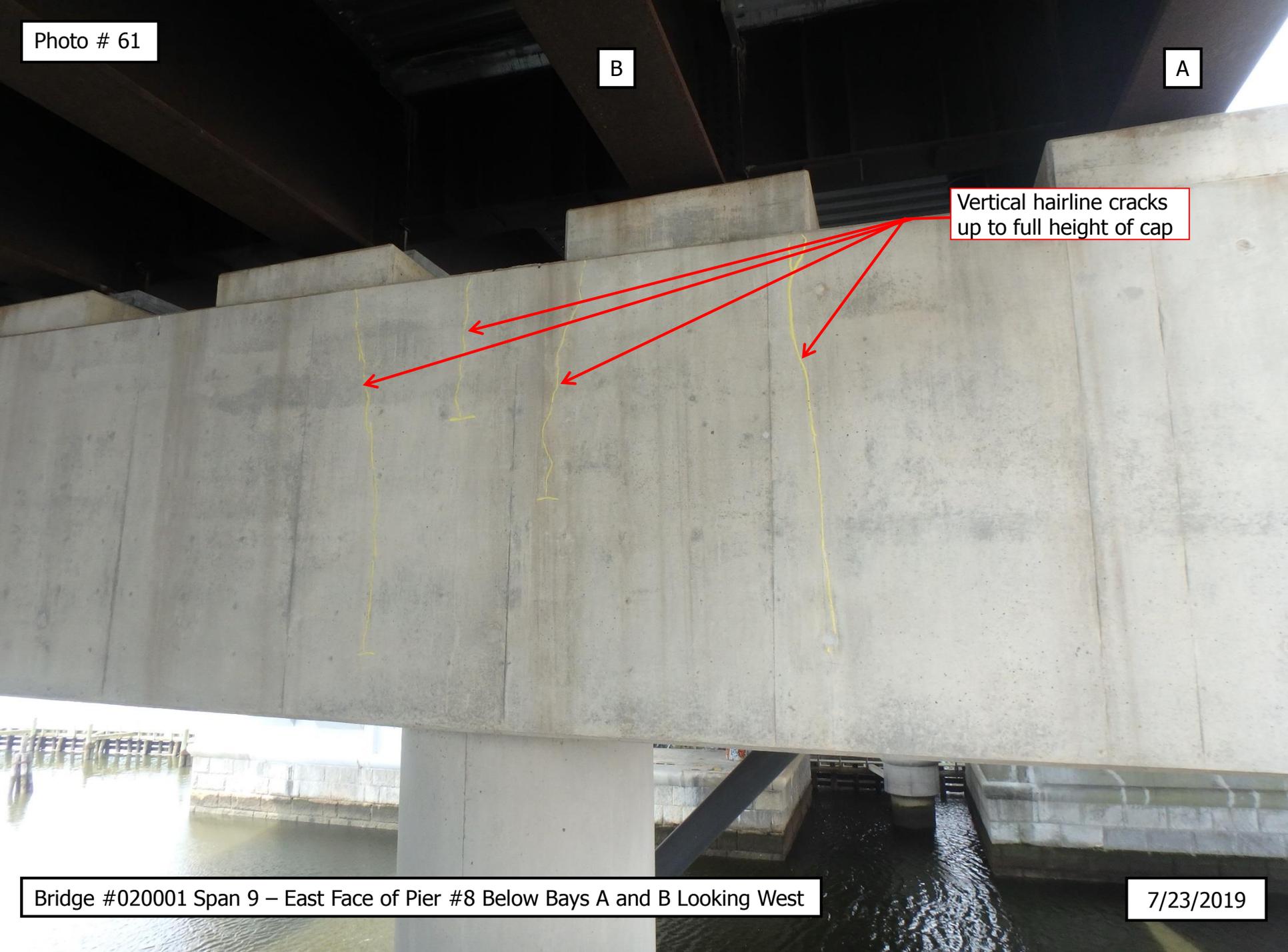


Photo # 61

B

A

Vertical hairline cracks
up to full height of cap



Bridge #020001 Span 9 – East Face of Pier #8 Below Bays A and B Looking West

7/23/2019

I

Hairline vertical cracks up to full height of pier cap

J

Hairline crescent shaped cracks with efflorescence

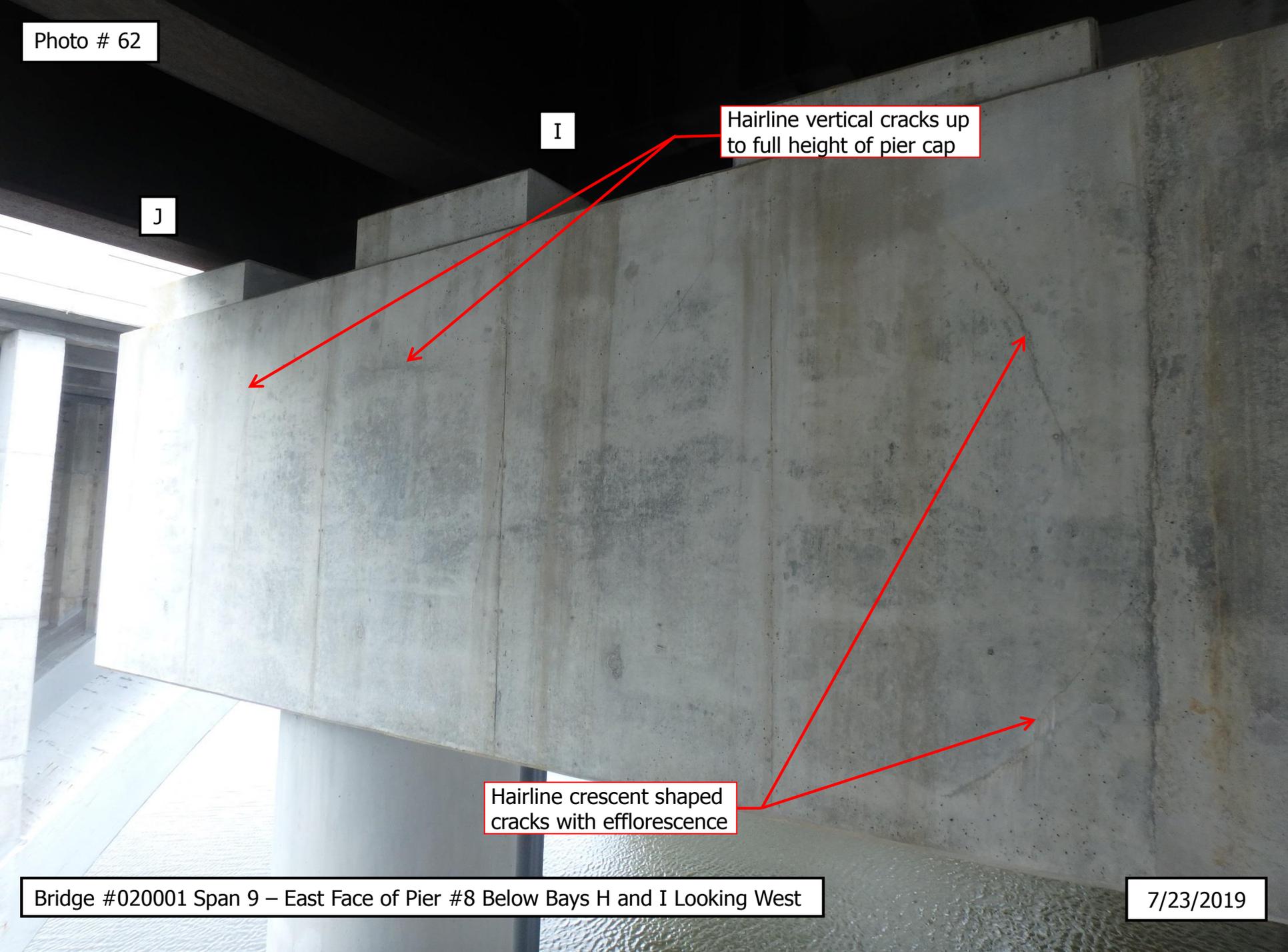
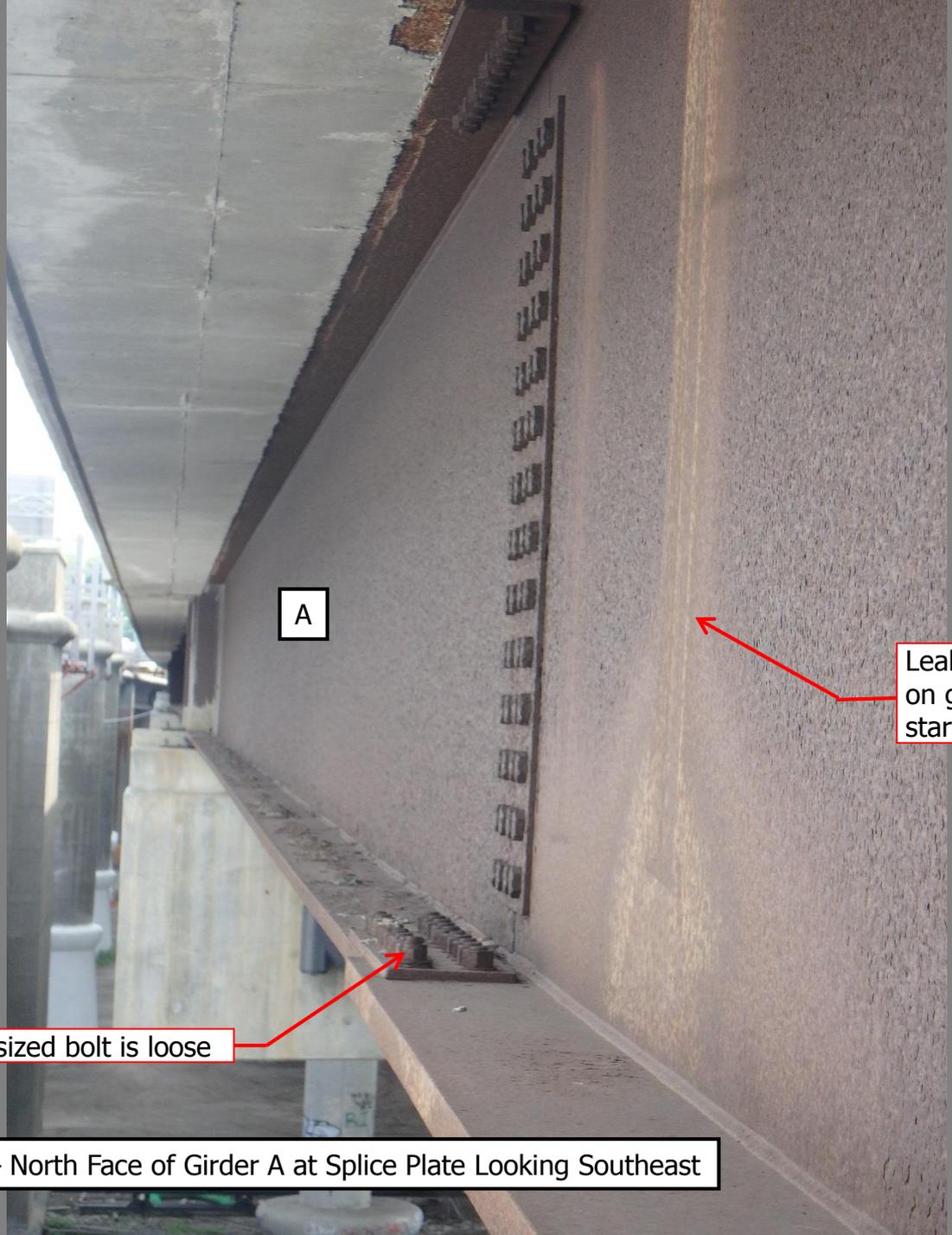


Photo # 63



A

Leakage from deck underside on girder is causing rust to start flaking up to full height

Undersized bolt is loose

Bridge #020001 Span 9 – North Face of Girder A at Splice Plate Looking Southeast

7/23/2019

Photo # 64

C

Up to ¼" high gap between
the masonry plate and pedestal
at the north and south ends

Bridge #020001 Span 9 – East Face of Bearing C at Pier #8 Looking West

7/23/2019

Photo # 65



Areas of missing mortar
(typical condition)

Up to full height
vertical crack in stone

Bridge #020001 Span 9 – Pier #9 Wall Between Bridges 020001 & 020021 Looking East

7/23/2019

Photo # 66



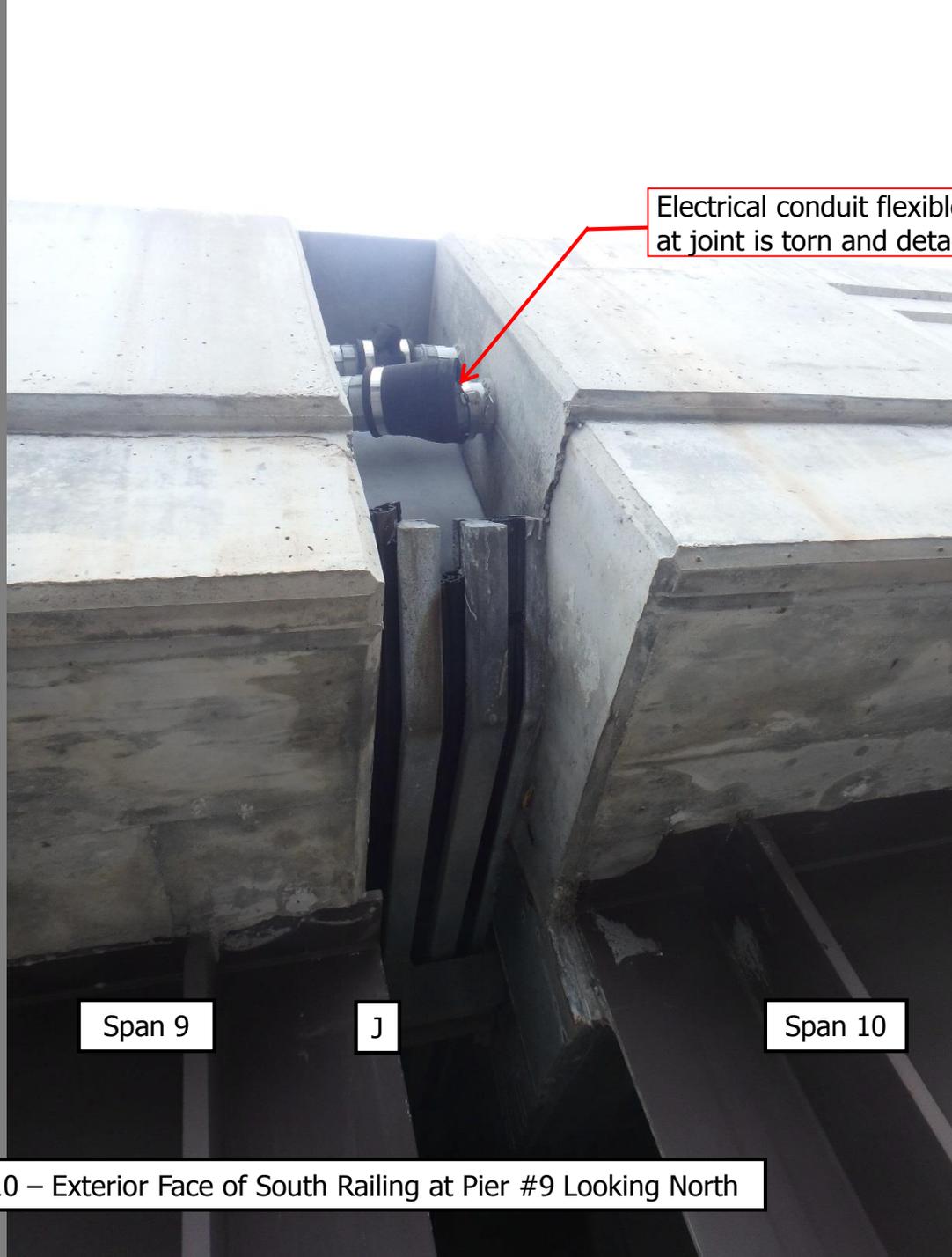
Washer plate at top cross member is bearing on adjacent washer and is bent slightly

H

Bridge #020001 Span 9 – West Face of 1st Intermediate Cross Frame From Pier #9 in Bay G Looking East

7/23/2019

Photo # 67



Electrical conduit flexible coupling at joint is torn and detached

Span 9

J

Span 10

Bridge #020001 Span 9/10 – Exterior Face of South Railing at Pier #9 Looking North

7/23/2019

Photo # 68

C

Missing anchor bolt nuts

Bearing is offset
approximately 2.5" to the
north of the bearing centerline

Bridge #020001 Span 10 – East Face of Bearing C at Pier #9 Looking West

7/23/2019

I

J

Graffiti on columns and pier wall (typical condition)

22' long section of exposed footing



Photo # 70

Minor rust on top flange adjacent to rusted SIP form

Moderate rust on SIP form

A

B

Bridge #020001 Span 11 – Bay A Between 1st and 2nd Intermediate Cross Frames from Pier #10 Looking East

7/23/2019



Photo # 71

H

All four (4) anchor bolts are backed off up to $\frac{1}{4}$ " high

Gap between masonry plate and concrete pedestal up to $\frac{3}{4}$ " high

Bridge #020001 Span 12 – West Face of Bearing H at Pier #11 Looking East

7/23/2019

Photo # 72

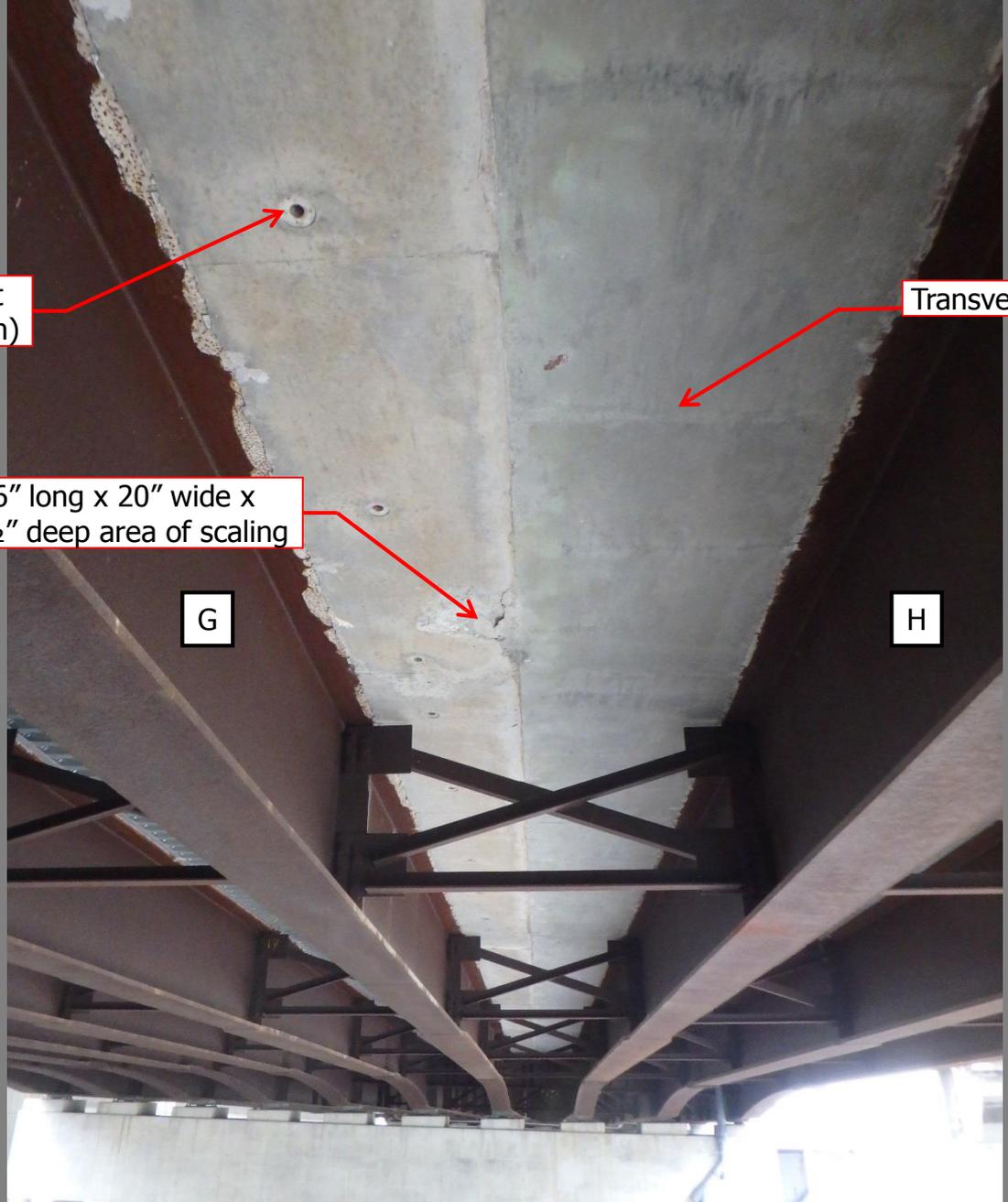
Approximately 60" high x
.025" wide vertical hairline
crack with efflorescence

Leakage staining on pier

Bridge #020001 Span 12 – East Face of Pier #11 Below Bay A Looking Northwest

7/23/2019

Photo # 73



Anchor bolt holes are not patched (typical condition)

Transverse hairline cracks

36" long x 20" wide x 1/2" deep area of scaling

G

H

Bridge #020001 Span 13 – Bay G Deck Underside Near Pier #12 Looking East

7/23/2019

Photo # 74

Span 13

Span 14

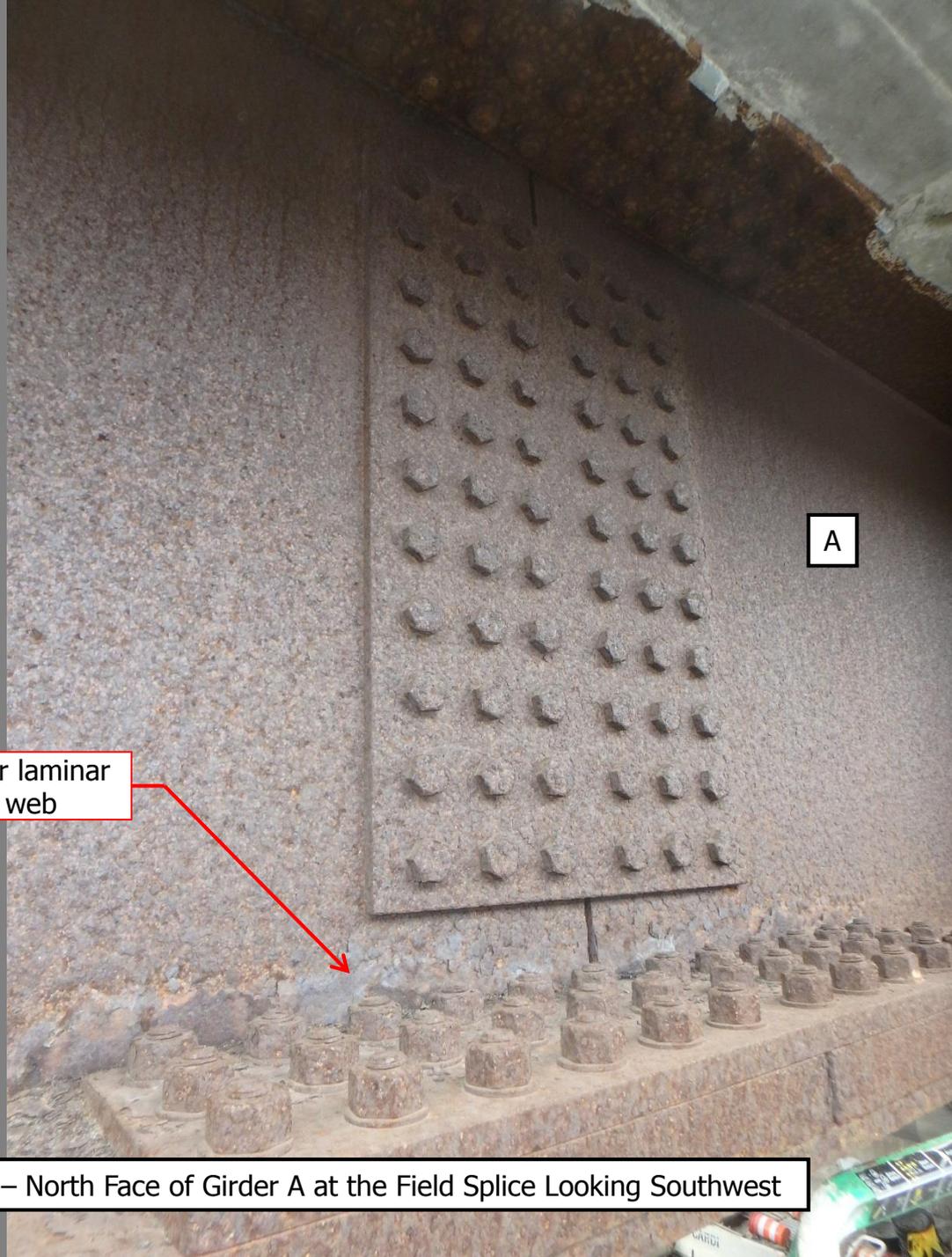
J

Gap between masonry plate and concrete pedestal up to 5/8" high

Bridge #020001 South Face of Girder J at Pier #13 Looking Northeast

7/23/2019

Photo # 75



3" high x 36" long minor laminar
rusting along bottom of web

Bridge #020001 Span 13 – North Face of Girder A at the Field Splice Looking Southwest

7/23/2019

Photo # 76

A

5' long diagonal hairline crack



Bridge #020001 Span 14 – East Face of Pier #13 Cap Below Bay A Looking Northwest

7/23/2019

Photo # 77

C

B



Vertical hairline cracks up to full height with and without efflorescence

Bridge #020001 Span 14 – East Face of Pier #13 Cap Below Bay B Looking Northwest

7/23/2019

Photo # 78

6" diameter x 3/4" deep edge spall



B

A

Bridge #020001 Span 14 – East Face of Pier #13 Cap Below Bay D Looking Northwest

7/23/2019

Photo # 79

Backed off nut in top flange splice plate



5/4 ↑

B

22 S

Bridge #020001 Span 14 – North Face of Girder B at the East Splice Plate Looking South

7/23/2019

Photo # 80

A

21s

3" high x 62" long minor laminar rust along bottom of web



Bridge #020001 Span 14 – North Face of Girder A at the East Field Splice Looking Southwest

7/23/2019

Photo # 81

A

Minor flaking rust throughout underside of girder A



Bridge #020001 Span 14 – Underside of Girder A Near the East Splice Plate Looking East

7/23/2019

Photo # 82

24" wide x 7" high x
up to 12" deep spall



A

Bridge #020001 Backwall Behind Girder A at East Abutment #2 Looking East

7/23/2019

B

C

Vertical hairline cracks up to full height with efflorescence



Photo # 84

Widespread transverse hairline cracks with efflorescence on deck overhang (typical condition)



L

J

27'-2" ↓

I-195

Bridge #020001 Span 14 – Underside of Deck Overhang Near Midspan Looking Northwest

7/23/2019

Photo # 85

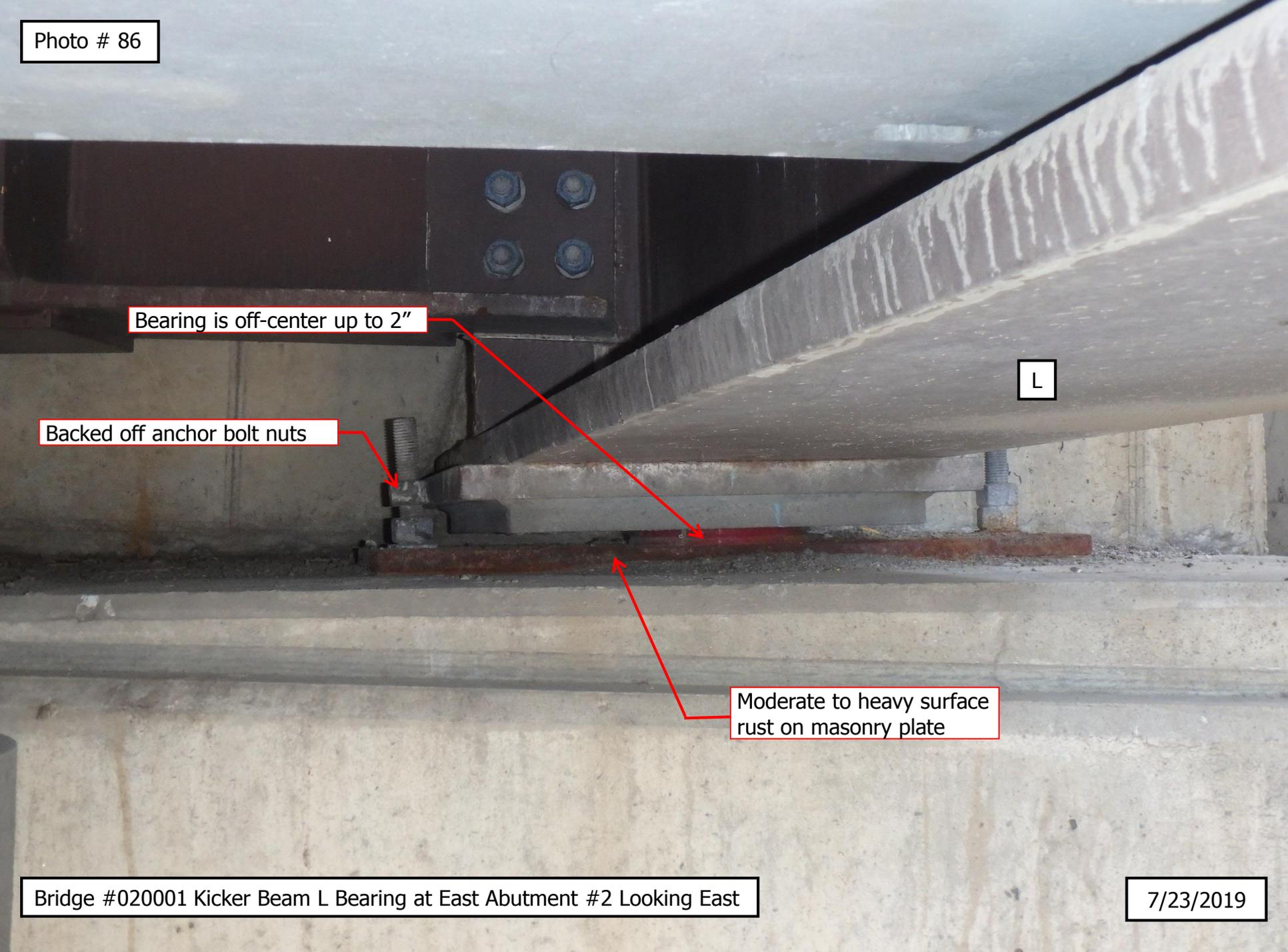
K

Bearing is approximately 2" off-center

Bridge #020001 Kicker Beam K Bearing at East Abutment #2 Looking East

7/23/2019

Photo # 86



Bearing is off-center up to 2"

Backed off anchor bolt nuts

Moderate to heavy surface rust on masonry plate

Bridge #020001 Kicker Beam L Bearing at East Abutment #2 Looking East

7/23/2019



A

12" wide x 30" high x 6" deep spall below the beam seat with an adjacent full height x 12" wide hollow area

Girder ends are painted at both abutments and at piers #4 and #9

Random hairline cracks in architectural finish with light vegetation growth in front of return wall

H

I

Leakage staining throughout abutment

Clogged catch basin with standing water up to full length of the wall

Random locations of hairline cracks with efflorescence

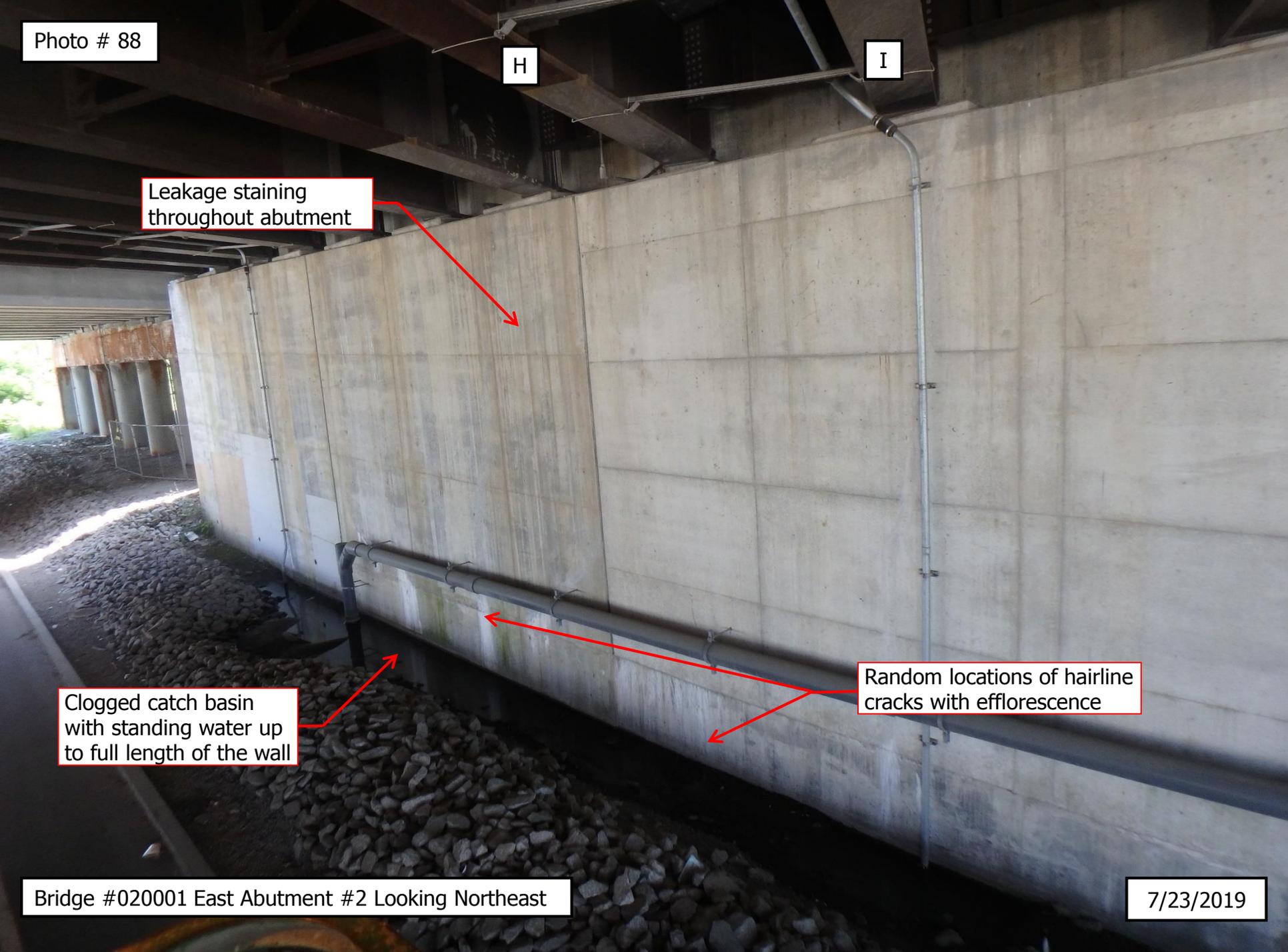


Photo # 89

Horizontal hairline crack up to 30" long with active moisture



Bridge #020001 East Abutment #2 Below Bay D Looking East

7/23/2019