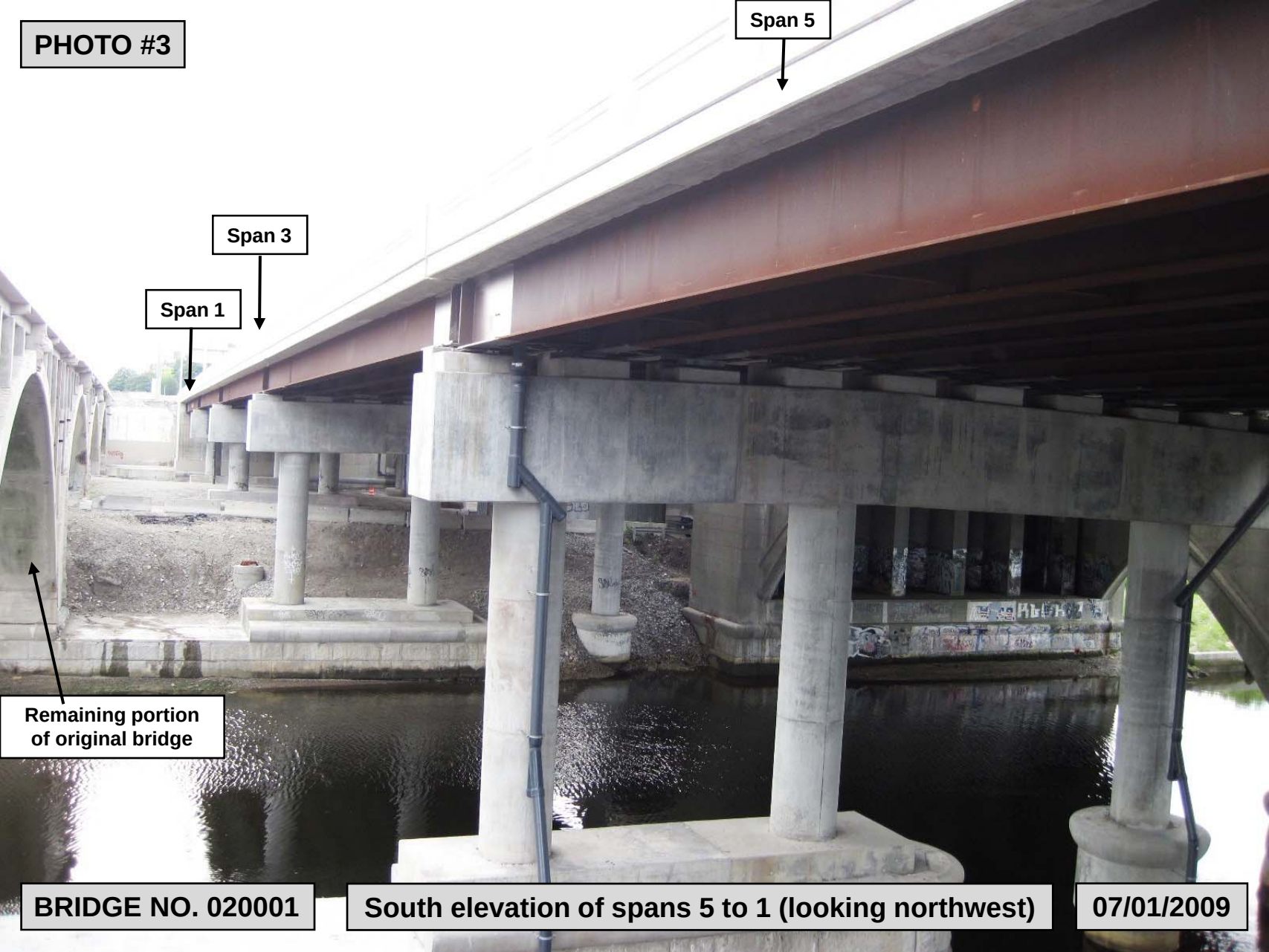

PHOTO #1
WASHINGTON
BRIDGE
NO. 200
BRIDGE NO. 020001
Bridge ID
07/01/2009


PHOTO #2
Old existing bridge still in place
I-195
26-1"
Clearance posting sign for 26'-1" at south side of G-10
West Abutment
Br. 070001
BRIDGE NO. 020001
South elevation of span 1 over Gano Street
07/01/2009


PHOTO #3
Span 5
Span 3
Span 1
Remaining portion of original bridge
BRIDGE NO. 020001
South elevation of spans 5 to 1 (looking northwest)
07/01/2009

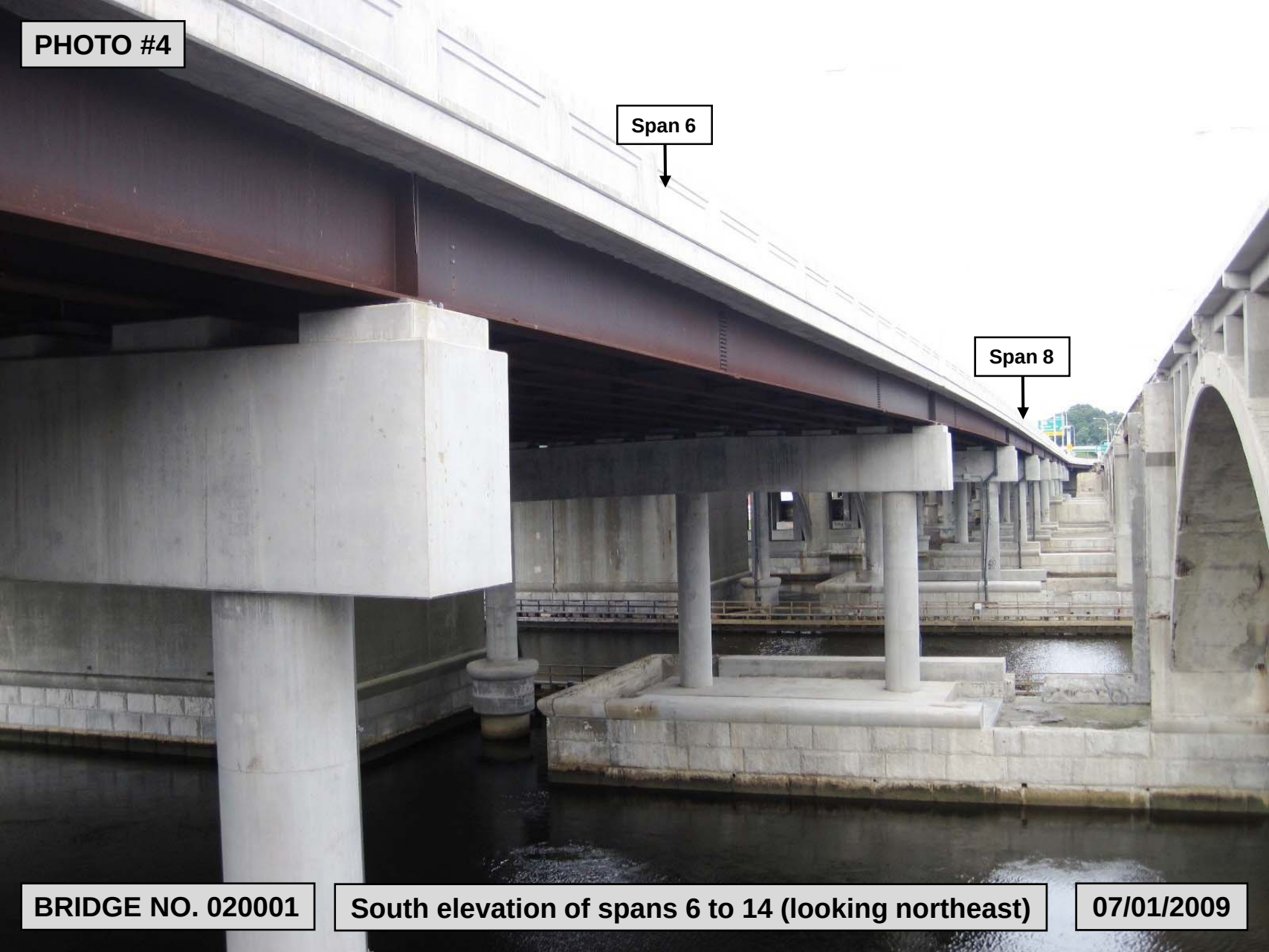
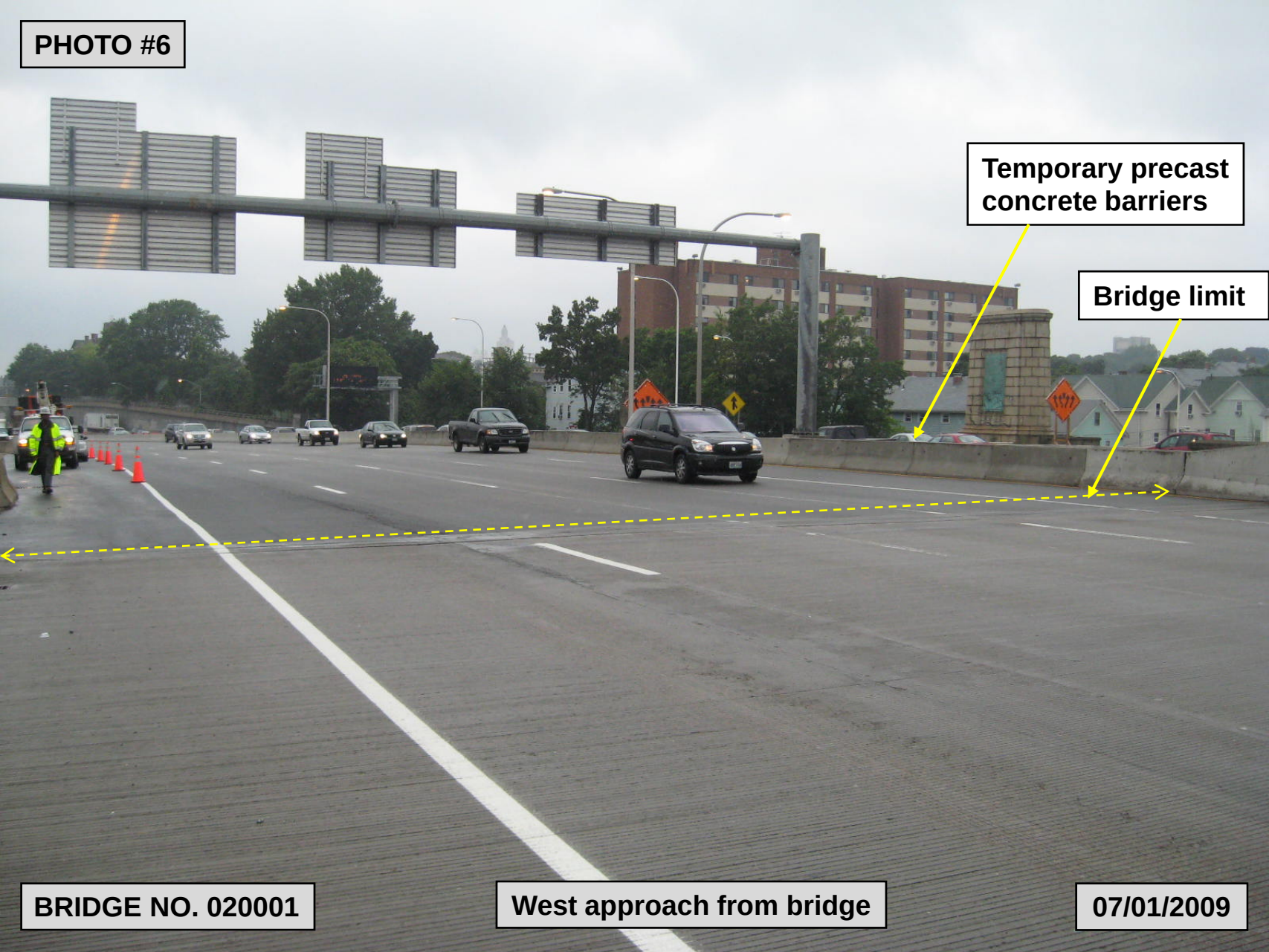

PHOTO #4
Span 6
Span 8
BRIDGE NO. 020001
South elevation of spans 6 to 14 (looking northeast)
07/01/2009


PHOTO #5
Warren Ave
1/2 MILE
Temporary precast concrete barriers (typical on both sides of the west approach)
Light poles bolted to top of concrete parapet (typical along both sides of the bridge)
Bridge limit
BRIDGE NO. 020001
Bridge from west approach
07/01/2009


PHOTO #6
Temporary precast concrete barriers
Bridge limit
BRIDGE NO. 020001
West approach from bridge
07/01/2009

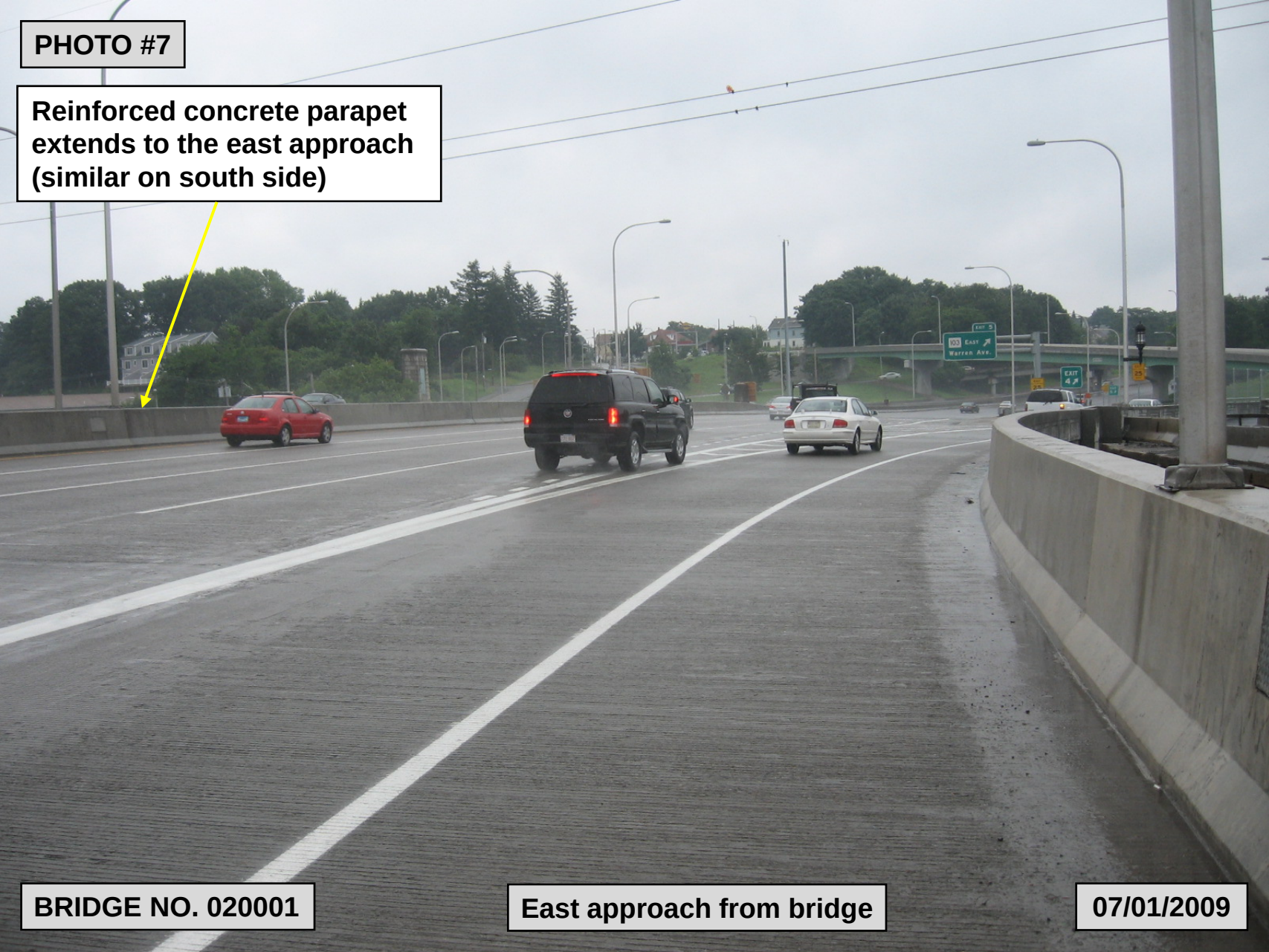
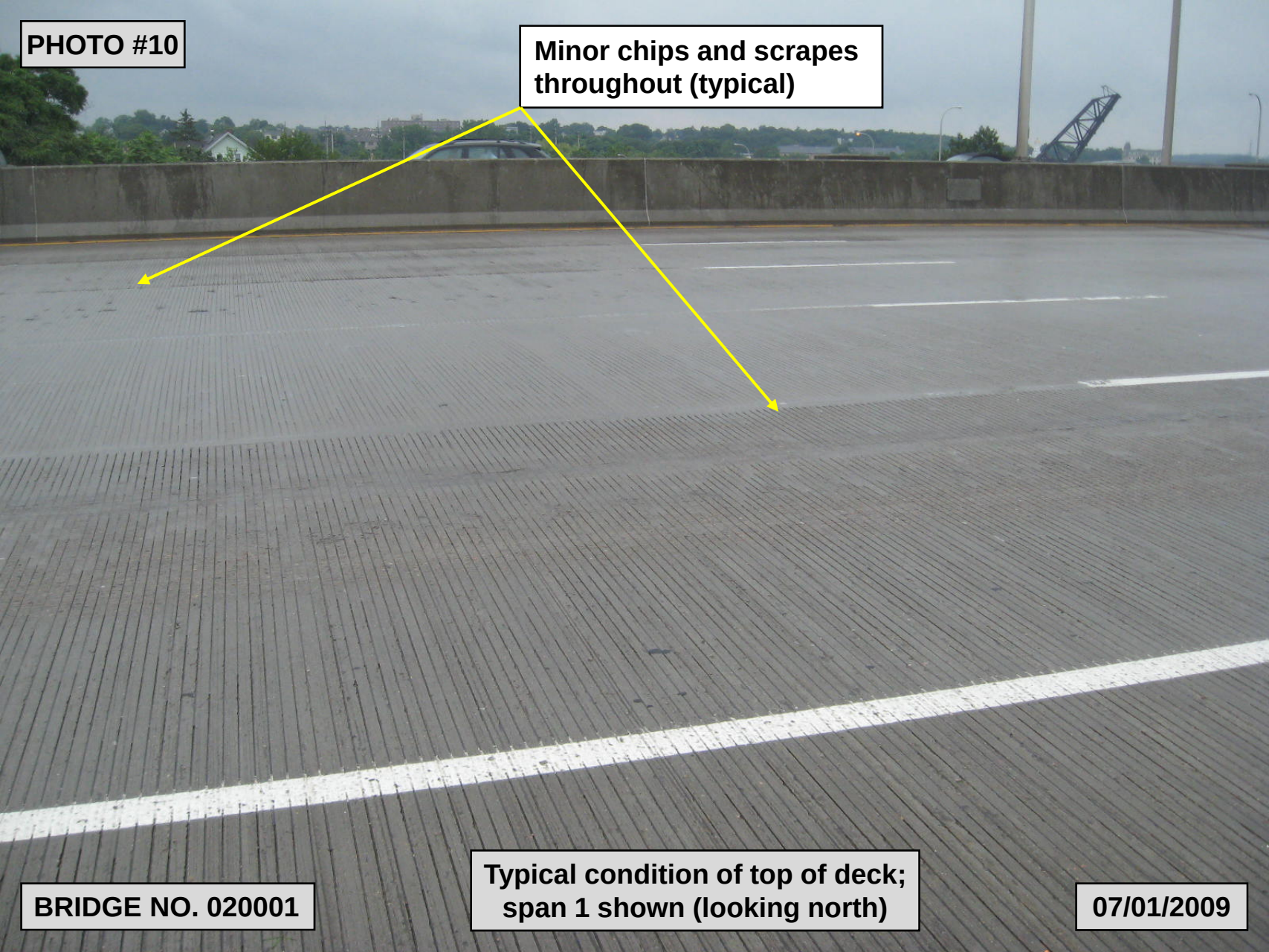
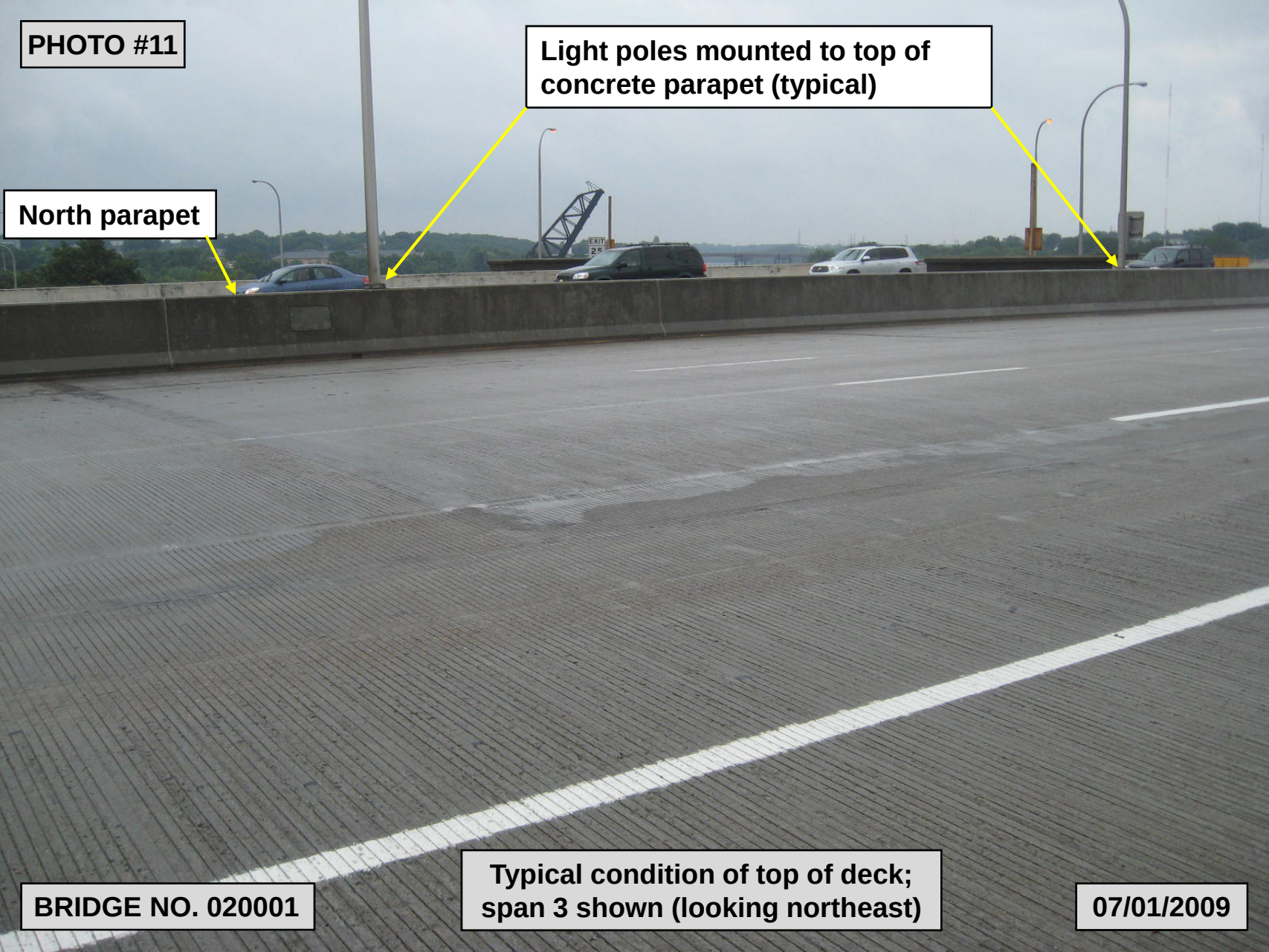
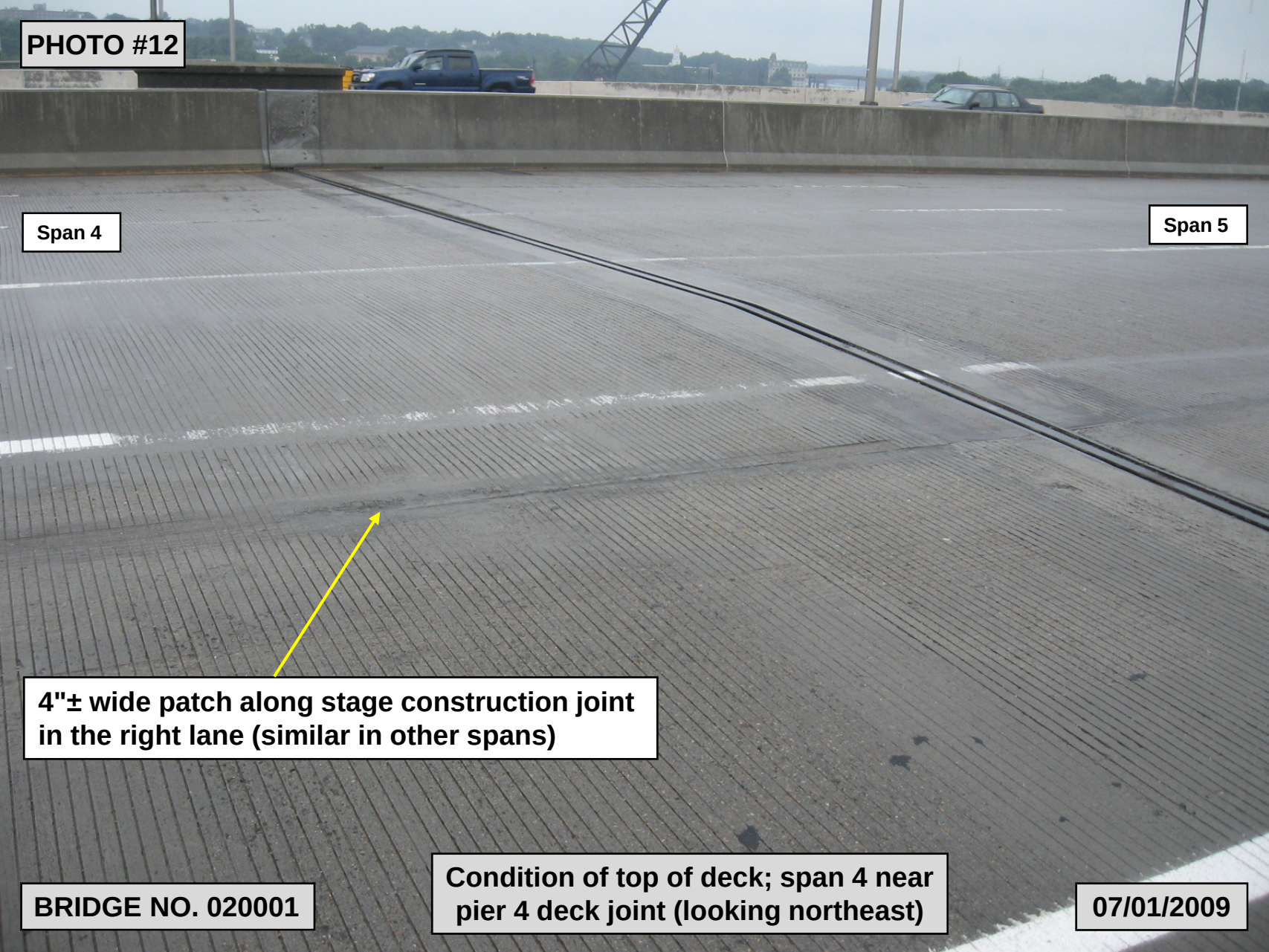

PHOTO #7
Reinforced concrete parapet extends to the east approach (similar on south side)
BRIDGE NO. 020001
East approach from bridge
07/01/2009

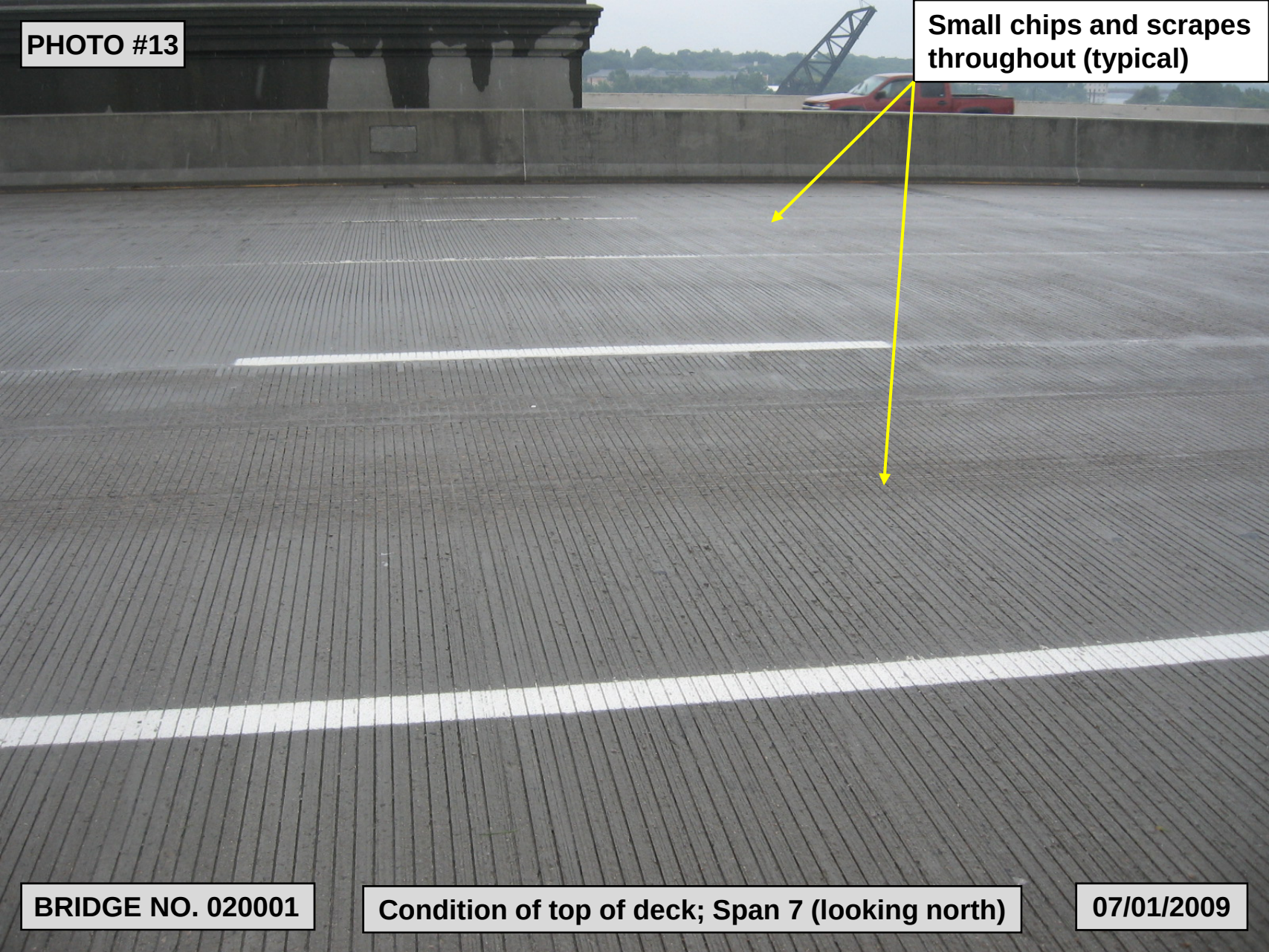

PHOTO #8
Bridge limit
End of approach slab
BRIDGE NO. 020001
Bridge from east approach
07/01/2009

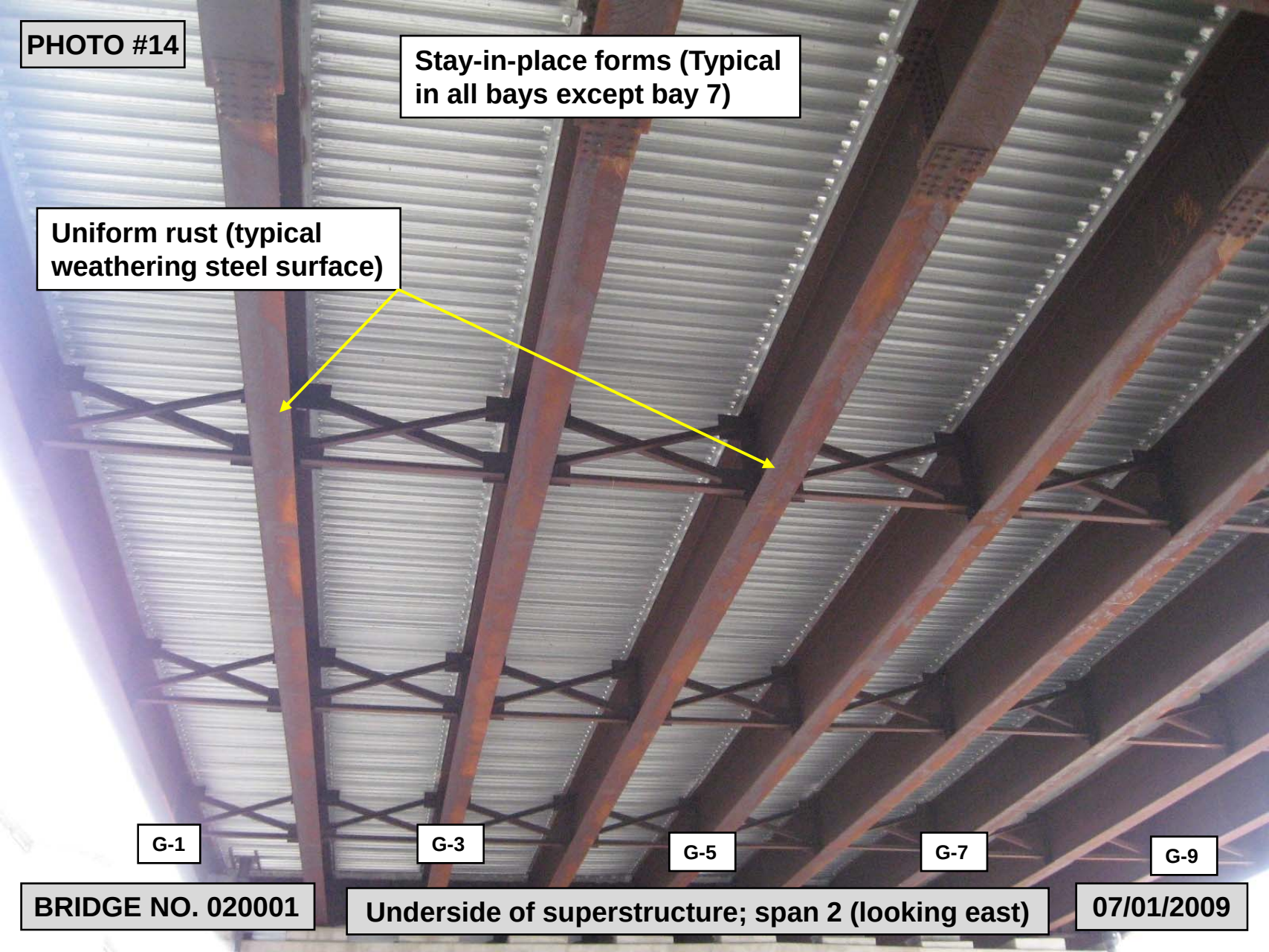

PHOTO #9
Scupper grate is partially clogged with debris (similar at several scupper grates along the bridge)
BRIDGE NO. 020001
Condition of scupper grate (Span 1 along the south shoulder shown)
07/01/2009

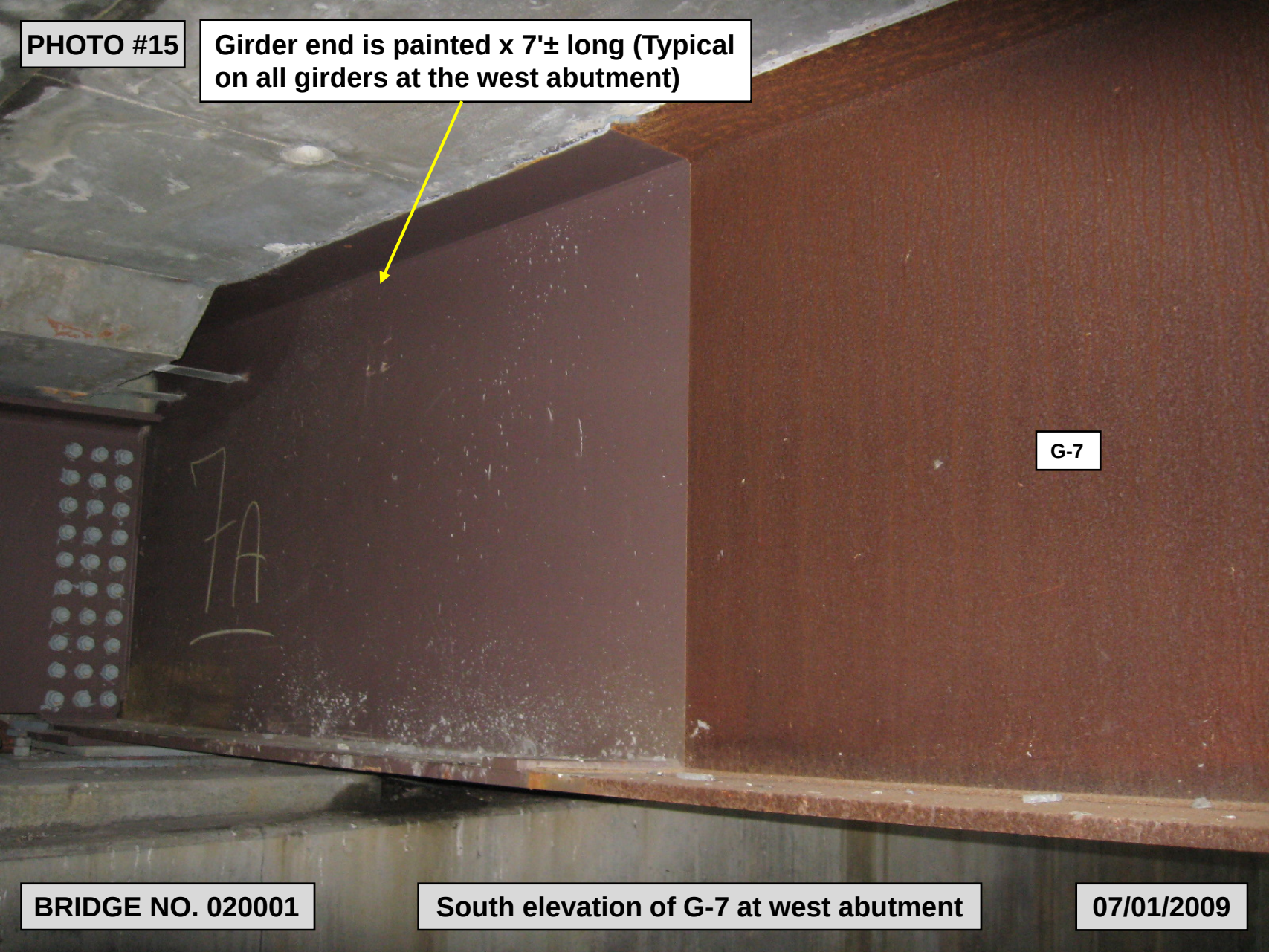

PHOTO #10
Minor chips and scrapes throughout (typical)
BRIDGE NO. 020001
Typical condition of top of deck; span 1 shown (looking north)
07/01/2009

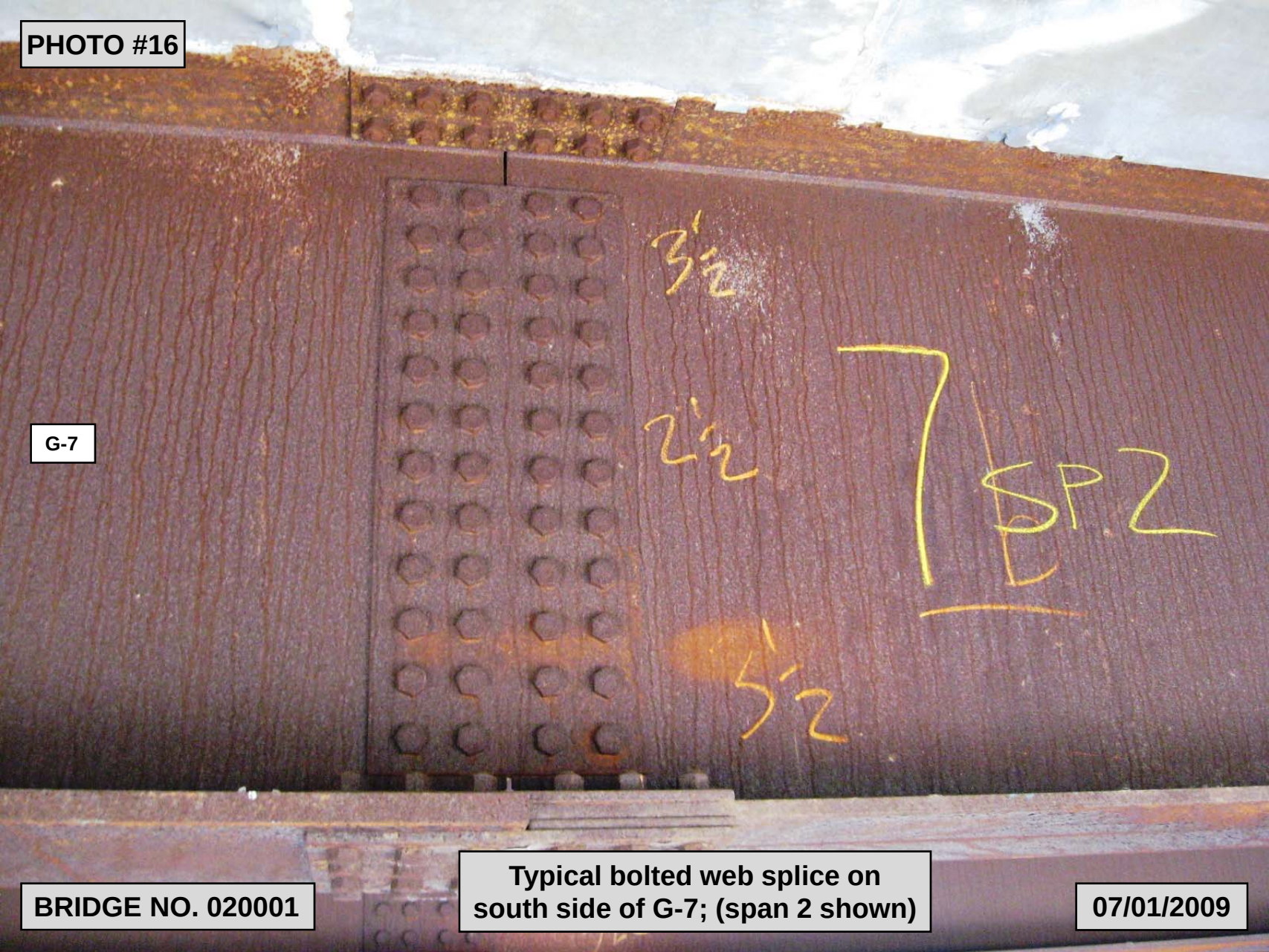

PHOTO #11
Light poles mounted to top of concrete parapet (typical)
North parapet
BRIDGE NO. 020001
Typical condition of top of deck; span 3 shown (looking northeast)
07/01/2009

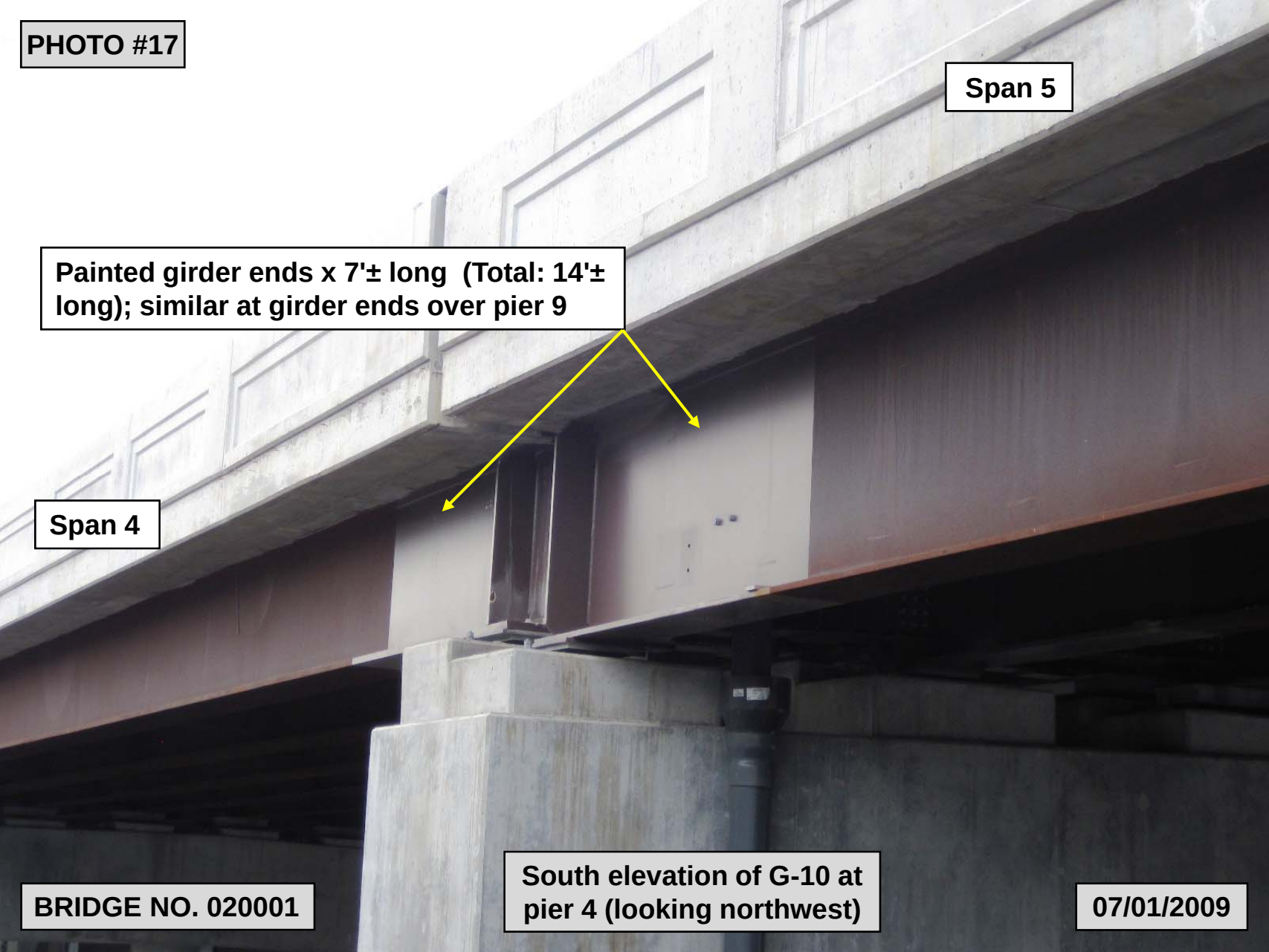

PHOTO #12
Span 4
Span 5
4"± wide patch along stage construction joint in the right lane (similar in other spans)
BRIDGE NO. 020001
Condition of top of deck; span 4 near pier 4 deck joint (looking northeast)
07/01/2009


PHOTO #13
Small chips and scrapes throughout (typical)
BRIDGE NO. 020001
Condition of top of deck; Span 7 (looking north)
07/01/2009


PHOTO #14
Stay-in-place forms (Typical in all bays except bay 7)
Uniform rust (typical weathering steel surface)
G-1
G-3
G-5
G-7
G-9
BRIDGE NO. 020001
Underside of superstructure; span 2 (looking east)
07/01/2009


PHOTO #15
Girder end is painted x 7'± long (Typical on all girders at the west abutment)
7A
G-7
BRIDGE NO. 020001
South elevation of G-7 at west abutment
07/01/2009


PHOTO #16
G-7
3'-2
2'-2
7
SP.2
5'-2
BRIDGE NO. 020001
Typical bolted web splice on south side of G-7; (span 2 shown)
07/01/2009


PHOTO #17
Span 5
Painted girder ends x 7'± long (Total: 14'± long); similar at girder ends over pier 9
Span 4
BRIDGE NO. 020001
South elevation of G-10 at pier 4 (looking northwest)
07/01/2009

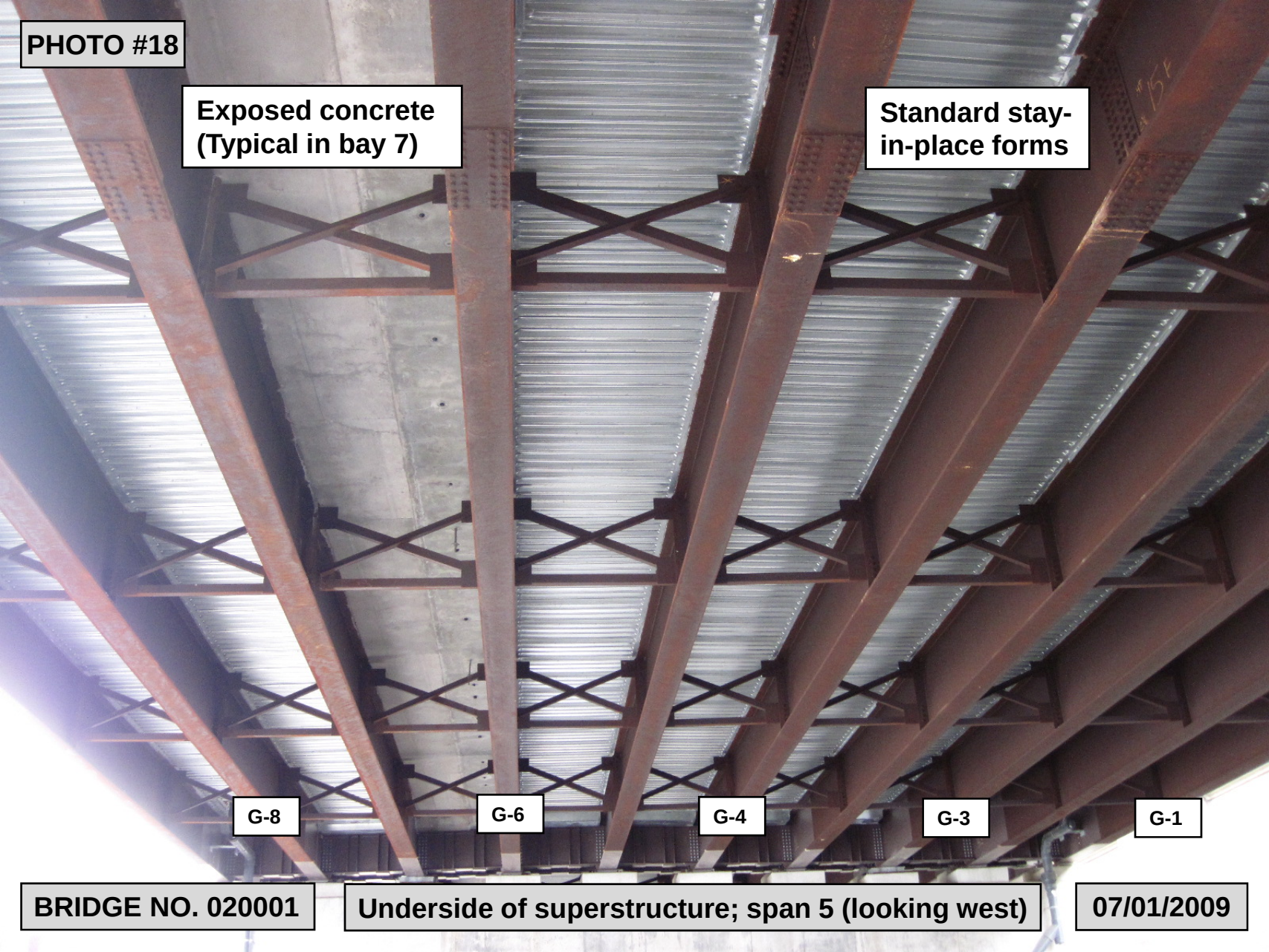
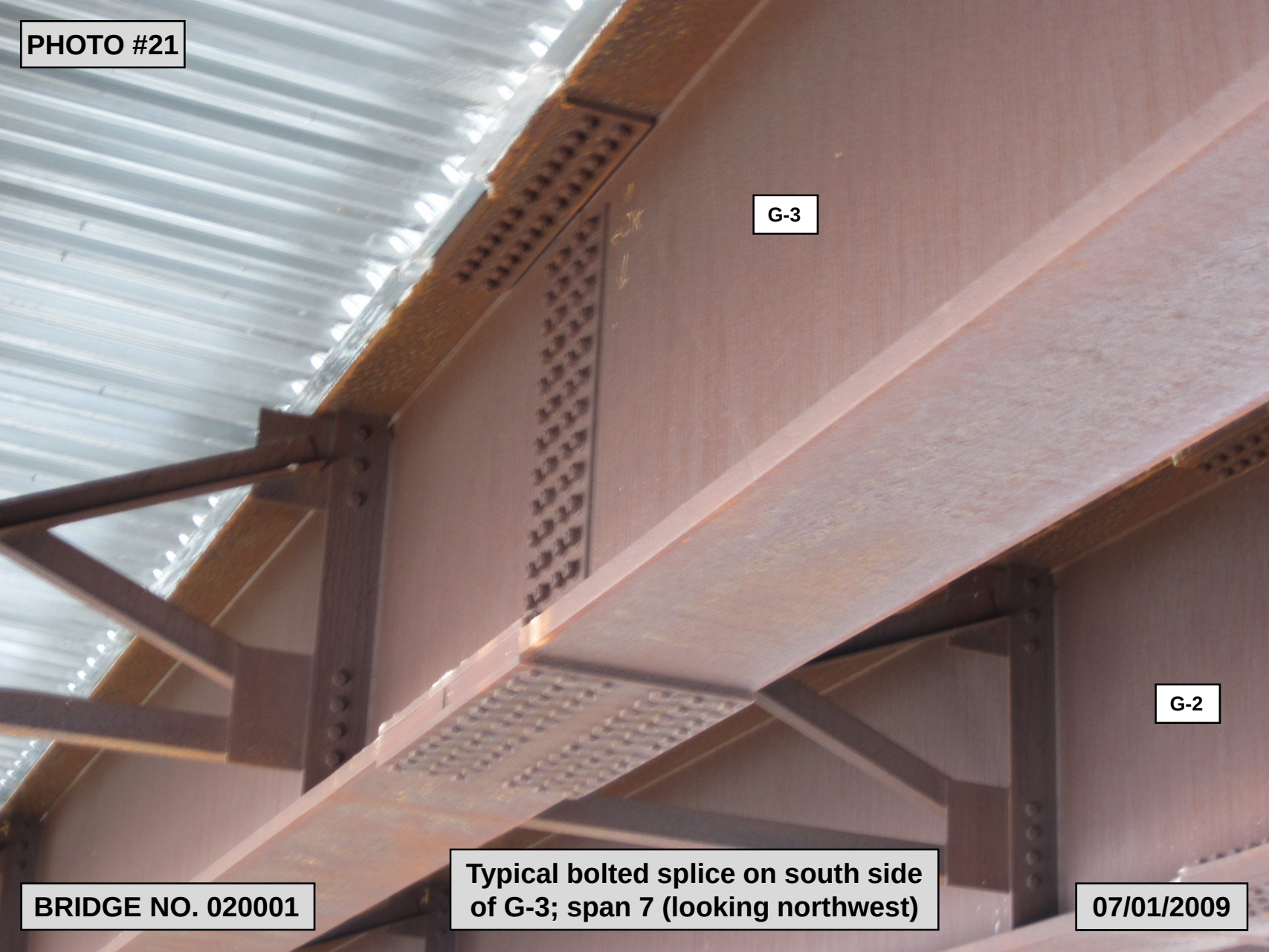

PHOTO #18
Exposed concrete (Typical in bay 7)
Standard stay-in-place forms
G-8
G-6
G-4
G-3
G-1
BRIDGE NO. 020001
Underside of superstructure; span 5 (looking west)
07/01/2009

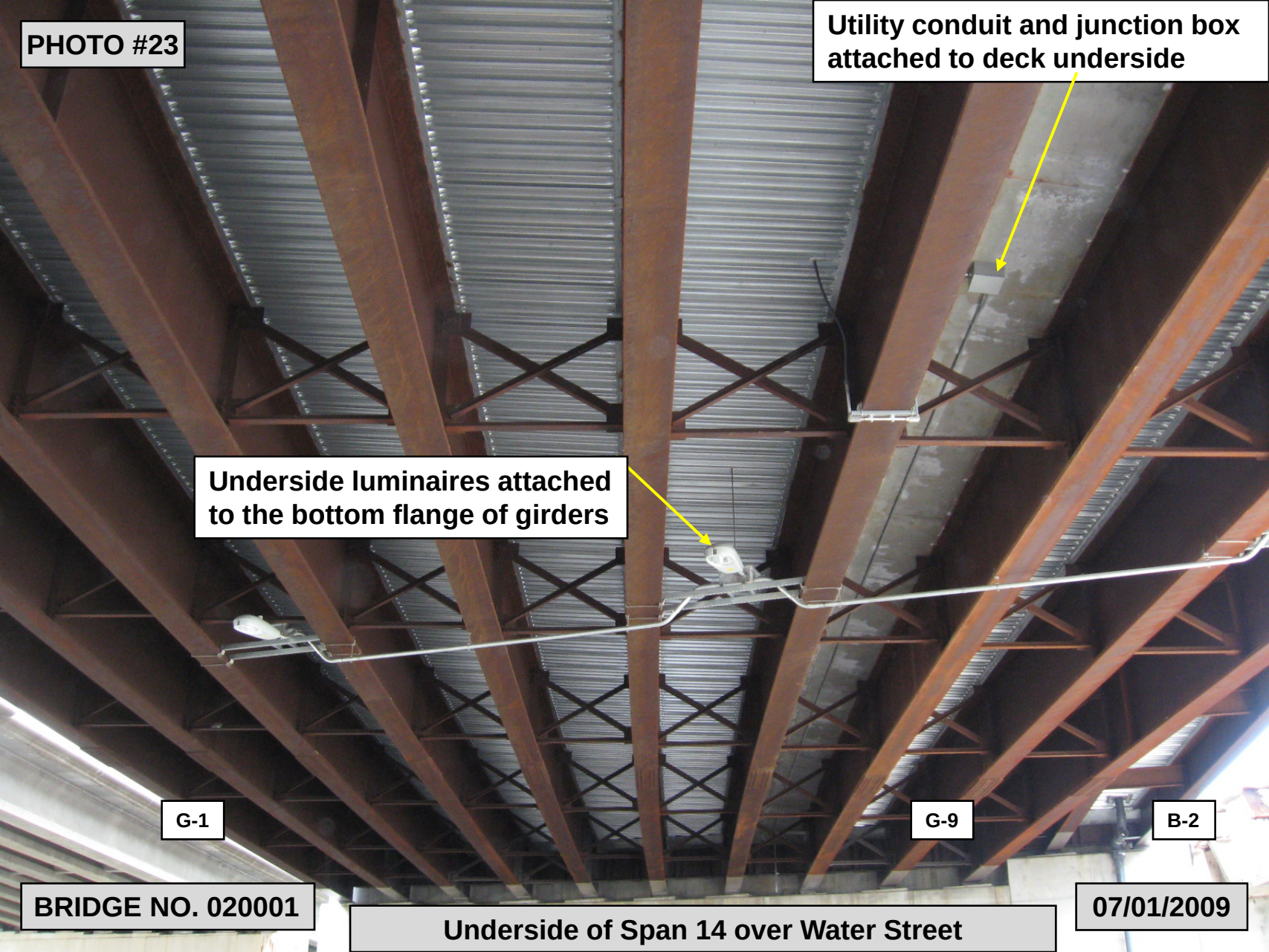

PHOTO #19
G-7
BRIDGE NO. 020001
Typical bottom flange bolted splice on G-7 (Span 6 shown)
07/01/2009

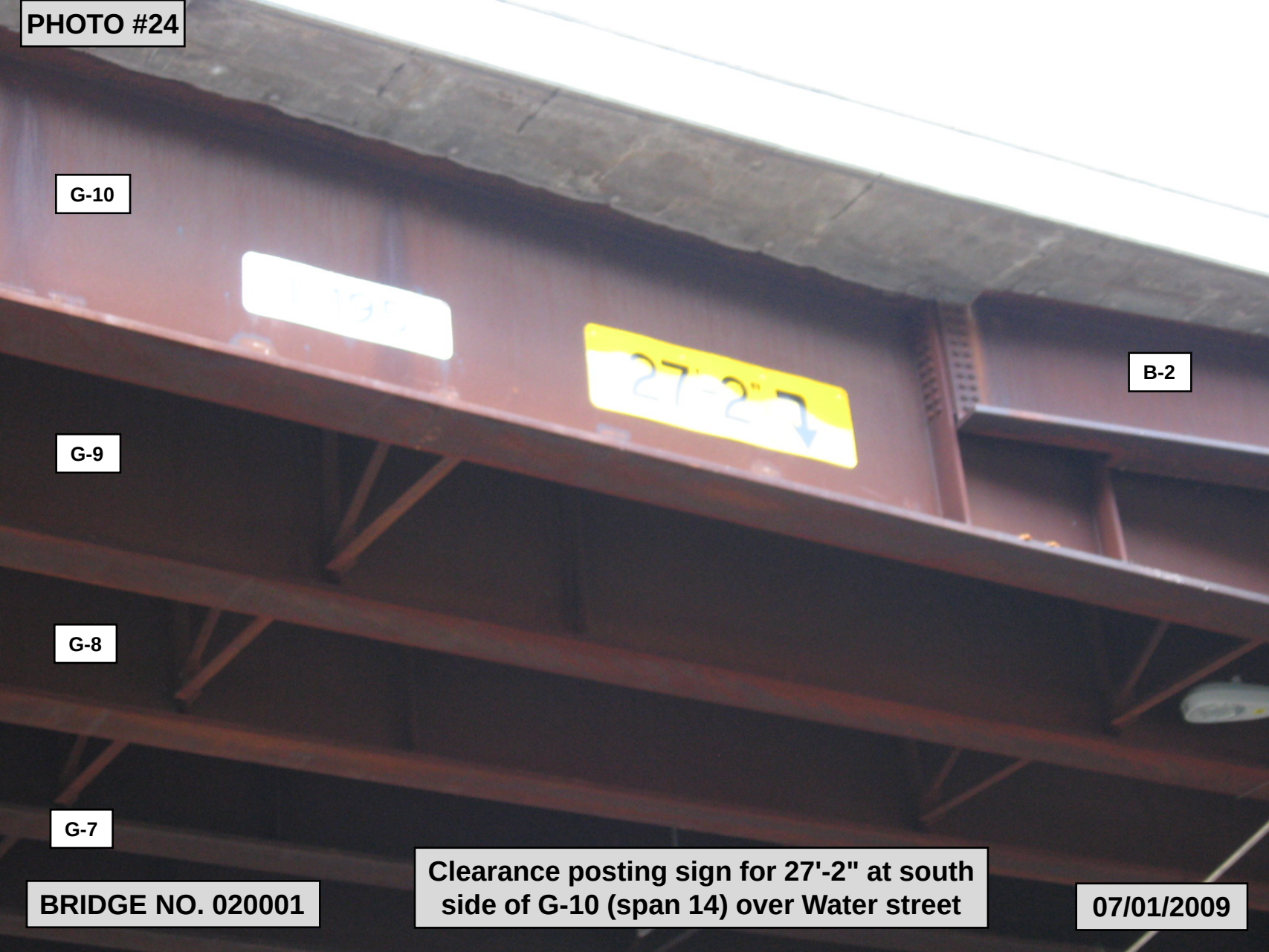

PHOTO #20
G-9
G-7
G-5
G-3
G-1
BRIDGE NO. 020001
Underside of superstructure; span 7 (looking west)
07/01/2009


PHOTO #21
G-3
G-2
BRIDGE NO. 020001
Typical bolted splice on south side of G-3; span 7 (looking northwest)
07/01/2009



BRIDGE NO. 020001 | Underside of superstructure; span 10 (looking east) | 07/01/2009


PHOTO #23
Utility conduit and junction box attached to deck underside
Underside luminaires attached to the bottom flange of girders
G-1
G-9
B-2
BRIDGE NO. 020001
Underside of Span 14 over Water Street
07/01/2009


PHOTO #24
G-10
27'-2"
B-2
G-9
G-8
G-7
BRIDGE NO. 020001
Clearance posting sign for 27'-2" at south side of G-10 (span 14) over Water street
07/01/2009

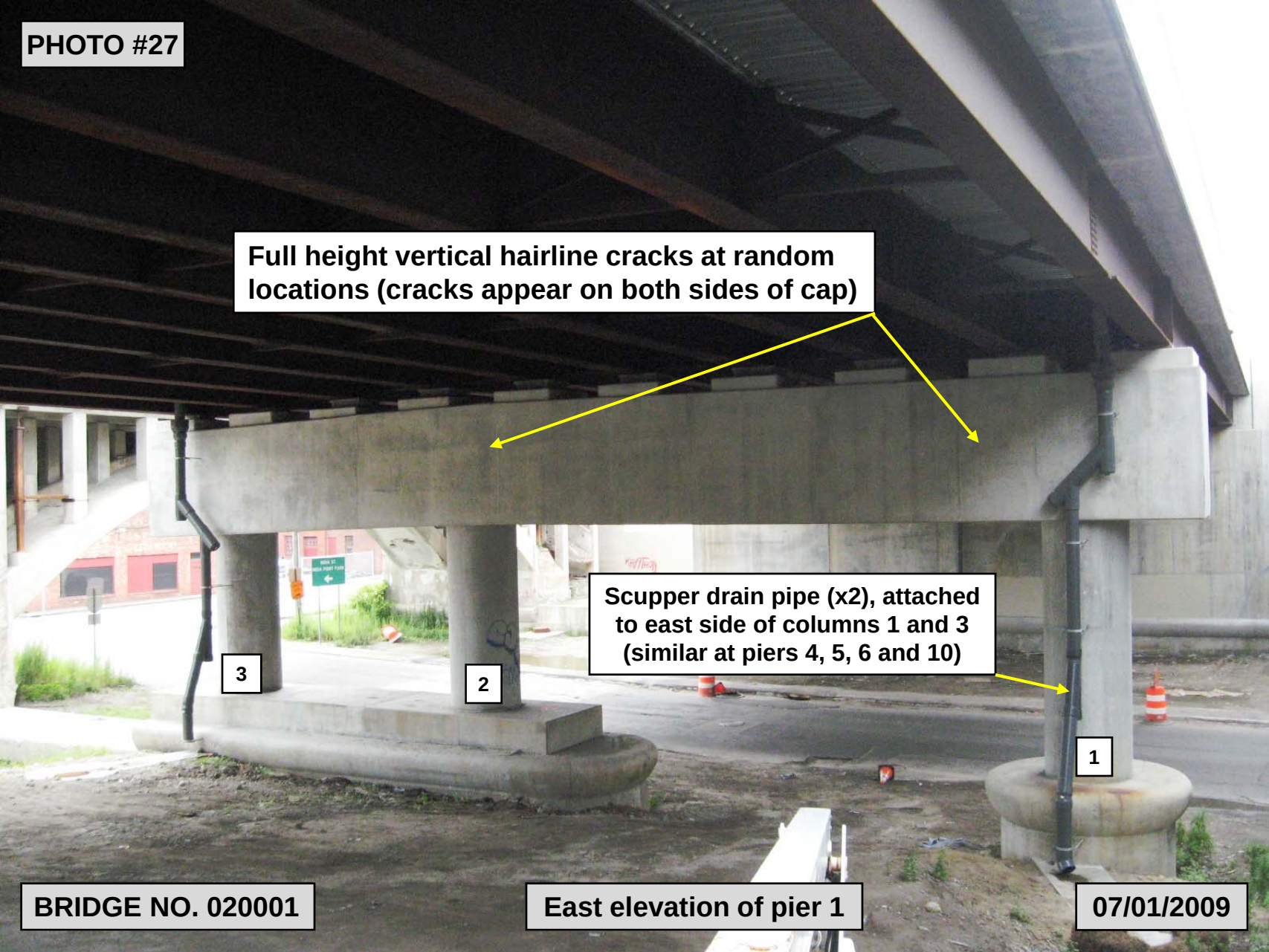


BRIDGE NO. 020001

Typical steel drip plate welded to bottom flange (South side of G-1 in span 12 shown)

07/01/2009


PHOTO #26
G-10
Bridge # 070001
1
2
3
BRIDGE NO. 020001
West elevation of pier 1 at Gano Street
07/01/2009


PHOTO #27
Full height vertical hairline cracks at random locations (cracks appear on both sides of cap)
Scupper drain pipe (x2), attached to east side of columns 1 and 3 (similar at piers 4, 5, 6 and 10)
3
2
1
BRIDGE NO. 020001
East elevation of pier 1
07/01/2009

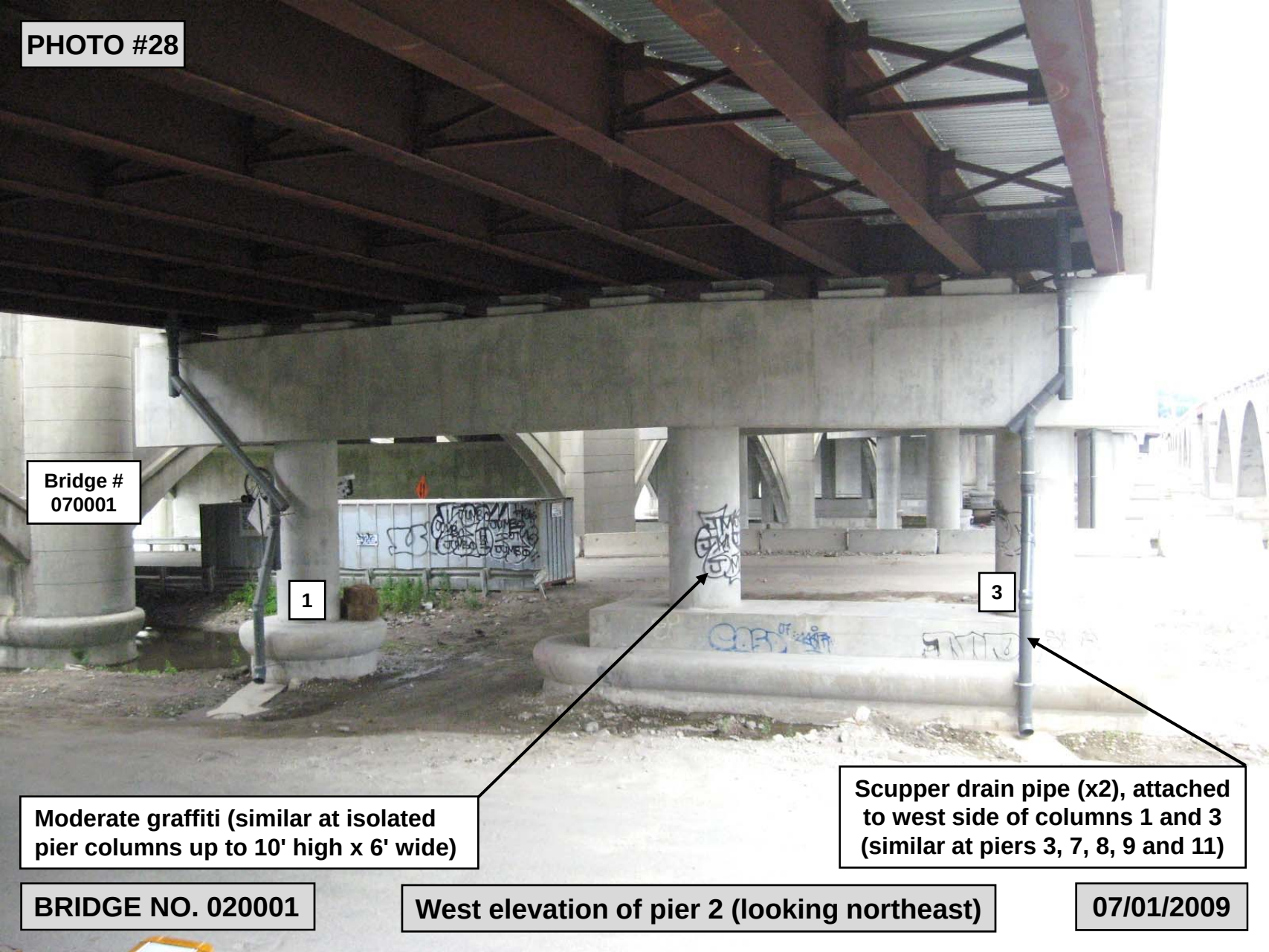

PHOTO #28
Bridge # 070001
1
3
Moderate graffiti (similar at isolated pier columns up to 10' high x 6' wide)
Scupper drain pipe (x2), attached to west side of columns 1 and 3 (similar at piers 3, 7, 8, 9 and 11)
BRIDGE NO. 020001
West elevation of pier 2 (looking northeast)
07/01/2009


PHOTO #29
Remaining portion of original bridge
3
2
1
Bridge # 070001
BRIDGE NO. 020001
East elevation of pier 4 (looking west)
07/01/2009

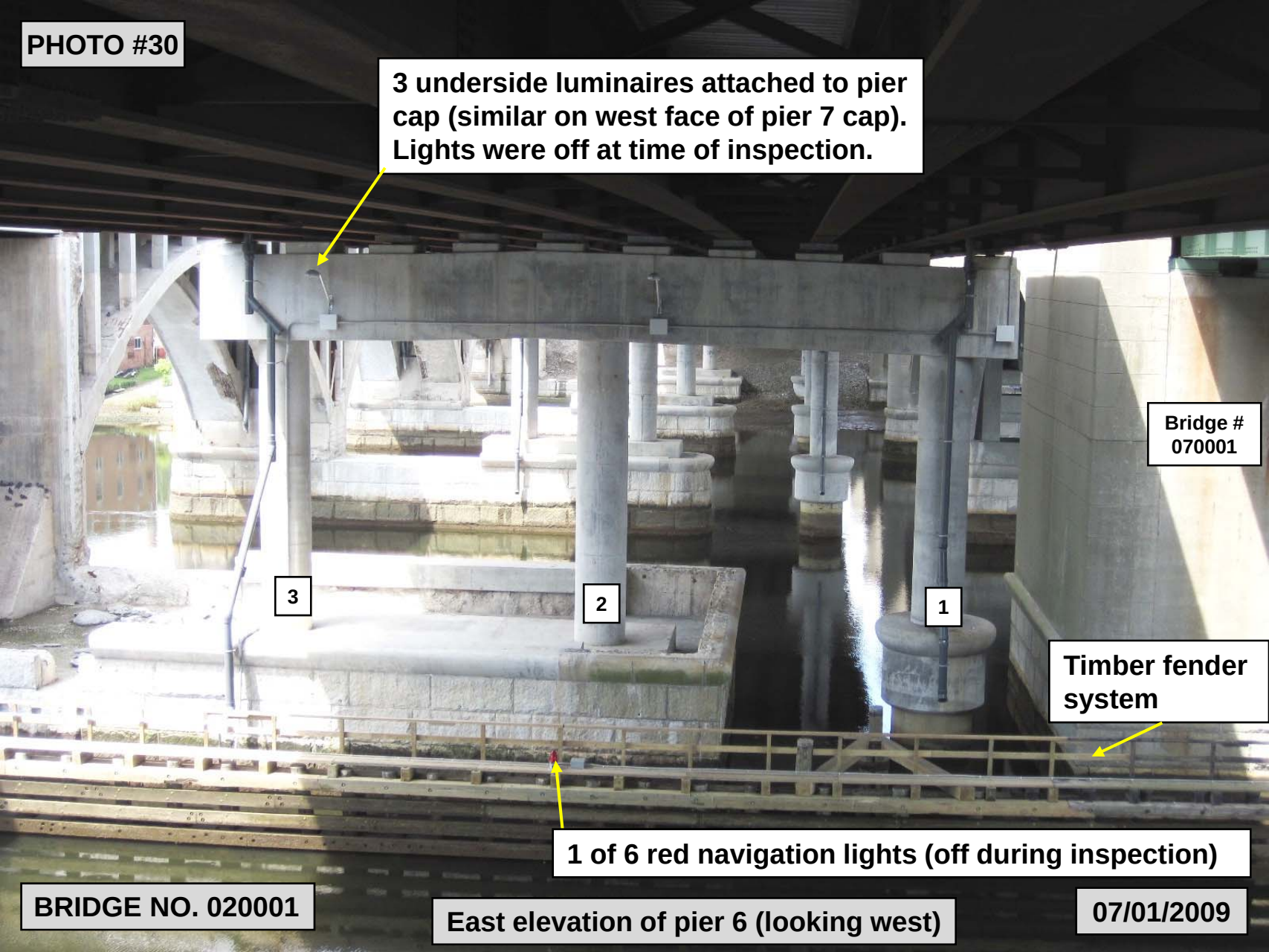

PHOTO #30
3 underside luminaires attached to pier cap (similar on west face of pier 7 cap). Lights were off at time of inspection.
Bridge # 070001
3
2
1
Timber fender system
1 of 6 red navigation lights (off during inspection)
BRIDGE NO. 020001
East elevation of pier 6 (looking west)
07/01/2009


PHOTO #31
1
2
3
BRIDGE NO. 020001
West elevation of pier 8 (looking east)
07/01/2009


PHOTO #32
3
2
1
BRIDGE NO. 020001
East elevation of pier 8 (looking west)
07/01/2009

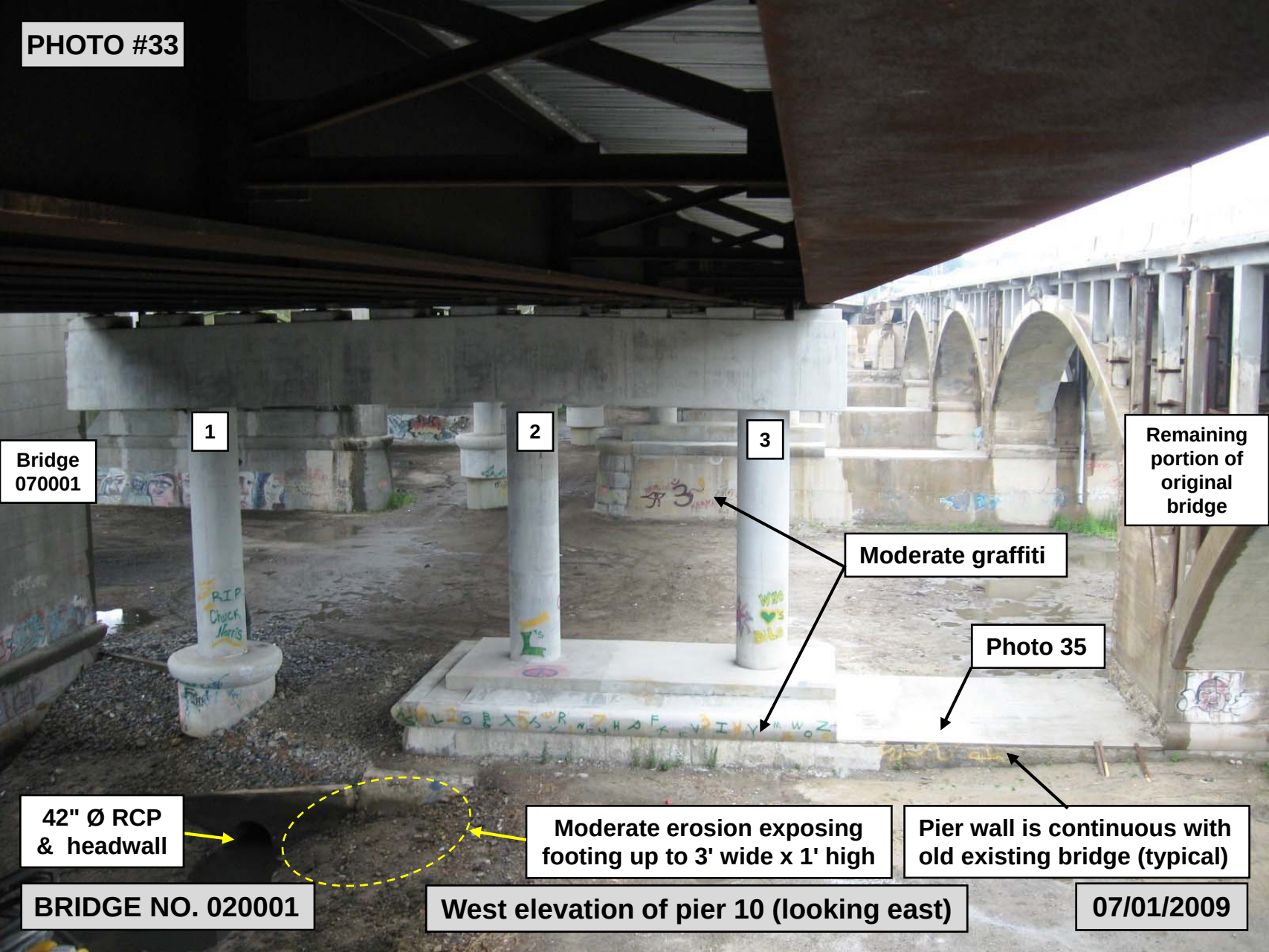

PHOTO #33
Bridge 070001
1
2
3
Remaining portion of original bridge
Moderate graffiti
Photo 35
42" Ø RCP & headwall
Moderate erosion exposing footing up to 3' wide x 1' high
Pier wall is continuous with old existing bridge (typical)
BRIDGE NO. 020001
West elevation of pier 10 (looking east)
07/01/2009


PHOTO #34
3' high x 1/8" wide vertical crack in stone facing
Graffiti
BRIDGE NO. 020001
Northwest corner of pier 10 wall (looking southeast)
07/01/2009

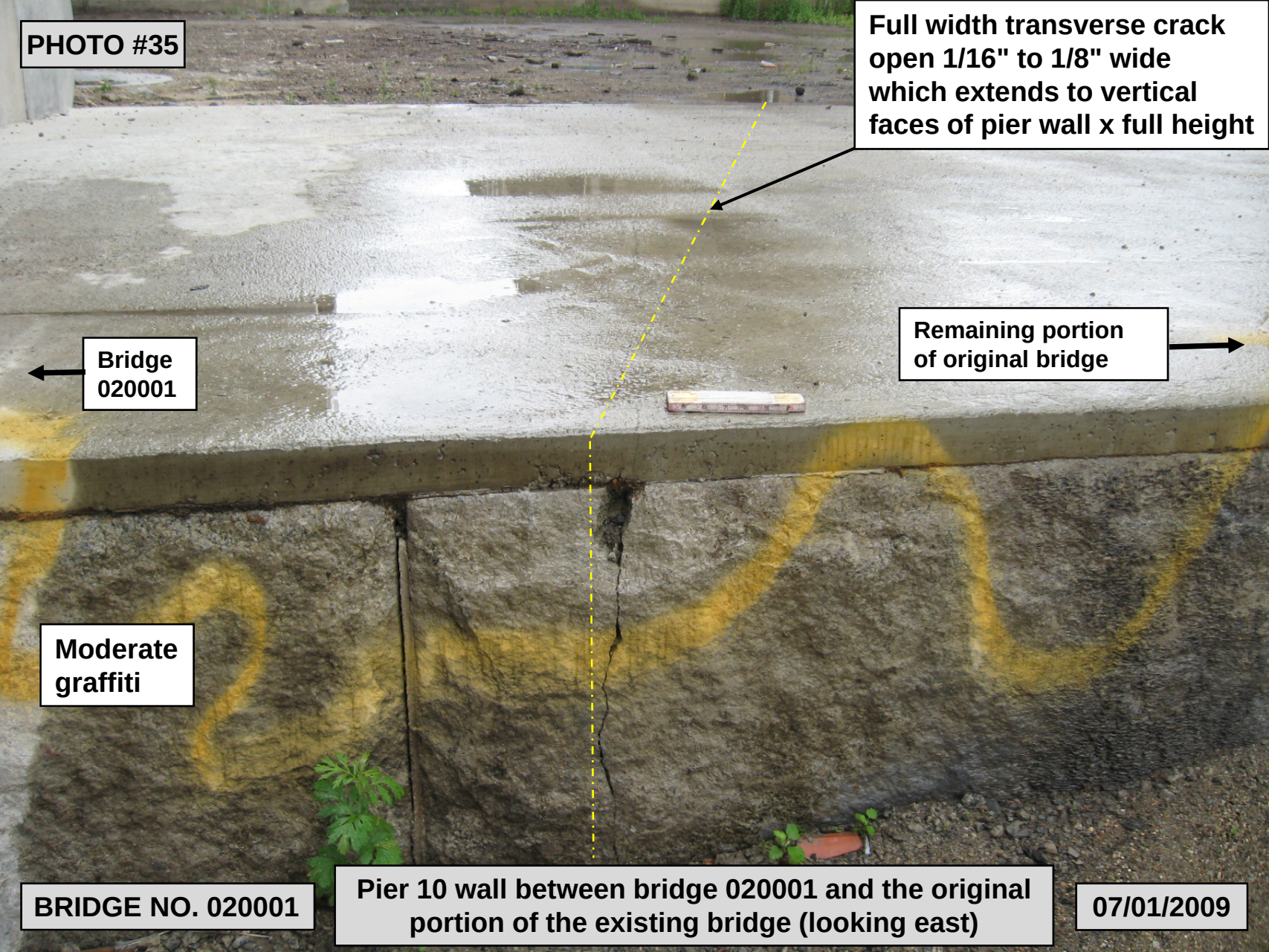

PHOTO #35
Full width transverse crack open 1/16" to 1/8" wide which extends to vertical faces of pier wall x full height
Bridge 020001
Remaining portion of original bridge
Moderate graffiti
BRIDGE NO. 020001
Pier 10 wall between bridge 020001 and the original portion of the existing bridge (looking east)
07/01/2009

PHOTO #36



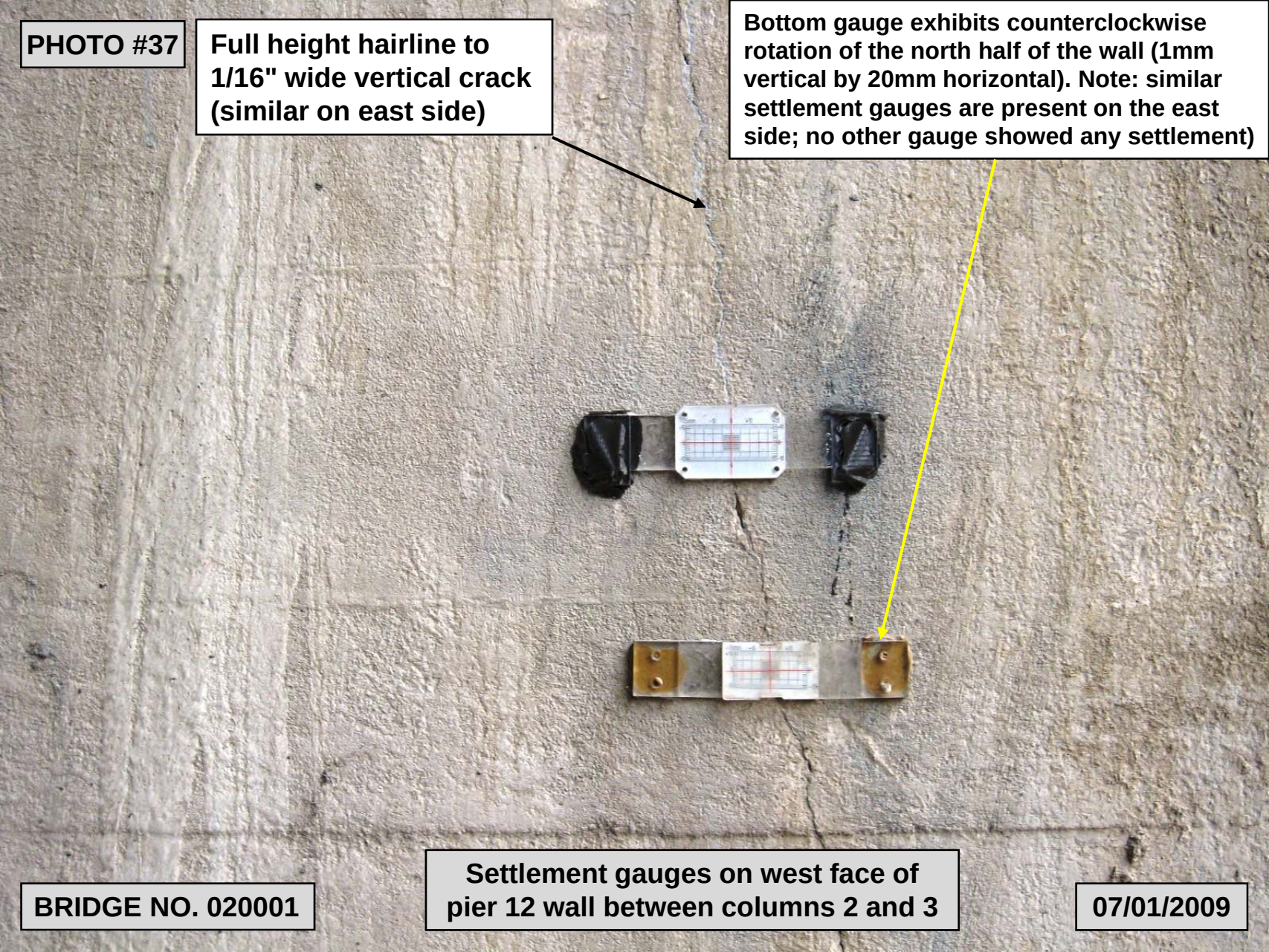
Settlement gauge.
No settlement noted

Full height wide vertical crack is sealed with mortar

BRIDGE NO. 020001

East face of pier 12 wall between bridge 020001 and the existing bridge to the south

07/01/2009


PHOTO #37
Full height hairline to 1/16" wide vertical crack (similar on east side)
Bottom gauge exhibits counterclockwise rotation of the north half of the wall (1mm vertical by 20mm horizontal). Note: similar settlement gauges are present on the east side; no other gauge showed any settlement)
BRIDGE NO. 020001
Settlement gauges on west face of pier 12 wall between columns 2 and 3
07/01/2009

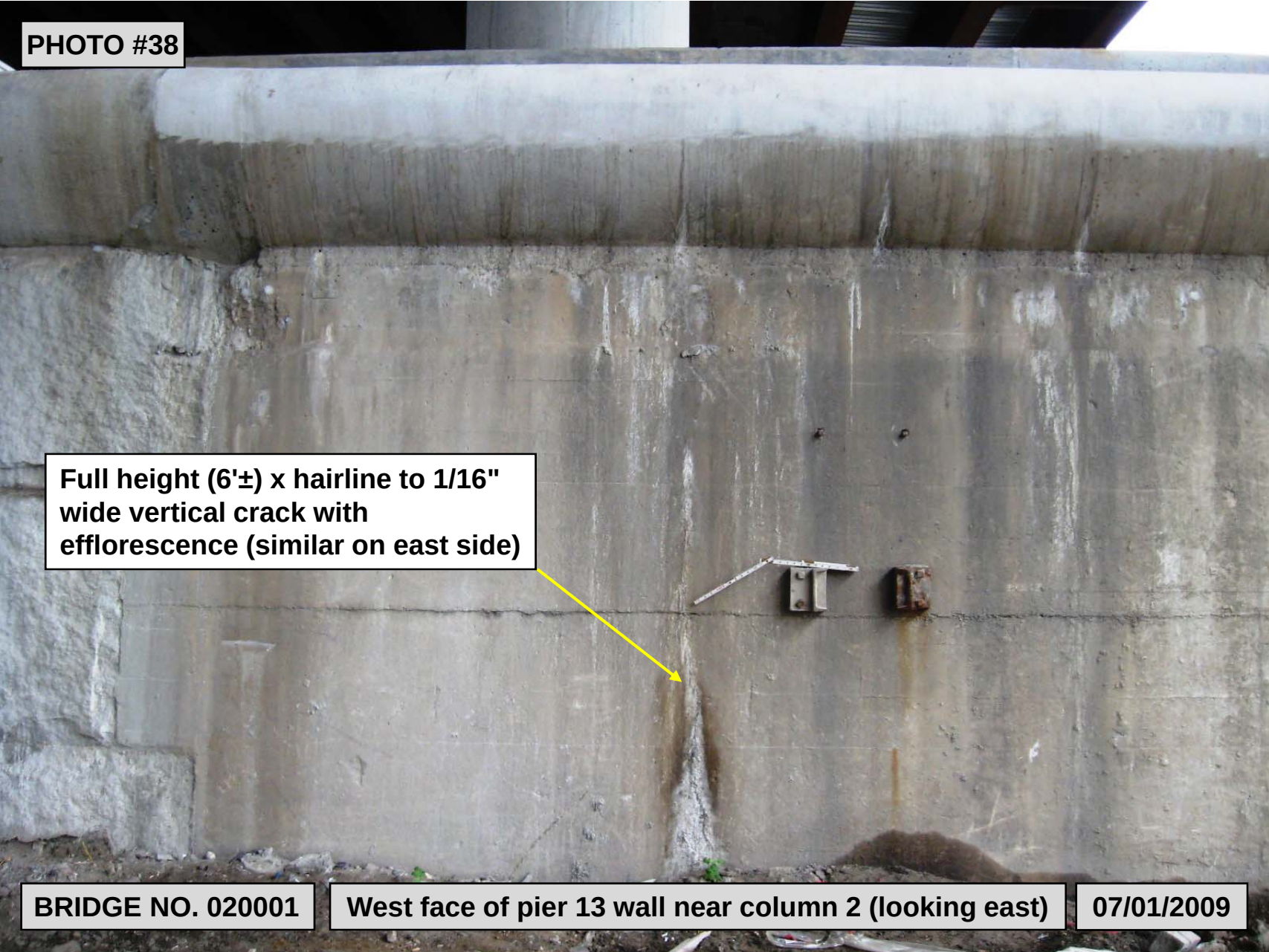
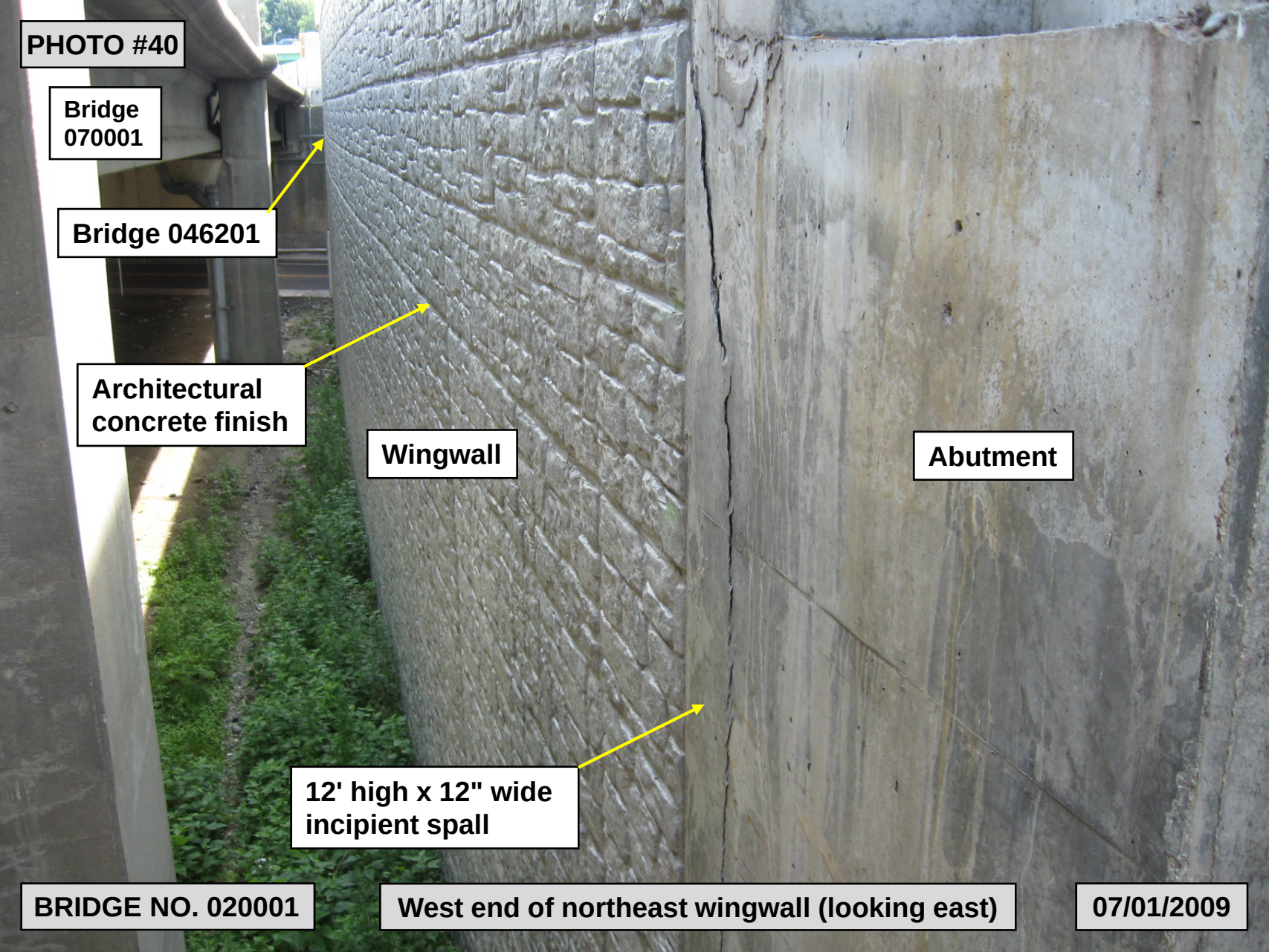

PHOTO #38
Full height (6'±) x hairline to 1/16" wide vertical crack with efflorescence (similar on east side)
BRIDGE NO. 020001
West face of pier 13 wall near column 2 (looking east)
07/01/2009


PHOTO #39
G-10
Light graffiti full length x 3'± high
BRIDGE NO. 020001
Southwest wingwall
07/01/2009


PHOTO #40
Bridge 070001
Bridge 046201
Architectural concrete finish
Wingwall
Abutment
12' high x 12" wide incipient spall
BRIDGE NO. 020001
West end of northeast wingwall (looking east)
07/01/2009

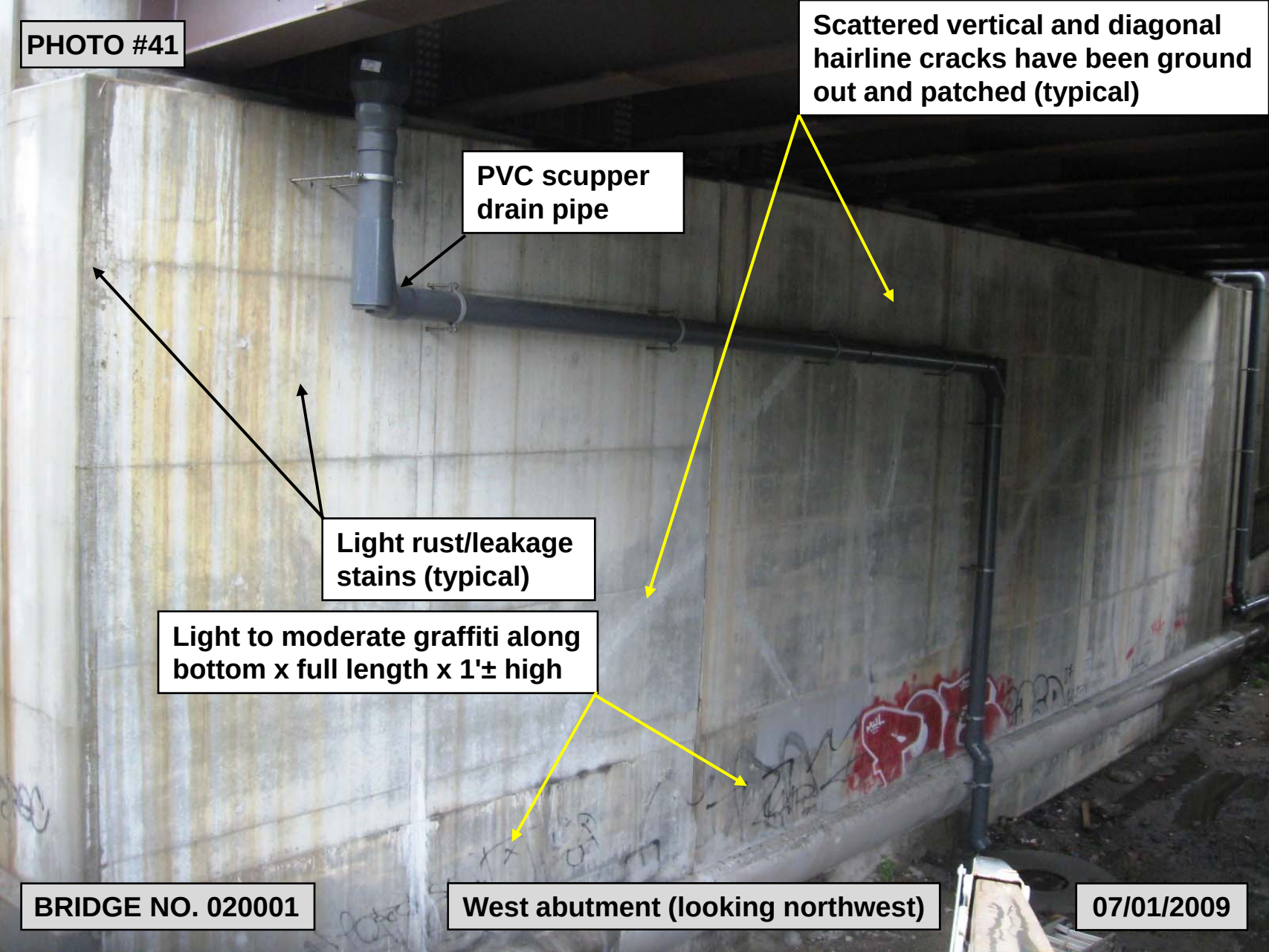

PHOTO #41
Scattered vertical and diagonal hairline cracks have been ground out and patched (typical)
PVC scupper drain pipe
Light rust/leakage stains (typical)
Light to moderate graffiti along bottom x full length x 1'± high
BRIDGE NO. 020001
West abutment (looking northwest)
07/01/2009


PHOTO #42
Bridge 020001
PVC scupper drain pipe
Bridge 070001
Construction dumpster
BRIDGE NO. 020001
West abutment between bridges 020001 and 070001
07/01/2009

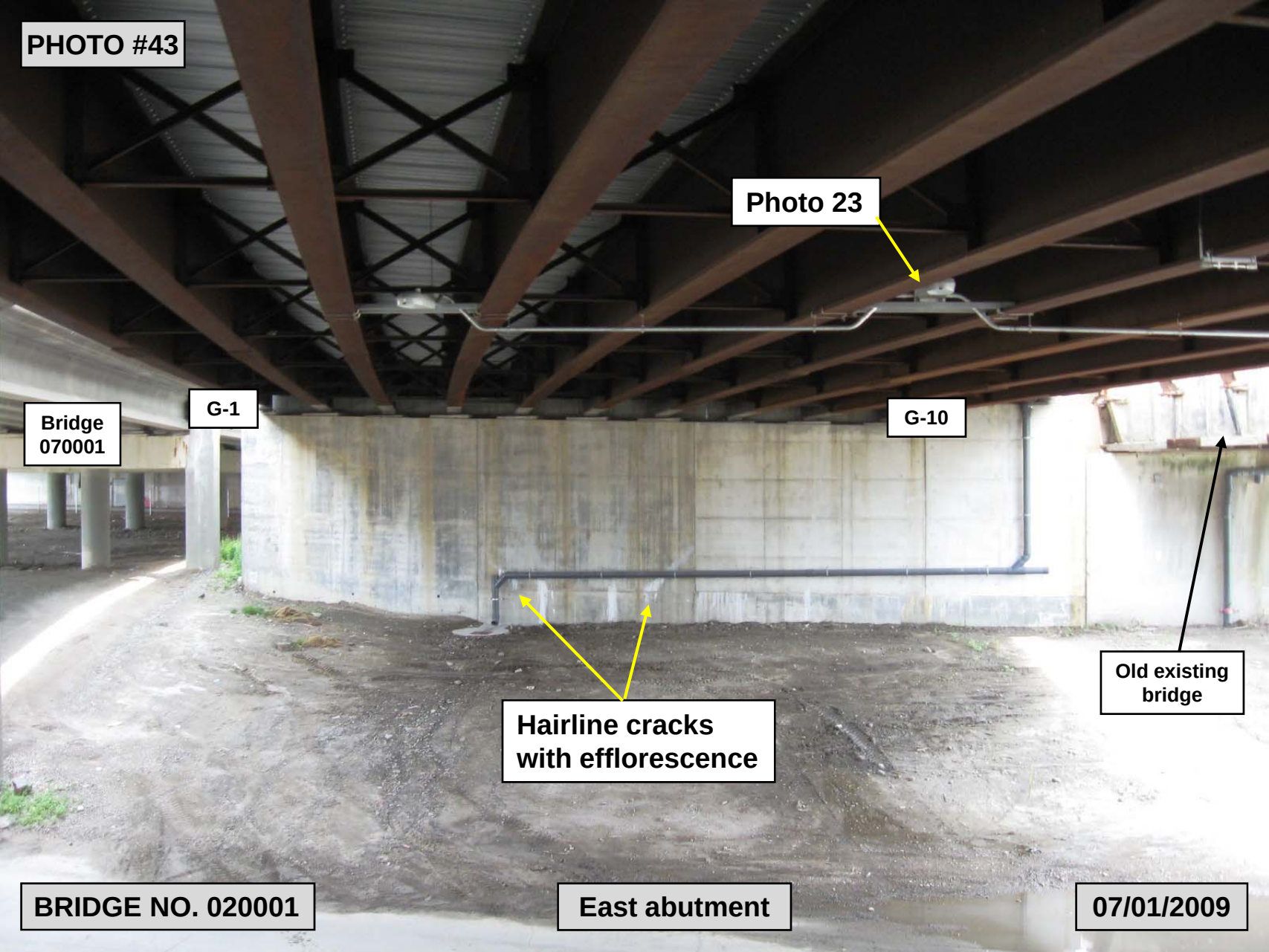
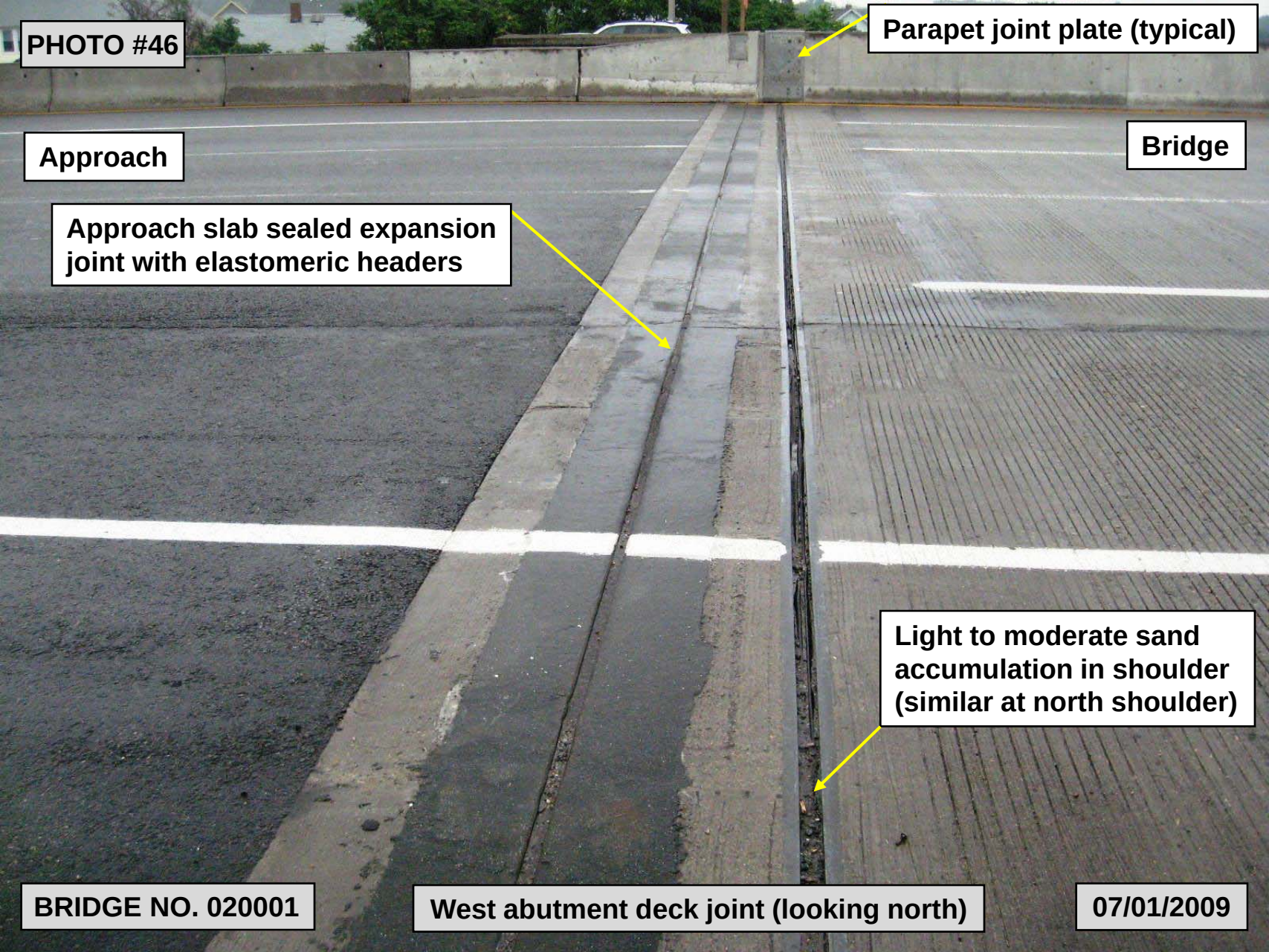
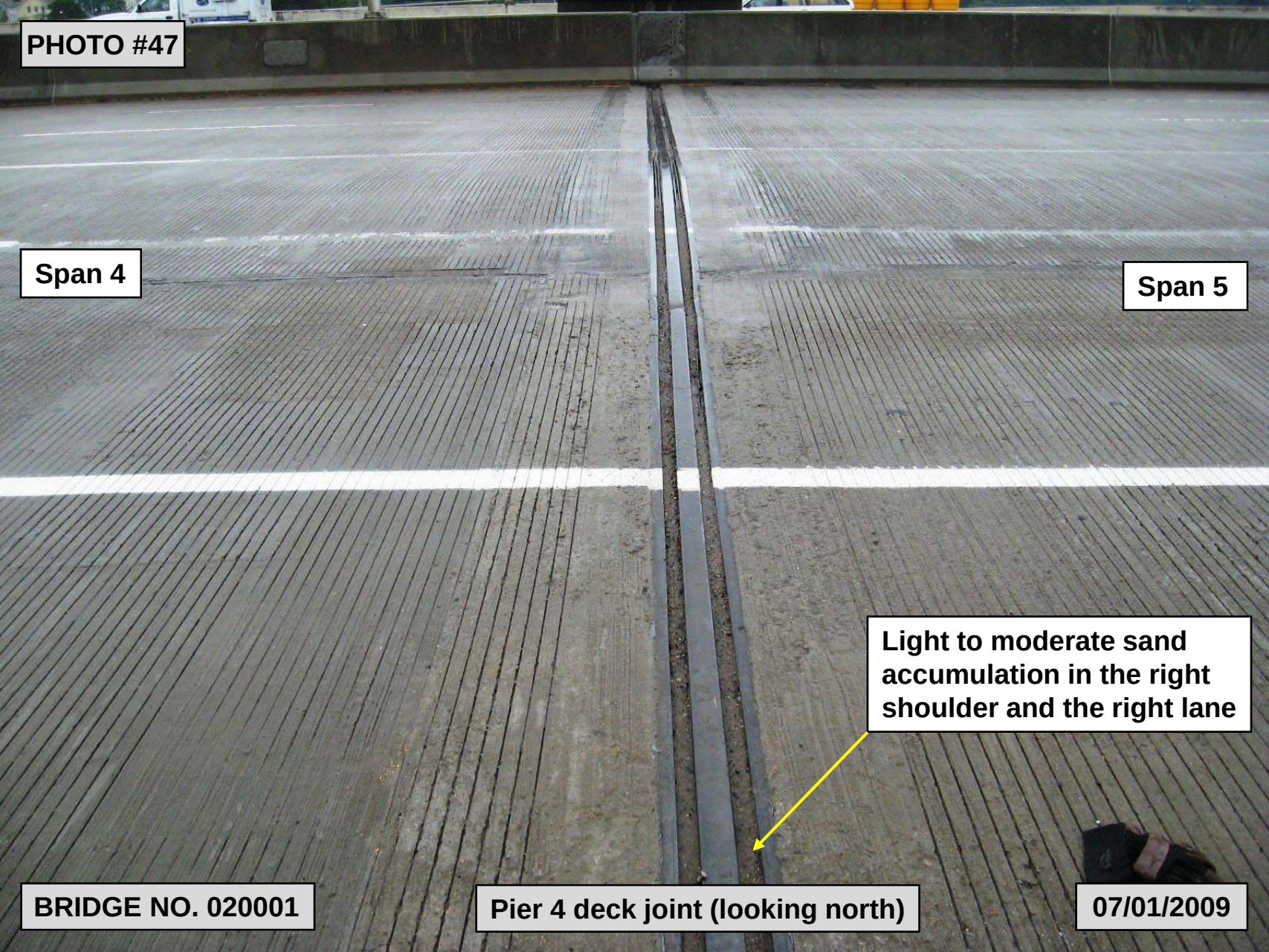
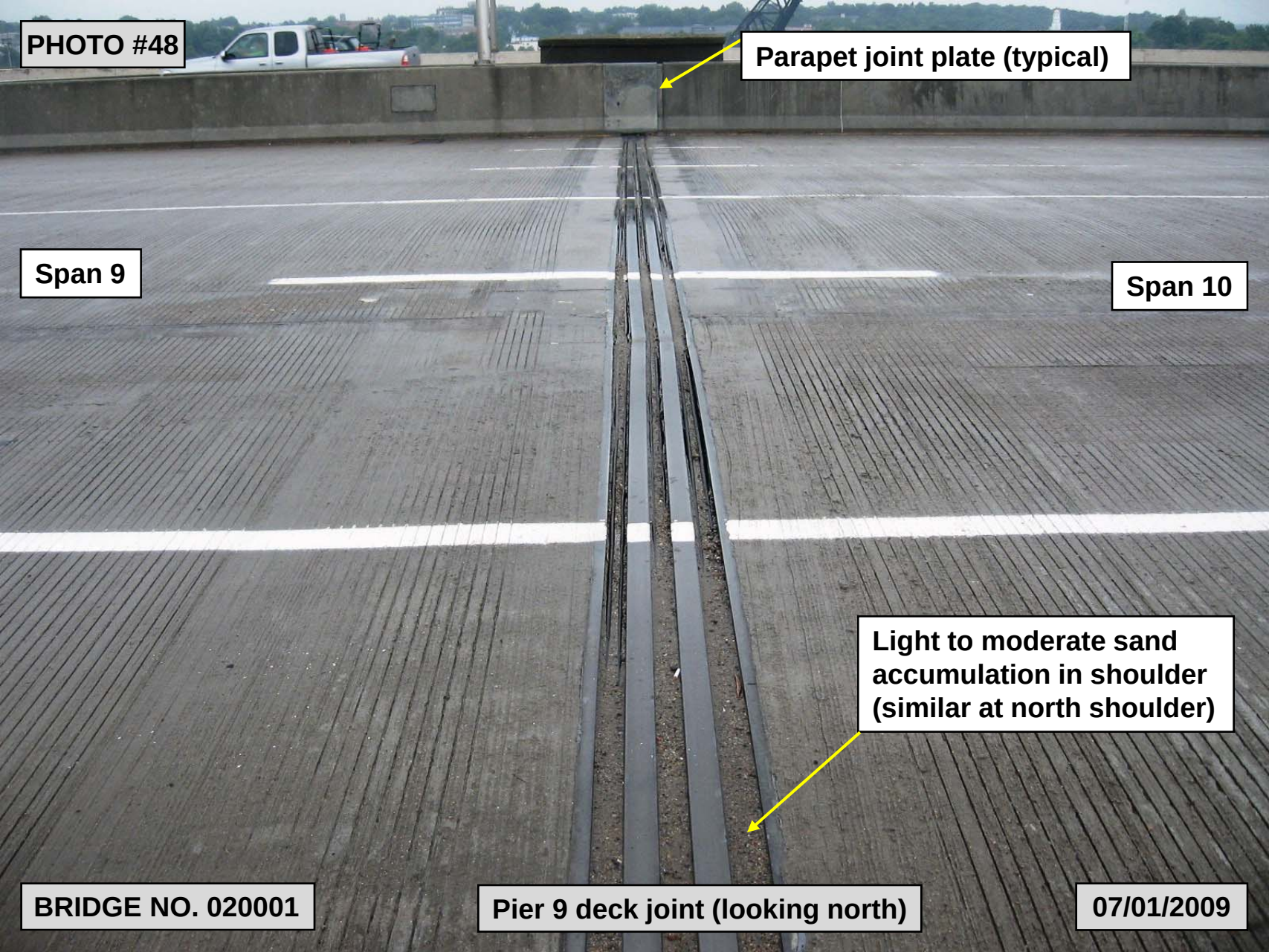

PHOTO #43
Photo 23
Bridge 070001
G-1
G-10
Old existing bridge
Hairline cracks with efflorescence
BRIDGE NO. 020001
East abutment
07/01/2009

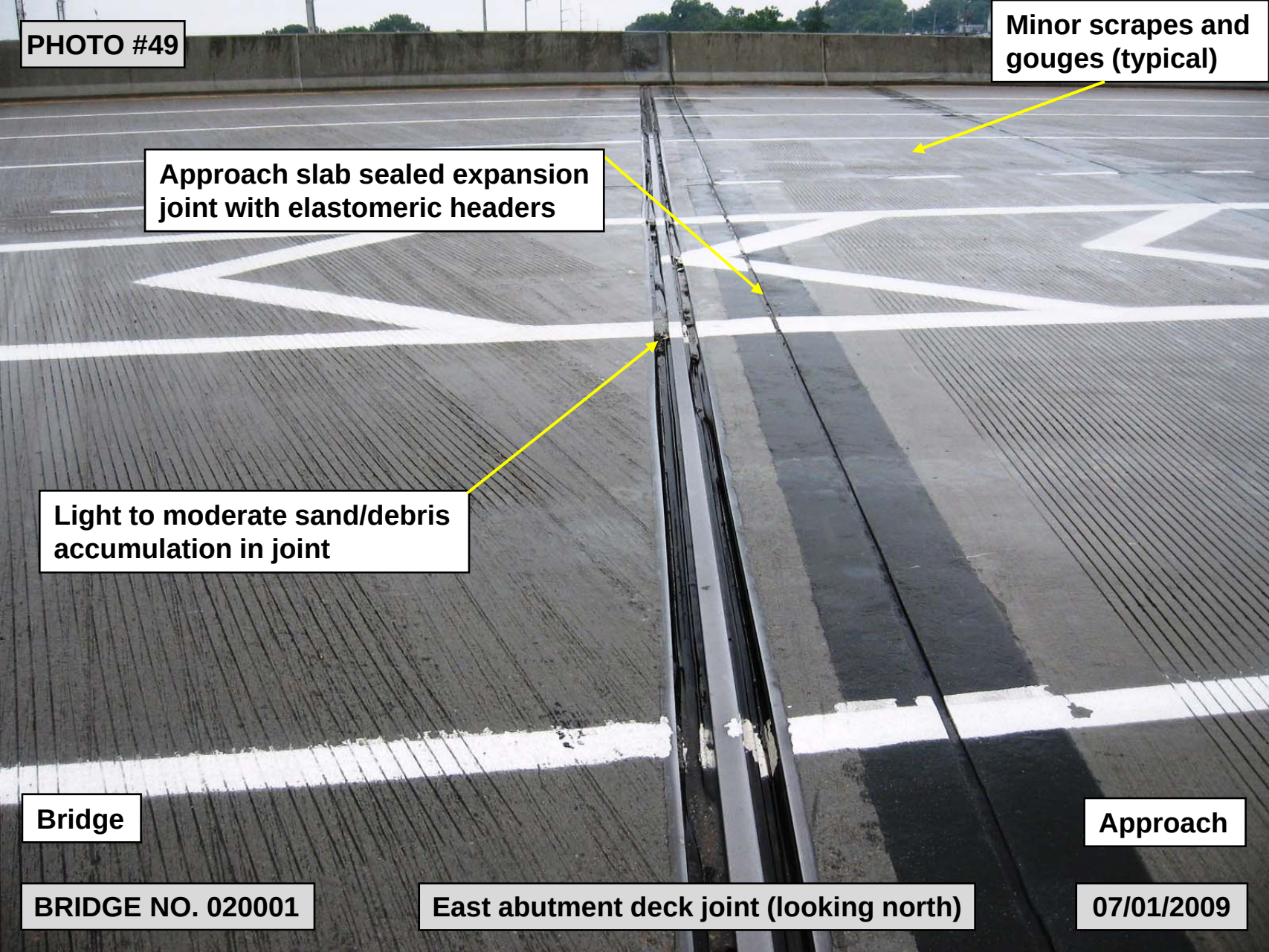

PHOTO #44
G-10
Minor leakage stains (typical)
BRIDGE NO. 020001
West abutment backwall at south end
07/01/2009

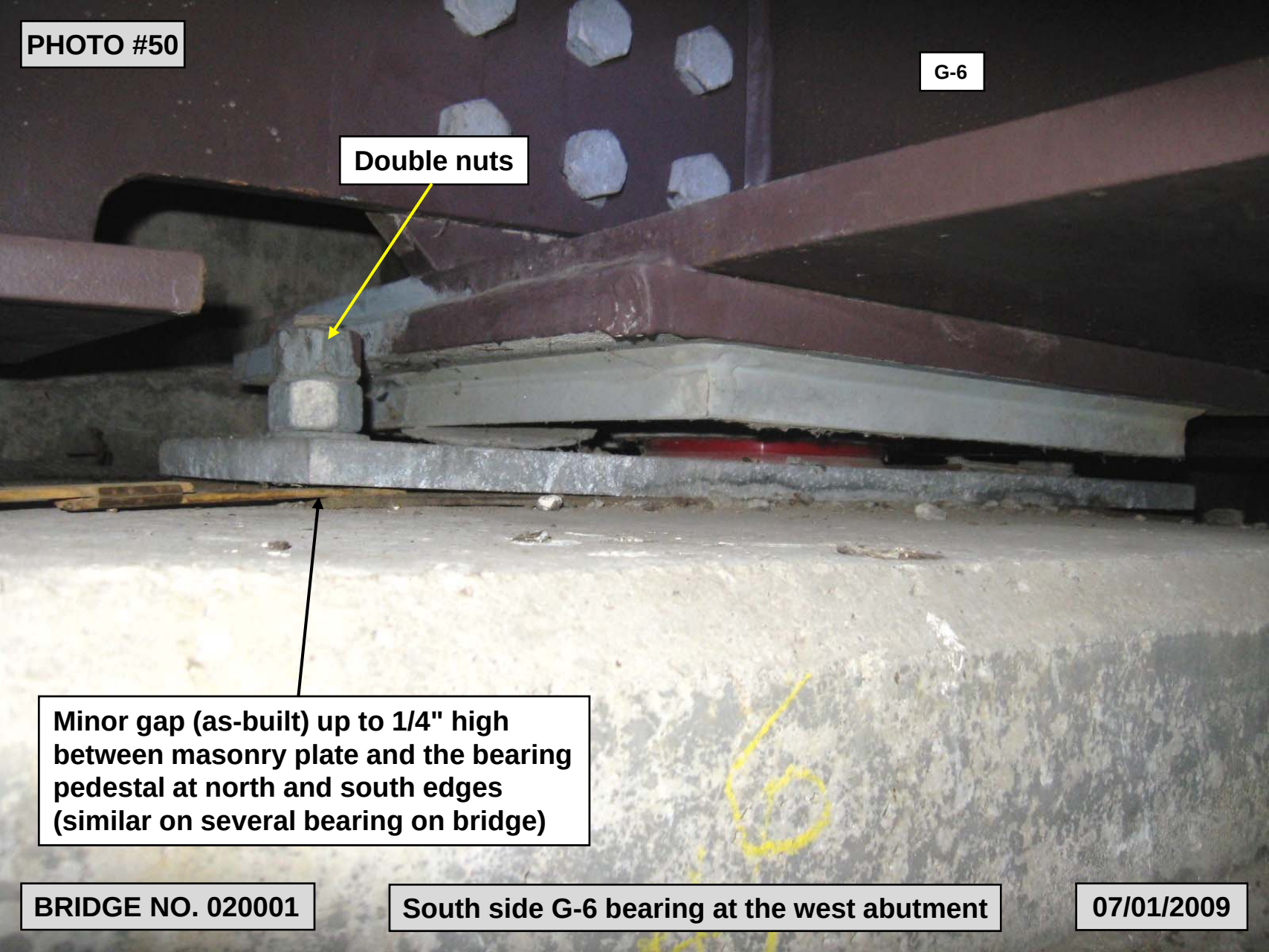

PHOTO #45
G-1
2' wide x 1' high x
up to 1' deep spall
BRIDGE NO. 020001
East abutment backwall at north end
07/01/2009

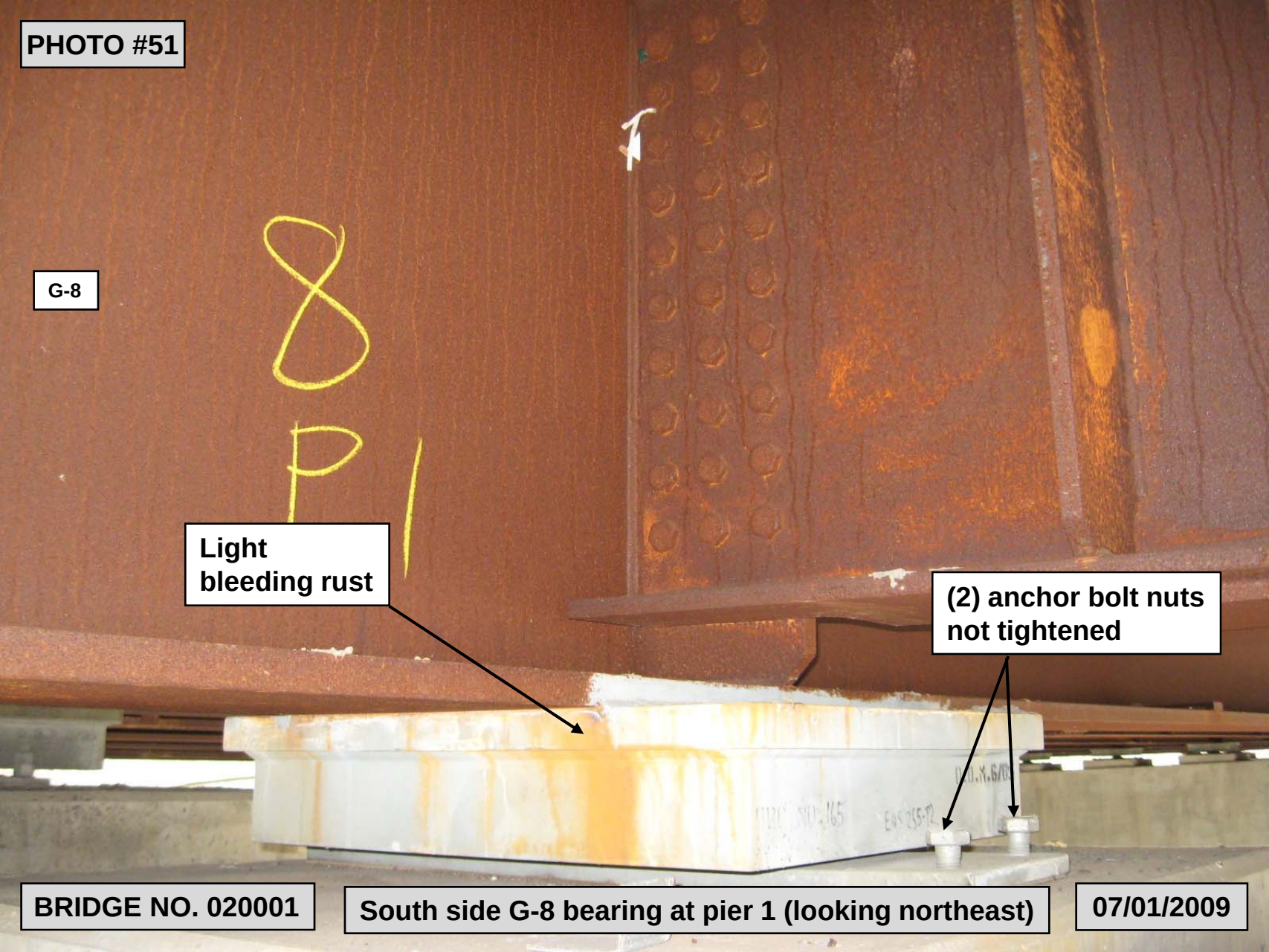

PHOTO #46
Parapet joint plate (typical)
Approach
Bridge
Approach slab sealed expansion joint with elastomeric headers
Light to moderate sand accumulation in shoulder (similar at north shoulder)
BRIDGE NO. 020001
West abutment deck joint (looking north)
07/01/2009

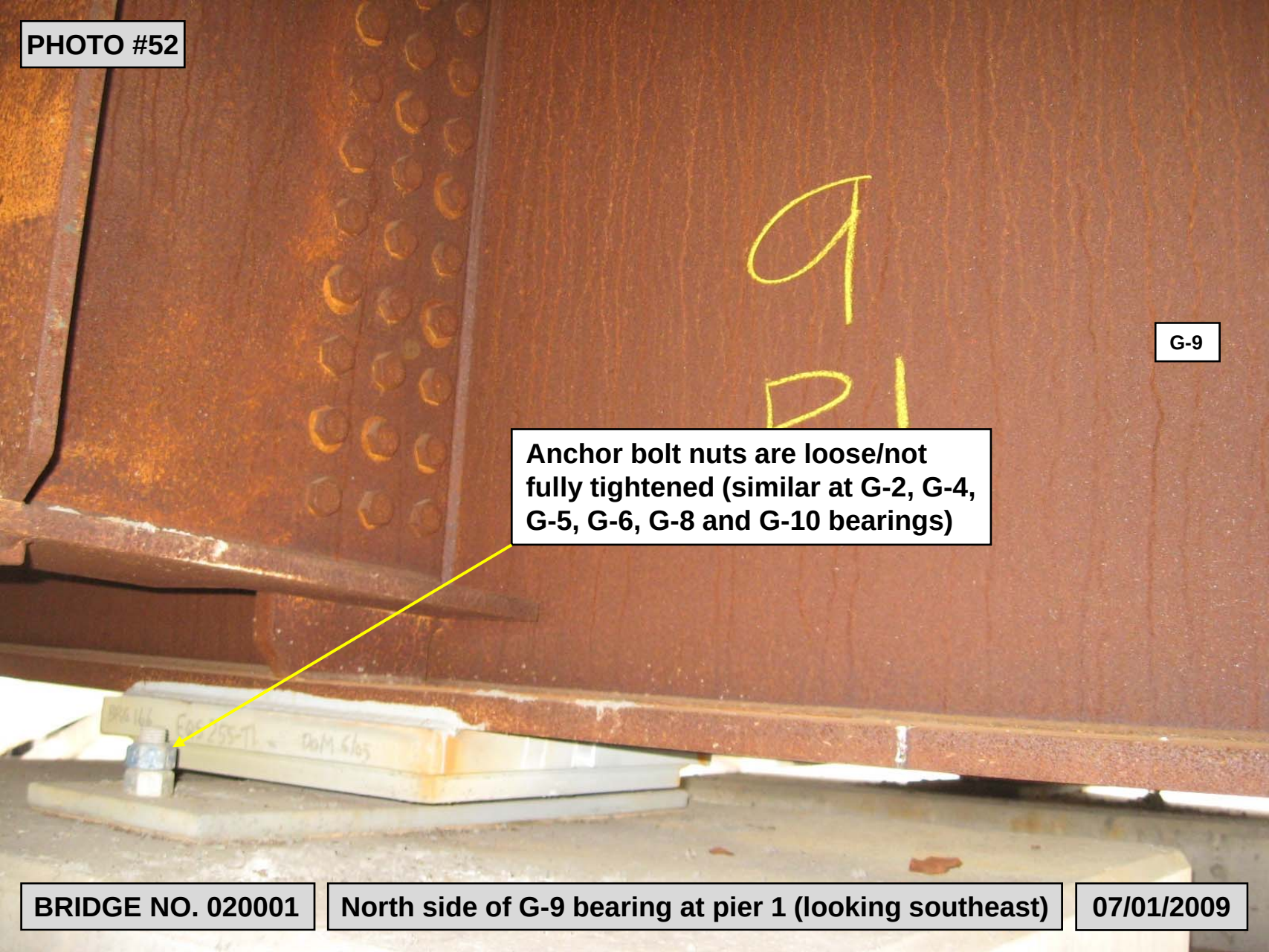

PHOTO #47
Span 4
Span 5
Light to moderate sand accumulation in the right shoulder and the right lane
BRIDGE NO. 020001
Pier 4 deck joint (looking north)
07/01/2009


PHOTO #48
Parapet joint plate (typical)
Span 9
Span 10
Light to moderate sand accumulation in shoulder (similar at north shoulder)
BRIDGE NO. 020001
Pier 9 deck joint (looking north)
07/01/2009


PHOTO #49
Minor scrapes and gouges (typical)
Approach slab sealed expansion joint with elastomeric headers
Light to moderate sand/debris accumulation in joint
Bridge
Approach
BRIDGE NO. 020001
East abutment deck joint (looking north)
07/01/2009


PHOTO #50
G-6
Double nuts
Minor gap (as-built) up to 1/4" high between masonry plate and the bearing pedestal at north and south edges (similar on several bearing on bridge)
BRIDGE NO. 020001
South side G-6 bearing at the west abutment
07/01/2009


PHOTO #51
G-8
8
P1
Light bleeding rust
(2) anchor bolt nuts not tightened
BRIDGE NO. 020001
South side G-8 bearing at pier 1 (looking northeast)
07/01/2009


PHOTO #52
G-9
Anchor bolt nuts are loose/not fully tightened (similar at G-2, G-4, G-5, G-6, G-8 and G-10 bearings)
BRIDGE NO. 020001
North side of G-9 bearing at pier 1 (looking southeast)
07/01/2009

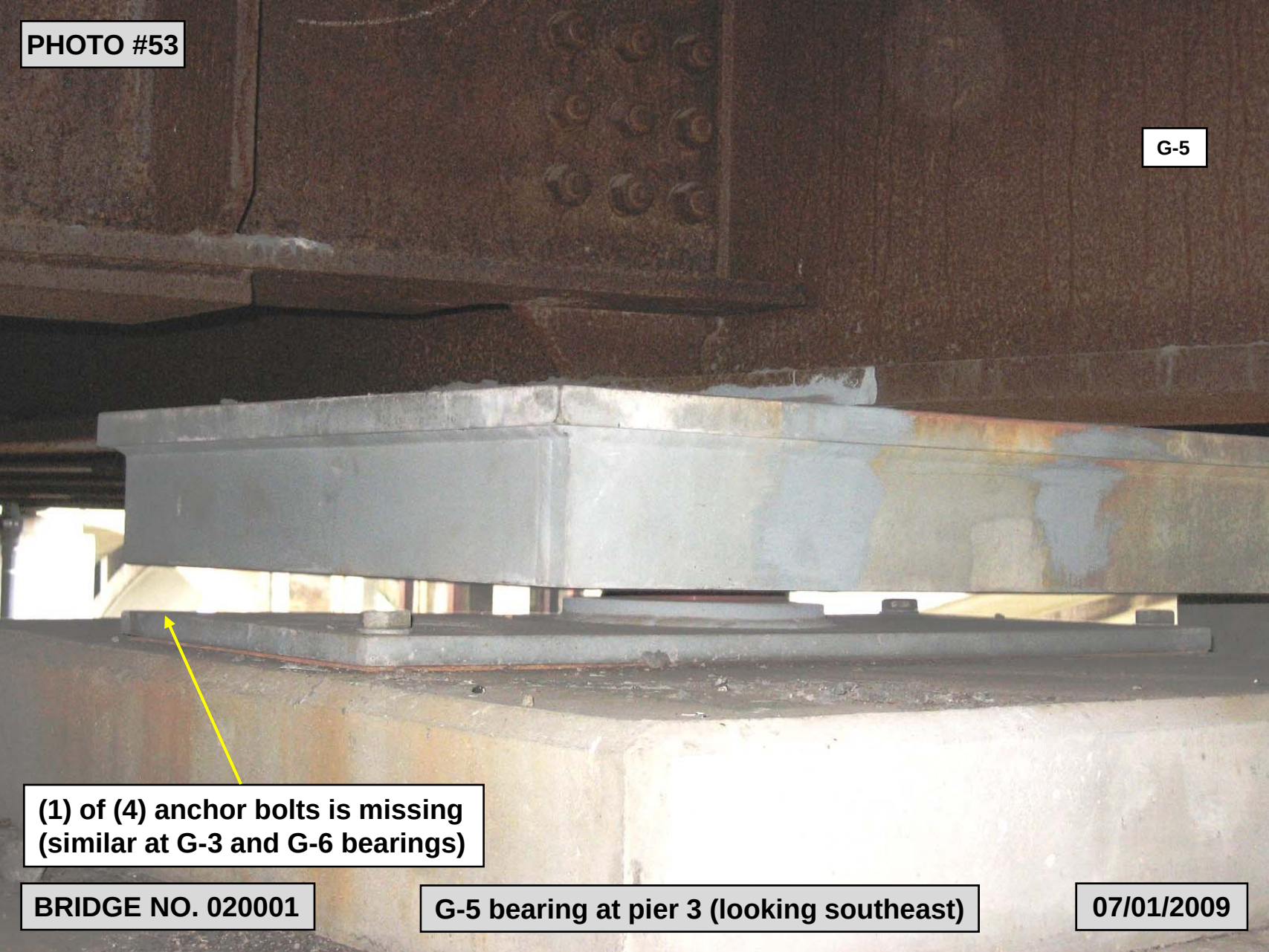

PHOTO #53
G-5
(1) of (4) anchor bolts is missing
(similar at G-3 and G-6 bearings)
BRIDGE NO. 020001
G-5 bearing at pier 3 (looking southeast)
07/01/2009

PHOTO #54



G-3

Anchor bolt nut is not fully tightened and is slightly tilted to the north

BRIDGE NO. 020001

G-3 bearing at pier 7 (looking east)

07/01/2009

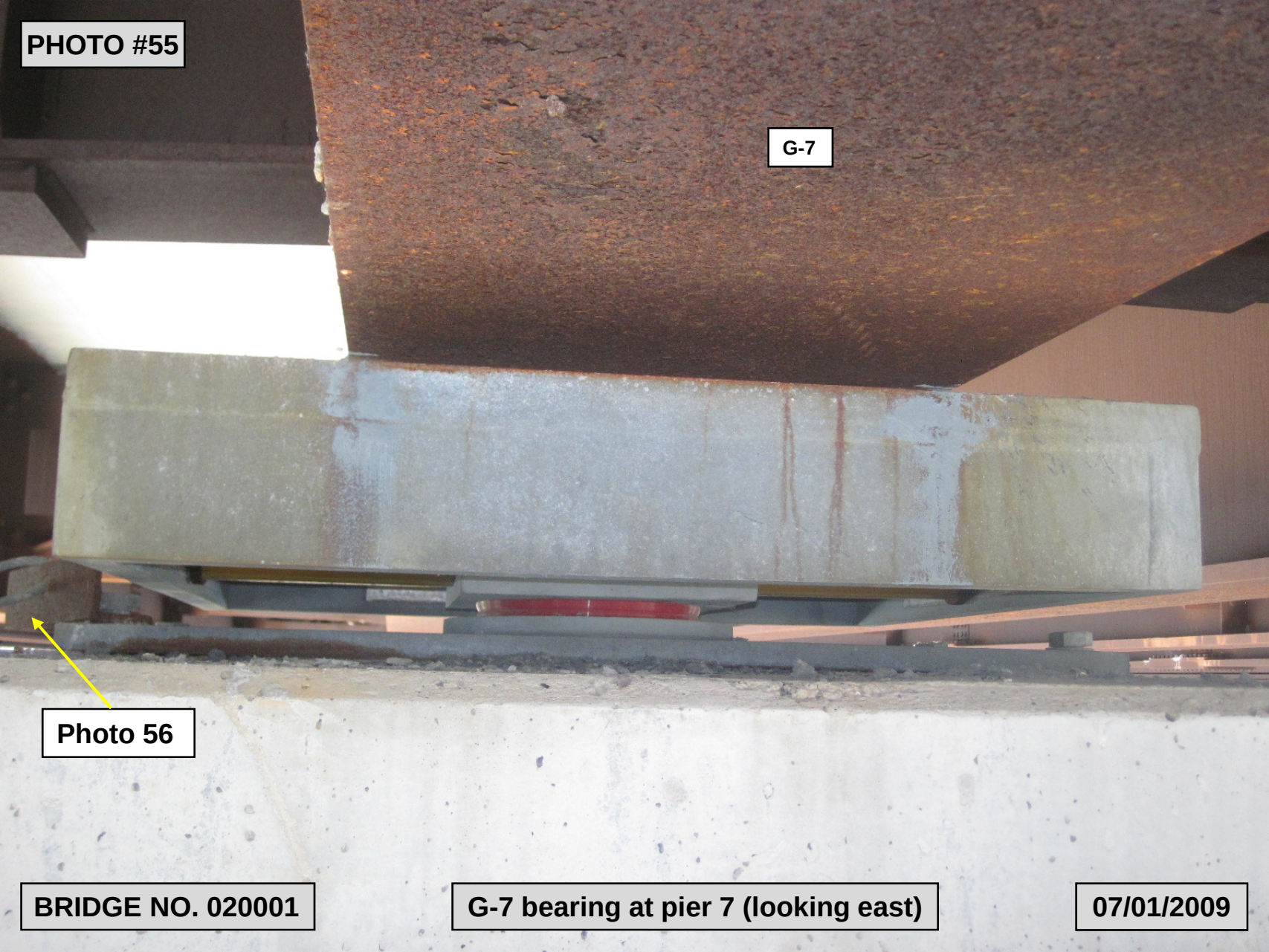
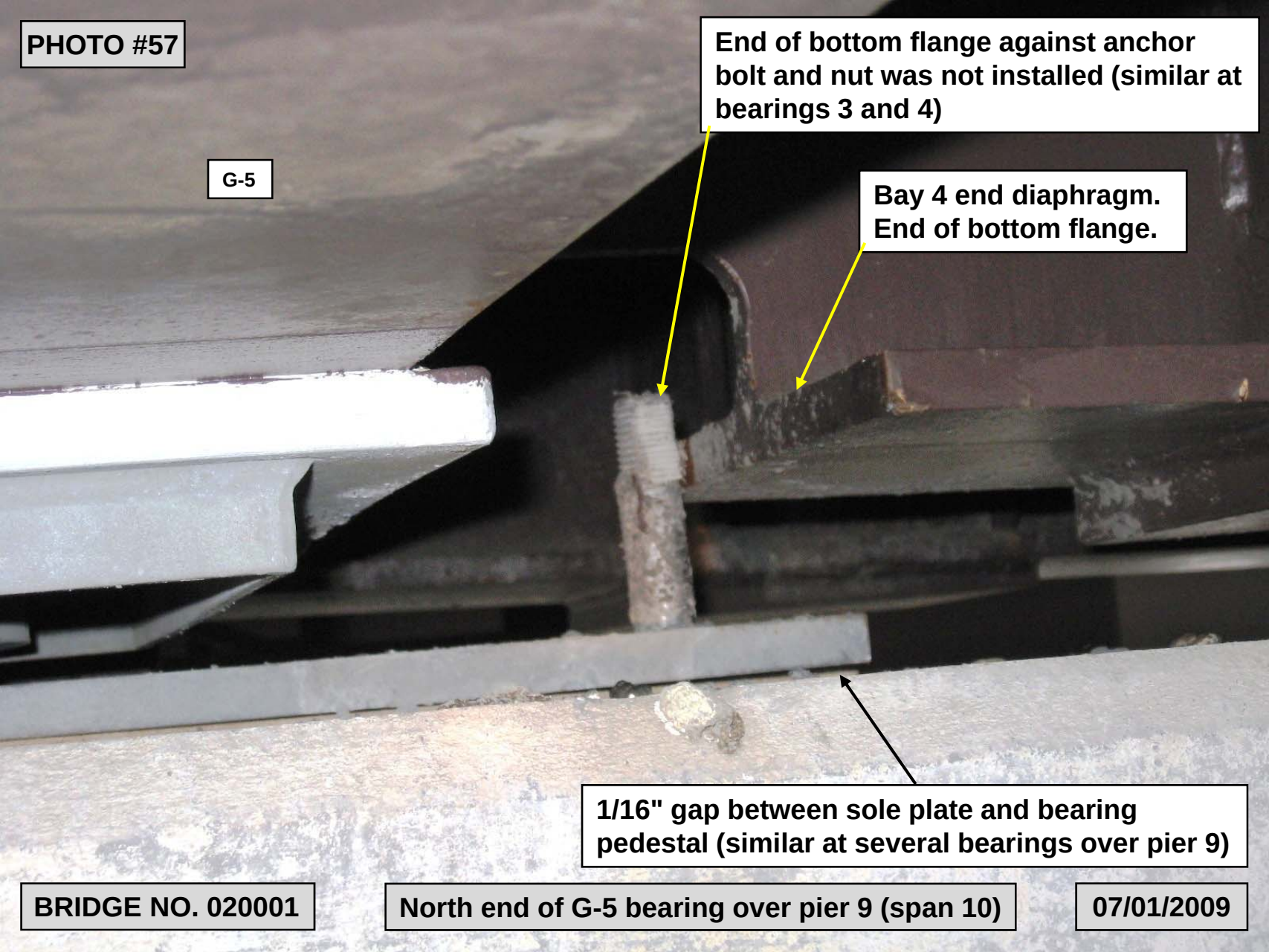

PHOTO #55
G-7
Photo 56
BRIDGE NO. 020001
G-7 bearing at pier 7 (looking east)
07/01/2009


PHOTO #56
Cable left by contractor is attached to bearing 7 anchor bolt on pier 7 cap to bay 1. Cable is not attached to any other member.
G-8
BRIDGE NO. 020001
South side of G-7 bearing at pier 7
07/01/2009


PHOTO #57
G-5
End of bottom flange against anchor bolt and nut was not installed (similar at bearings 3 and 4)
Bay 4 end diaphragm. End of bottom flange.
1/16" gap between sole plate and bearing pedestal (similar at several bearings over pier 9)
BRIDGE NO. 020001
North end of G-5 bearing over pier 9 (span 10)
07/01/2009

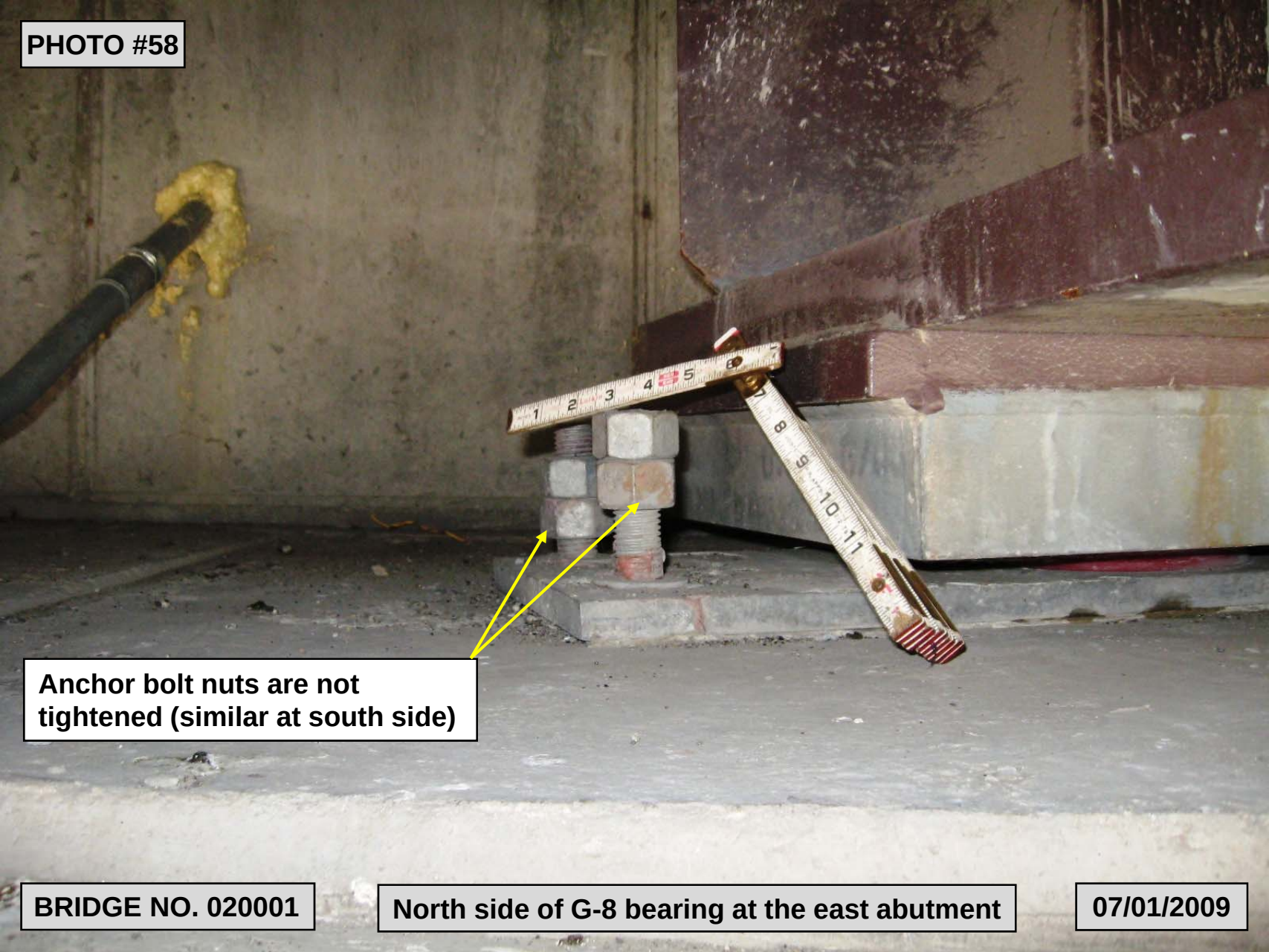

PHOTO #58
Anchor bolt nuts are not tightened (similar at south side)
BRIDGE NO. 020001
North side of G-8 bearing at the east abutment
07/01/2009

PHOTO #59



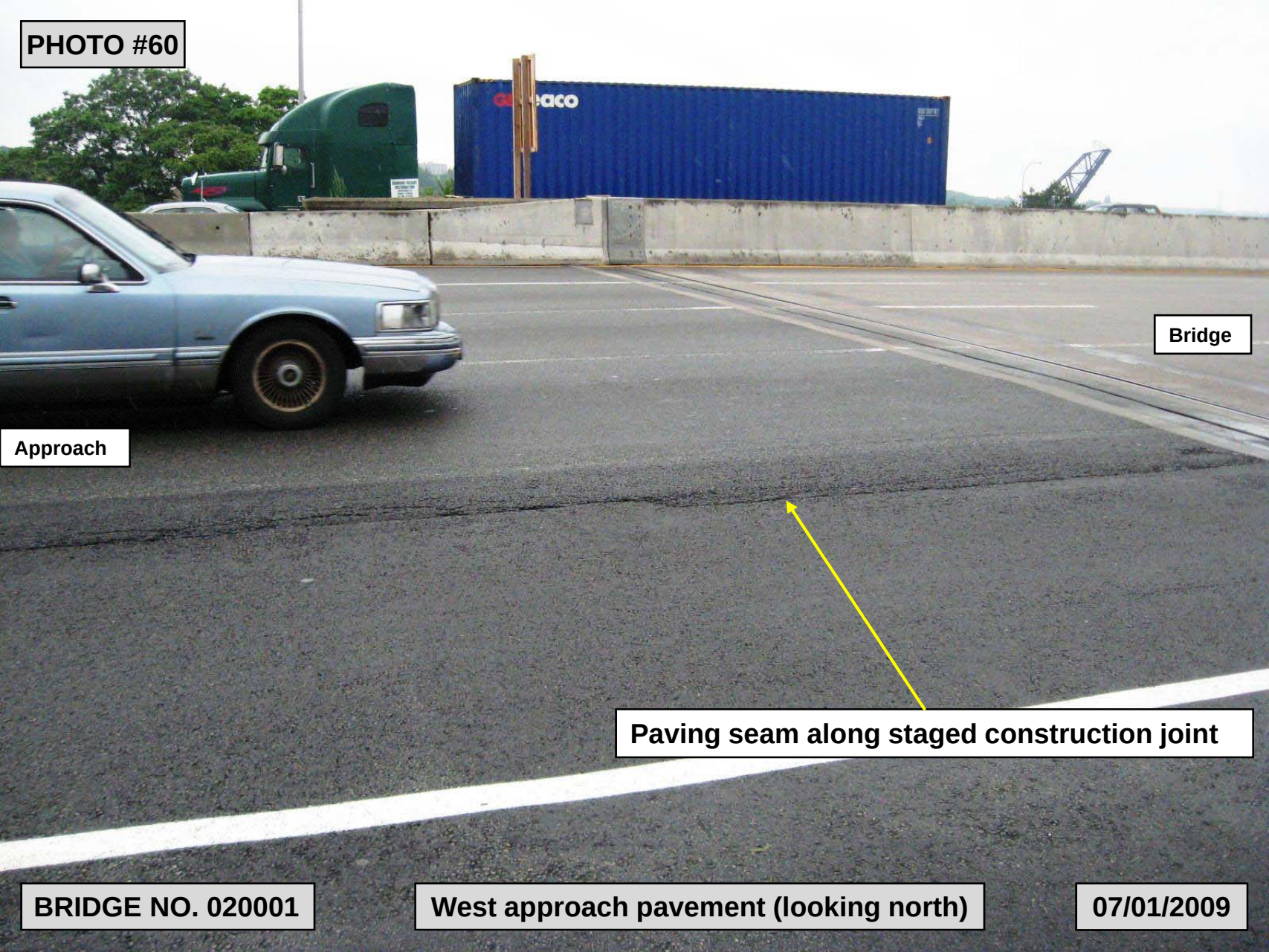
Anchor bolt is tilted to the north

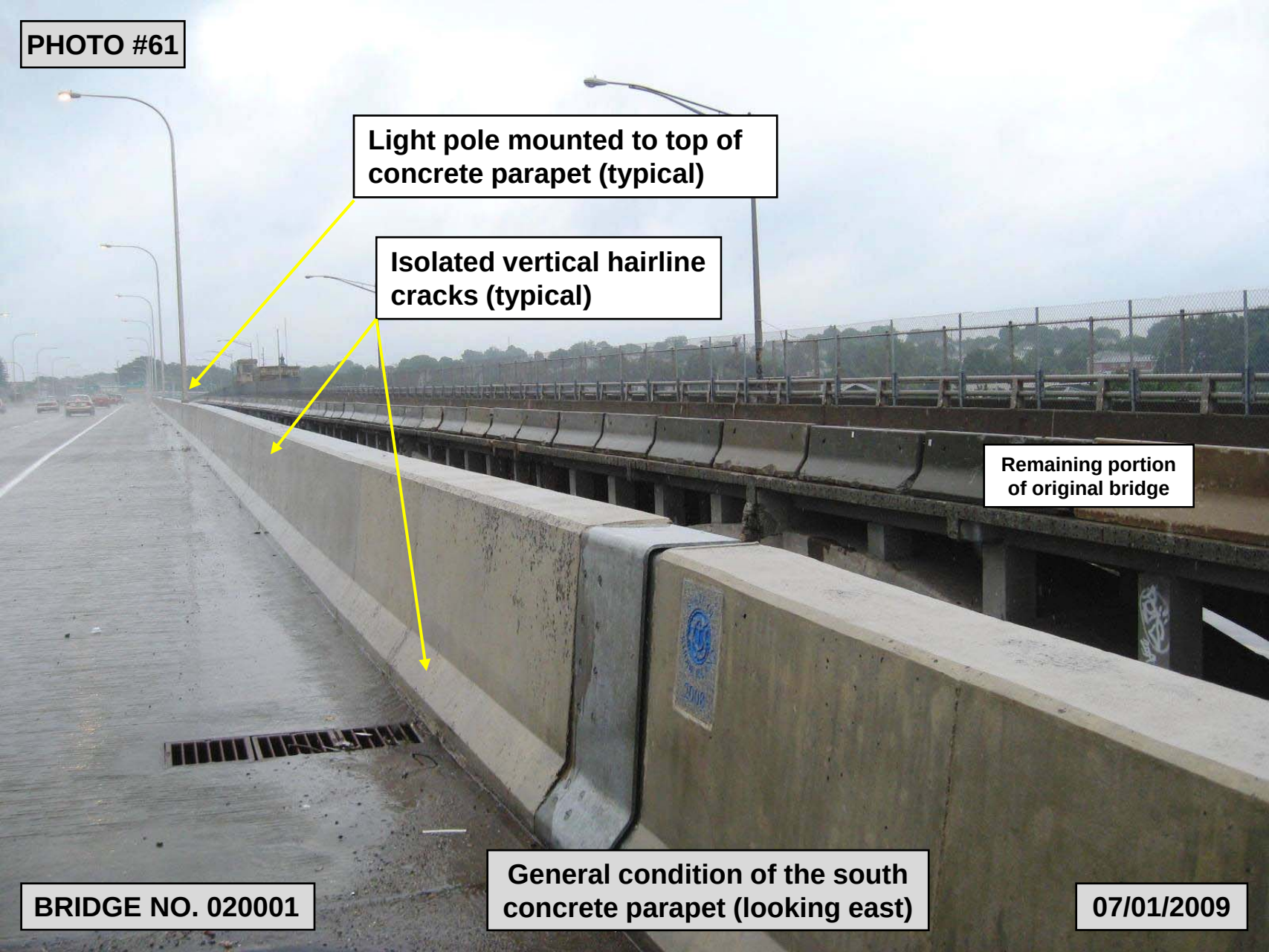
G-6

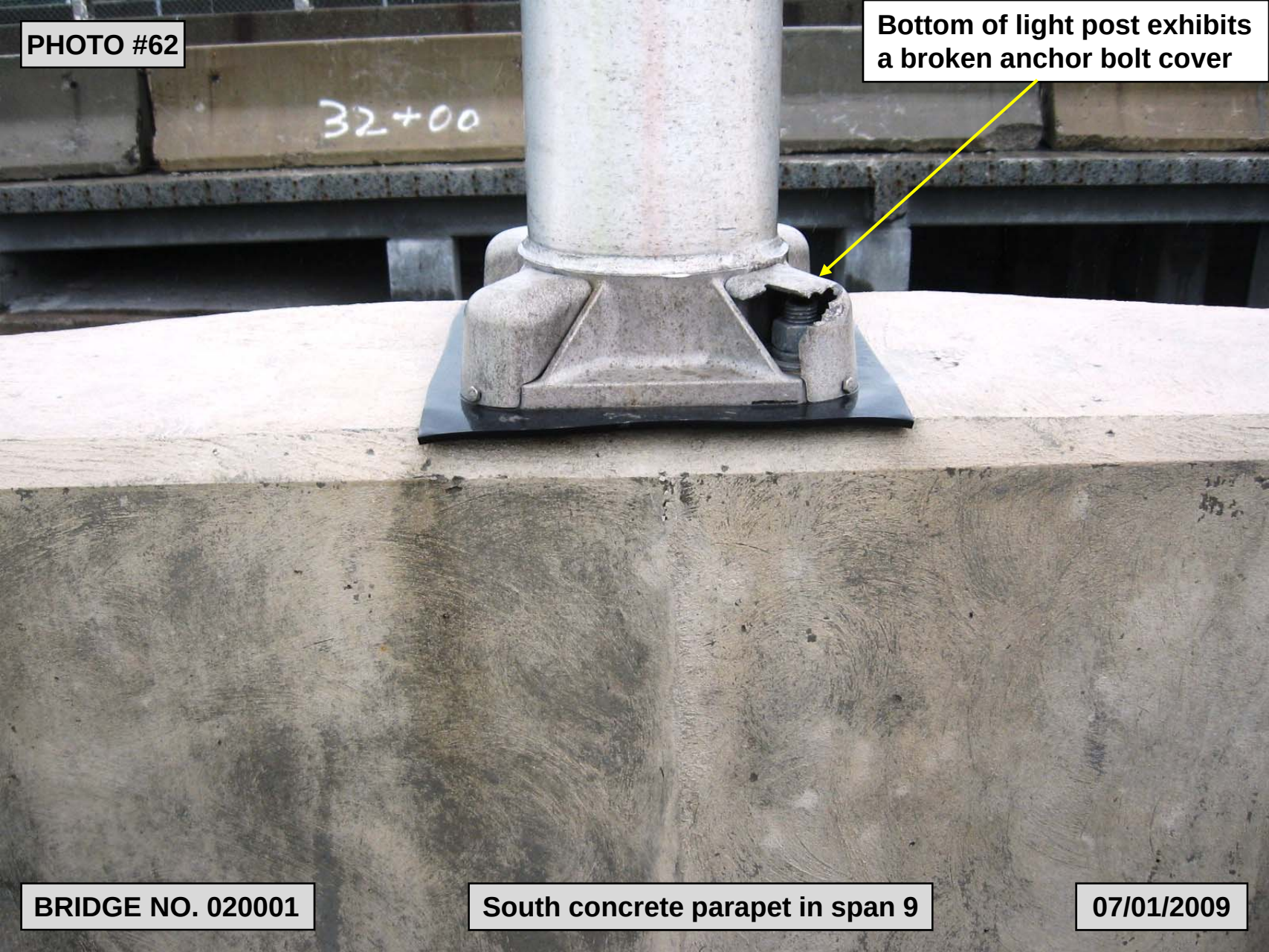
BRIDGE NO. 020001

North side of G-6 bearing at the east abutment

07/01/2009


PHOTO #60
Bridge
Approach
Paving seam along staged construction joint
BRIDGE NO. 020001
West approach pavement (looking north)
07/01/2009


PHOTO #61
Light pole mounted to top of concrete parapet (typical)
Isolated vertical hairline cracks (typical)
Remaining portion of original bridge
BRIDGE NO. 020001
General condition of the south concrete parapet (looking east)
07/01/2009


PHOTO #62
32+00
Bottom of light post exhibits a broken anchor bolt cover
BRIDGE NO. 020001
South concrete parapet in span 9
07/01/2009

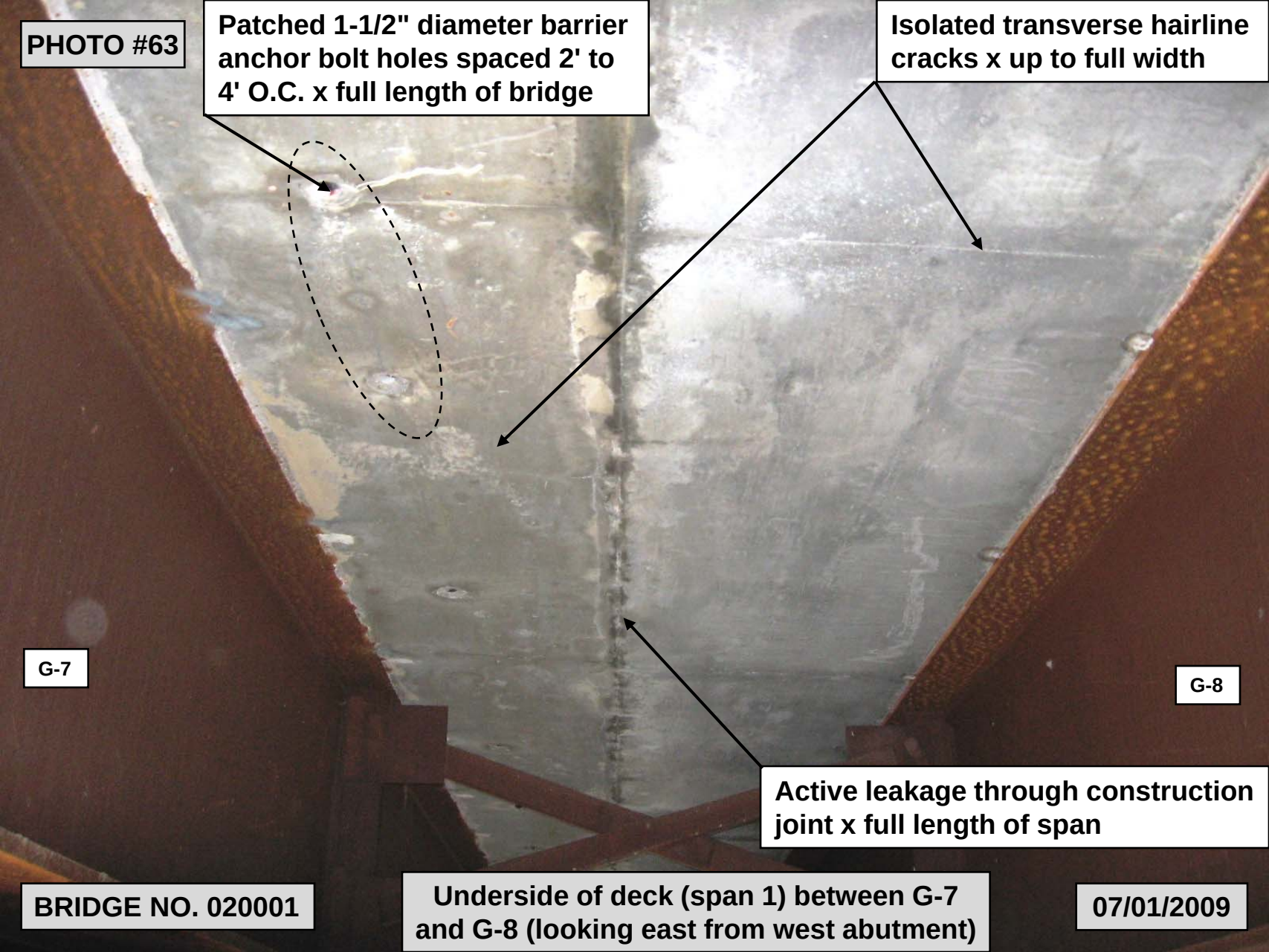
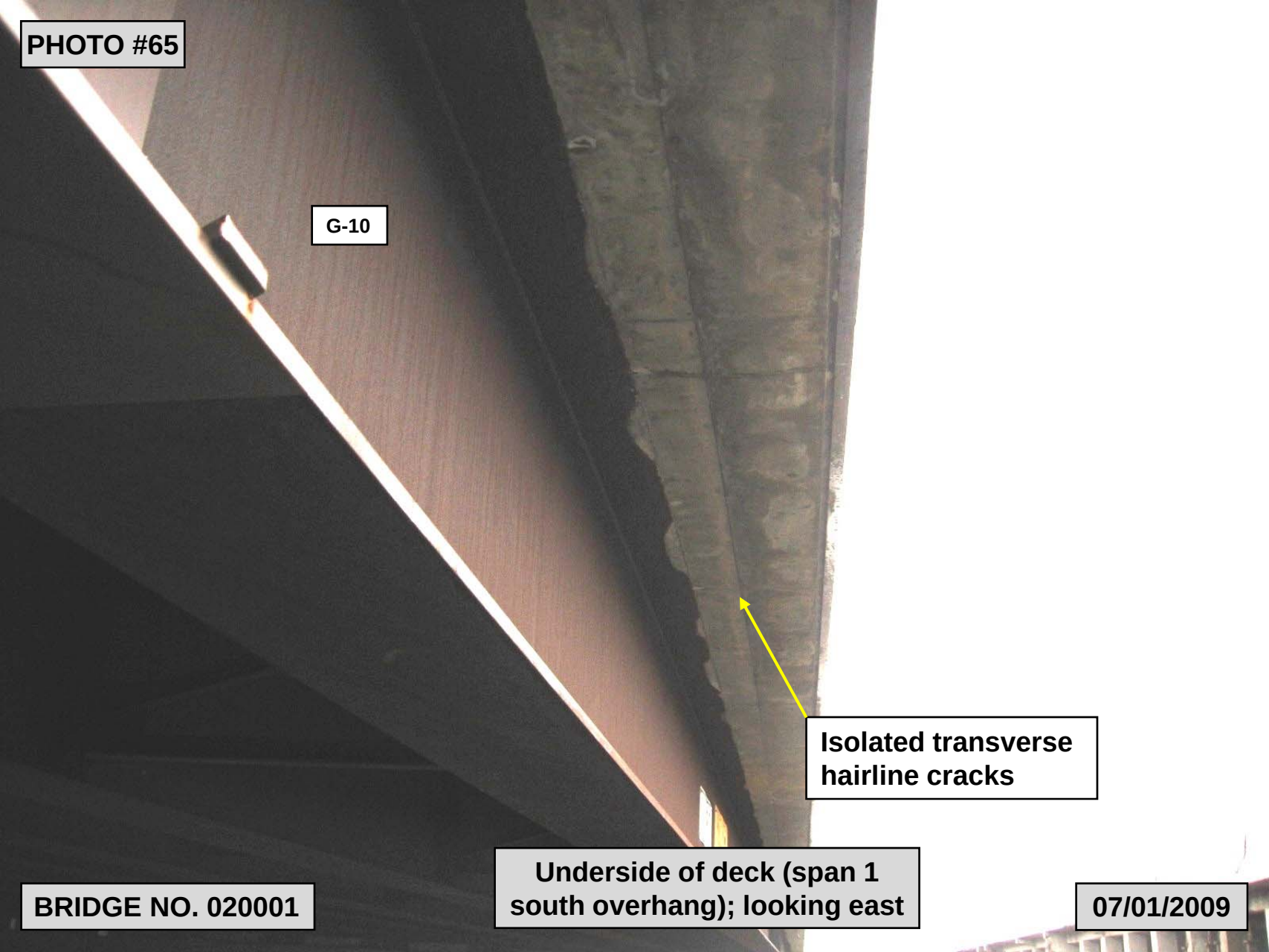

PHOTO #63
Patched 1-1/2" diameter barrier anchor bolt holes spaced 2' to 4' O.C. x full length of bridge
Isolated transverse hairline cracks x up to full width
G-7
G-8
Active leakage through construction joint x full length of span
BRIDGE NO. 020001
Underside of deck (span 1) between G-7 and G-8 (looking east from west abutment)
07/01/2009


PHOTO #64
SIP forms present in all bays except bay 7 show no notable deficiencies (typical)
G-6
G-8
G-10
BRIDGE NO. 020001
Underside of deck (span 2) between G-6 and G-10 (looking east)
07/01/2009


PHOTO #65
G-10
Isolated transverse hairline cracks
Underside of deck (span 1 south overhang); looking east
BRIDGE NO. 020001
07/01/2009

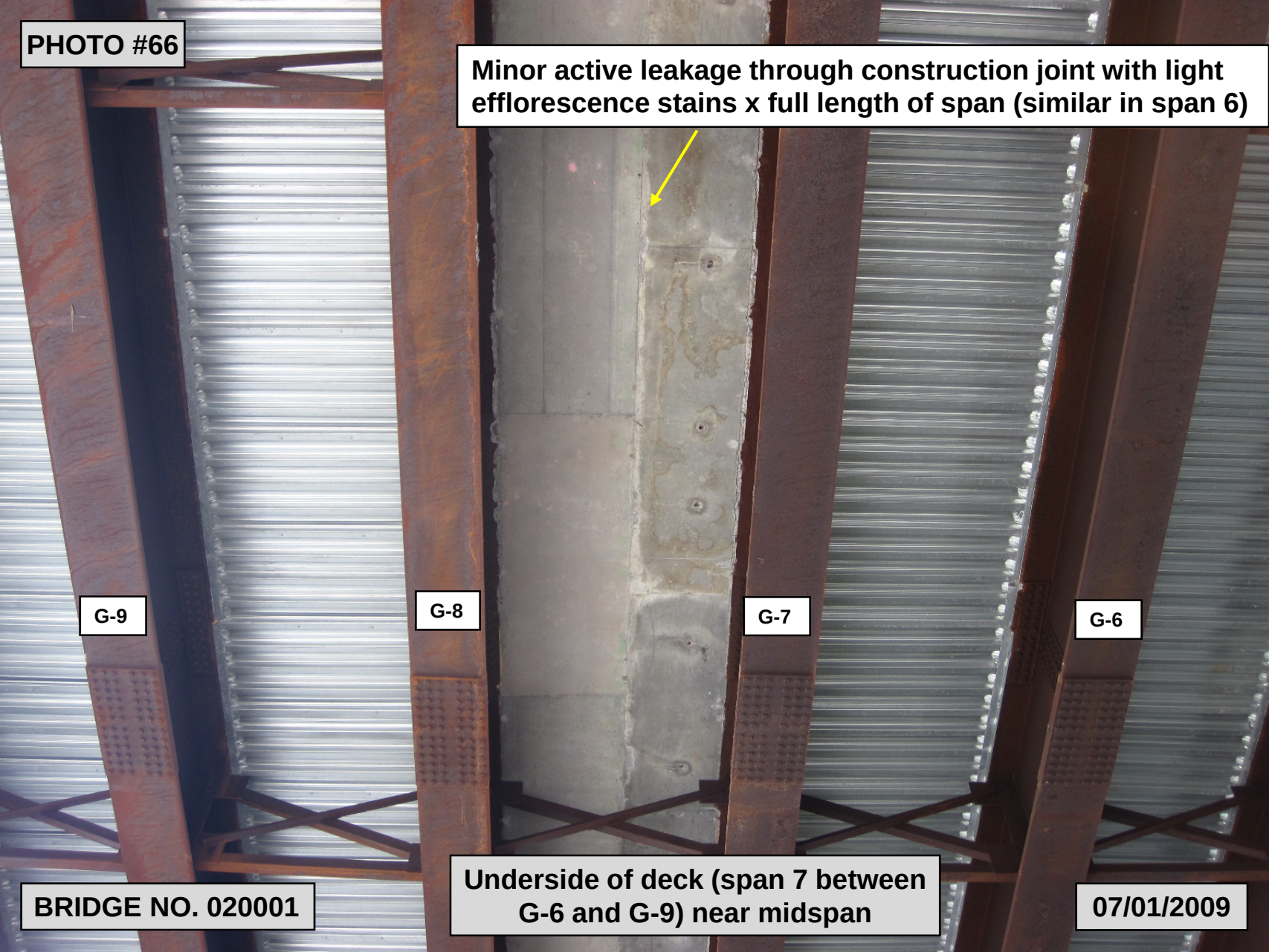
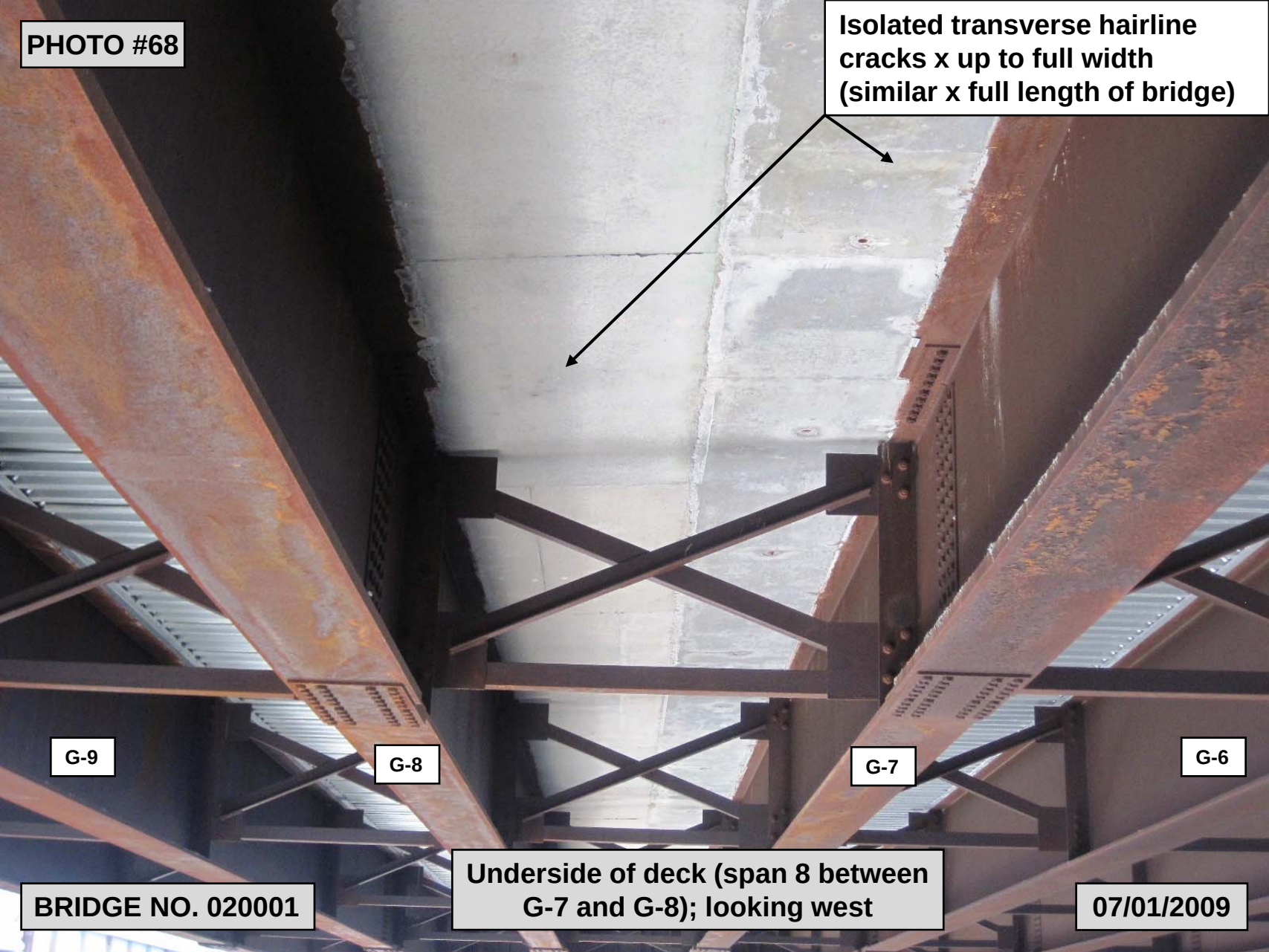

PHOTO #66
Minor active leakage through construction joint with light efflorescence stains x full length of span (similar in span 6)
G-9
G-8
G-7
G-6
BRIDGE NO. 020001
Underside of deck (span 7 between G-6 and G-9) near midspan
07/01/2009


PHOTO #67
Minor active leakage with light efflorescence stains x 20' long
G-7
G-8
Underside of deck; span 4 between G-7 and G-8, near pier 4 (looking east)
BRIDGE NO. 020001
07/01/2009


PHOTO #68
Isolated transverse hairline cracks x up to full width (similar x full length of bridge)
G-9
G-8
G-7
G-6
BRIDGE NO. 020001
Underside of deck (span 8 between G-7 and G-8); looking west
07/01/2009

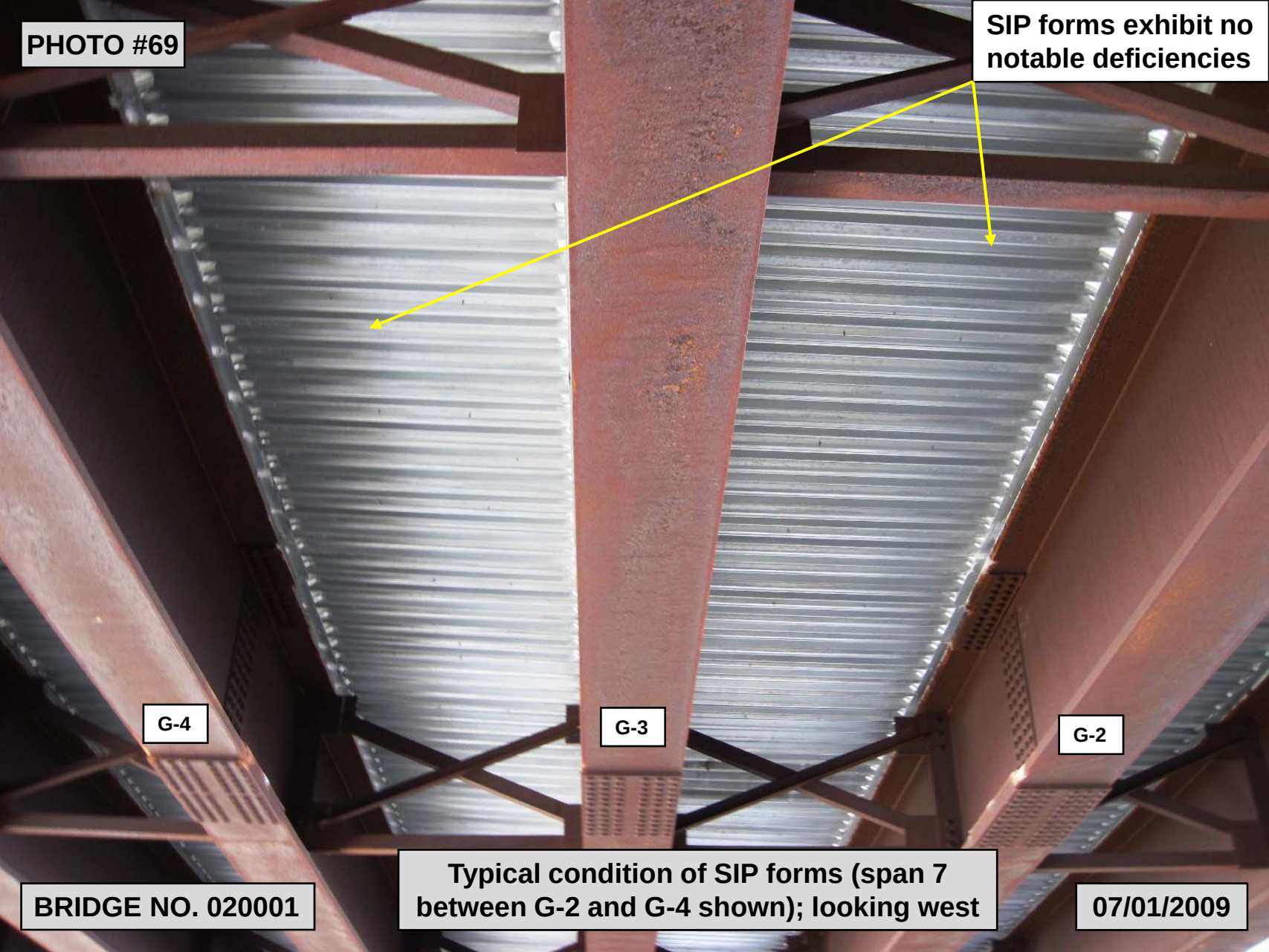

PHOTO #69
SIP forms exhibit no notable deficiencies
G-4
G-3
G-2
BRIDGE NO. 020001
Typical condition of SIP forms (span 7 between G-2 and G-4 shown); looking west
07/01/2009

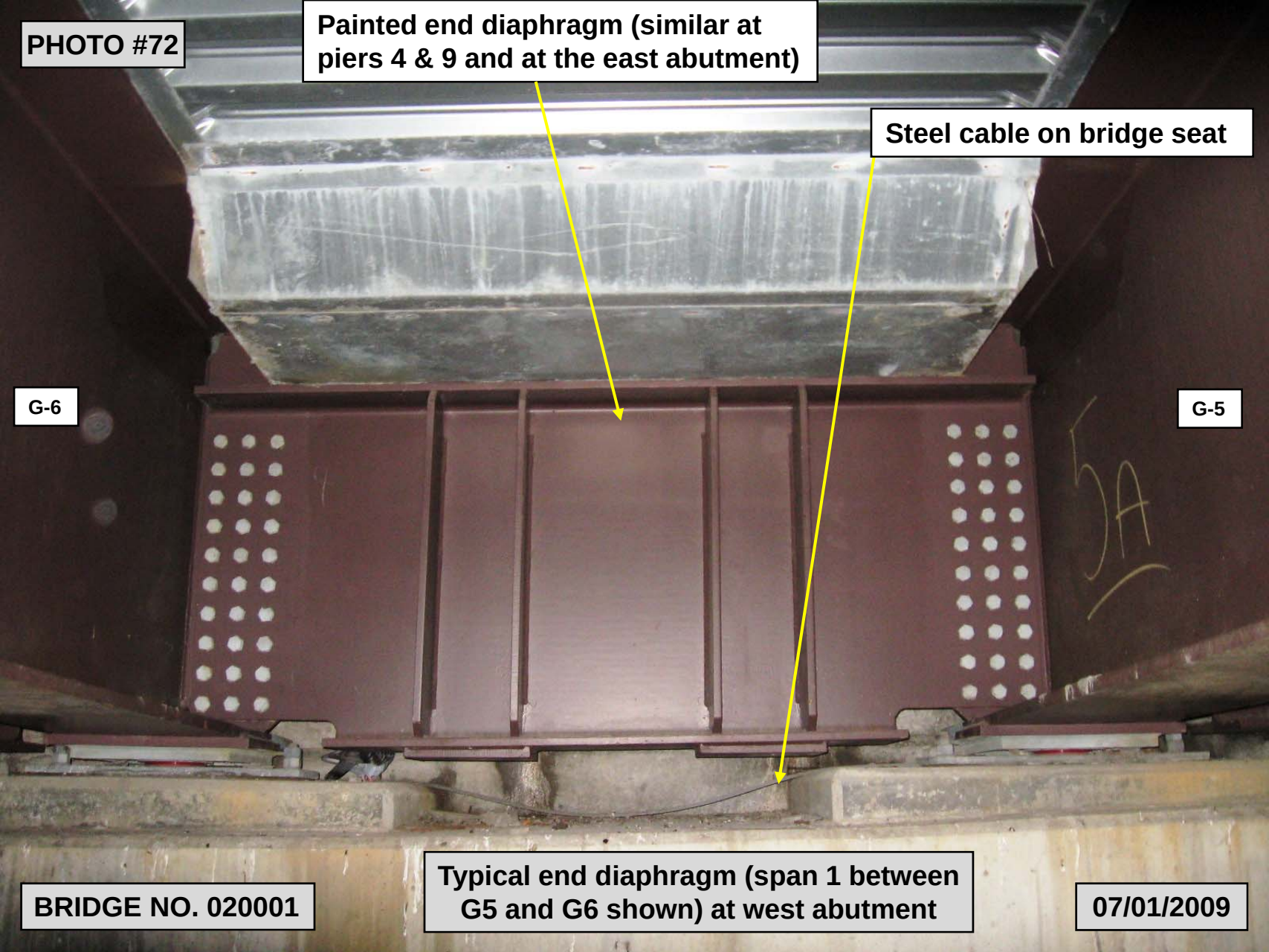

PHOTO #70
Normal uniform rust (typical)
G-4
G-5
BRIDGE NO. 020001
Underside of deck and typical interior diaphragm (span 1) between G5 and G4 (looking east)
07/01/2009

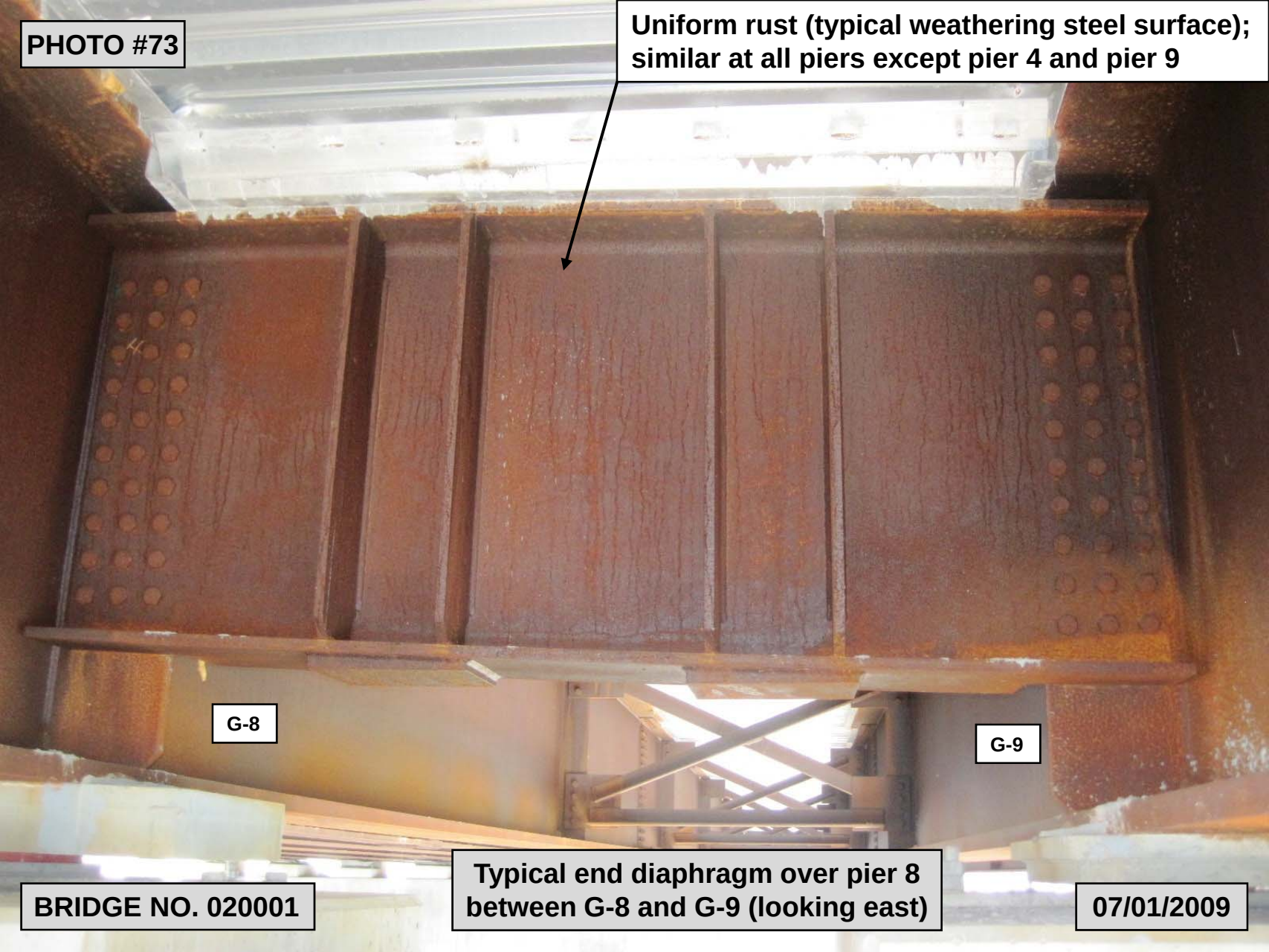


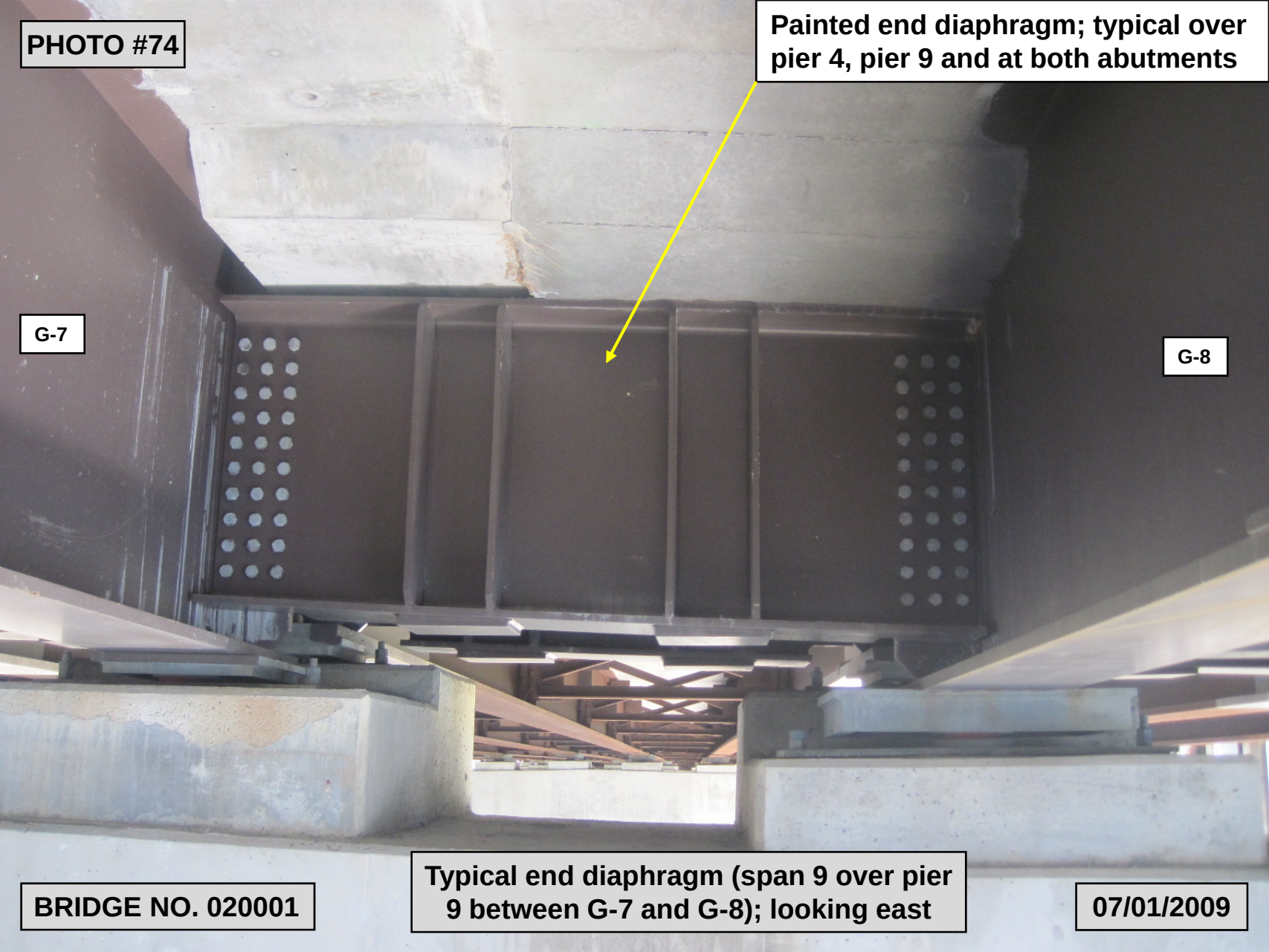
BRIDGE NO. 020001

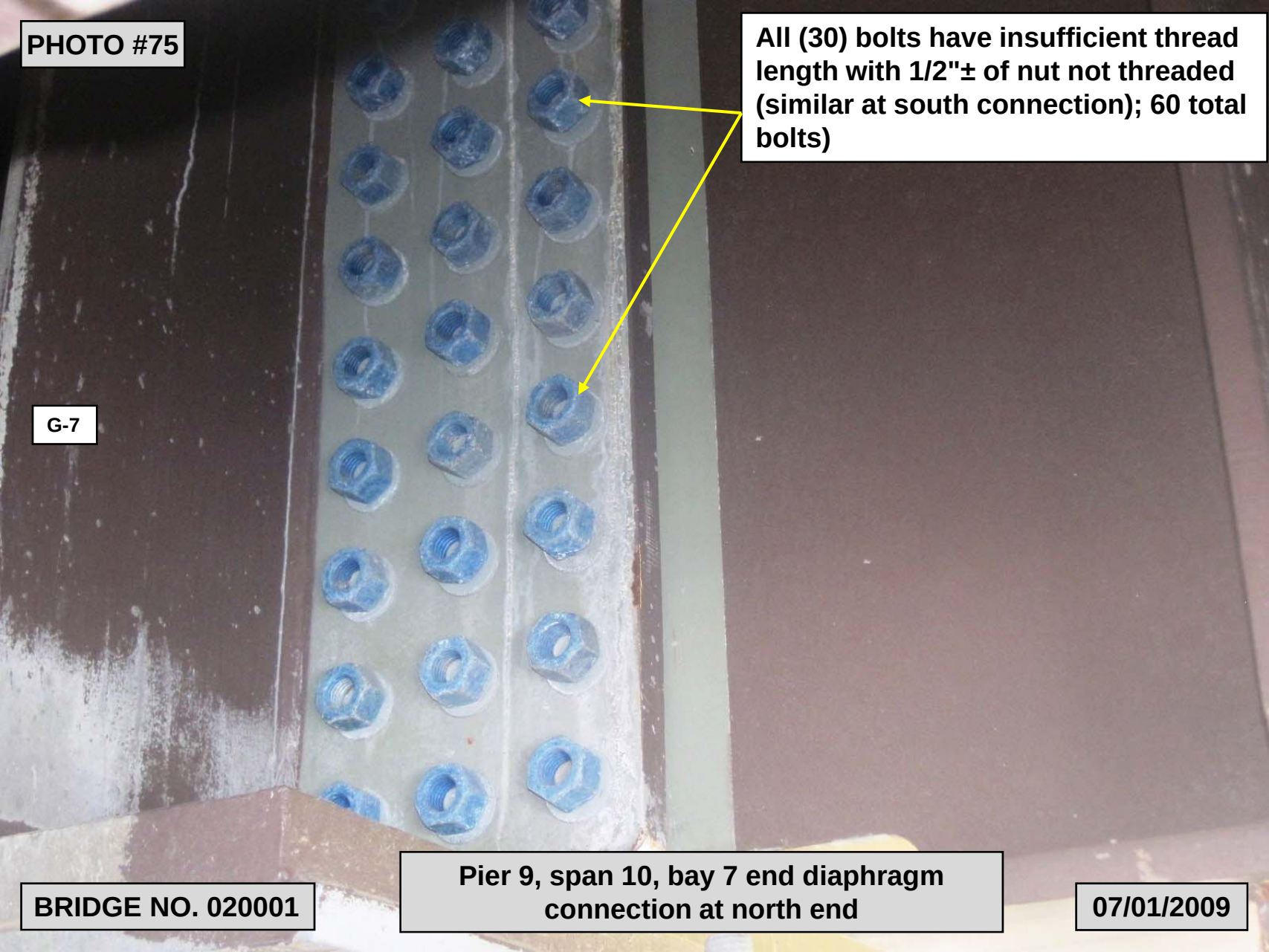
Underside of deck and typical interior diaphragm (span 8) between G3 and G4 (looking west)

07/01/2009


PHOTO #72
Painted end diaphragm (similar at piers 4 & 9 and at the east abutment)
Steel cable on bridge seat
G-6
G-5
BRIDGE NO. 020001
Typical end diaphragm (span 1 between G5 and G6 shown) at west abutment
07/01/2009


PHOTO #73
Uniform rust (typical weathering steel surface); similar at all piers except pier 4 and pier 9
G-8
G-9
BRIDGE NO. 020001
Typical end diaphragm over pier 8 between G-8 and G-9 (looking east)
07/01/2009


PHOTO #74
Painted end diaphragm; typical over pier 4, pier 9 and at both abutments
G-7
G-8
BRIDGE NO. 020001
Typical end diaphragm (span 9 over pier 9 between G-7 and G-8); looking east
07/01/2009


PHOTO #75
All (30) bolts have insufficient thread length with 1/2"± of nut not threaded (similar at south connection); 60 total bolts)
G-7
BRIDGE NO. 020001
Pier 9, span 10, bay 7 end diaphragm connection at north end
07/01/2009

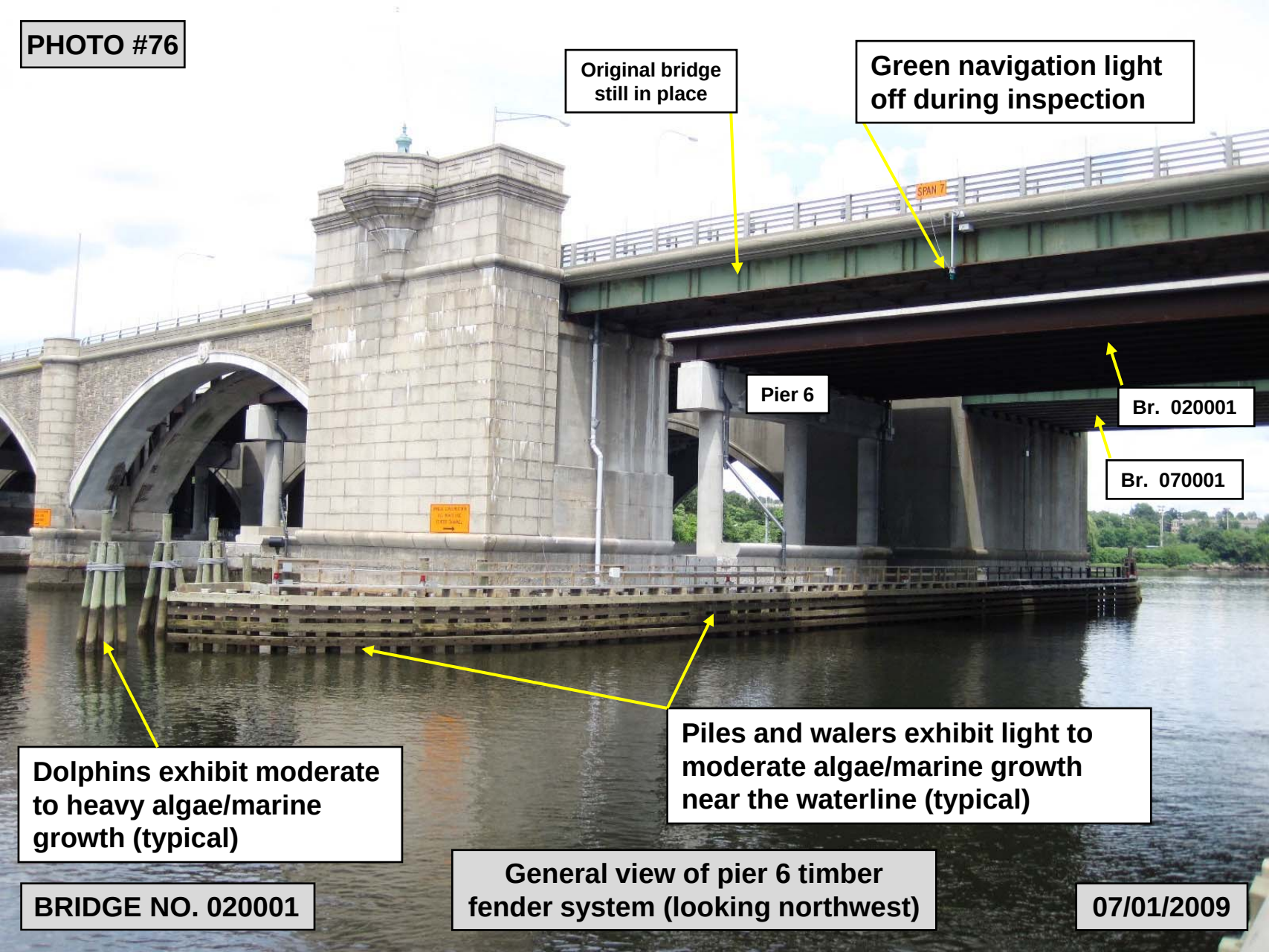
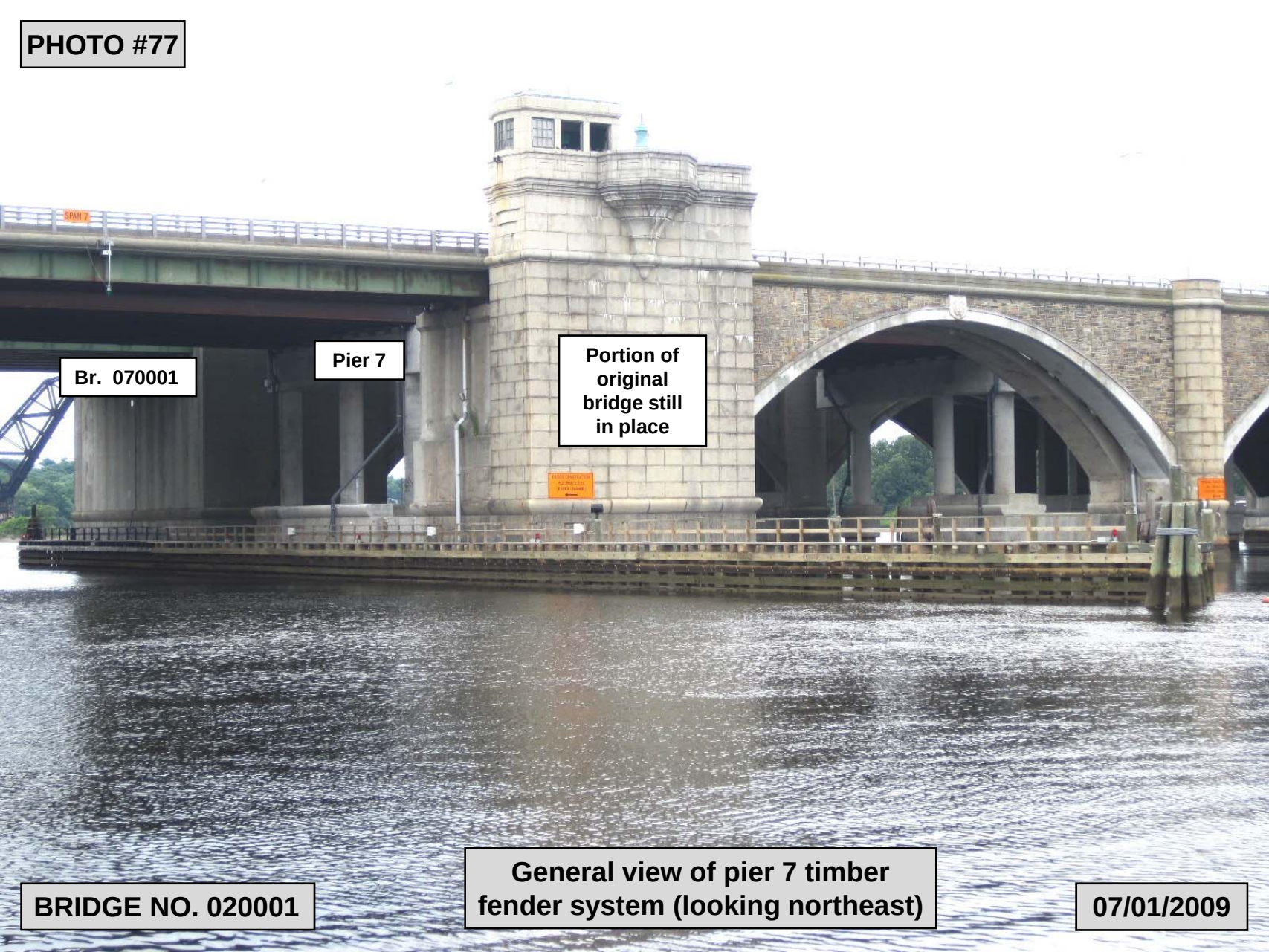

PHOTO #76
Original bridge still in place
Green navigation light off during inspection
SPAN 7
Pier 6
Br. 020001
Br. 070001
Dolphins exhibit moderate to heavy algae/marine growth (typical)
Piles and walers exhibit light to moderate algae/marine growth near the waterline (typical)
BRIDGE NO. 020001
General view of pier 6 timber fender system (looking northwest)
07/01/2009

PHOTO #77



BRIDGE NO. 020001

General view of pier 7 timber fender system (looking northeast)

07/01/2009

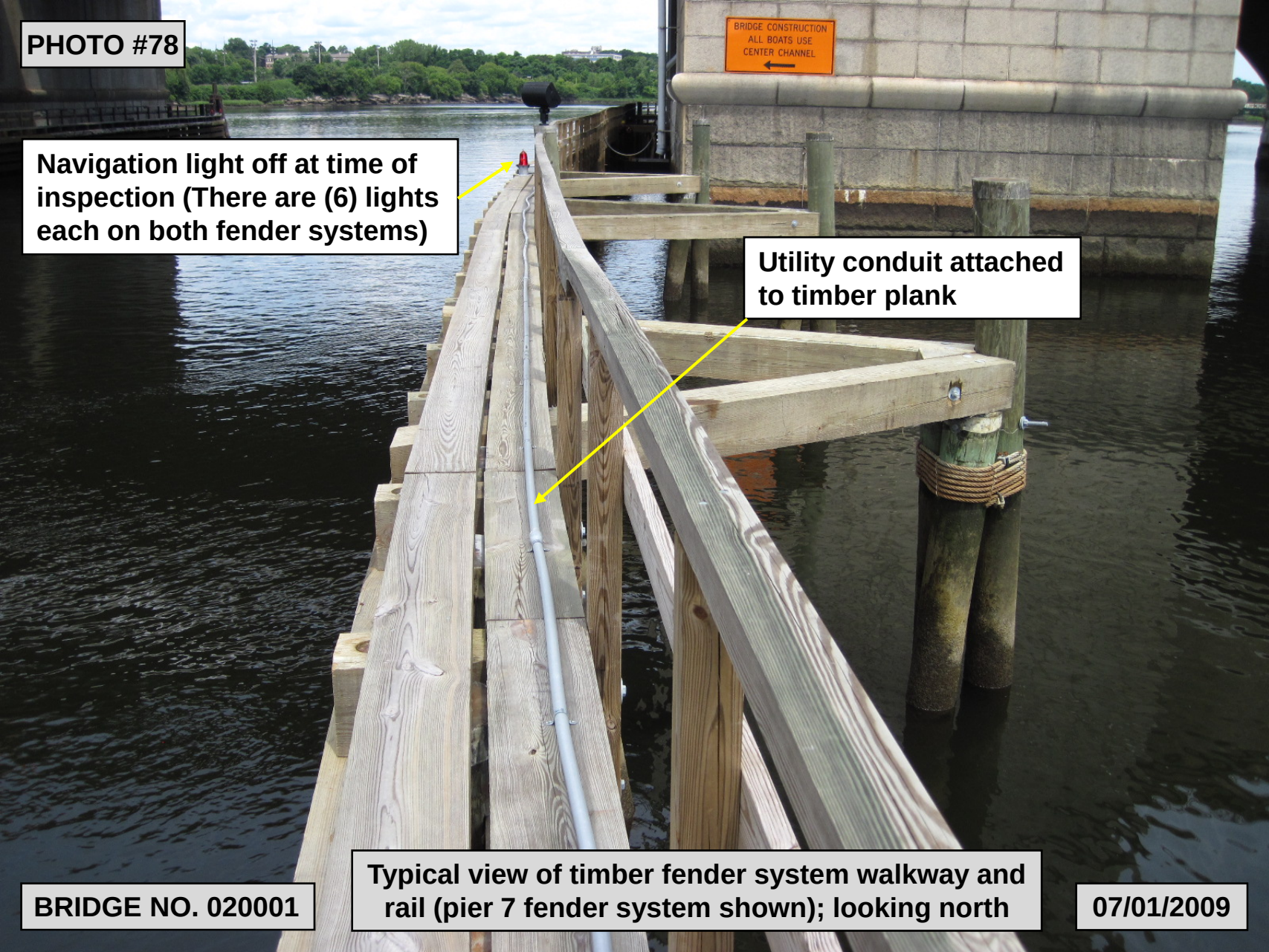

PHOTO #78
Navigation light off at time of inspection (There are (6) lights each on both fender systems)
Utility conduit attached to timber plank
BRIDGE CONSTRUCTION
ALL BOATS USE
CENTER CHANNEL
BRIDGE NO. 020001
Typical view of timber fender system walkway and rail (pier 7 fender system shown); looking north
07/01/2009



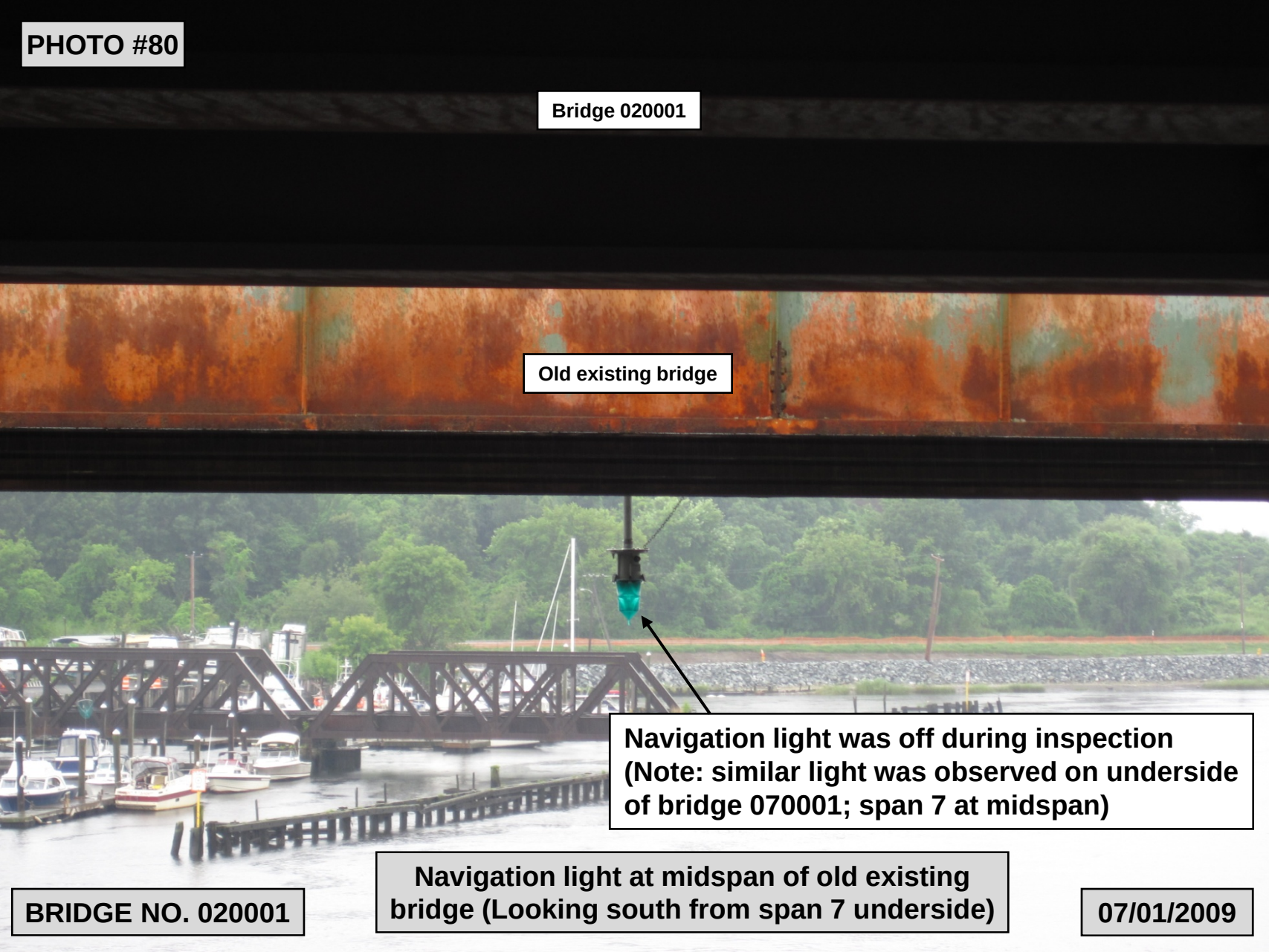
PHOTO #79

Typical navigation light, utility conduit and junction box attached to fender system walkway (Pier 7 fender system shown; looking south)

BRIDGE NO. 020001

07/01/2009

PHOTO #80



BRIDGE NO. 020001

Navigation light at midspan of old existing bridge (Looking south from span 7 underside)

07/01/2009

PHOTO #81



BRIDGE NO. 020001

Directional sign structure bolted to the top of the north and south concrete parapets, over pier 13 (looking east)

07/01/2009