

Photo #1

Bridge No. 020001

Bridge ID at west abutment

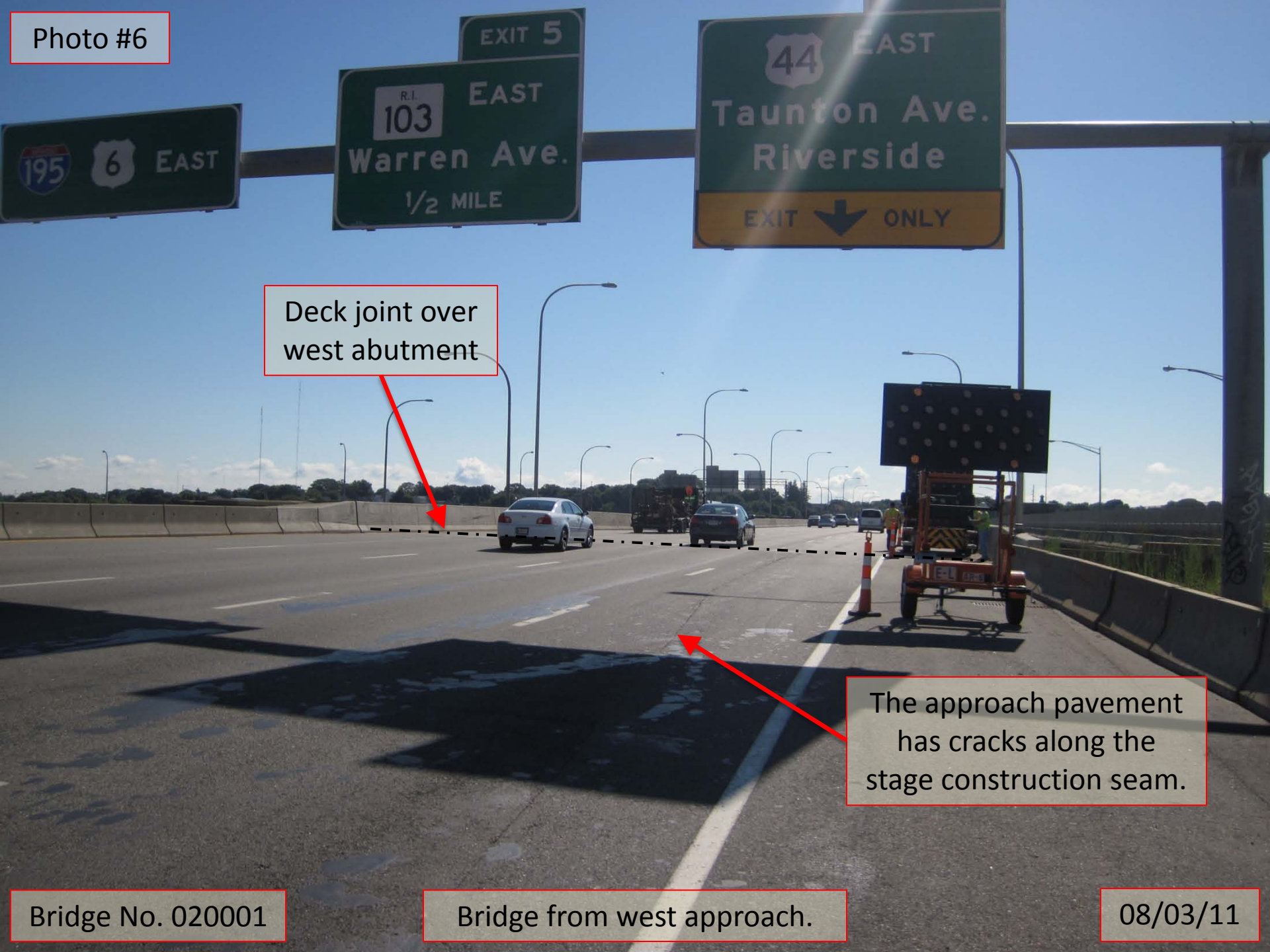
07/18/11


Photo #2
I-195
26-1"
Girder 10
Bridge 020001
Bridge 070001
Bridge No. 020001
South elevation span 1, looking north.
07/20/11


Photo #3
Girder 10
Pier 6
Bridge No. 020001
South elevation spans 1-6, looking west.
07/28/11


Photo #4
Girder 10
Pier 8
Pier 7
Bridge No. 020001
South elevation spans 8-12, looking east.
07/28/11


Photo #5
Girder 10
I-195
27'-2"
Girder B-2
Bridge No. 020001
South elevation span 14 over Water Street, looking north.
07/19/11


Photo #6
EXIT 5
R.I. 103 EAST
Warren Ave.
1/2 MILE
195 6 EAST
44 EAST
Taunton Ave.
Riverside
EXIT ONLY
Deck joint over west abutment
The approach pavement has cracks along the stage construction seam.
Bridge No. 020001
Bridge from west approach.
08/03/11

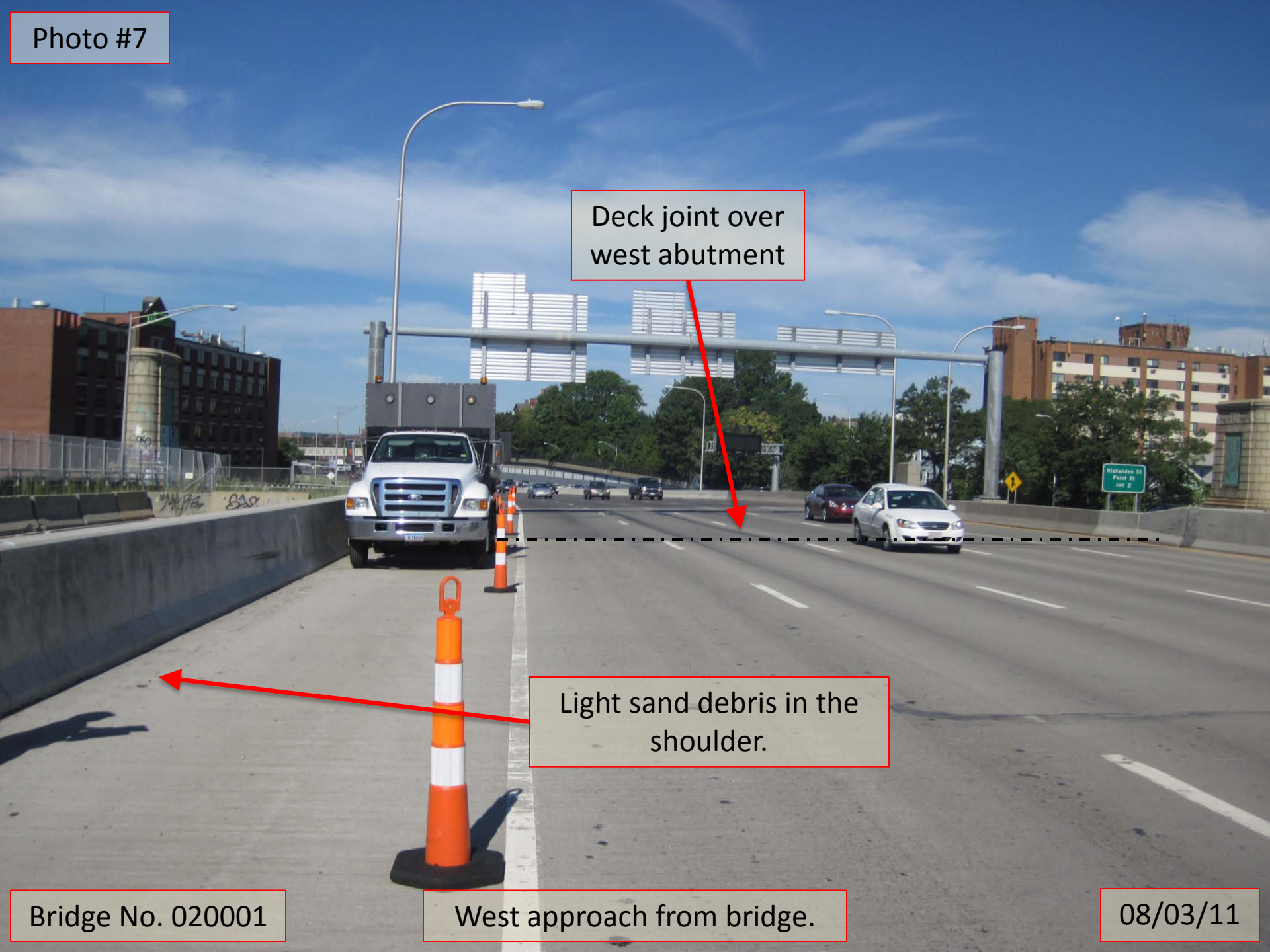
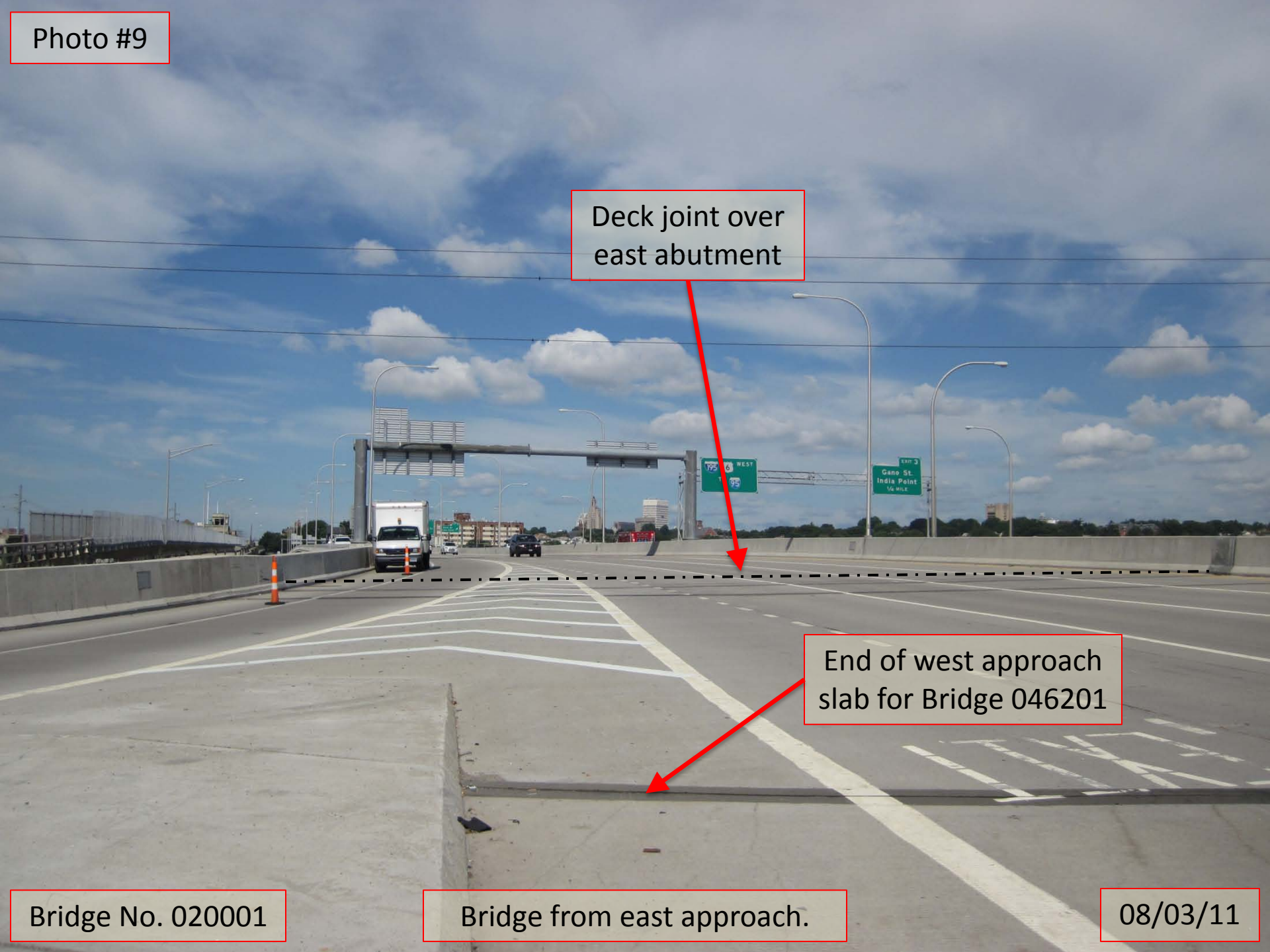
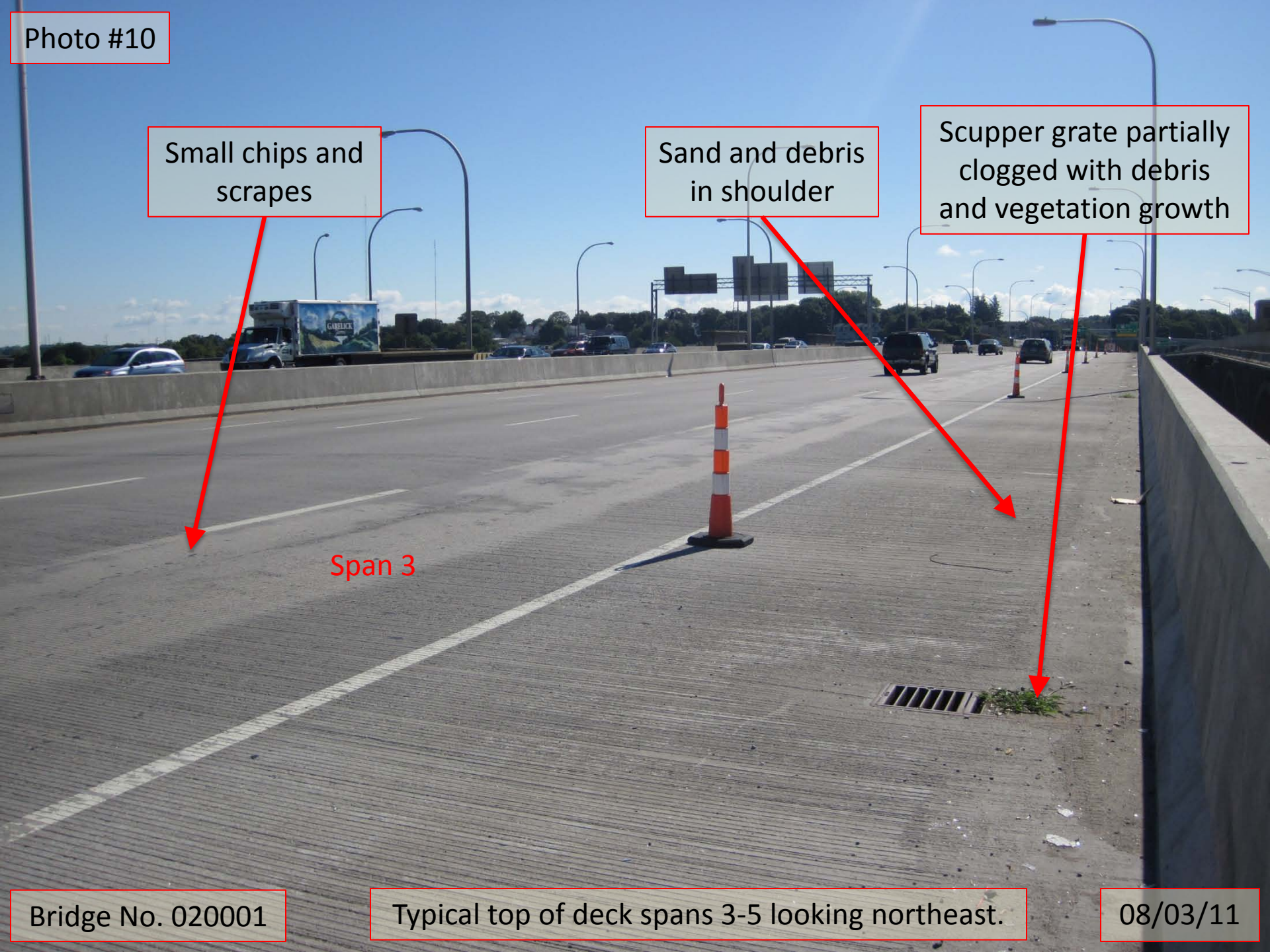
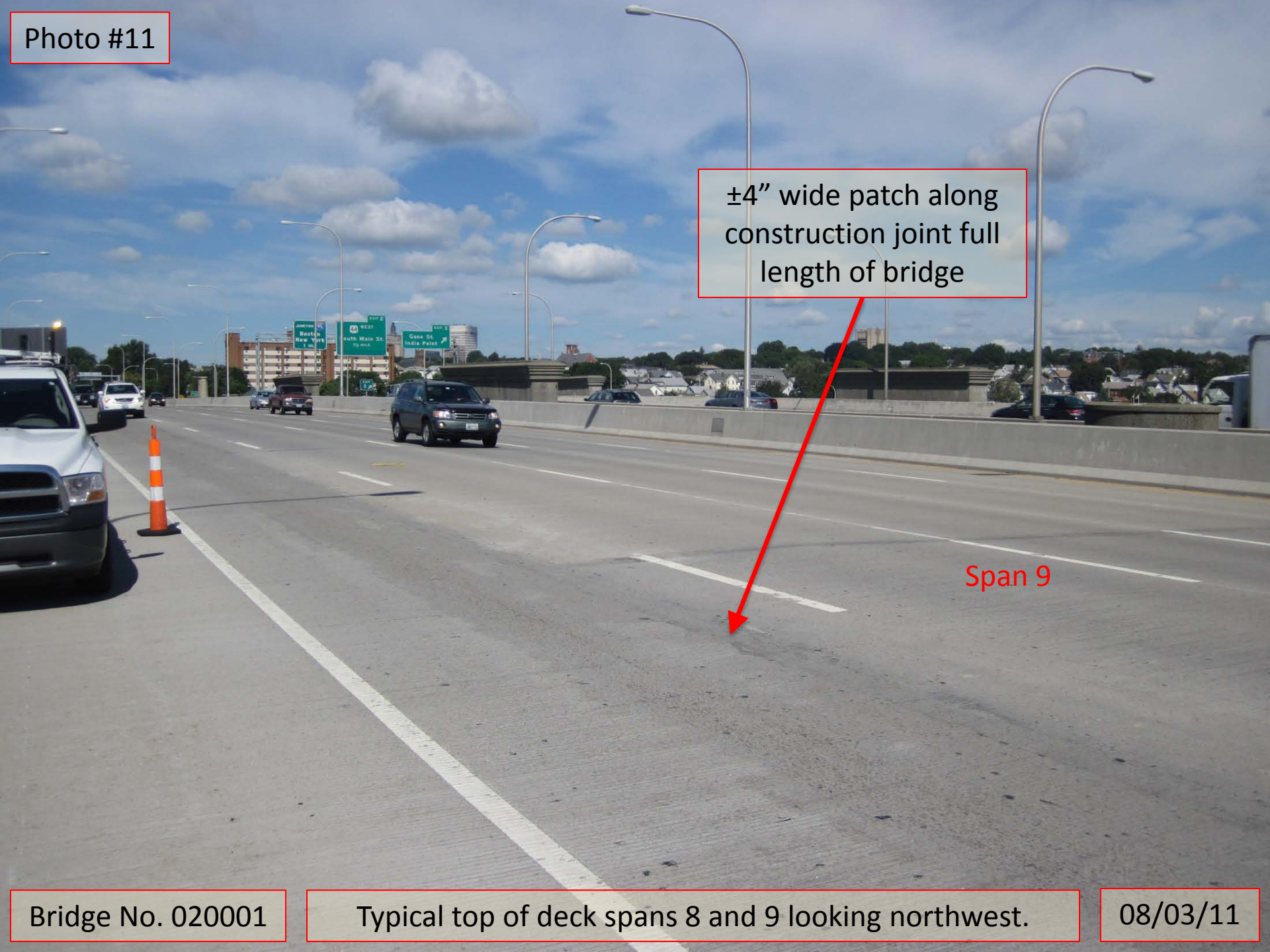

Photo #7
Deck joint over west abutment
Light sand debris in the shoulder.
Bridge No. 020001
West approach from bridge.
08/03/11


Photo #8
Deck joint over east abutment
Bridge No. 020001
East approach from bridge.
08/03/11


Photo #9
Deck joint over east abutment
End of west approach slab for Bridge 046201
Bridge No. 020001
Bridge from east approach.
08/03/11


Photo #10
Small chips and scrapes
Sand and debris in shoulder
Scupper grate partially clogged with debris and vegetation growth
Span 3
Bridge No. 020001
Typical top of deck spans 3-5 looking northeast.
08/03/11


Photo #11
±4” wide patch along construction joint full length of bridge
Span 9
Bridge No. 020001
Typical top of deck spans 8 and 9 looking northwest.
08/03/11

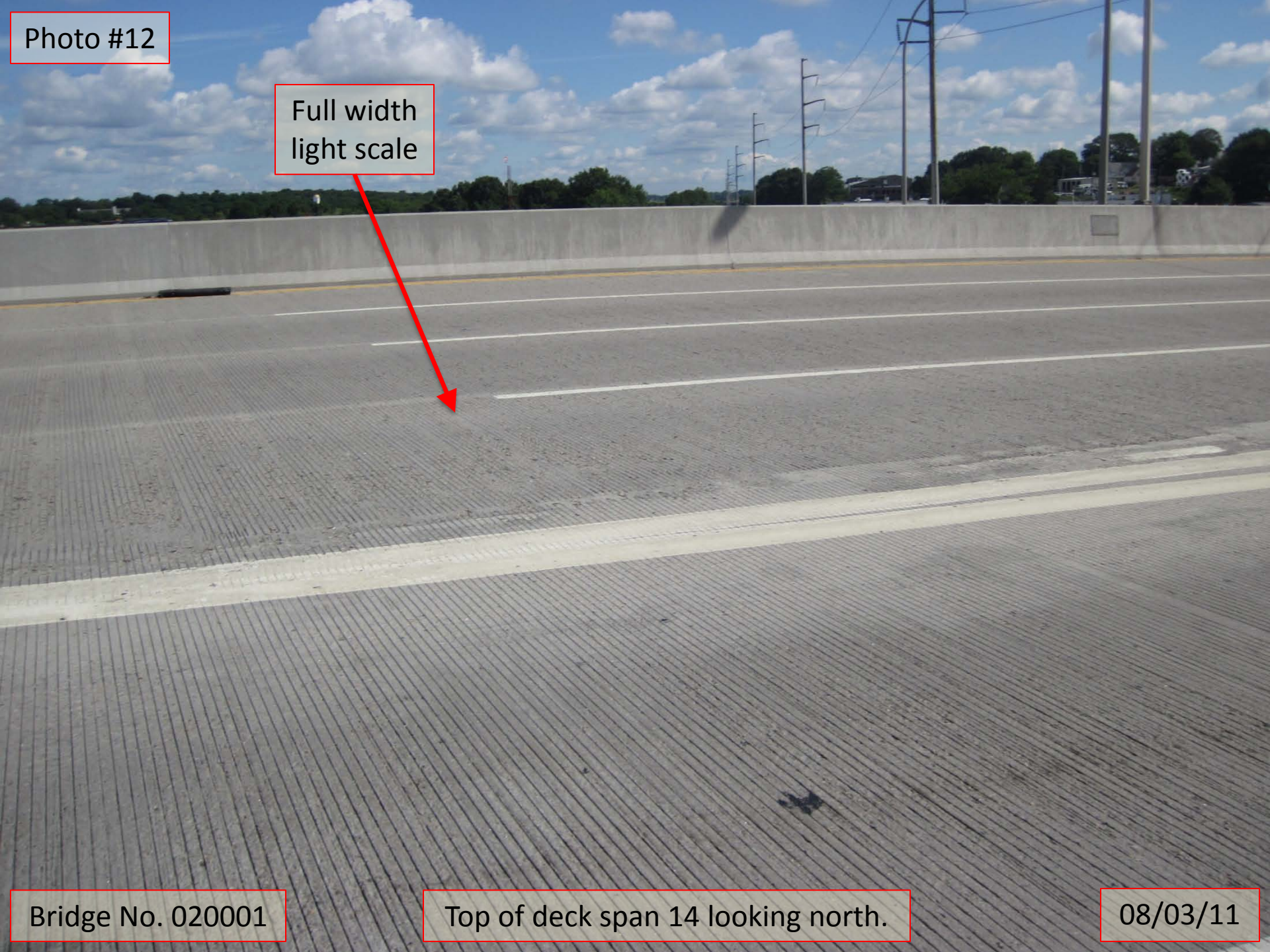
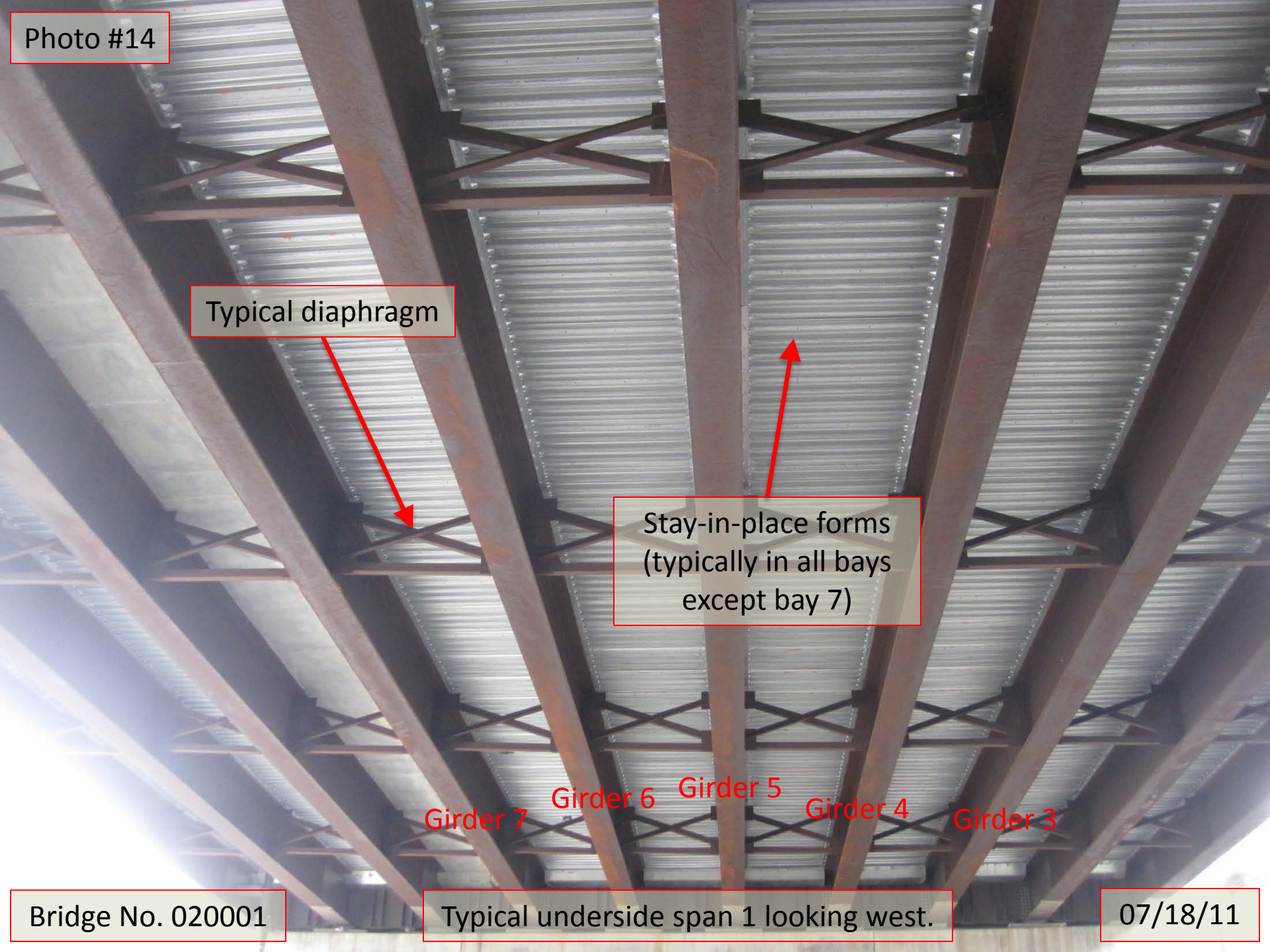

Photo #12
Full width light scale
Bridge No. 020001
Top of deck span 14 looking north.
08/03/11


Photo #13
Scupper 100% clogged with vegetation and debris
Bridge No. 020001
Pier 11 scupper at south side of bridge.
08/03/11


Photo #14
Typical diaphragm
Stay-in-place forms (typically in all bays except bay 7)
Girder 7
Girder 6
Girder 5
Girder 4
Girder 3
Bridge No. 020001
Typical underside span 1 looking west.
07/18/11

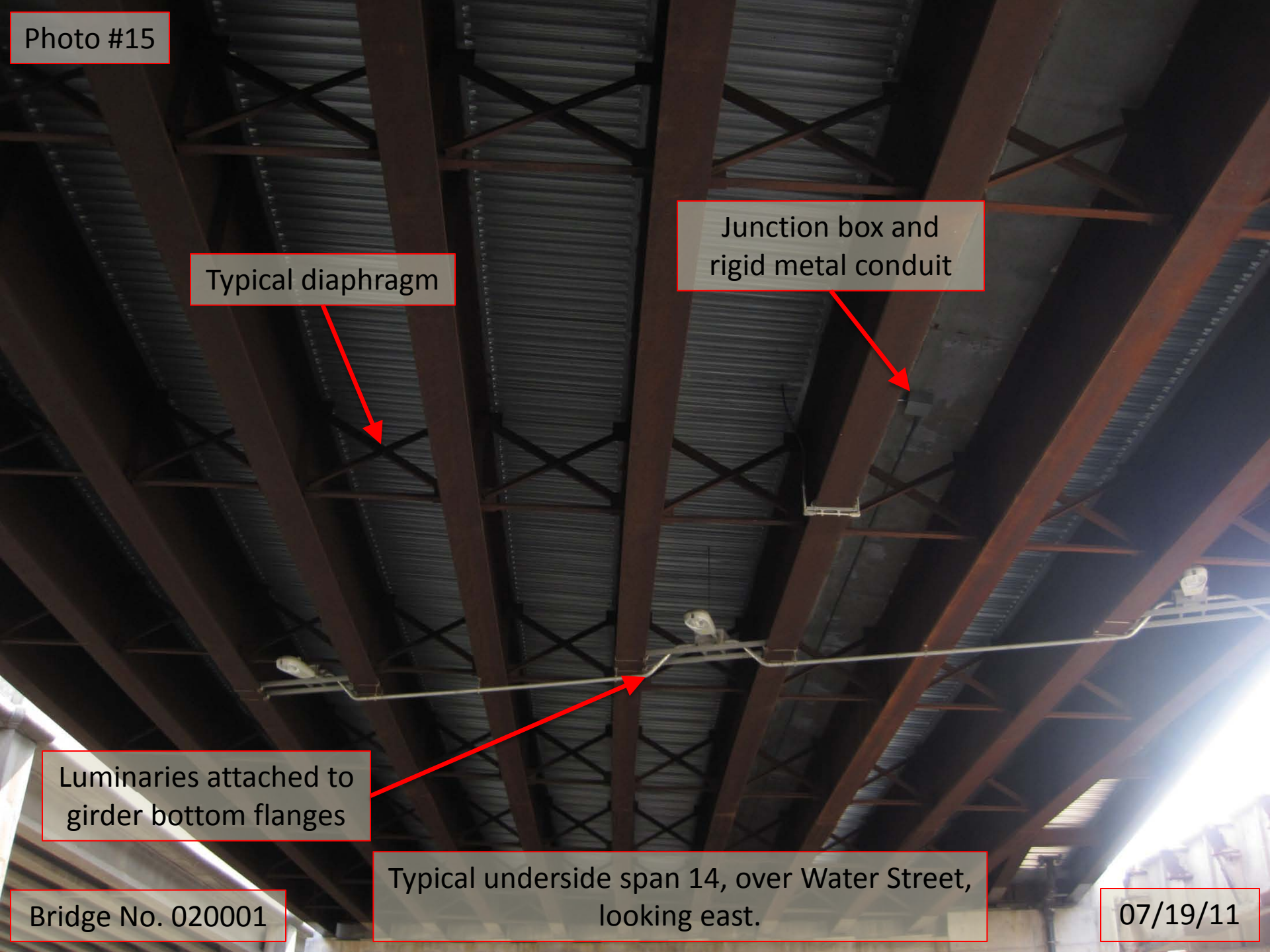
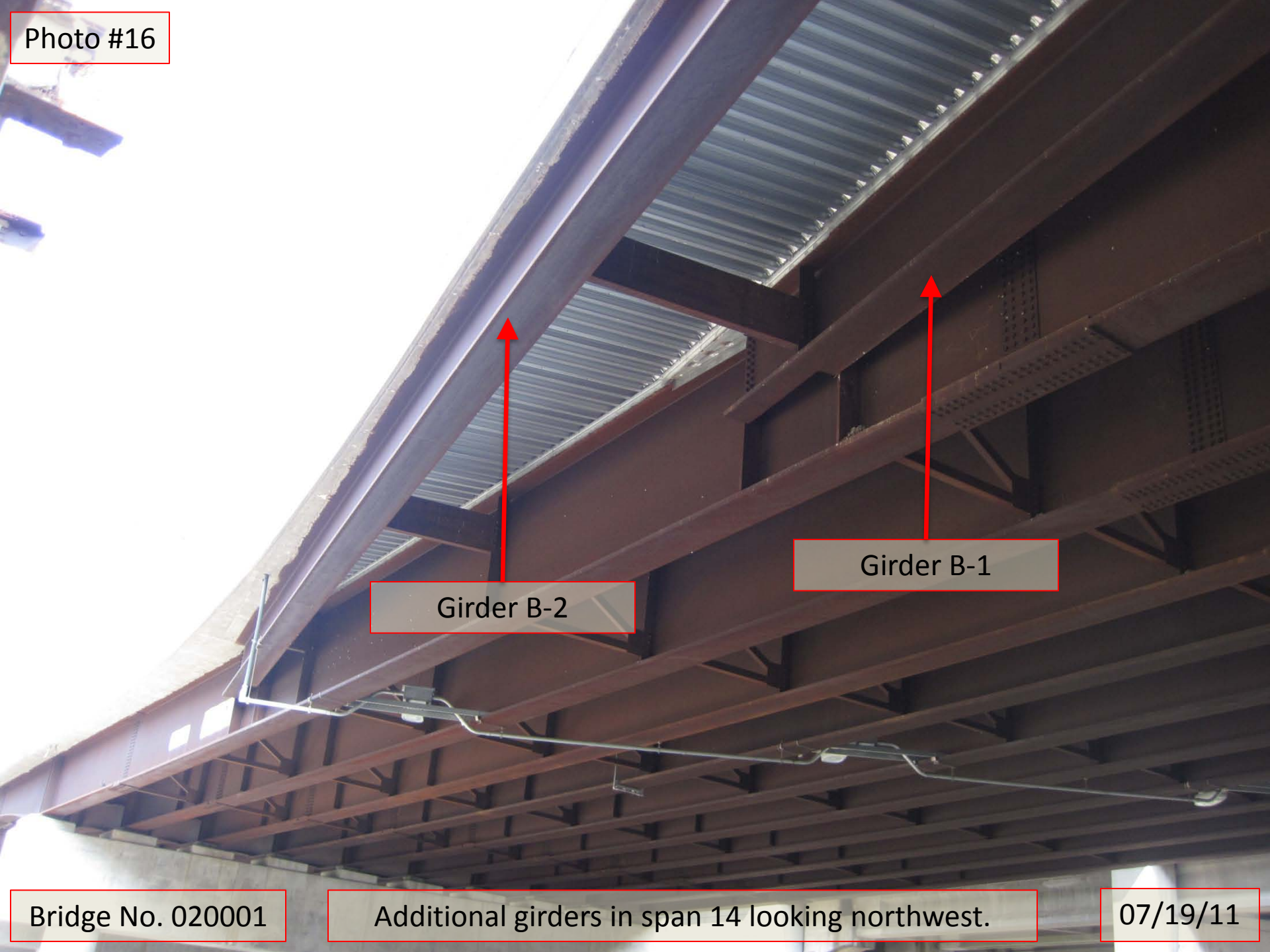

Photo #15
Typical diaphragm
Junction box and rigid metal conduit
Luminaries attached to girder bottom flanges
Typical underside span 14, over Water Street, looking east.
Bridge No. 020001
07/19/11

Photo #16



Bridge No. 020001

Additional girders in span 14 looking northwest.

07/19/11

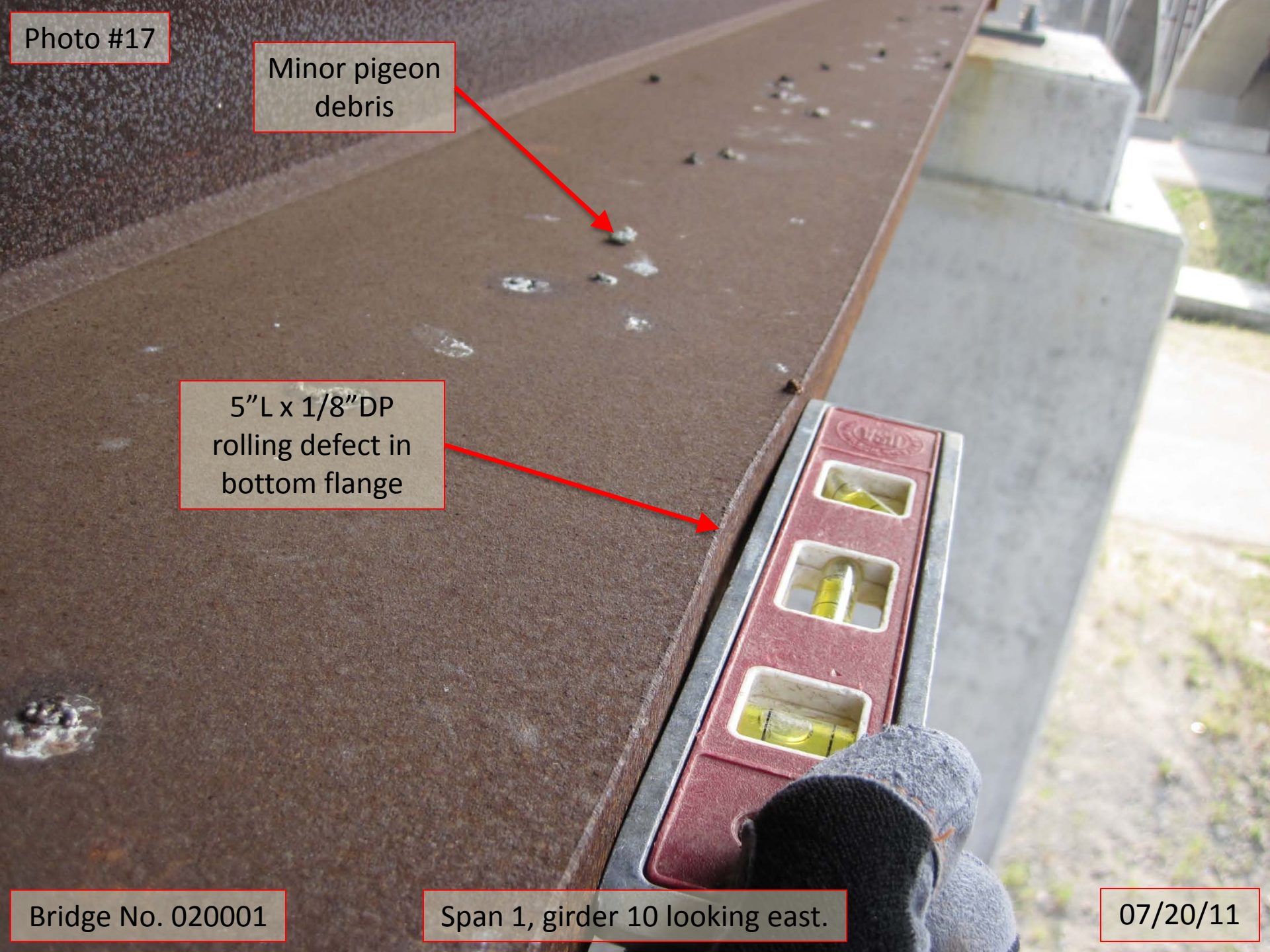
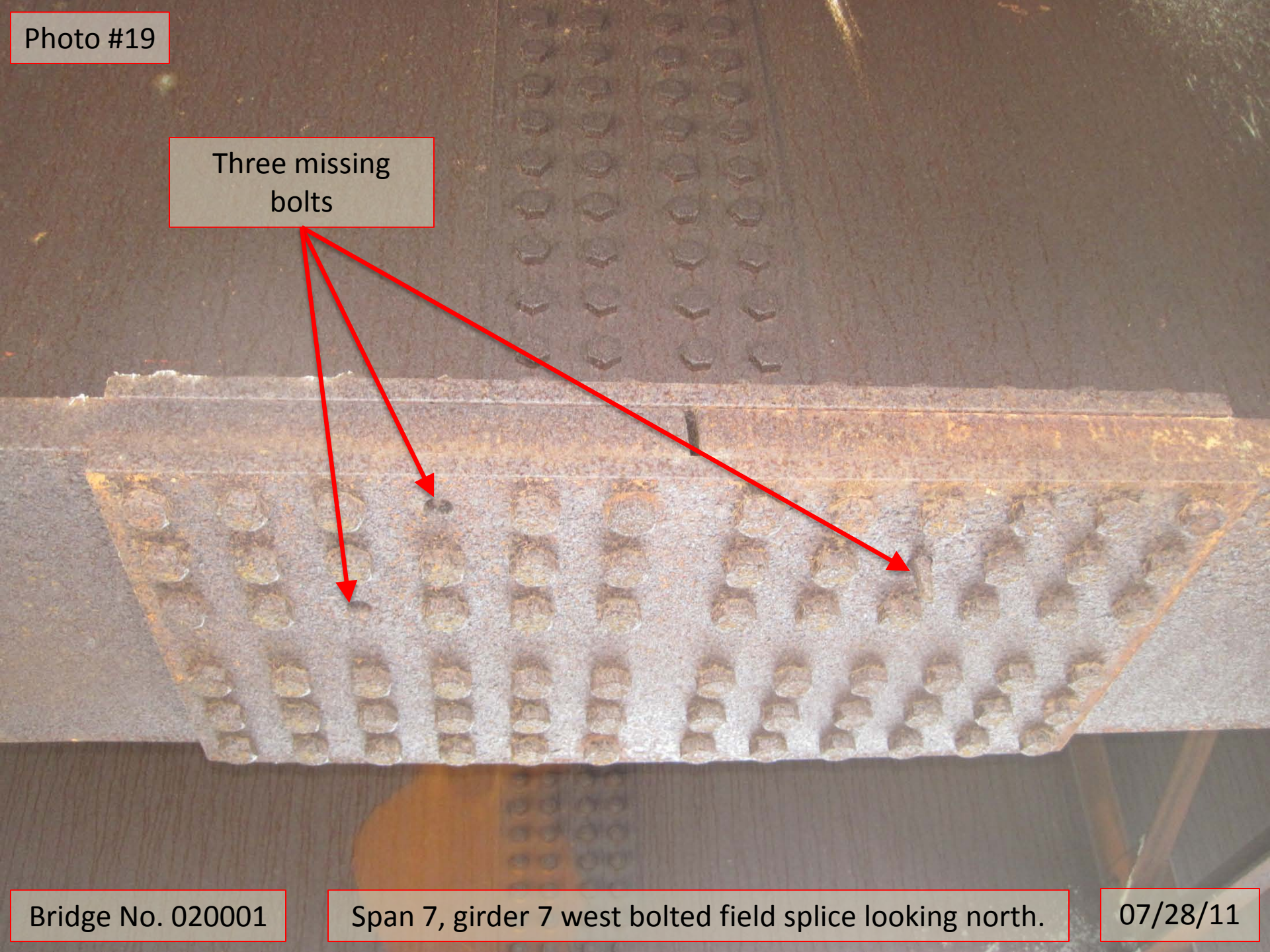

Photo #17
Minor pigeon debris
5”L x 1/8”DP rolling defect in bottom flange
Bridge No. 020001
Span 1, girder 10 looking east.
07/20/11


Photo #18
Light surface rust
Areas of concrete on bottom flange
Bridge No. 020001
Span 3, girder 1 looking west.
07/18/11


Photo #19
Three missing bolts
Bridge No. 020001
Span 7, girder 7 west bolted field splice looking north.
07/28/11

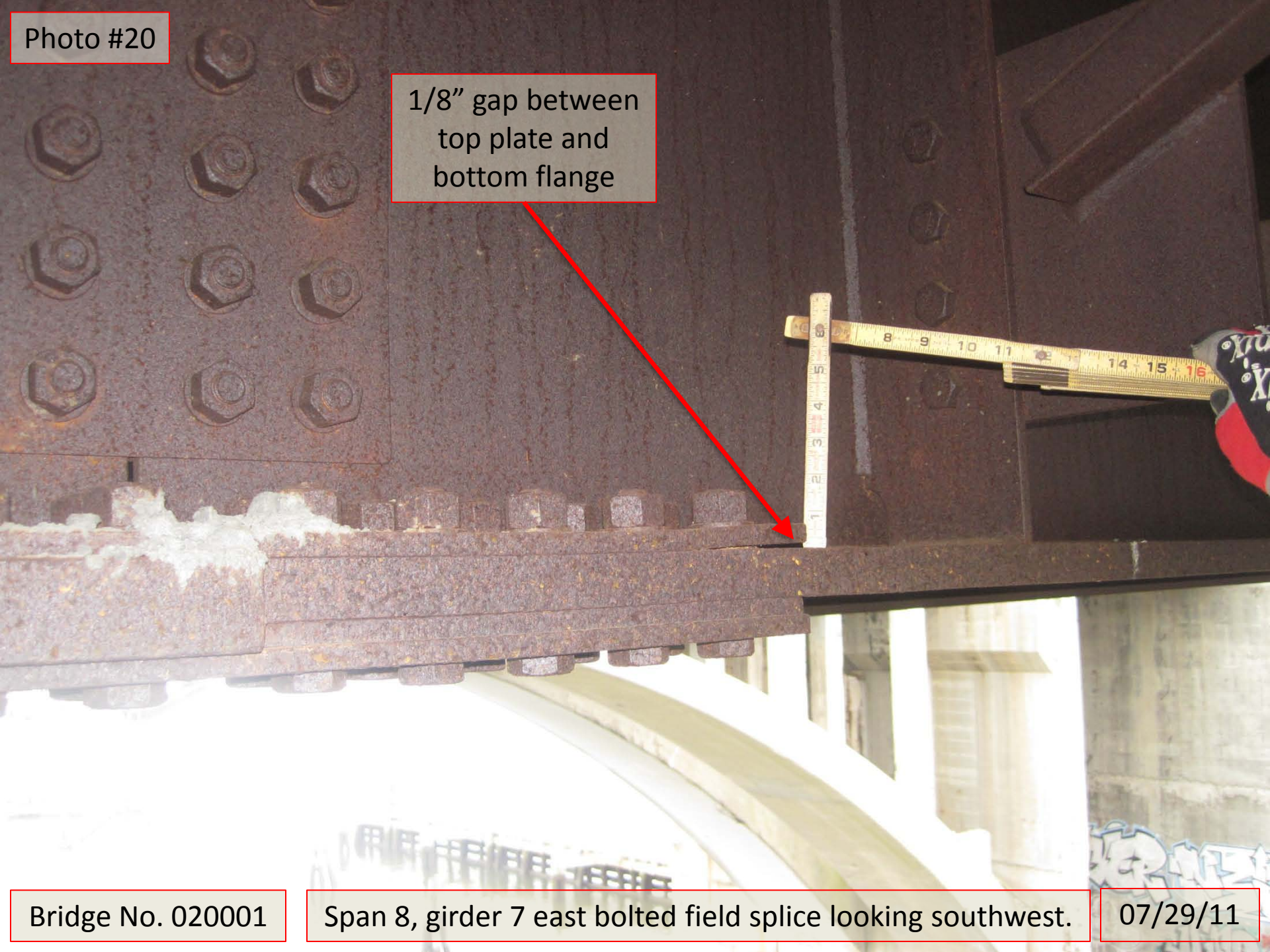
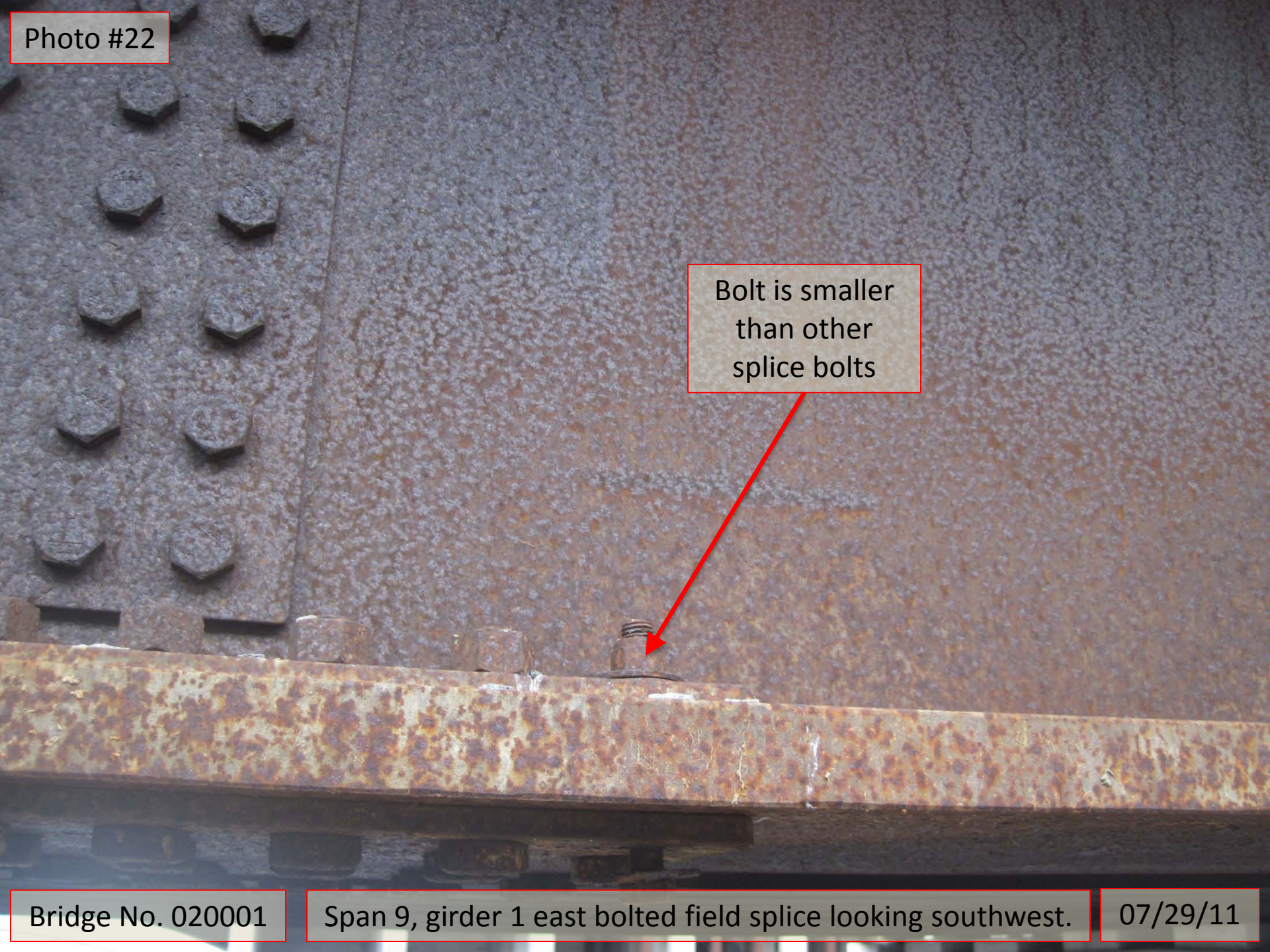
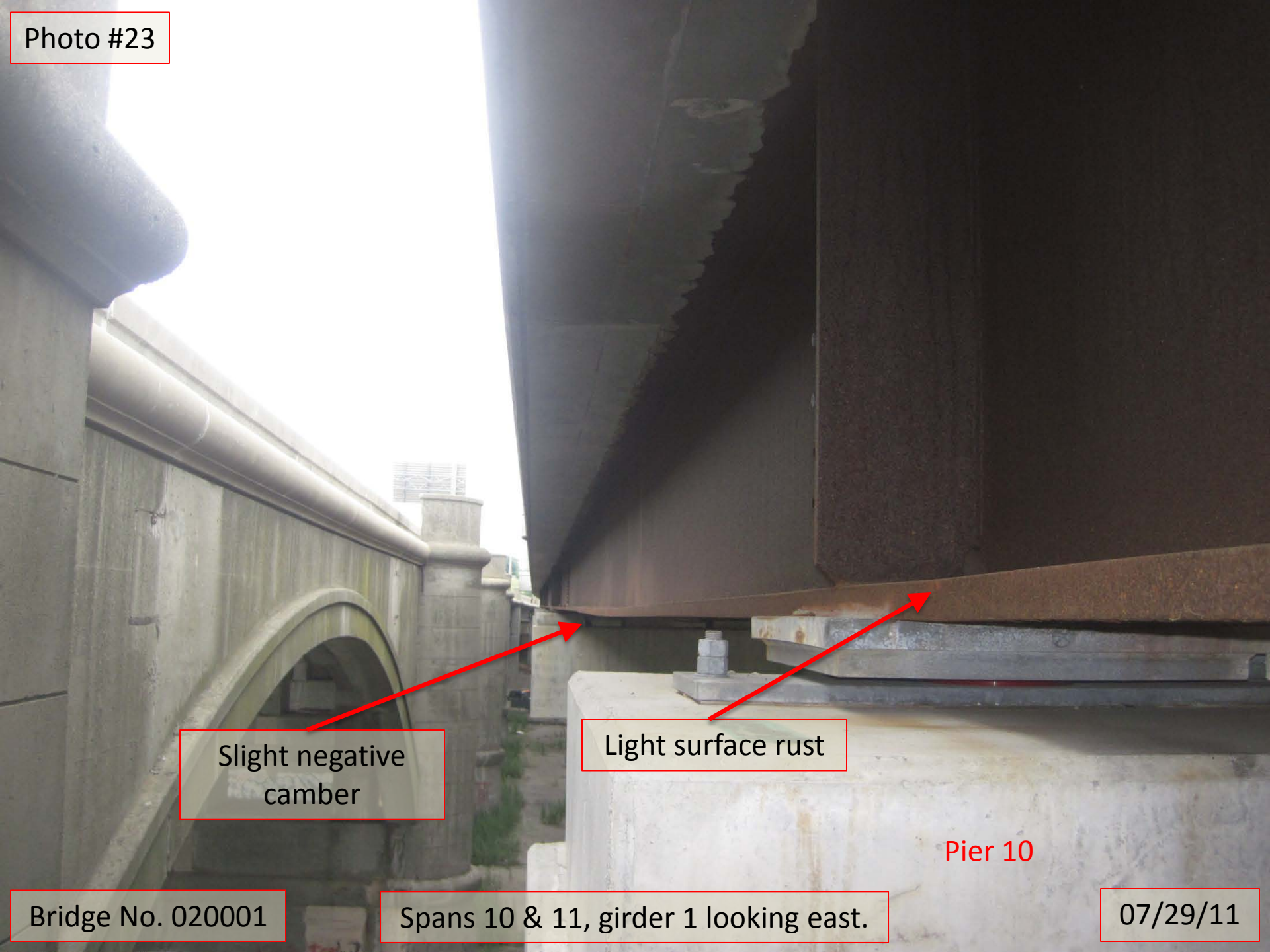
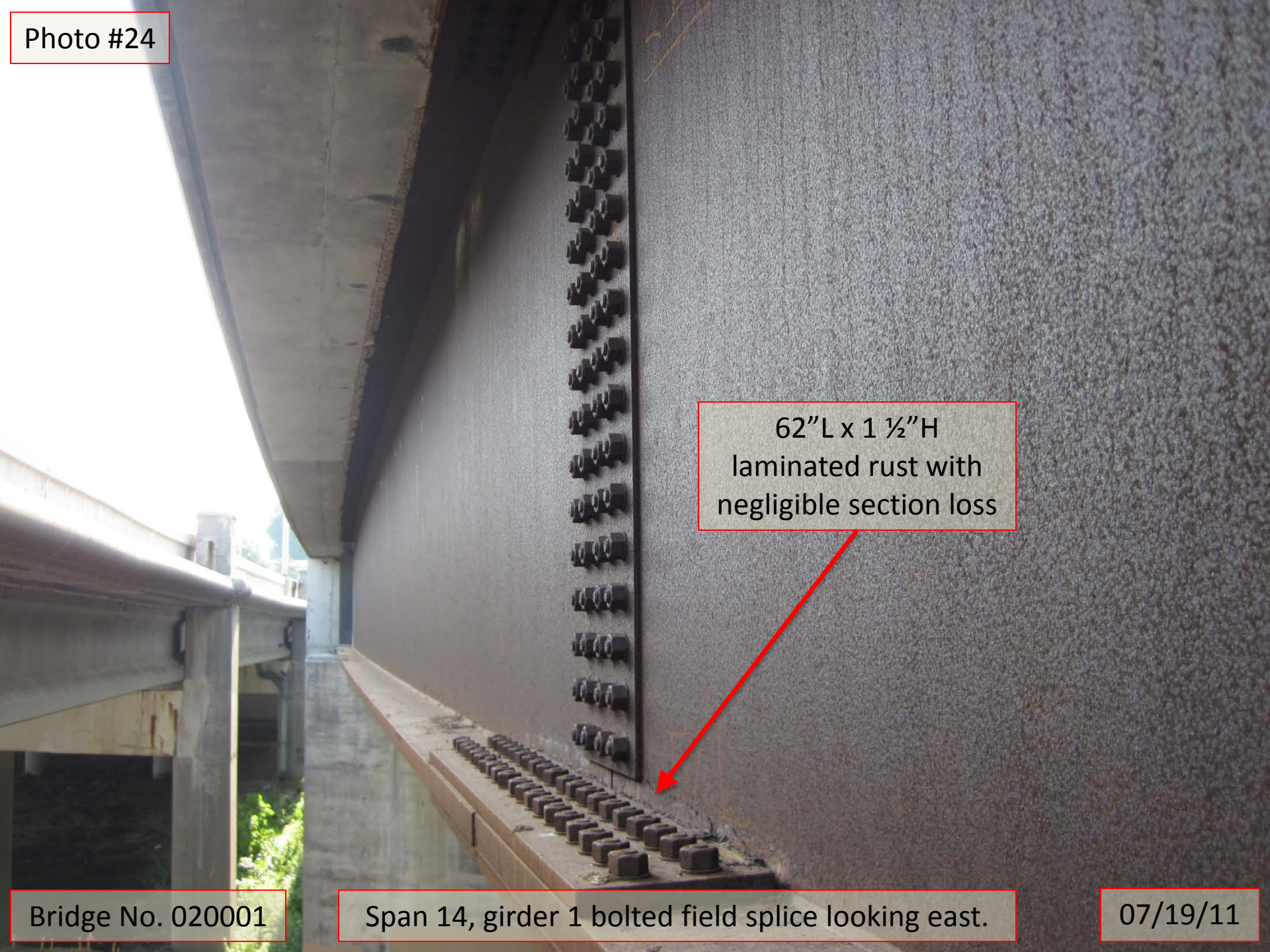
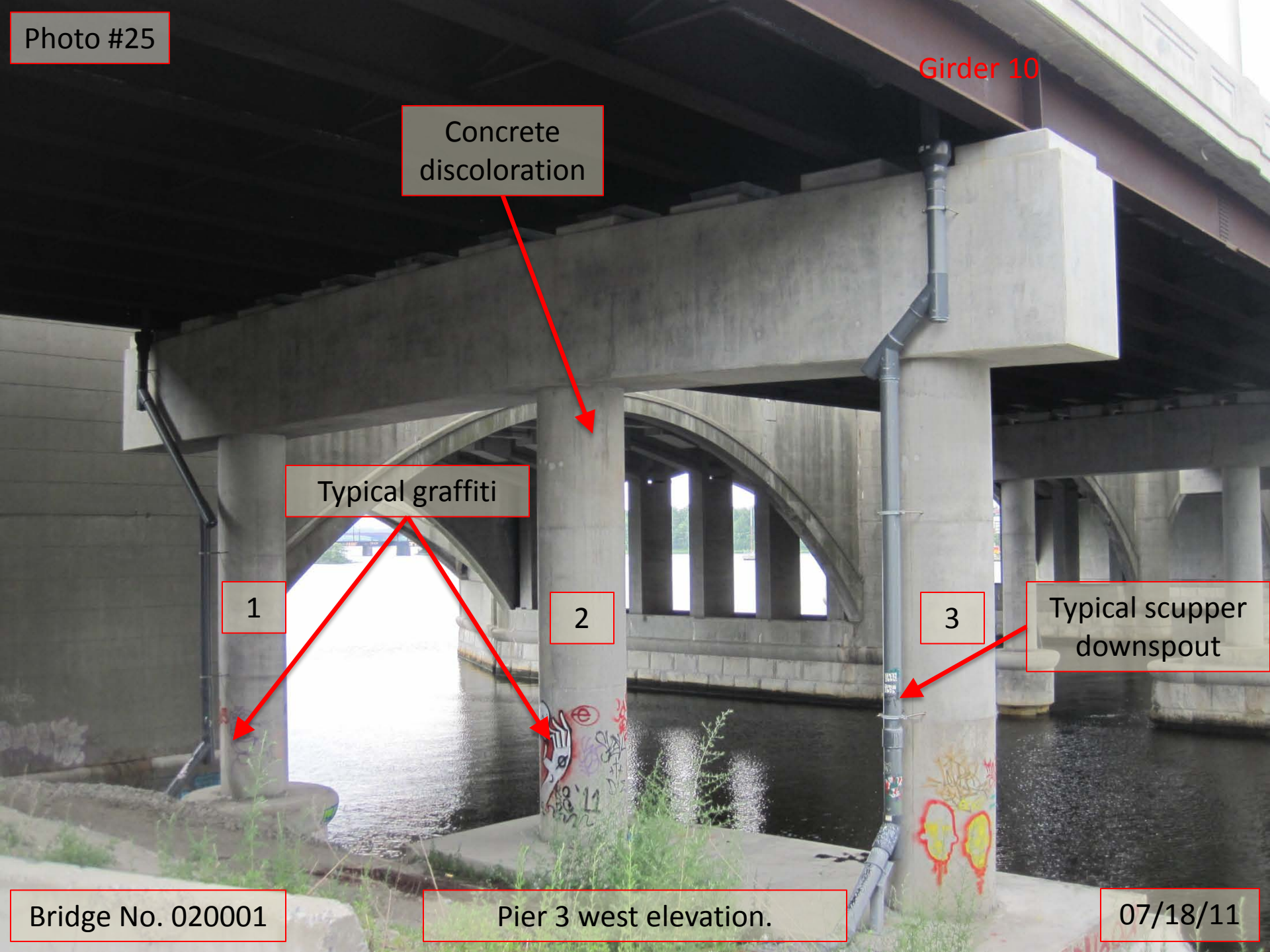

Photo #20
1/8” gap between top plate and bottom flange
Bridge No. 020001
Span 8, girder 7 east bolted field splice looking southwest.
07/29/11

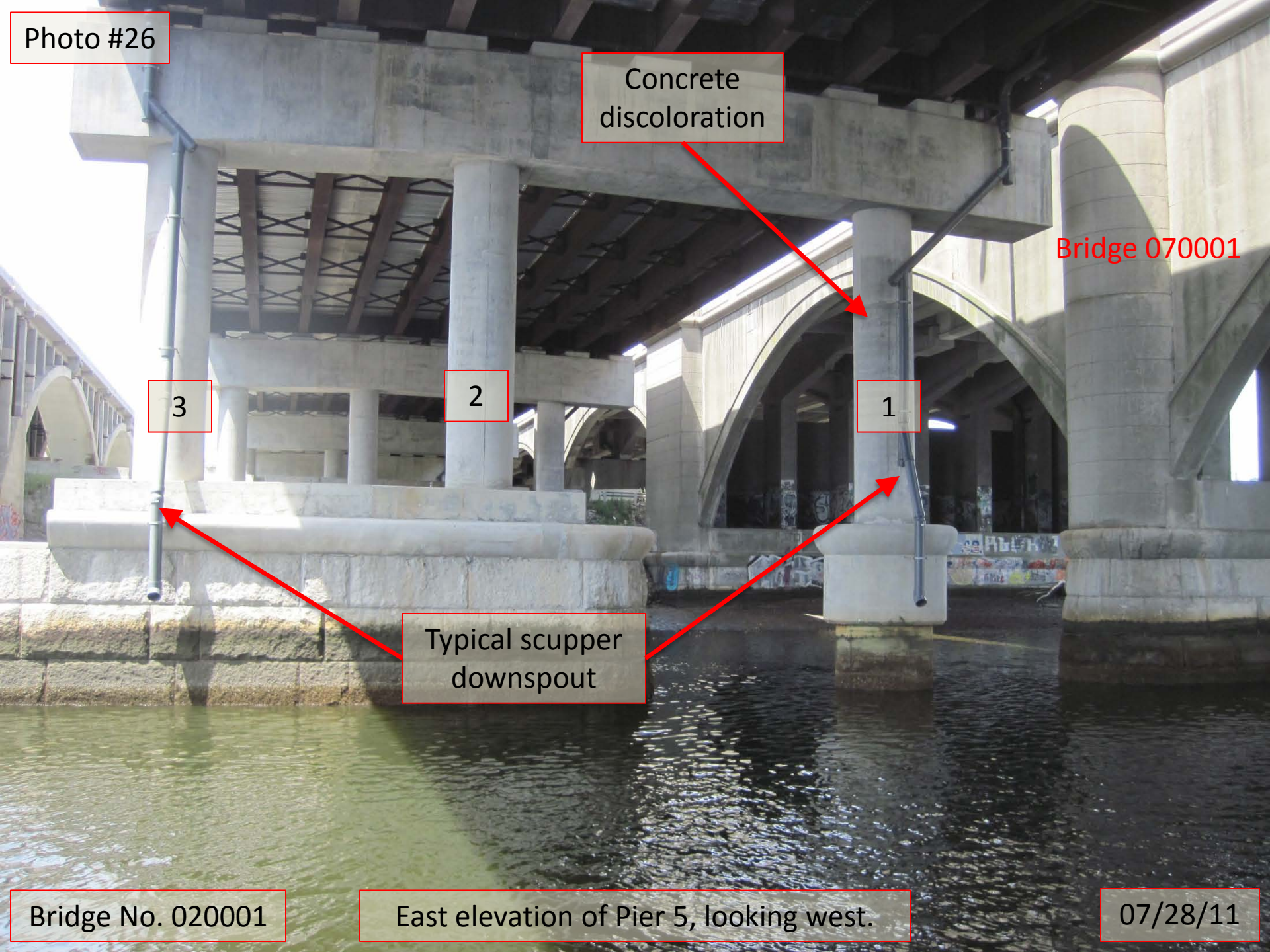

Photo #21
Exposed concrete typical in bay 7
Light laminated rust on bottom flange
Bridge No. 020001
Span 8, girder 8 bottom flange looking east.
07/29/11

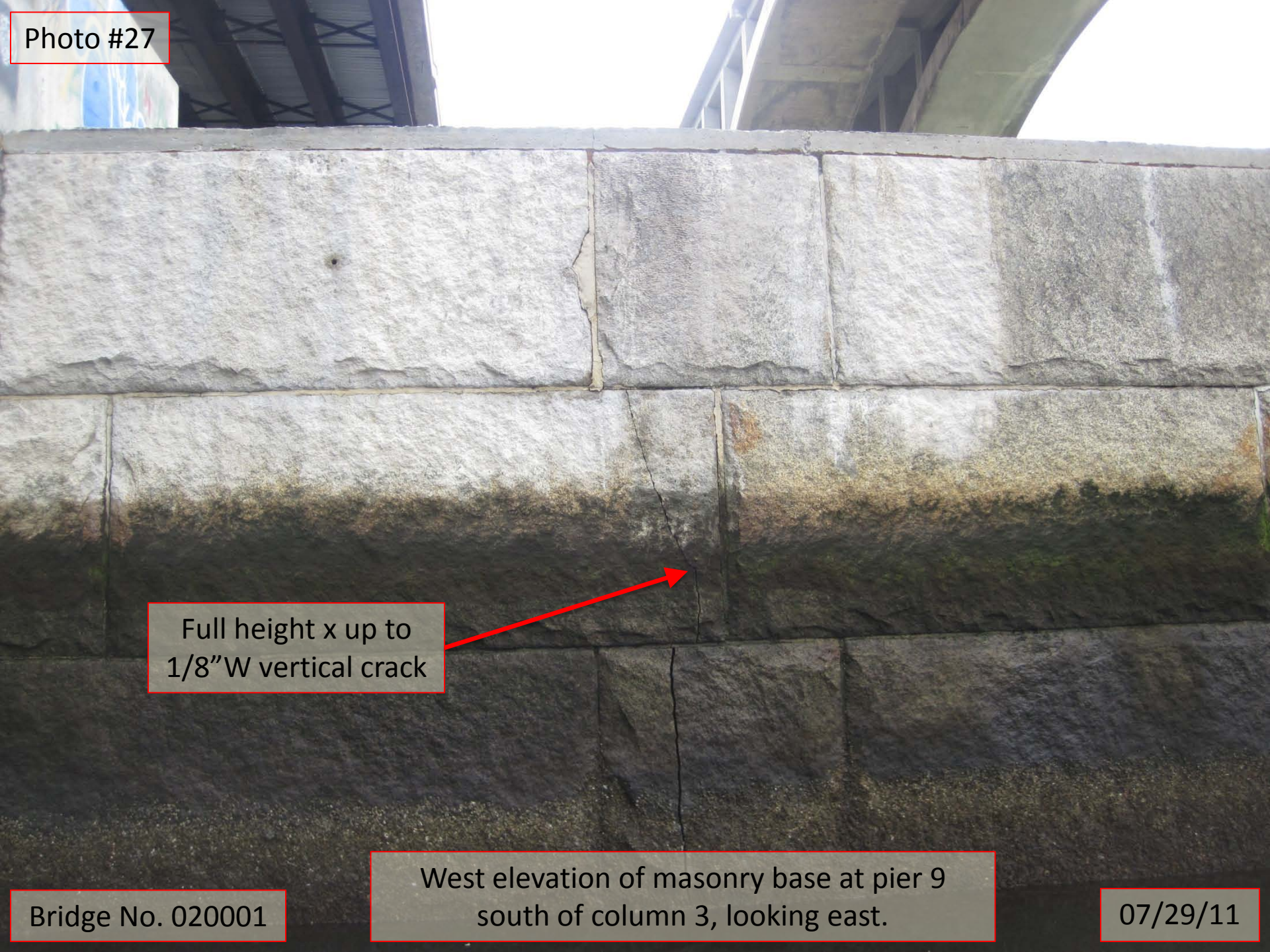

Photo #22
Bolt is smaller than other splice bolts
Bridge No. 020001
Span 9, girder 1 east bolted field splice looking southwest.
07/29/11

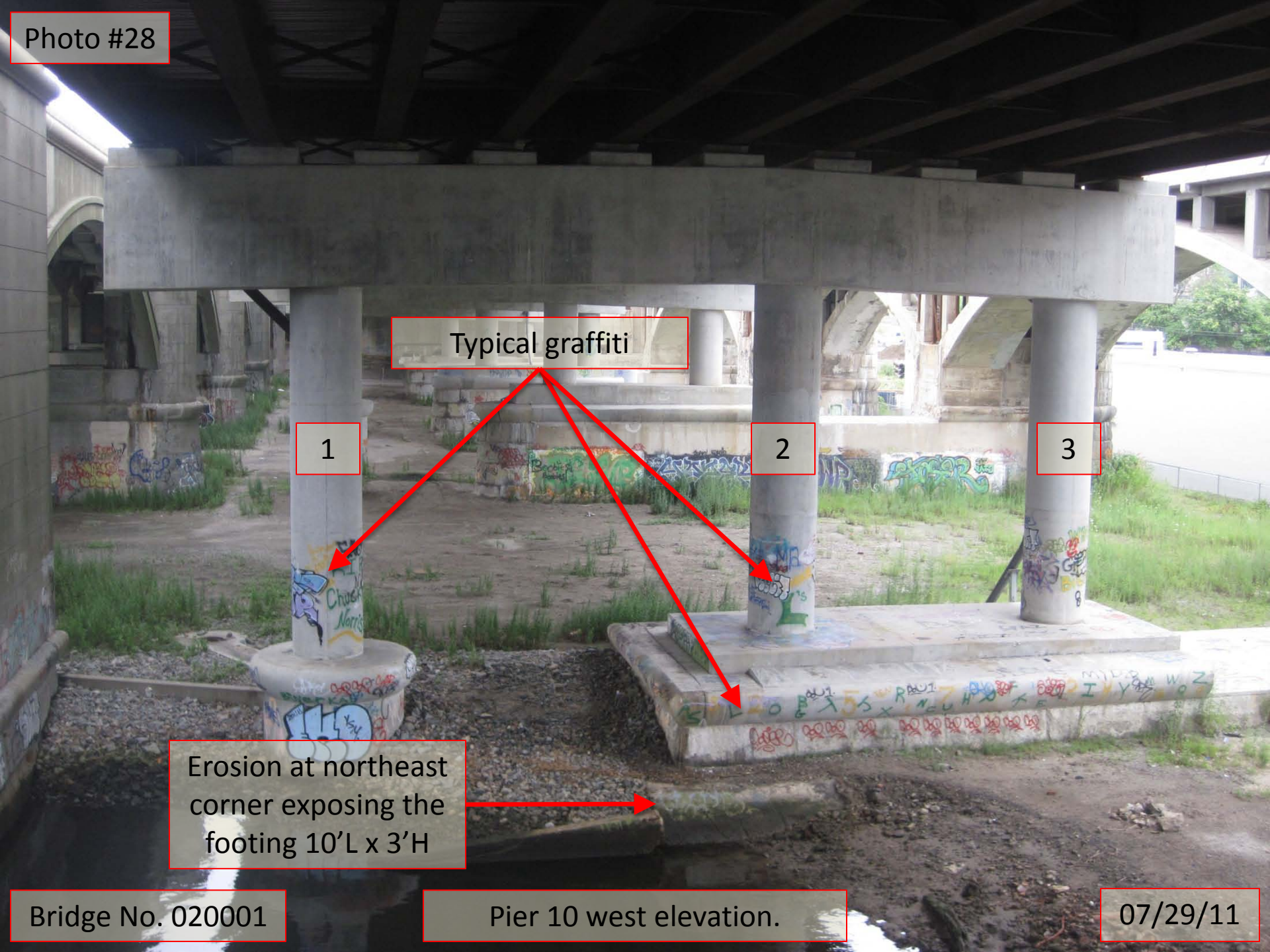

Photo #23
Slight negative camber
Light surface rust
Pier 10
Bridge No. 020001
Spans 10 & 11, girder 1 looking east.
07/29/11


Photo #24
62”L x 1 ½”H laminated rust with negligible section loss
Bridge No. 020001
Span 14, girder 1 bolted field splice looking east.
07/19/11


Photo #25
Girder 10
Concrete discoloration
Typical graffiti
1
2
3
Typical scupper downspout
Bridge No. 020001
Pier 3 west elevation.
07/18/11


Photo #26
Concrete discoloration
Bridge 070001
3
2
1
Typical scupper downspout
Bridge No. 020001
East elevation of Pier 5, looking west.
07/28/11


Photo #27
Full height x up to 1/8”W vertical crack
West elevation of masonry base at pier 9 south of column 3, looking east.
Bridge No. 020001
07/29/11


Photo #28
Typical graffiti
1
2
3
Erosion at northeast corner exposing the footing 10’L x 3’H
Bridge No. 020001
Pier 10 west elevation.
07/29/11

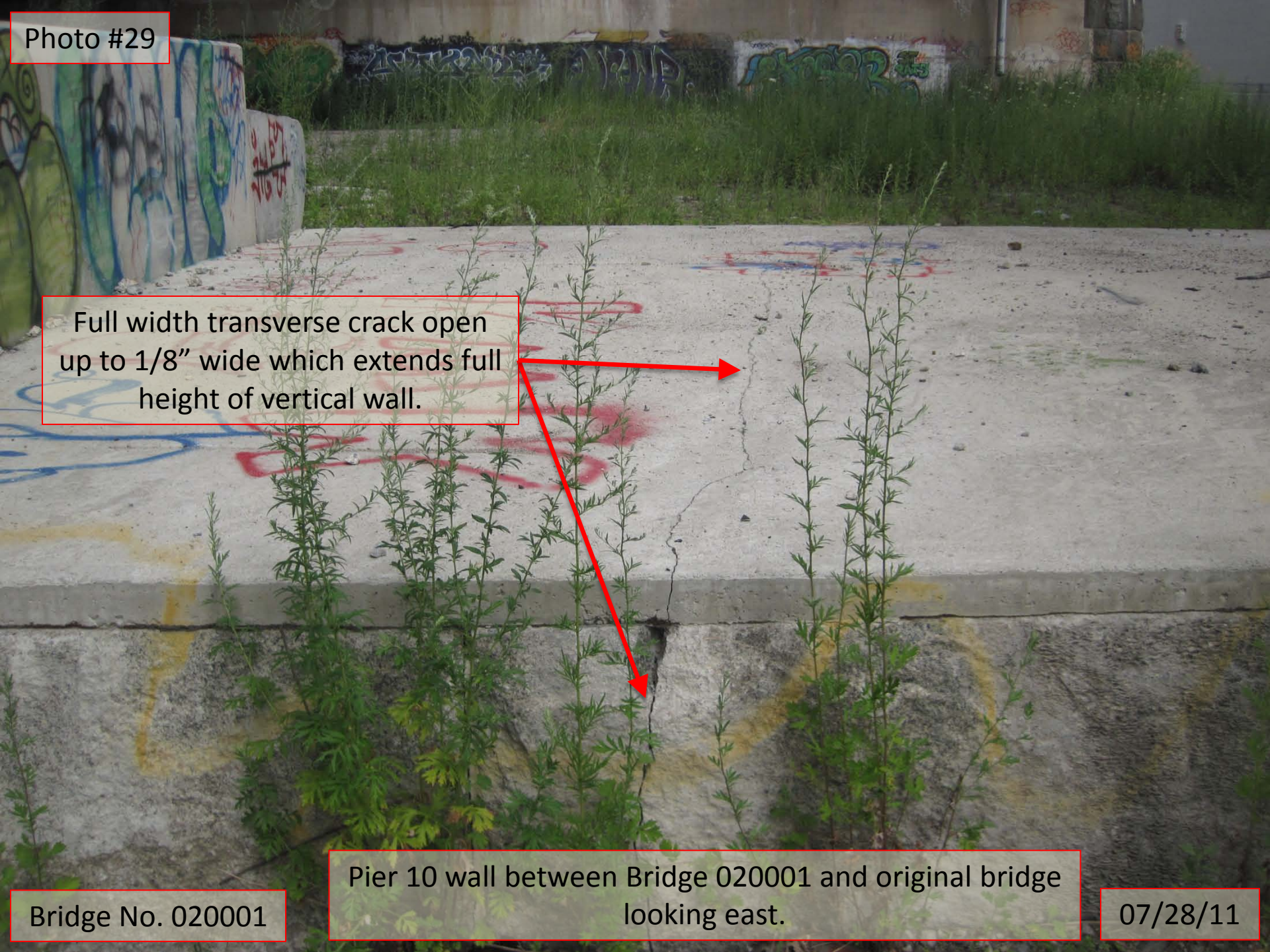
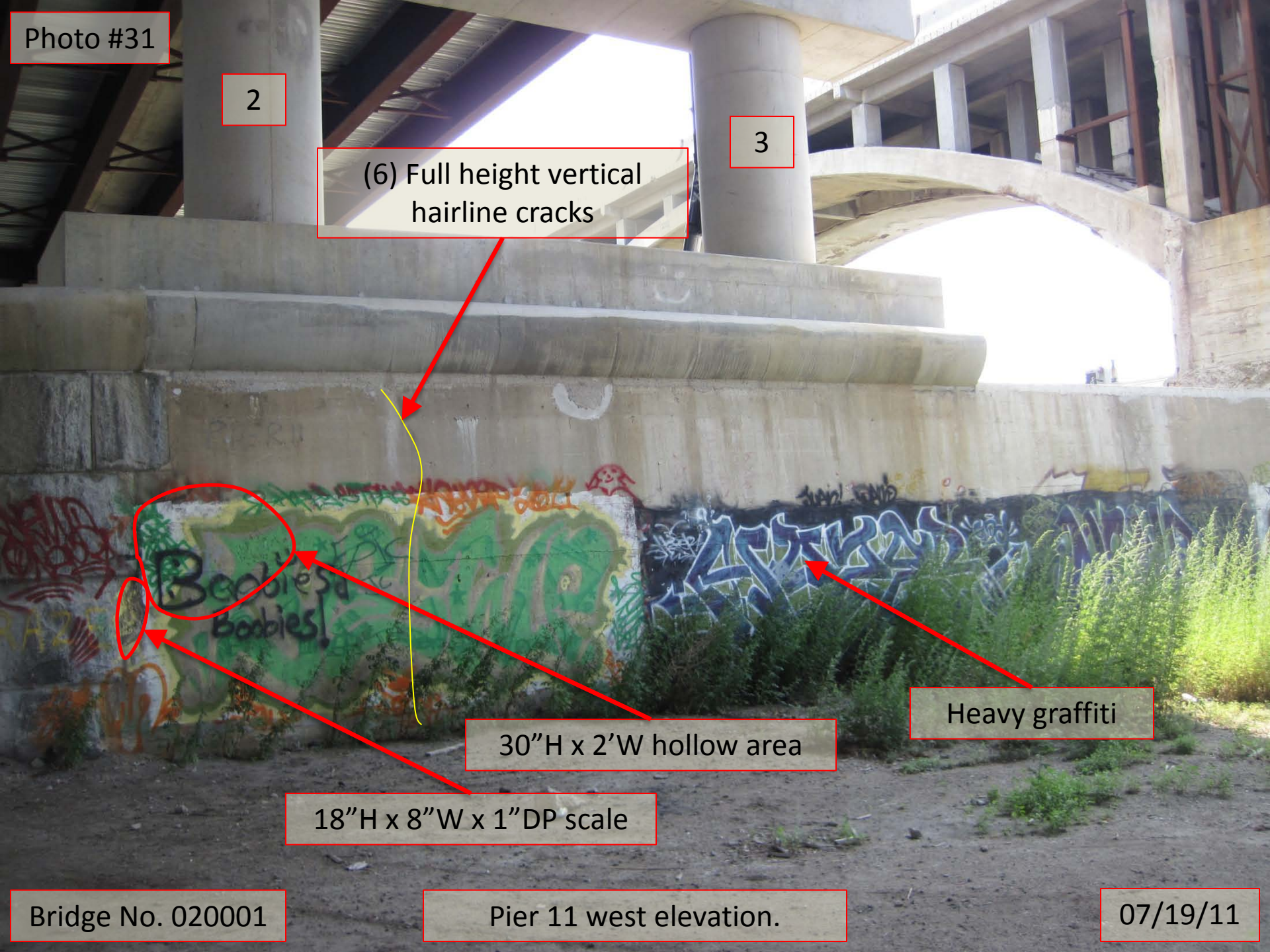
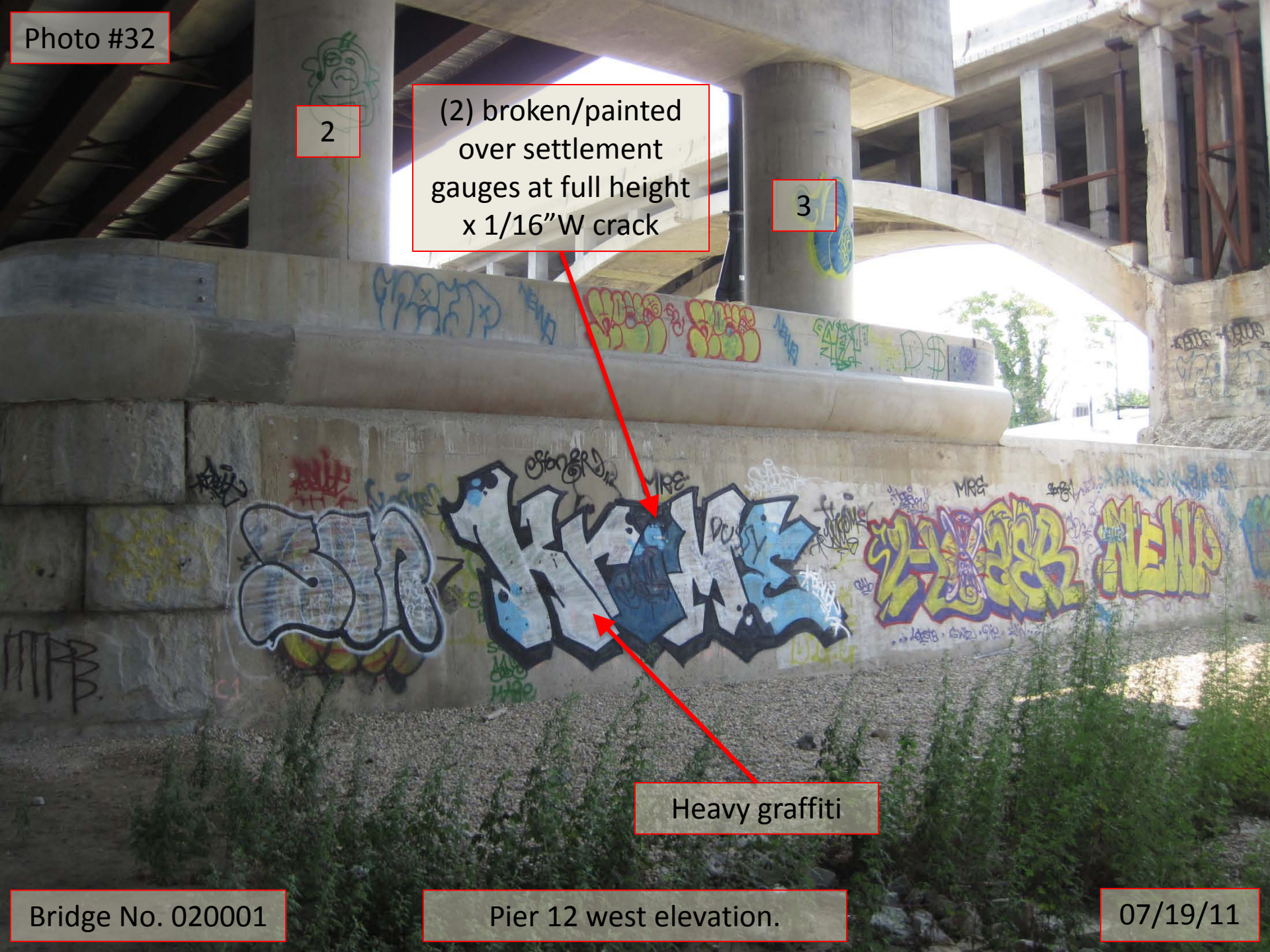
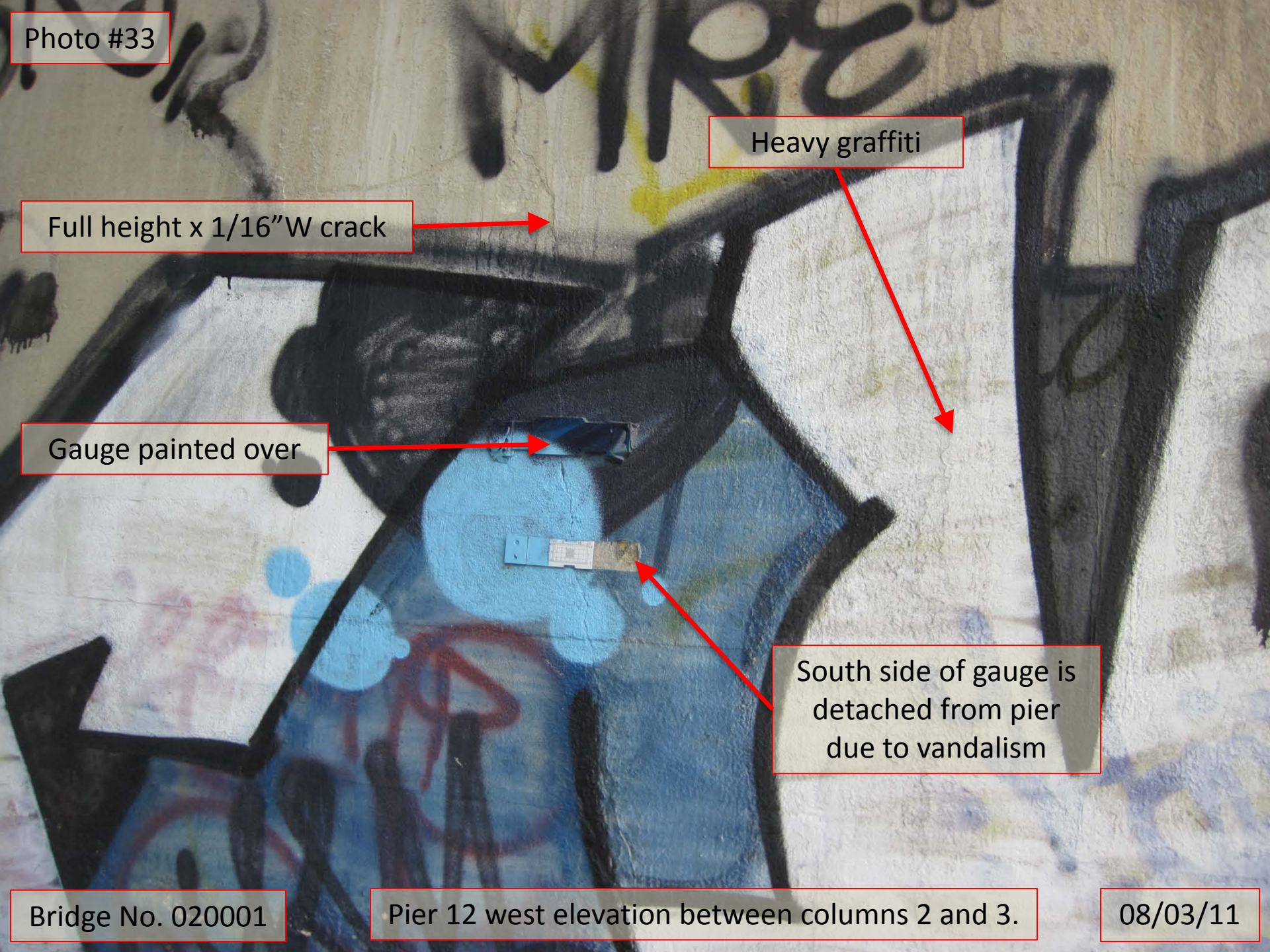

Photo #29
Full width transverse crack open up to 1/8” wide which extends full height of vertical wall.
Pier 10 wall between Bridge 020001 and original bridge looking east.
Bridge No. 020001
07/28/11


Photo #30
Typical graffiti
3’L x 1/8”W crack
Erosion at northeast corner exposing the footing 10’L x 3’H
Bridge No. 020001
Northeast corner of pier wall 10.
07/19/11


Photo #31
2
3
(6) Full height vertical hairline cracks
Heavy graffiti
30”H x 2’W hollow area
18”H x 8”W x 1”DP scale
Bridge No. 020001
Pier 11 west elevation.
07/19/11


Photo #32
2
(2) broken/painted over settlement gauges at full height x 1/16”W crack
3
Heavy graffiti
Bridge No. 020001
Pier 12 west elevation.
07/19/11


Photo #33
Heavy graffiti
Full height x 1/16”W crack
Gauge painted over
South side of gauge is detached from pier due to vandalism
Bridge No. 020001
Pier 12 west elevation between columns 2 and 3.
08/03/11

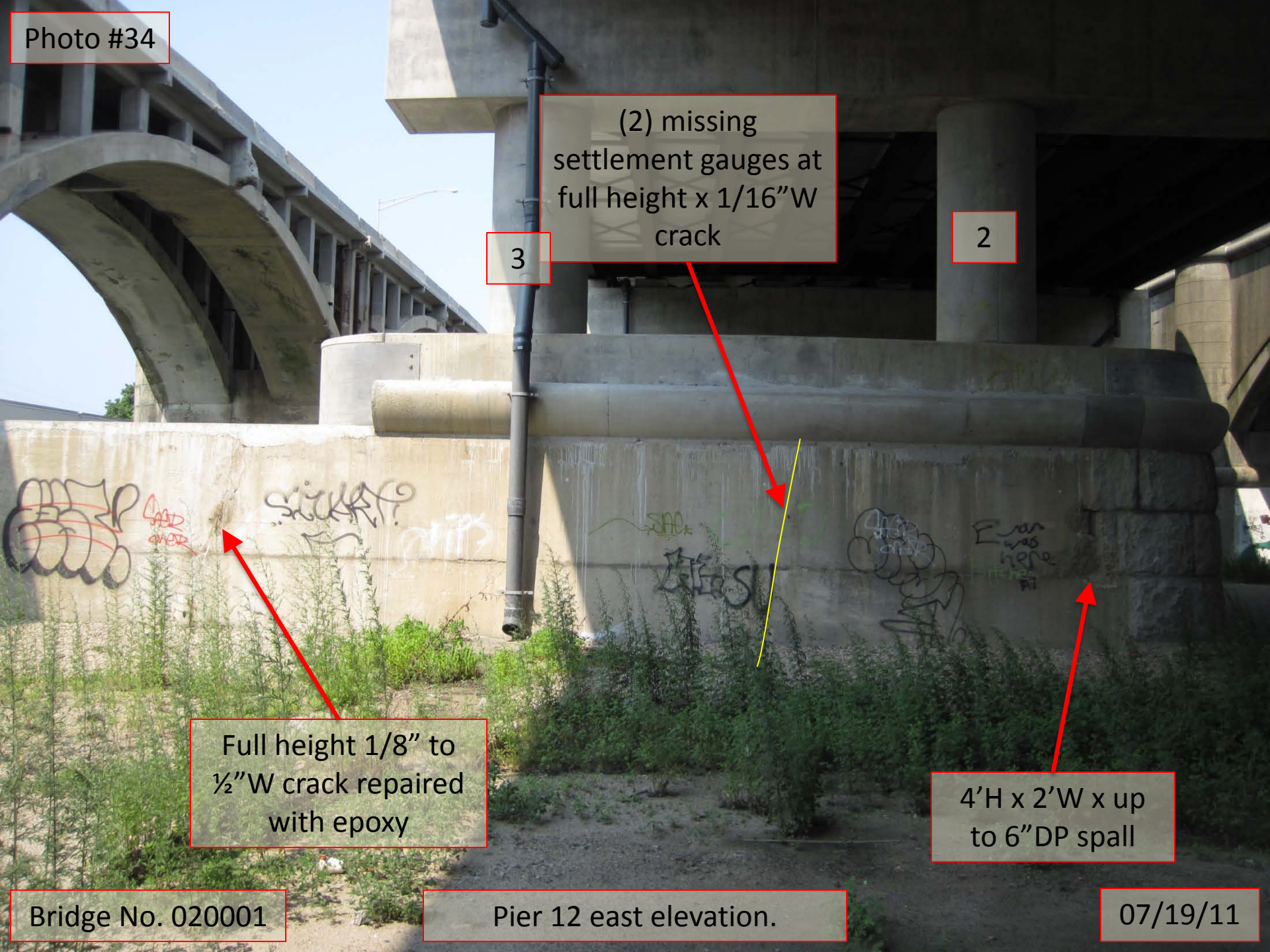
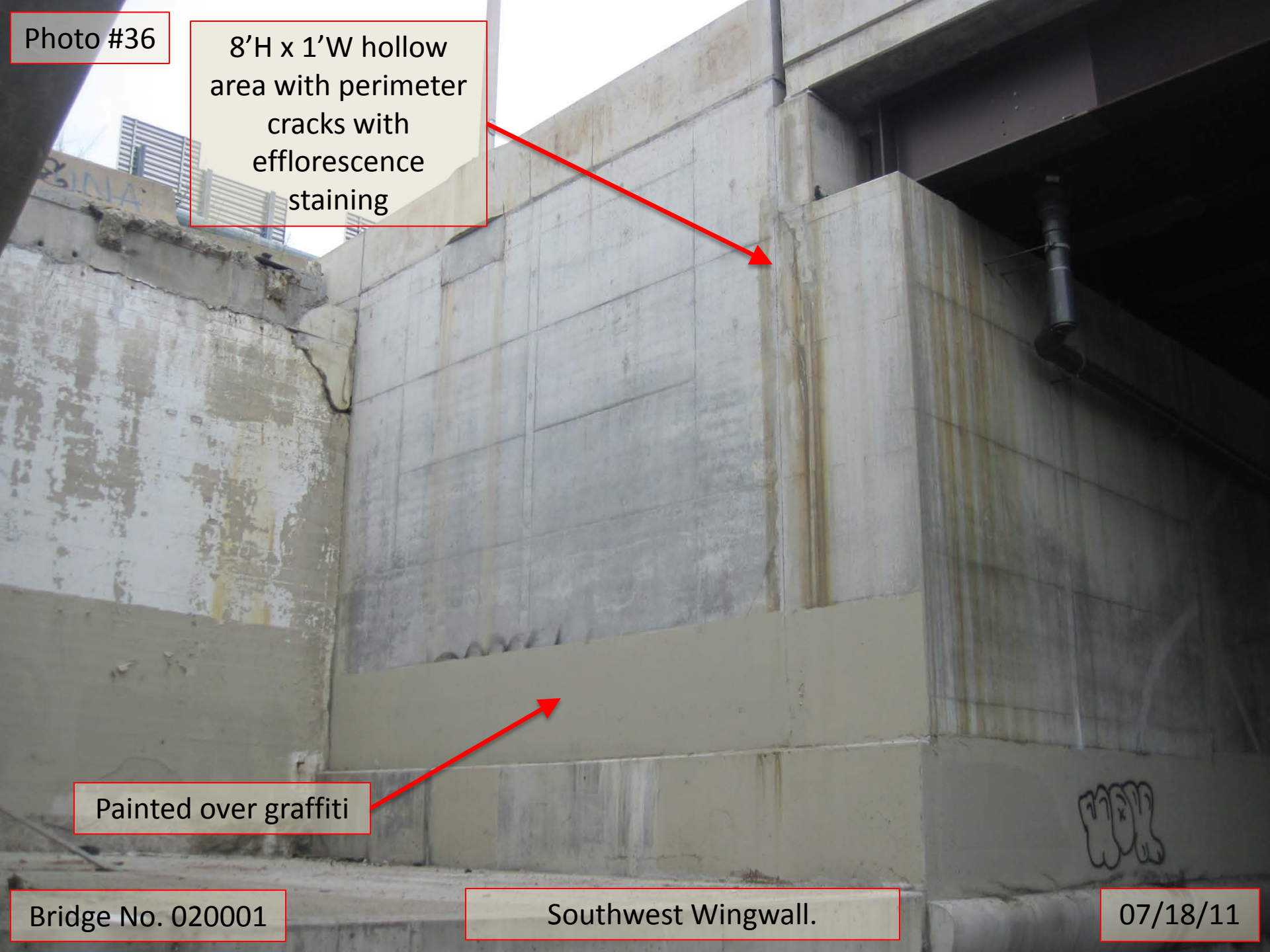
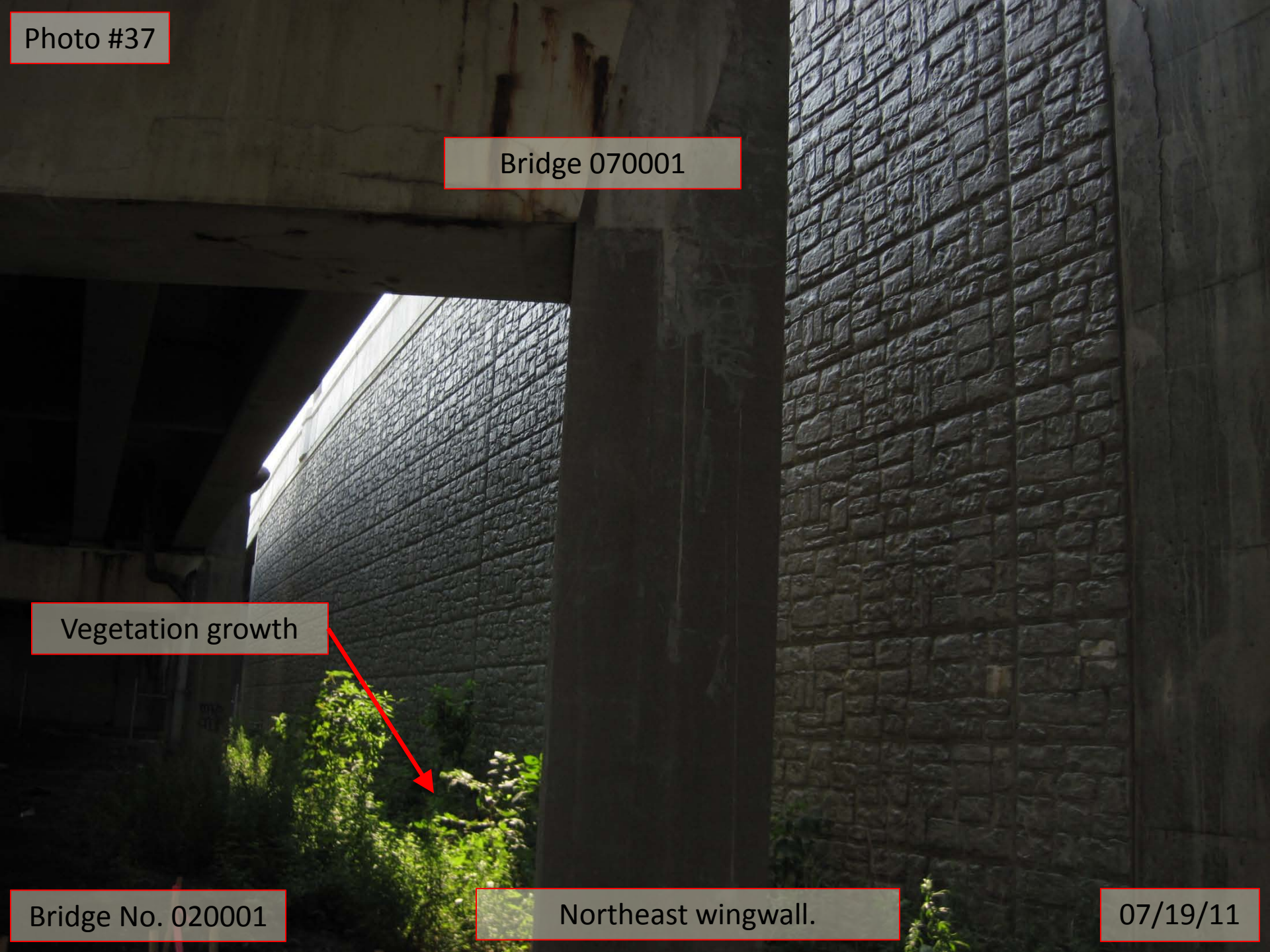
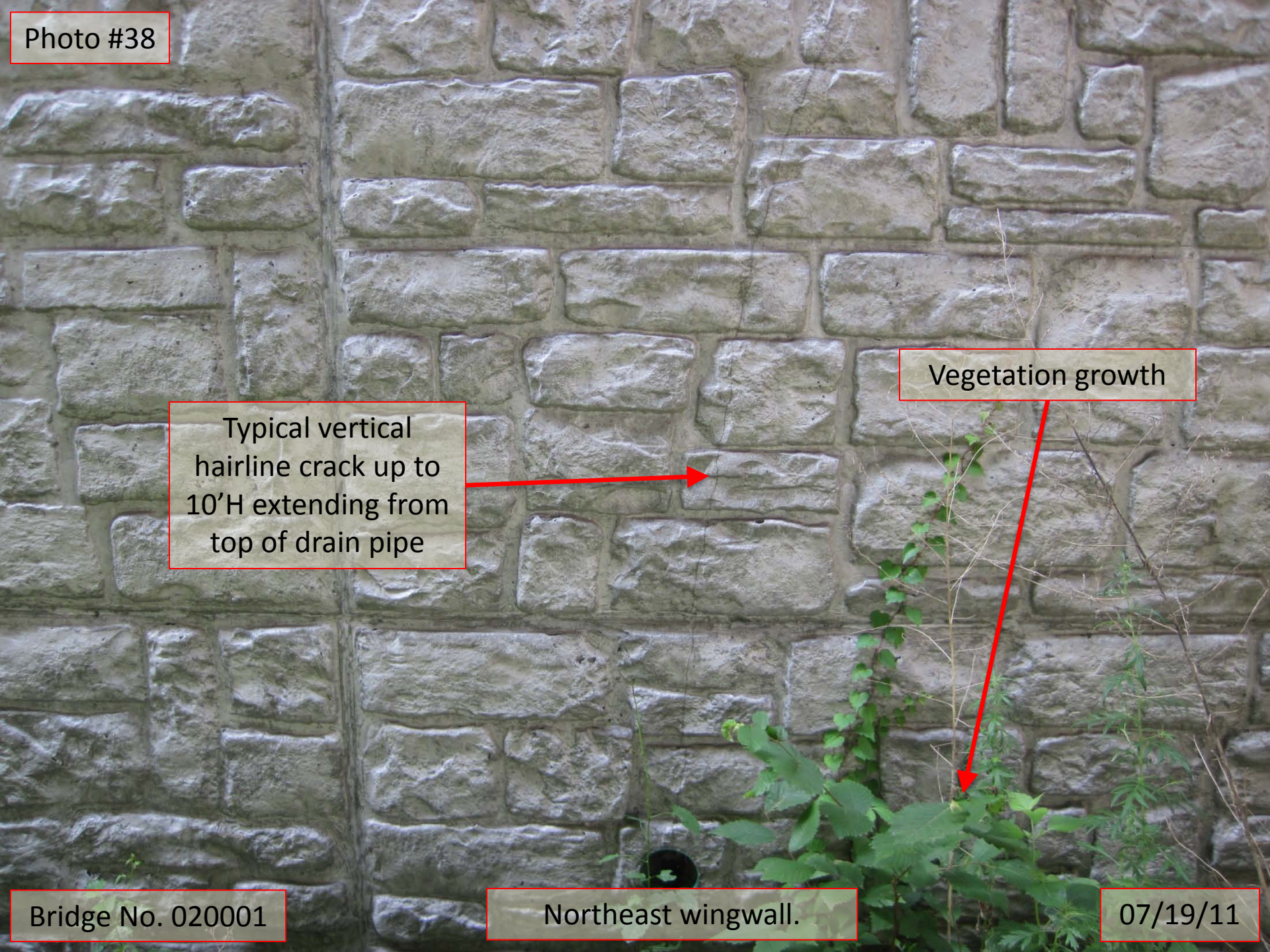
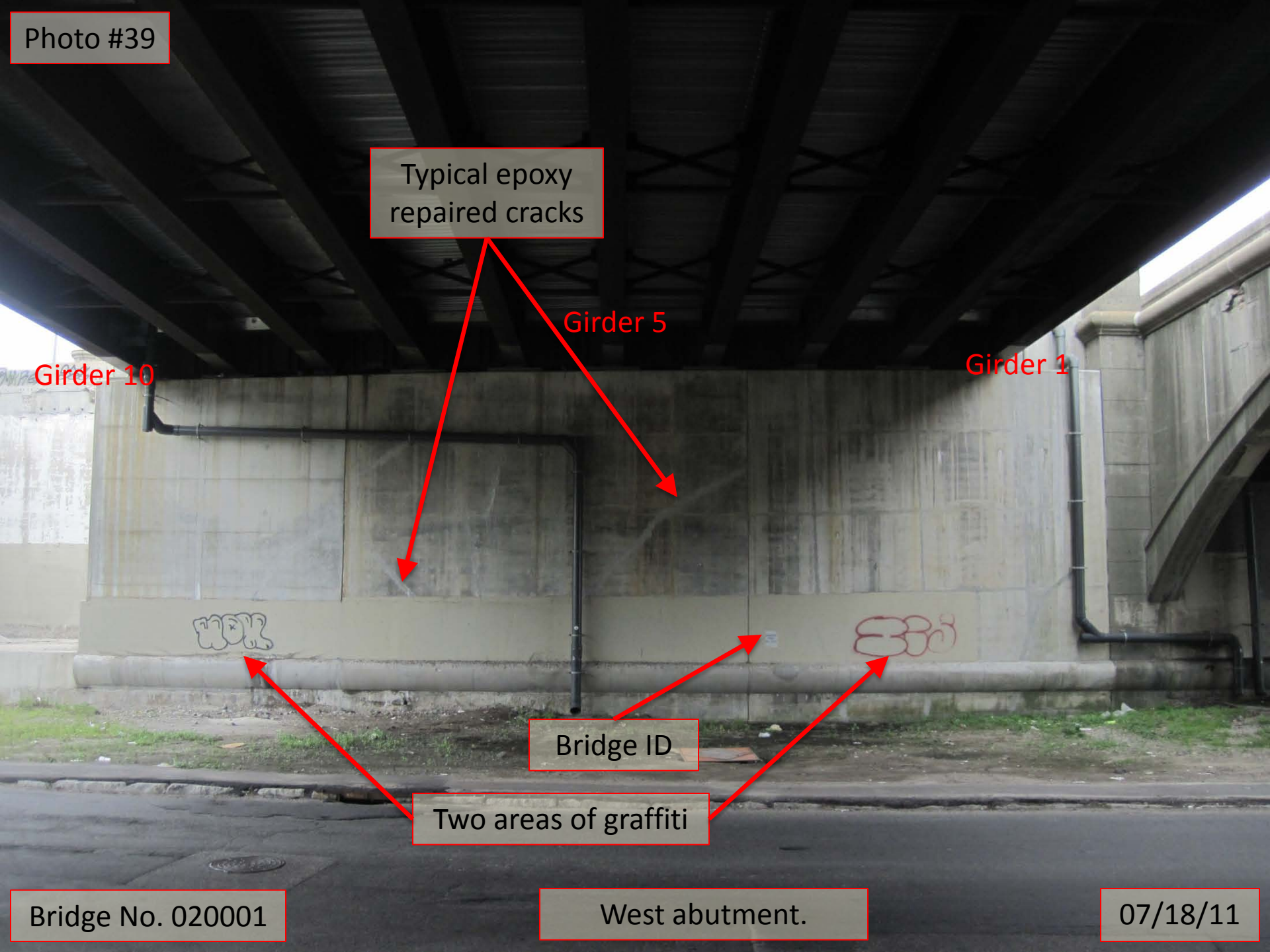

Photo #34
(2) missing settlement gauges at full height x 1/16”W crack
3
2
Full height 1/8” to ½”W crack repaired with epoxy
4’H x 2’W x up to 6”DP spall
Bridge No. 020001
Pier 12 east elevation.
07/19/11

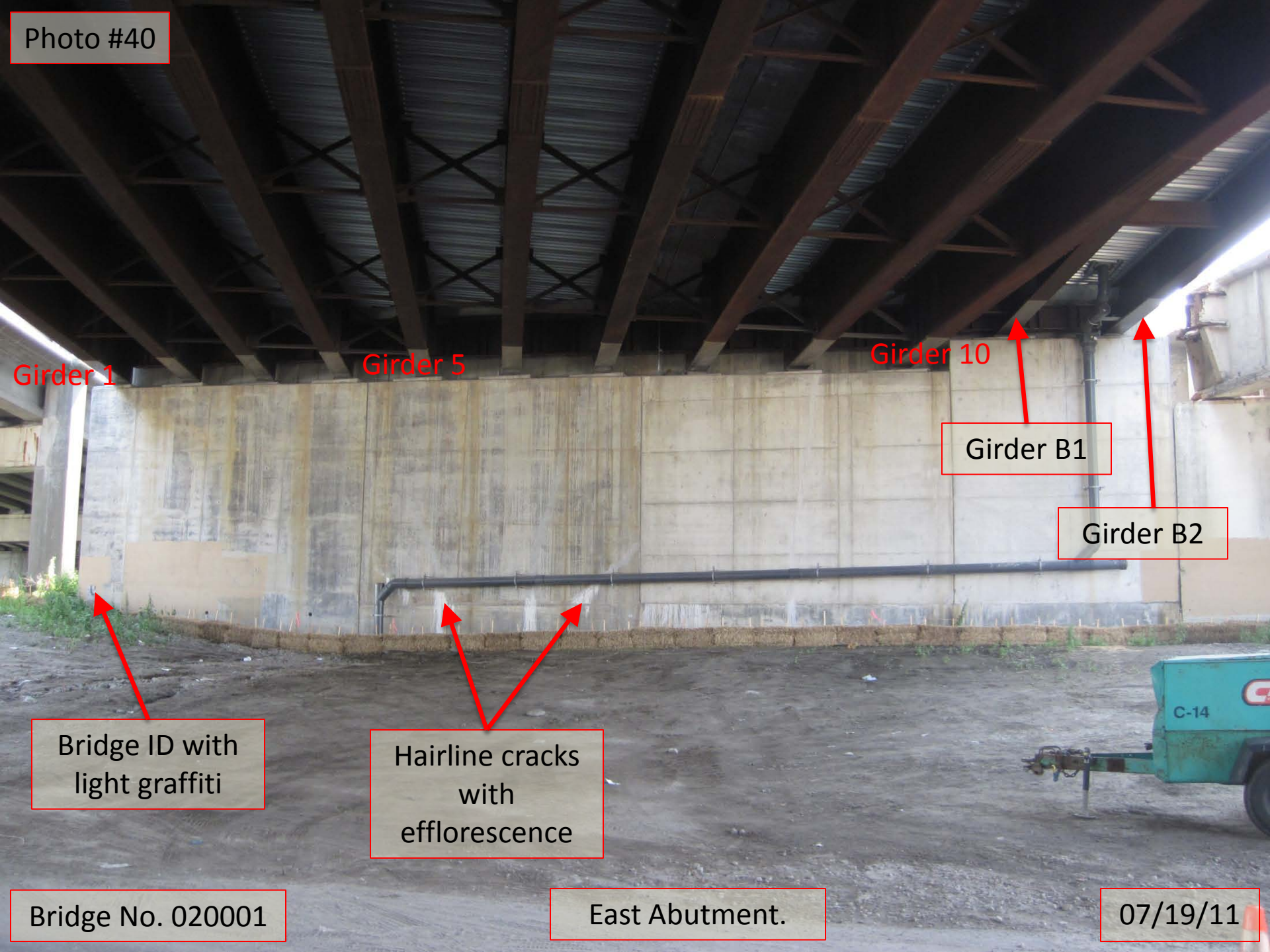

Photo #35
Full height 1/8” to ½”W crack repaired with epoxy
Missing settlement gauge
Bridge No. 020001
Pier 12 east elevation south of column 3.
07/19/11

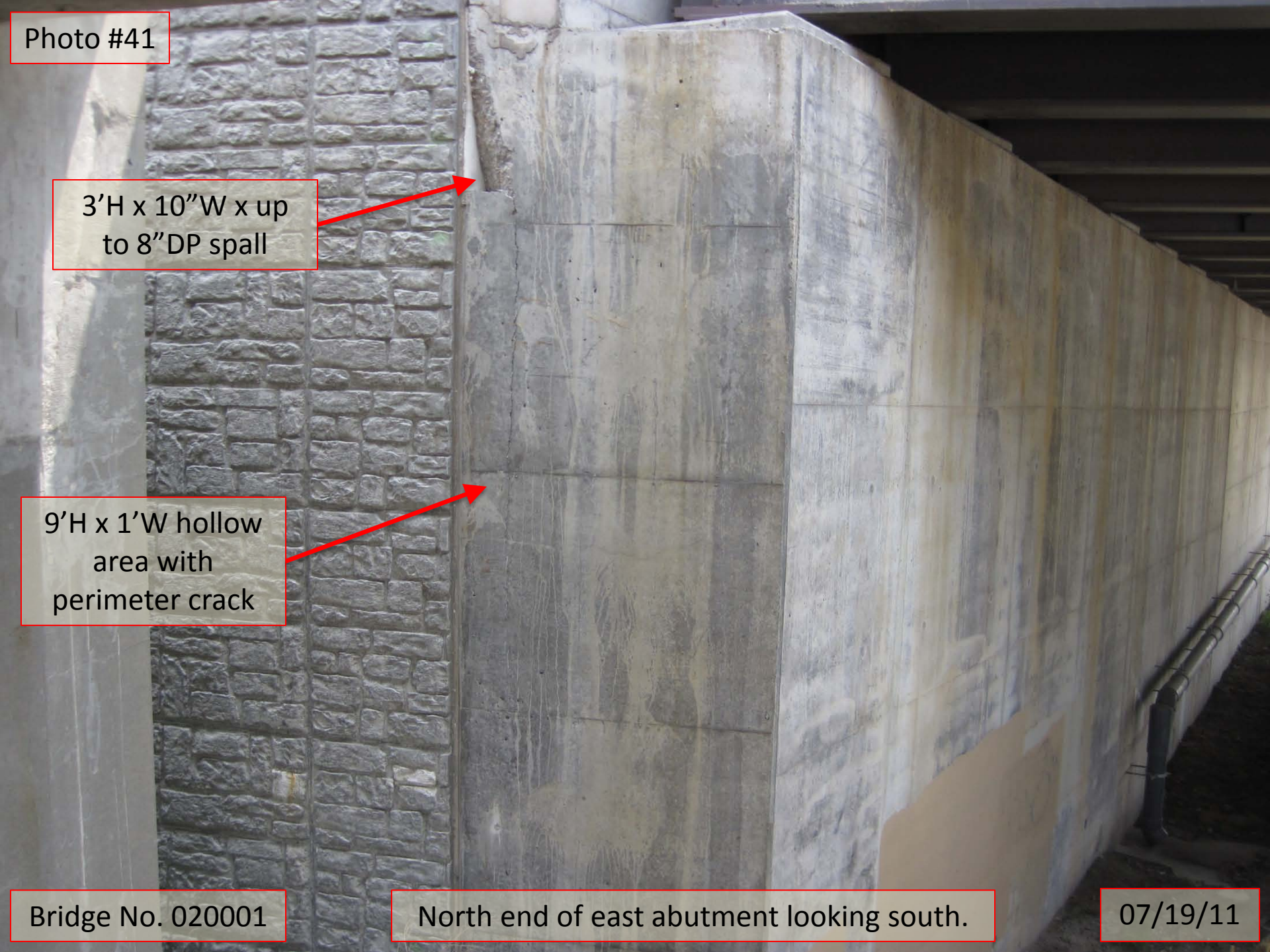

Photo #36
8’H x 1’W hollow area with perimeter cracks with efflorescence staining
Painted over graffiti
Bridge No. 020001
Southwest Wingwall.
07/18/11

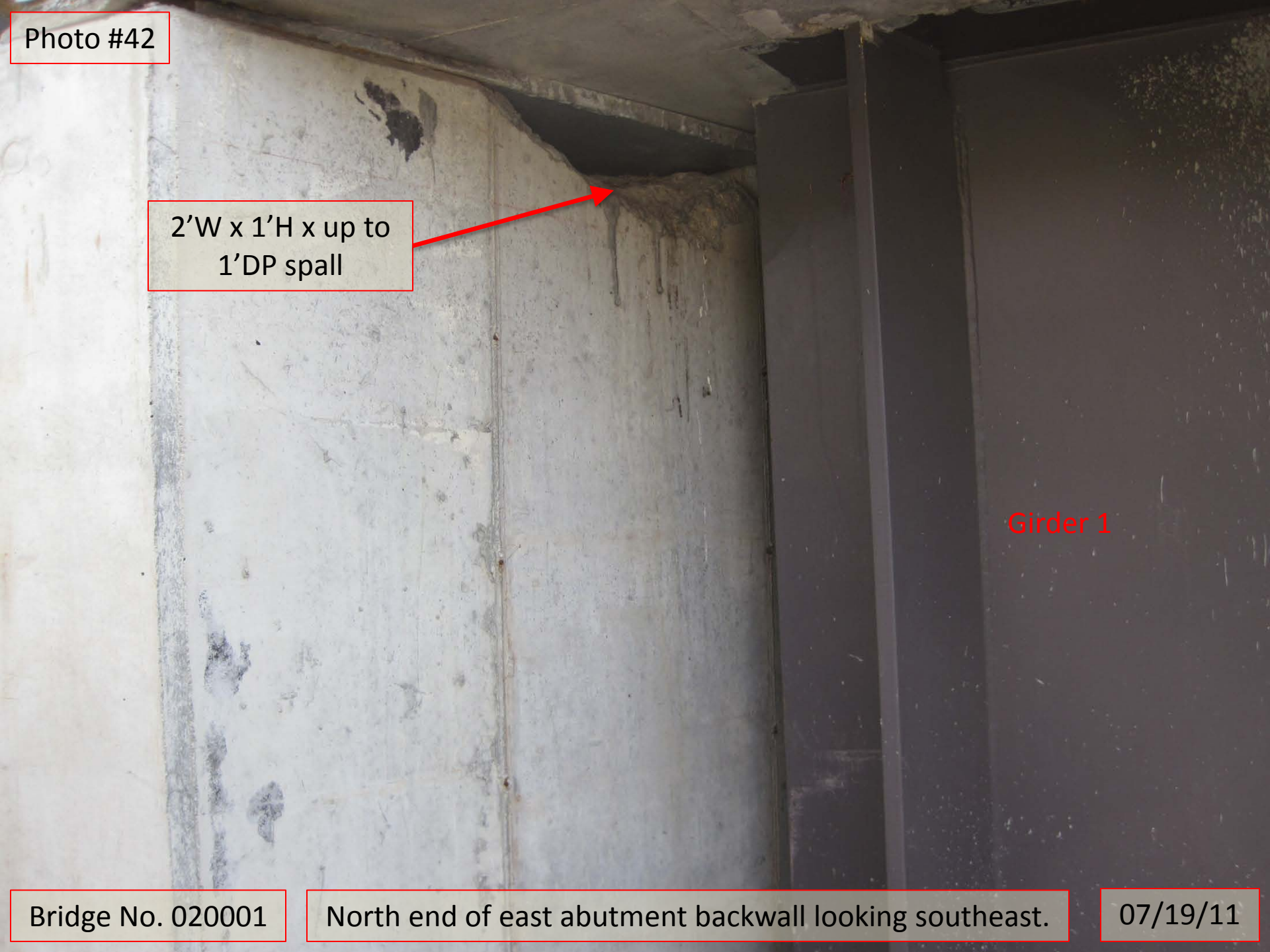

Photo #37
Bridge 070001
Vegetation growth
Bridge No. 020001
Northeast wingwall.
07/19/11

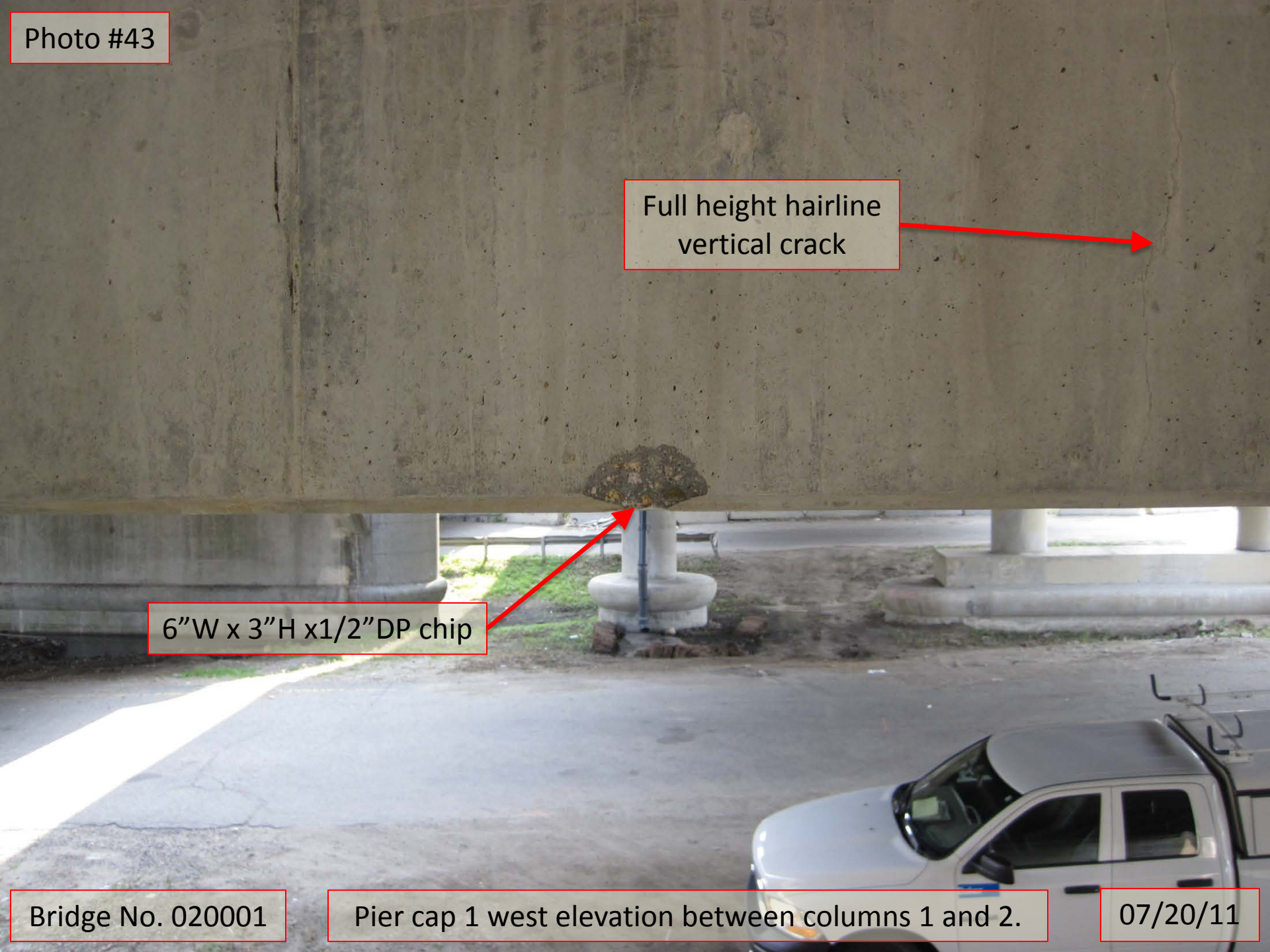

Photo #38
Typical vertical hairline crack up to 10’H extending from top of drain pipe
Vegetation growth
Bridge No. 020001
Northeast wingwall.
07/19/11


Photo #39
Typical epoxy repaired cracks
Girder 5
Girder 10
Girder 1
Bridge ID
Two areas of graffiti
Bridge No. 020001
West abutment.
07/18/11


Photo #40
Girder 1
Girder 5
Girder 10
Girder B1
Girder B2
Bridge ID with light graffiti
Hairline cracks with efflorescence
C-14
Bridge No. 020001
East Abutment.
07/19/11


Photo #41
3’H x 10”W x up to 8”DP spall
9’H x 1’W hollow area with perimeter crack
Bridge No. 020001
North end of east abutment looking south.
07/19/11


Photo #42
2’W x 1’H x up to 1’DP spall
Girder 1
Bridge No. 020001
North end of east abutment backwall looking southeast.
07/19/11


Photo #43
Full height hairline vertical crack
6”W x 3”H x1/2”DP chip
Bridge No. 020001
Pier cap 1 west elevation between columns 1 and 2.
07/20/11

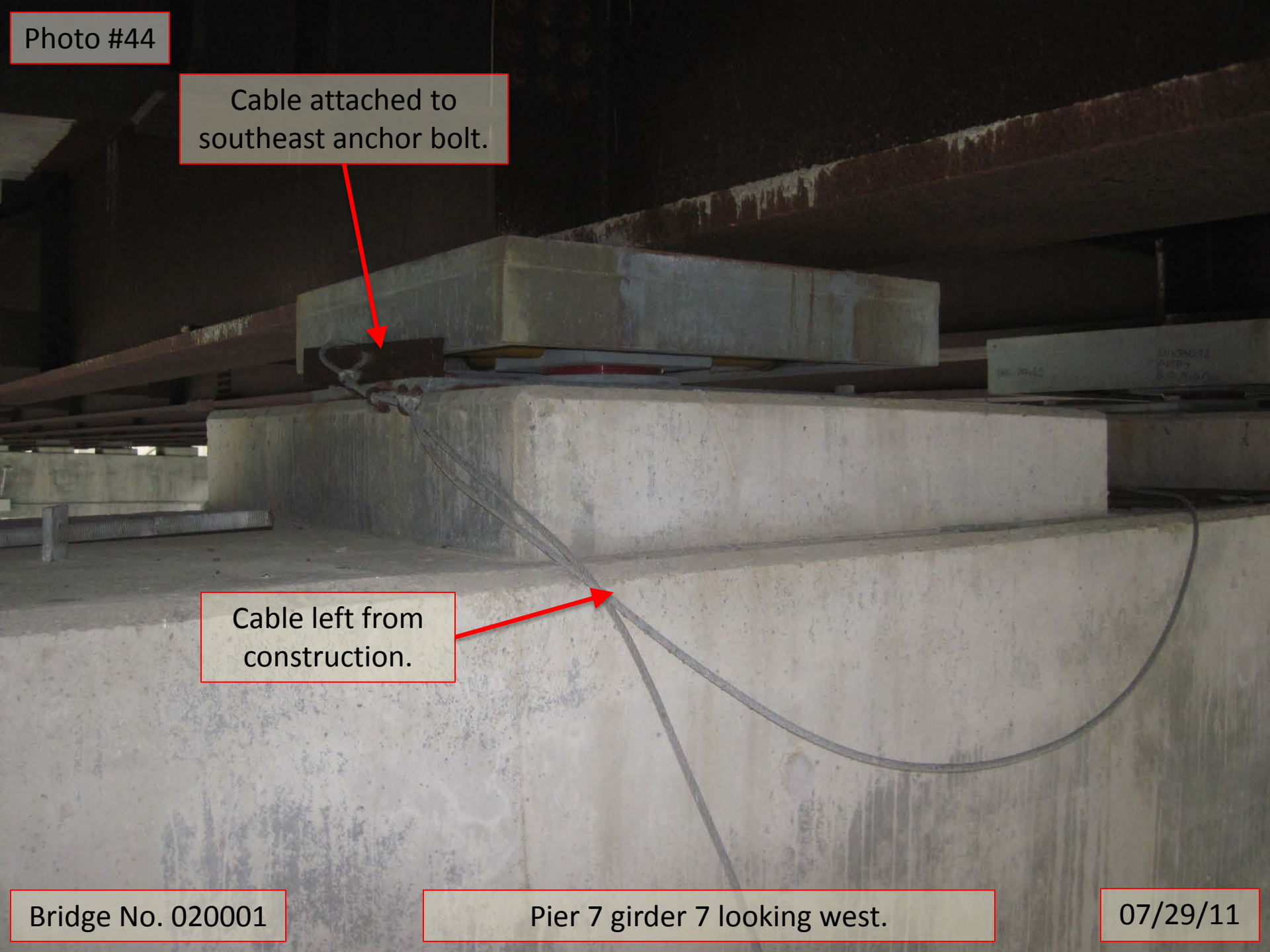

Photo #44
Cable attached to southeast anchor bolt.
Cable left from construction.
Bridge No. 020001
Pier 7 girder 7 looking west.
07/29/11


Photo #45
(3) Full height hairline vertical cracks
Bridge No. 020001
Pier cap 8 east elevation north end.
07/29/11

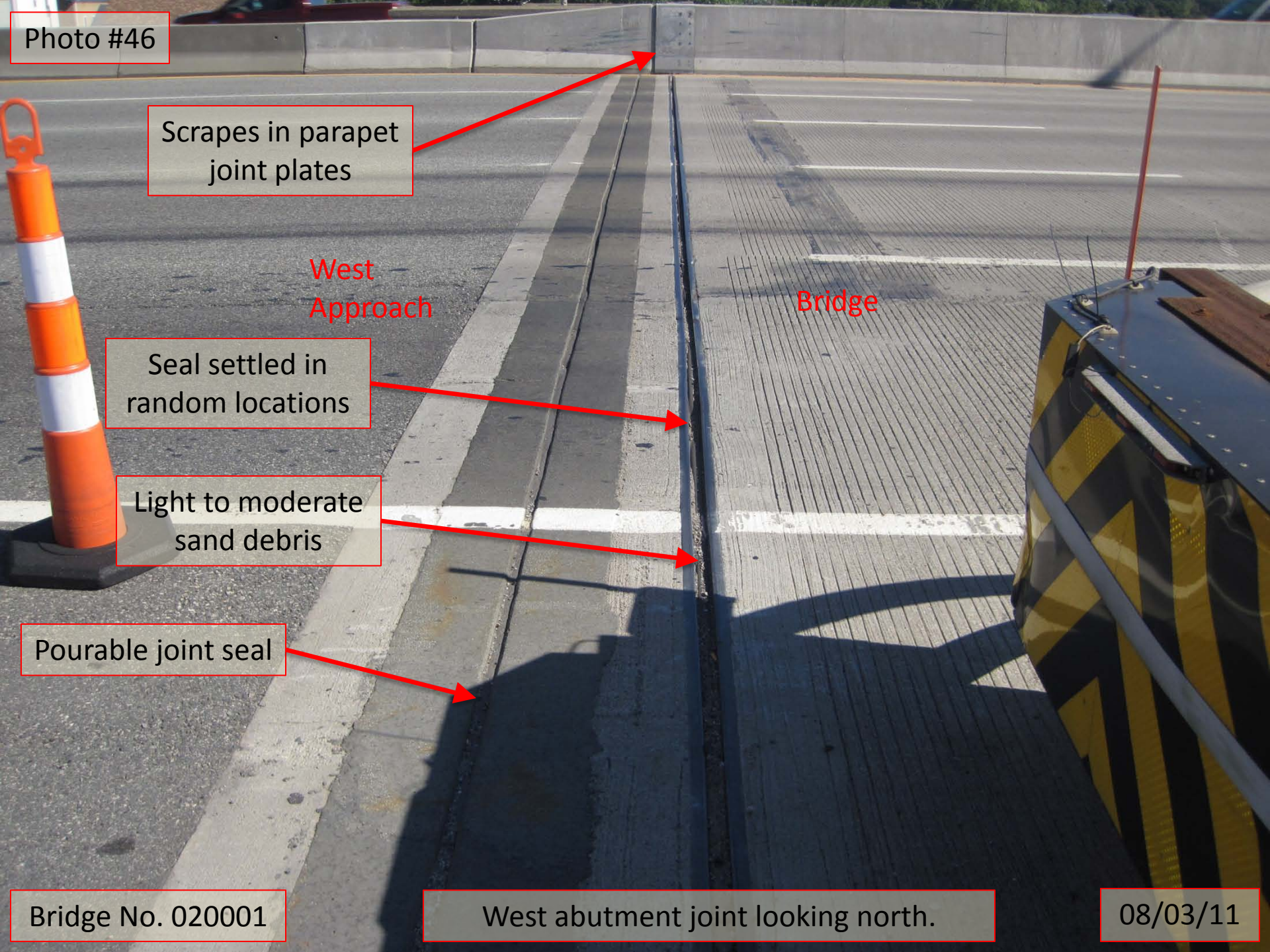
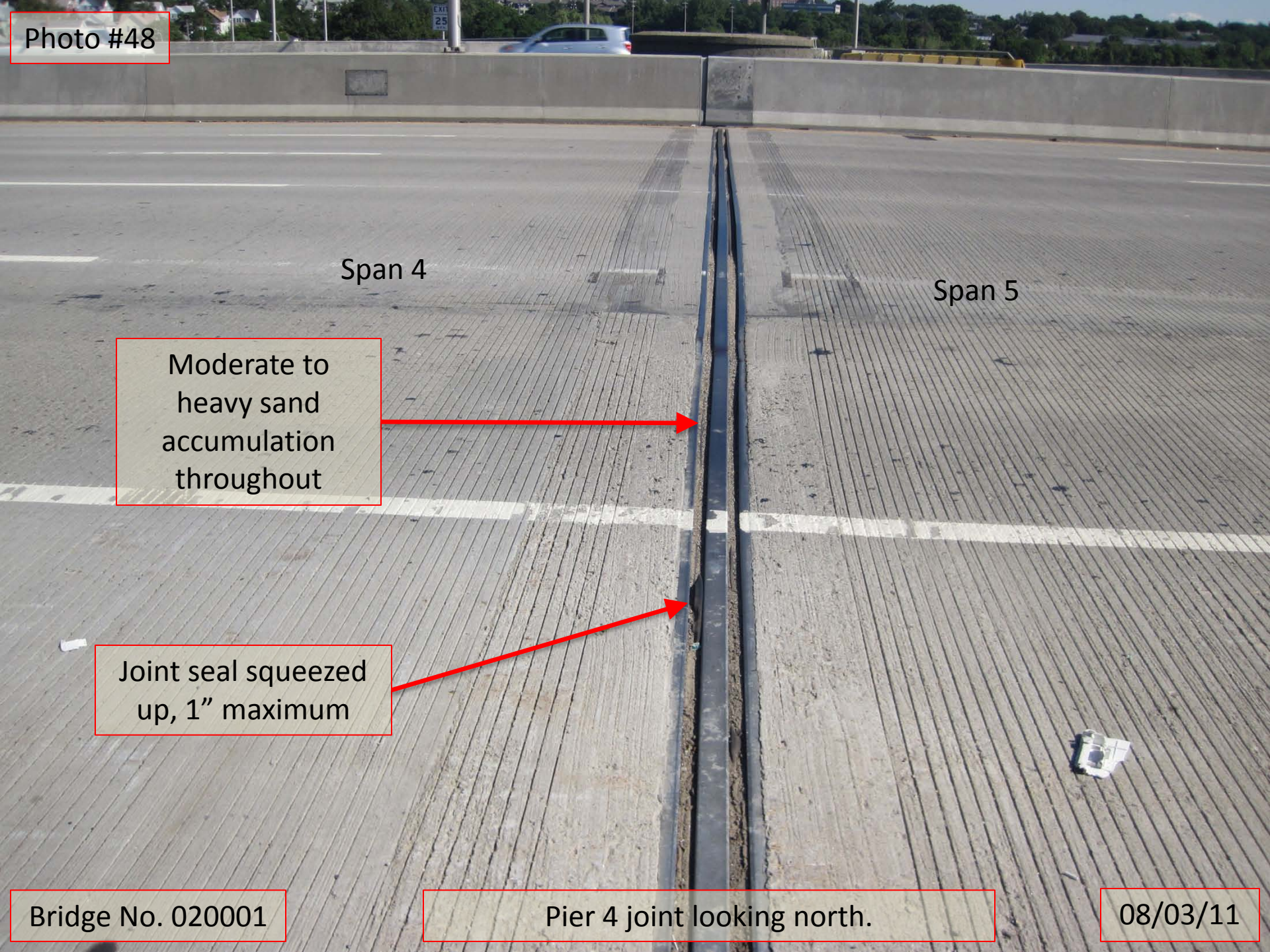
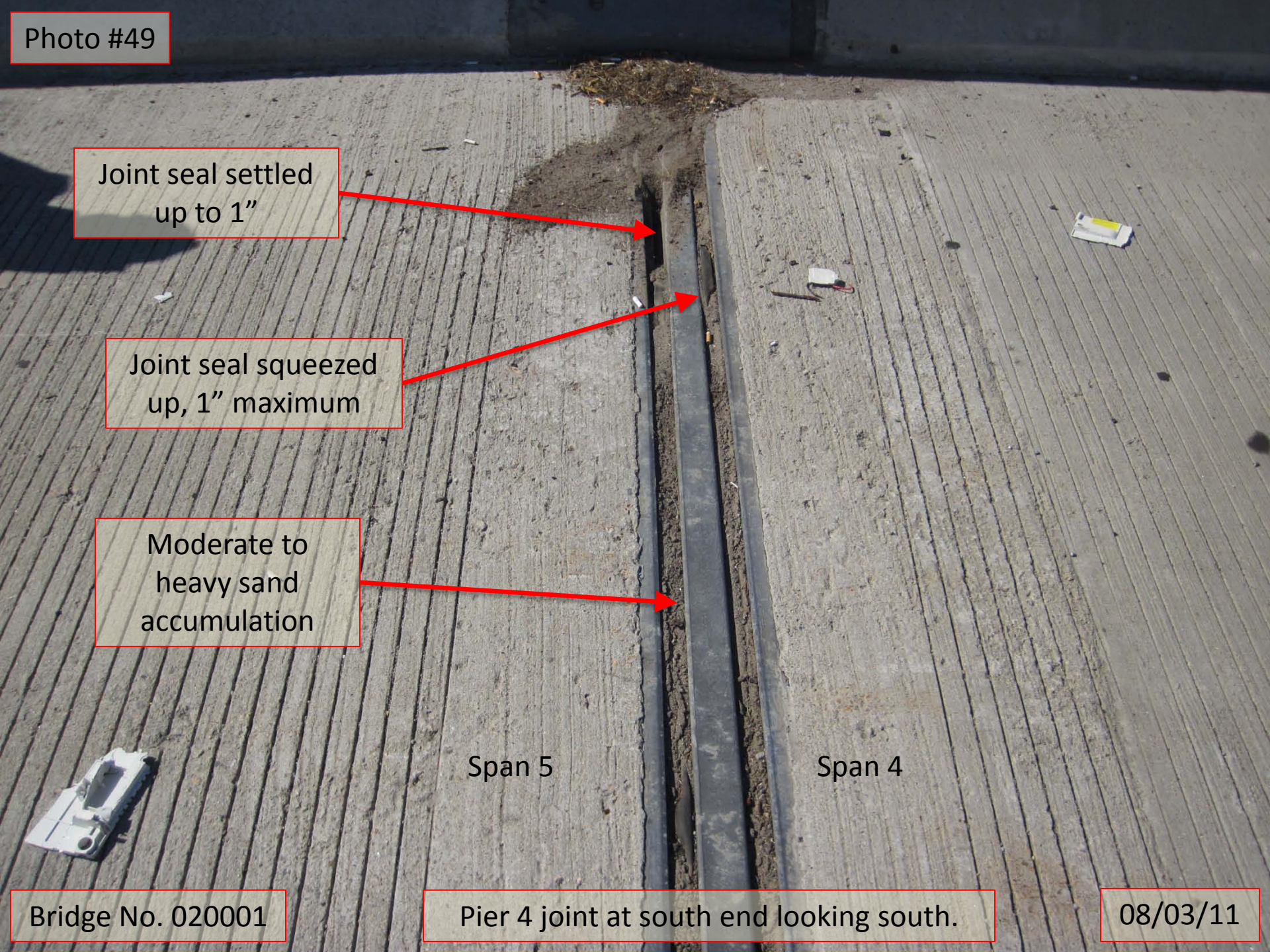
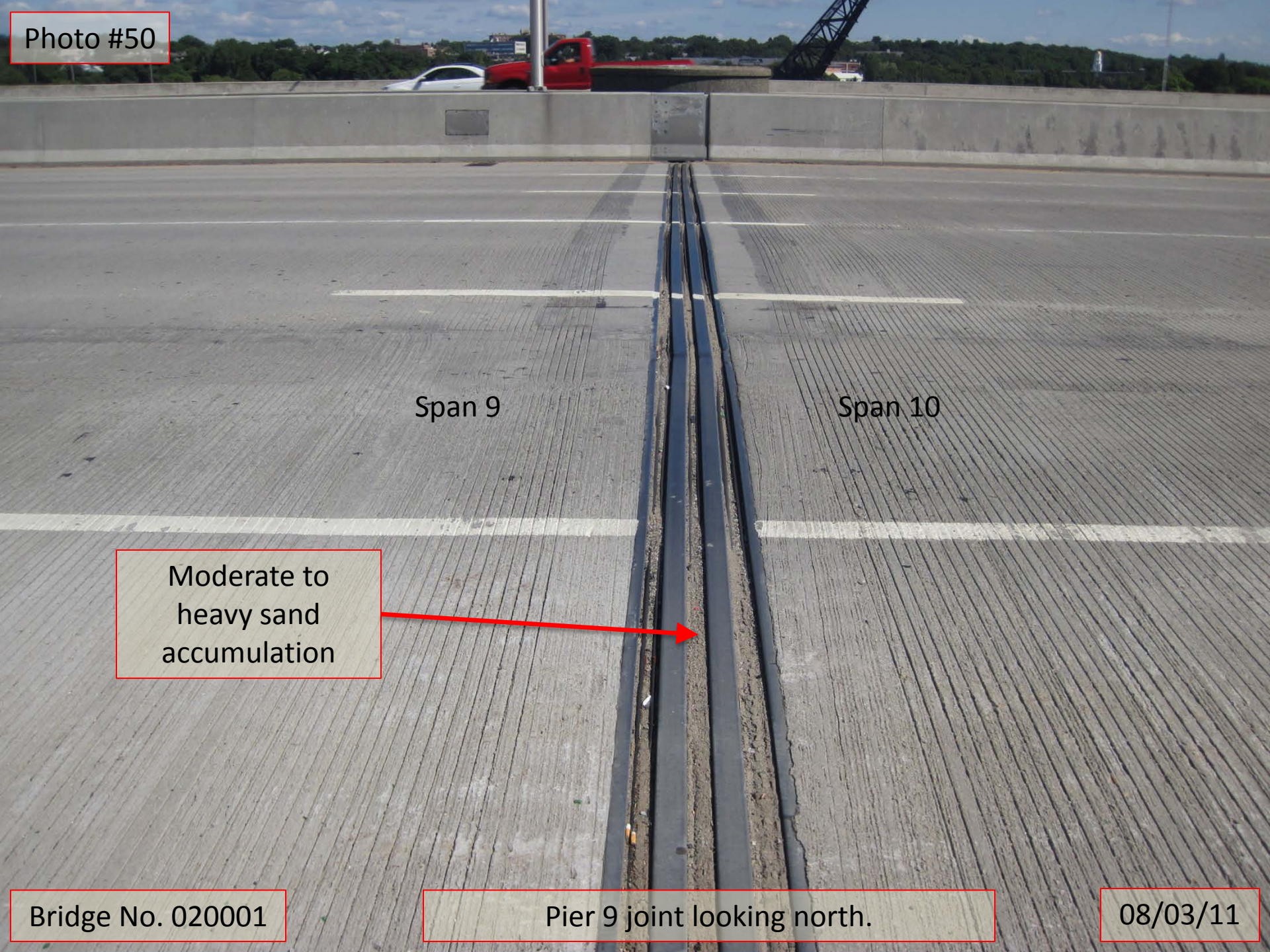
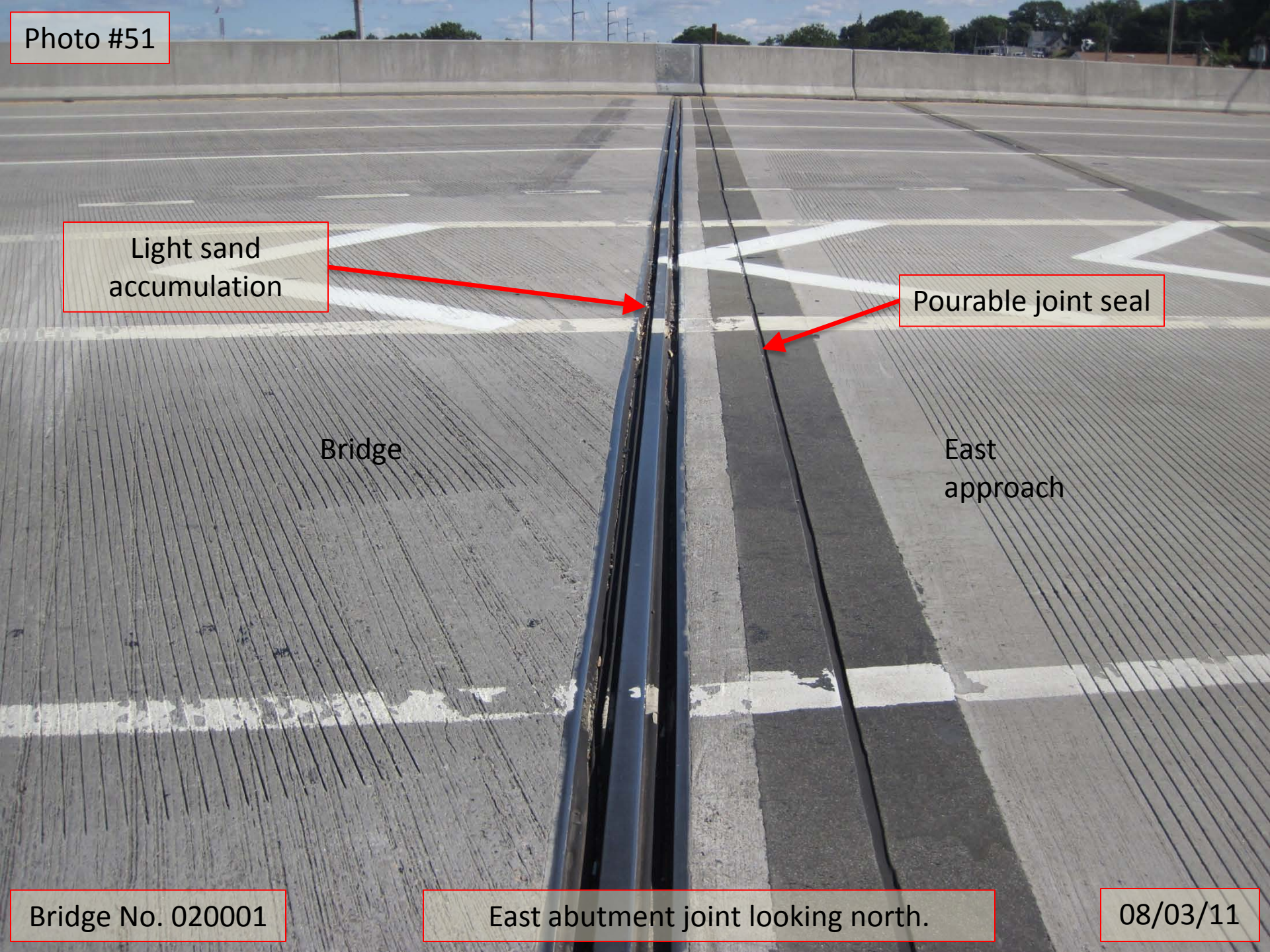

Photo #46
Scrapes in parapet joint plates
West Approach
Bridge
Seal settled in random locations
Light to moderate sand debris
Pourable joint seal
Bridge No. 020001
West abutment joint looking north.
08/03/11


Photo #47
Scrapes in parapet and joint plates
Moderate sand debris in joint
STATE OF RHODE ISLAND
2008
Bridge No. 020001
West abutment joint at south parapet looking southeast.
08/03/11


Photo #48
Span 4
Span 5
Moderate to heavy sand accumulation throughout
Joint seal squeezed up, 1” maximum
Bridge No. 020001
Pier 4 joint looking north.
08/03/11


Photo #49
Joint seal settled up to 1”
Joint seal squeezed up, 1” maximum
Moderate to heavy sand accumulation
Span 5
Span 4
Bridge No. 020001
Pier 4 joint at south end looking south.
08/03/11


Photo #50
Span 9
Span 10
Moderate to heavy sand accumulation
Bridge No. 020001
Pier 9 joint looking north.
08/03/11


Photo #51
Light sand accumulation
Pourable joint seal
Bridge
East approach
Bridge No. 020001
East abutment joint looking north.
08/03/11

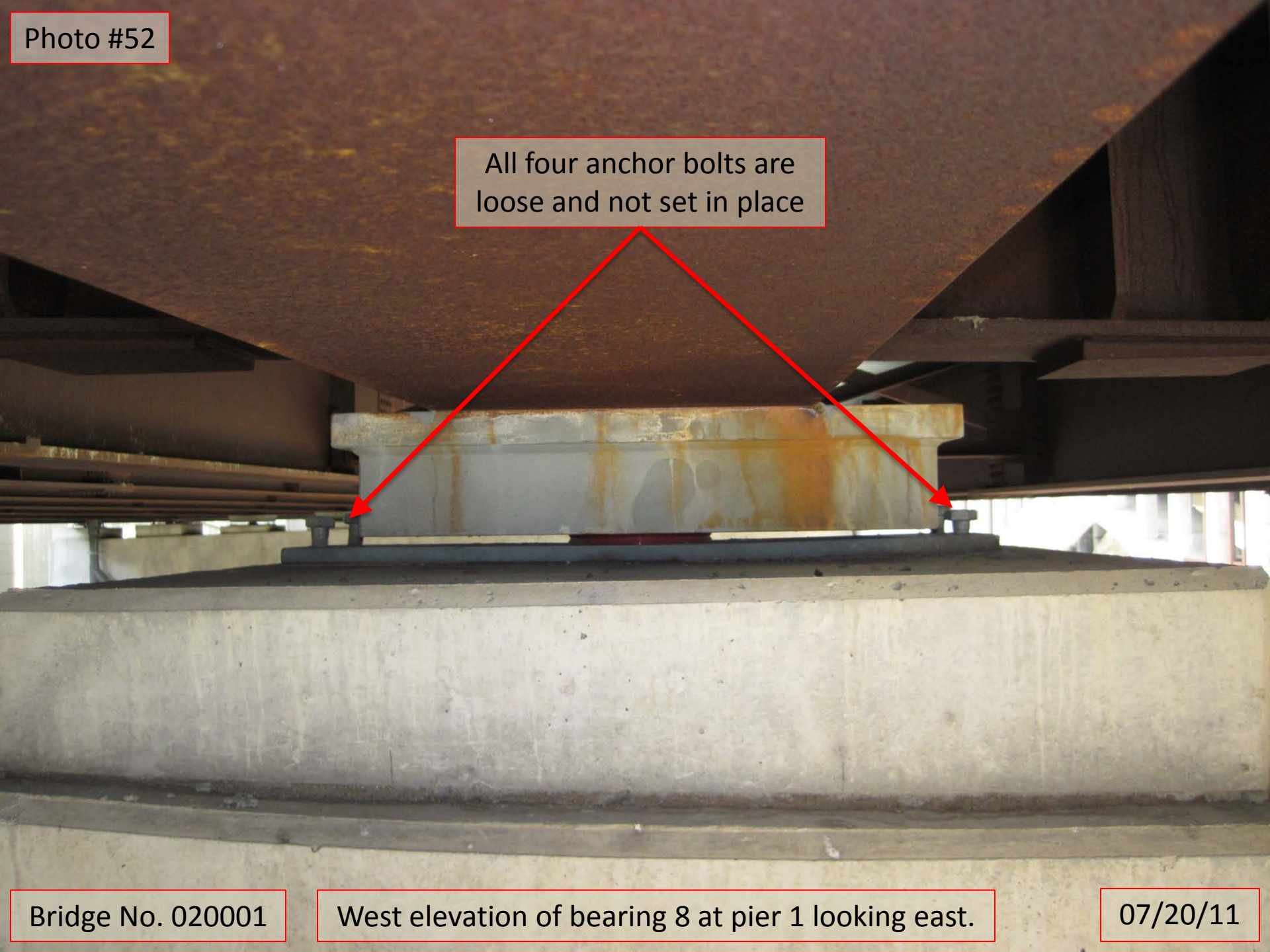
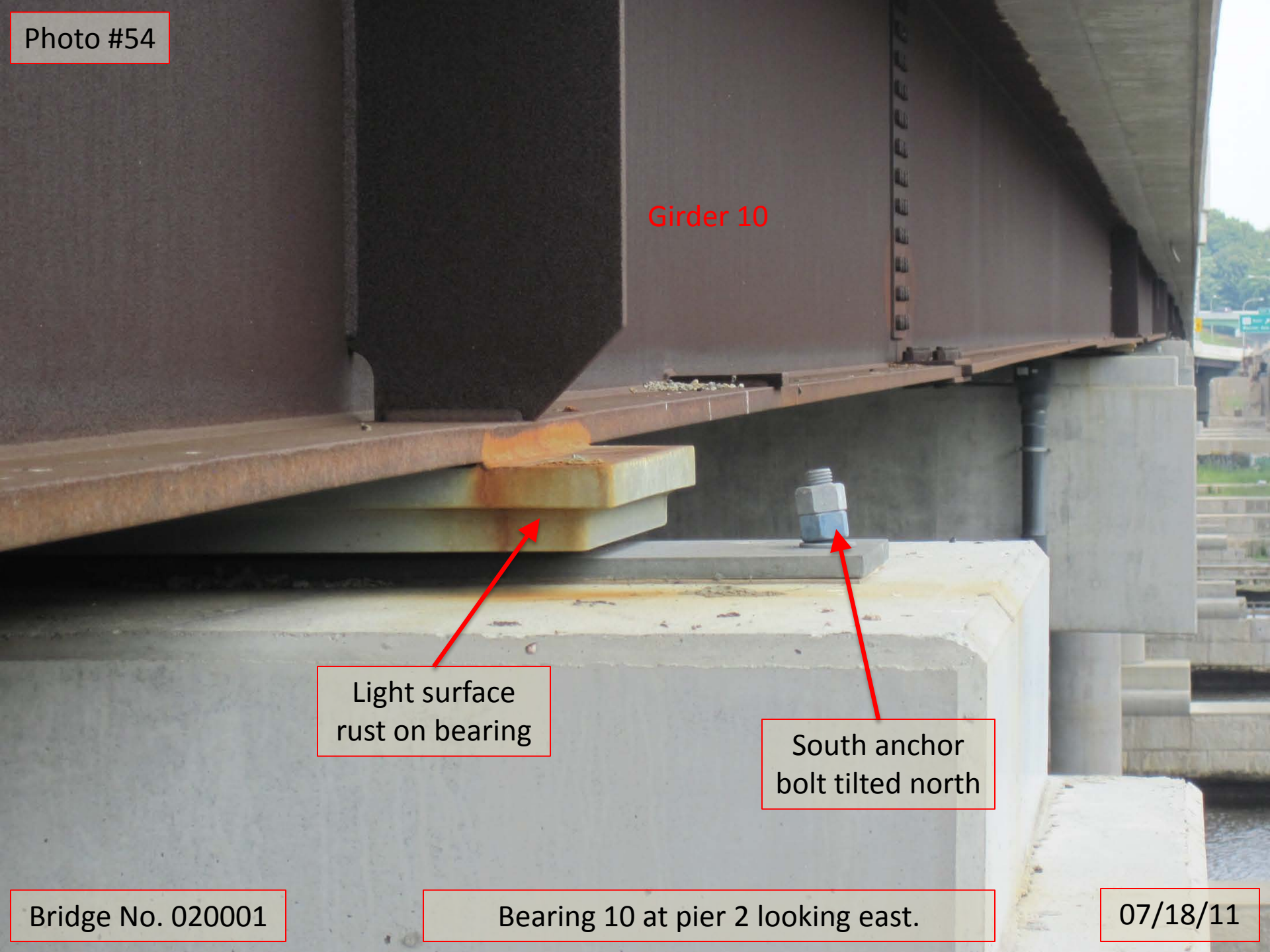
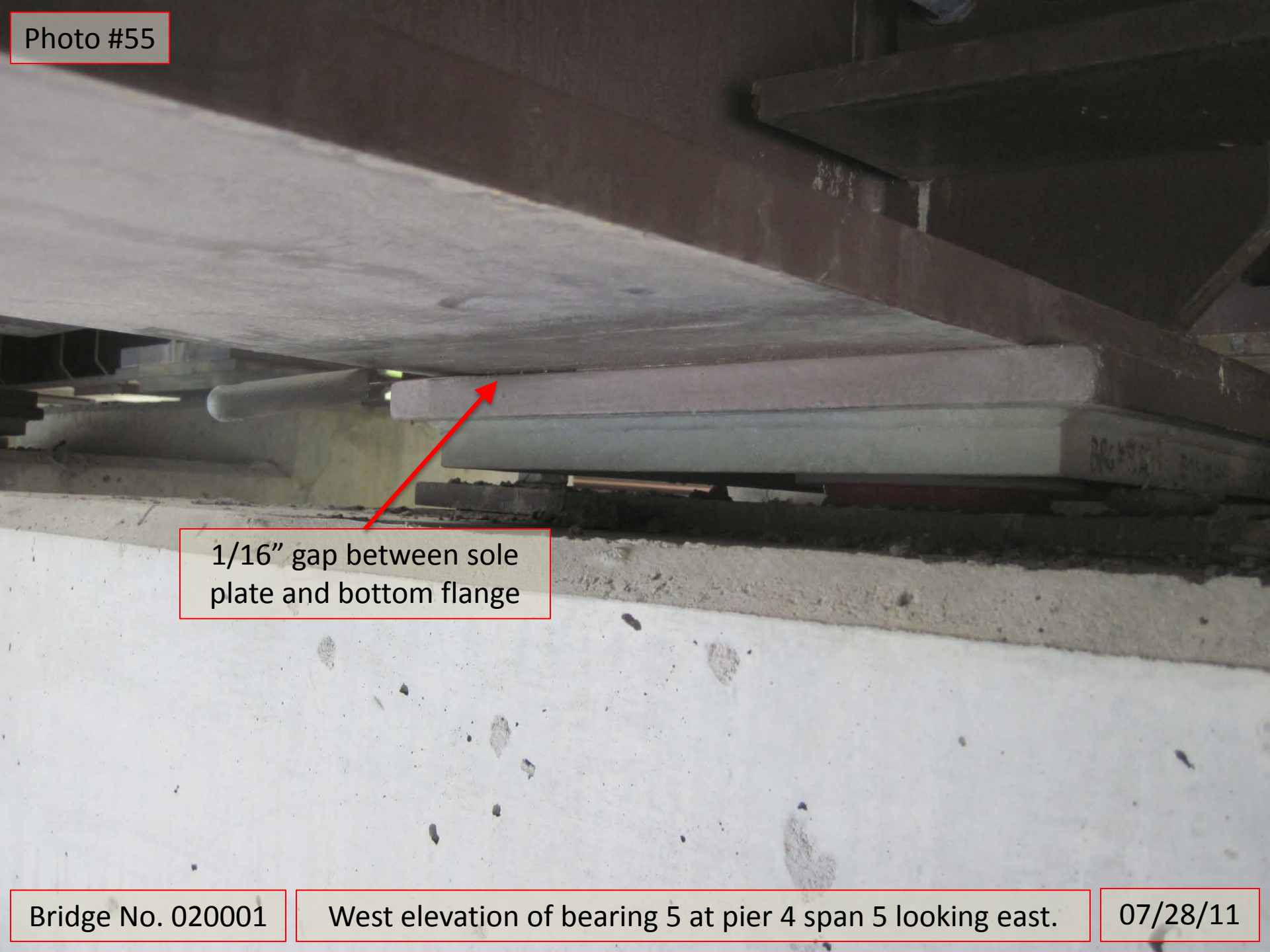

Photo #52
All four anchor bolts are loose and not set in place
Bridge No. 020001
West elevation of bearing 8 at pier 1 looking east.
07/20/11

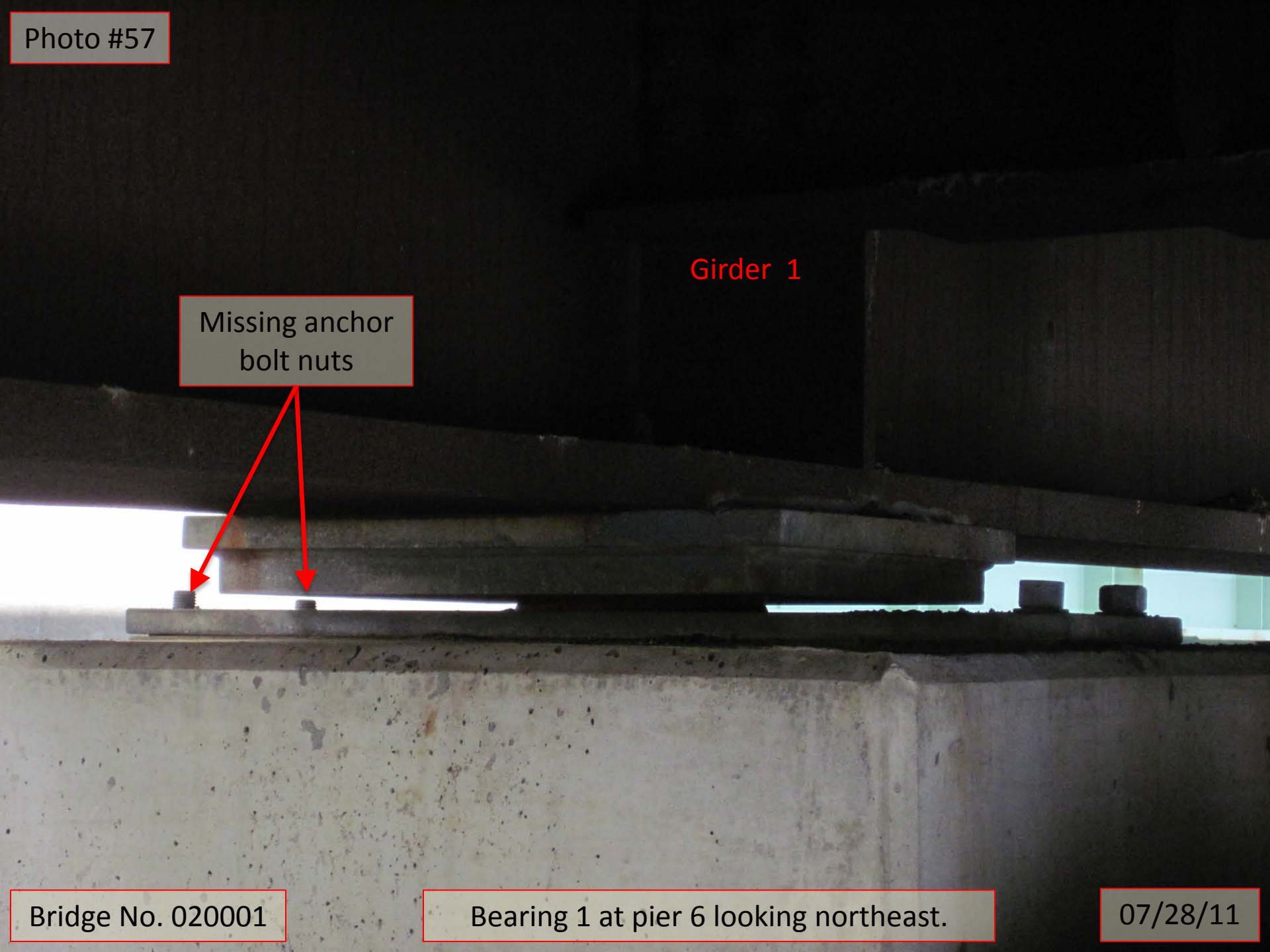

Photo #53
Northeast anchor bolt not set in place
Bridge No. 020001
Bearing 3 at pier 2 looking southeast.
07/18/11


Photo #54
Girder 10
Light surface rust on bearing
South anchor bolt tilted north
Bridge No. 020001
Bearing 10 at pier 2 looking east.
07/18/11



Bridge No. 020001 | West elevation of bearing 5 at pier 4 span 5 looking east. | 07/28/11


Photo #56
Northeast anchor bolt is missing
Different types of anchor bolts
Bridge No. 020001
West elevation of girder 7 at pier 5 looking northeast.
07/28/11


Photo #57
Girder 1
Missing anchor bolt nuts
Bridge No. 020001
Bearing 1 at pier 6 looking northeast.
07/28/11

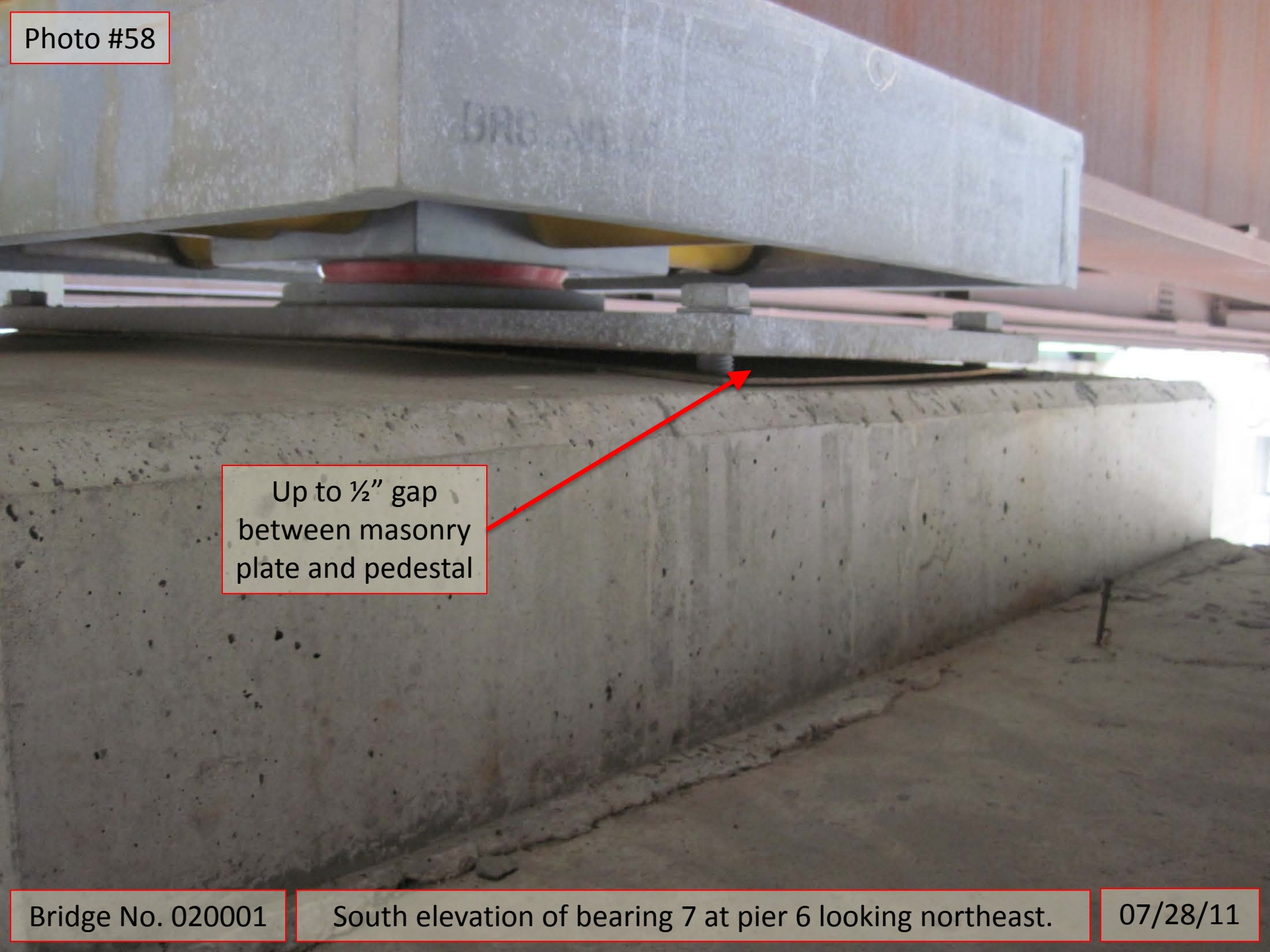
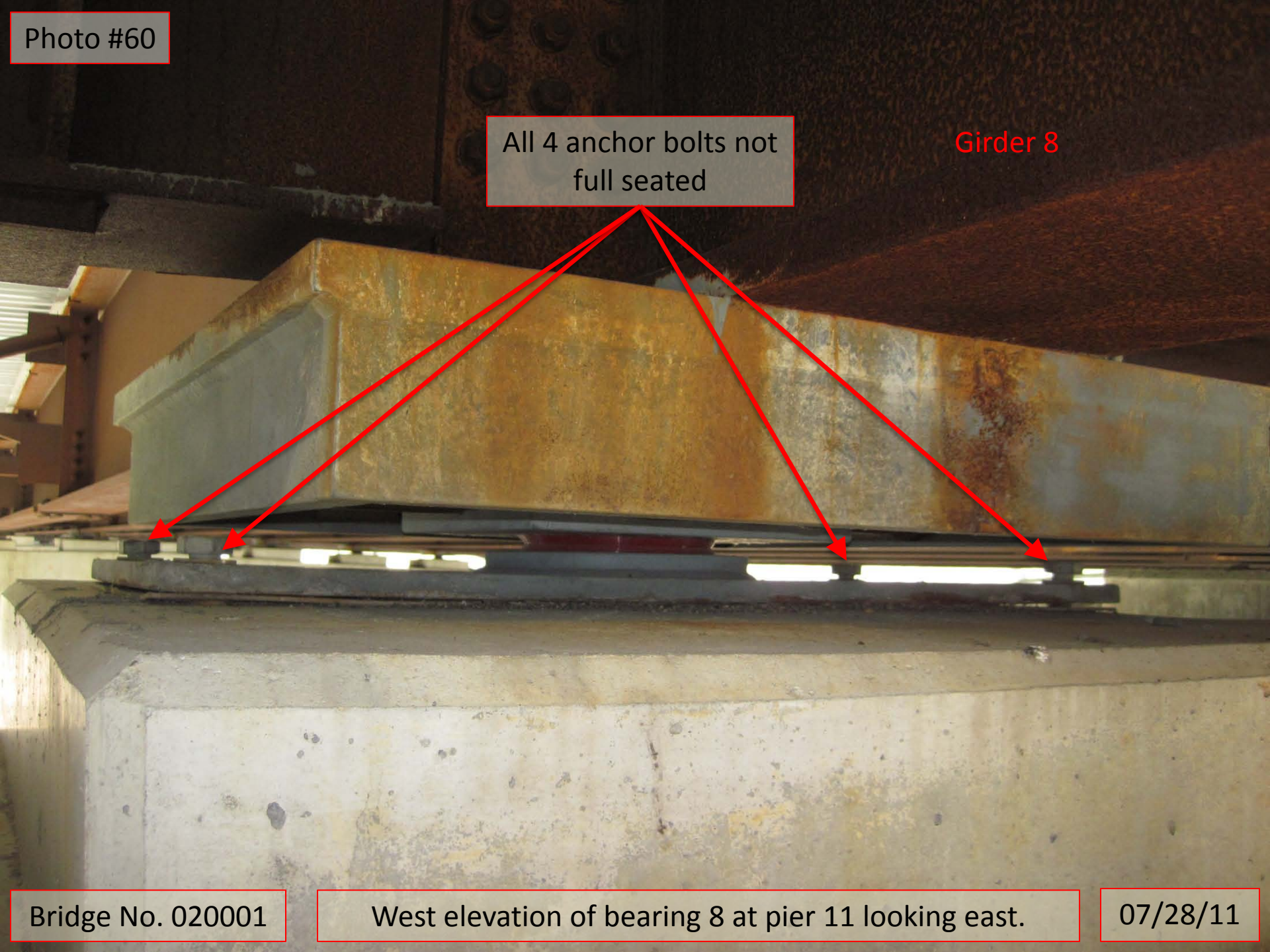
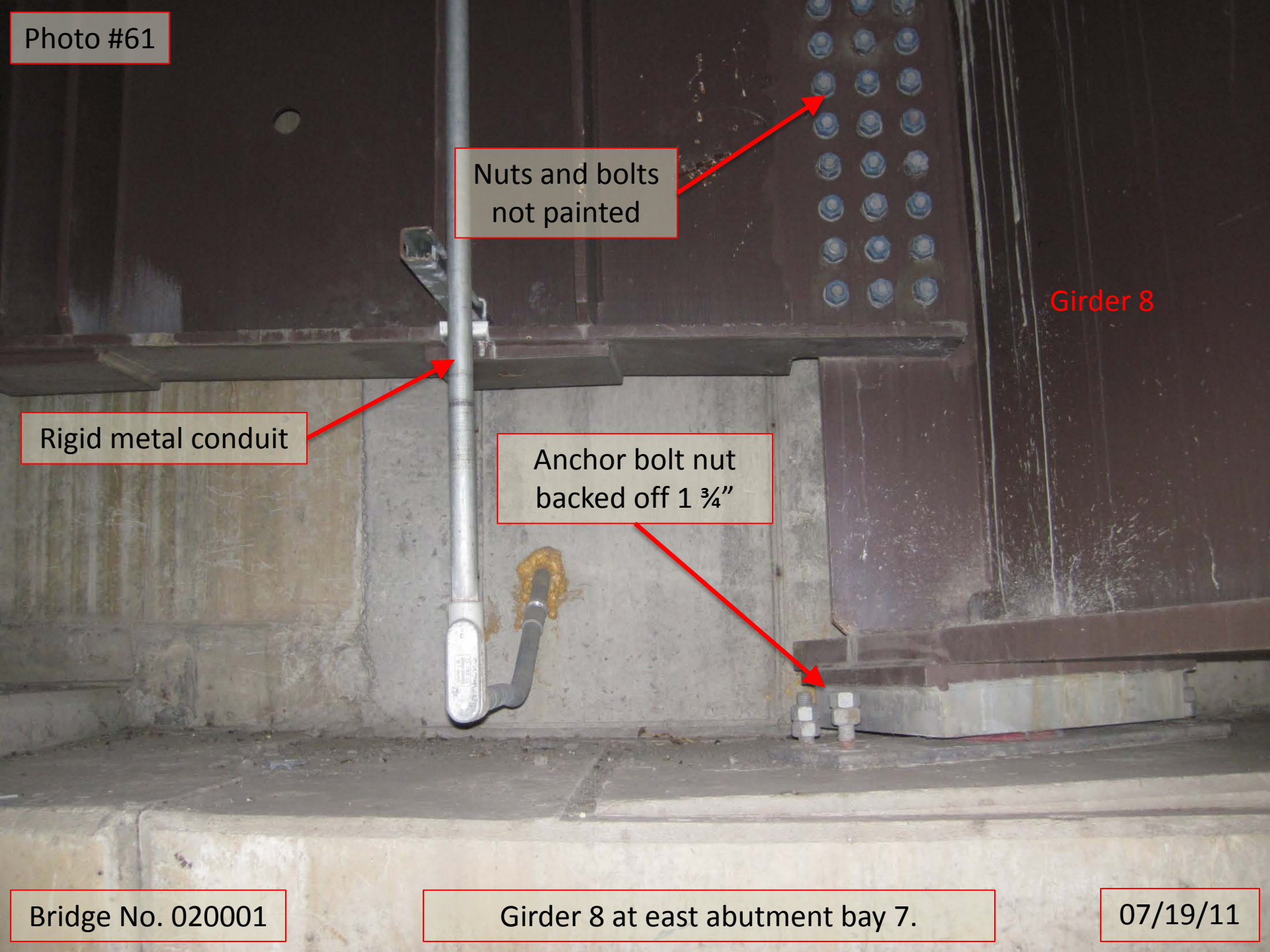
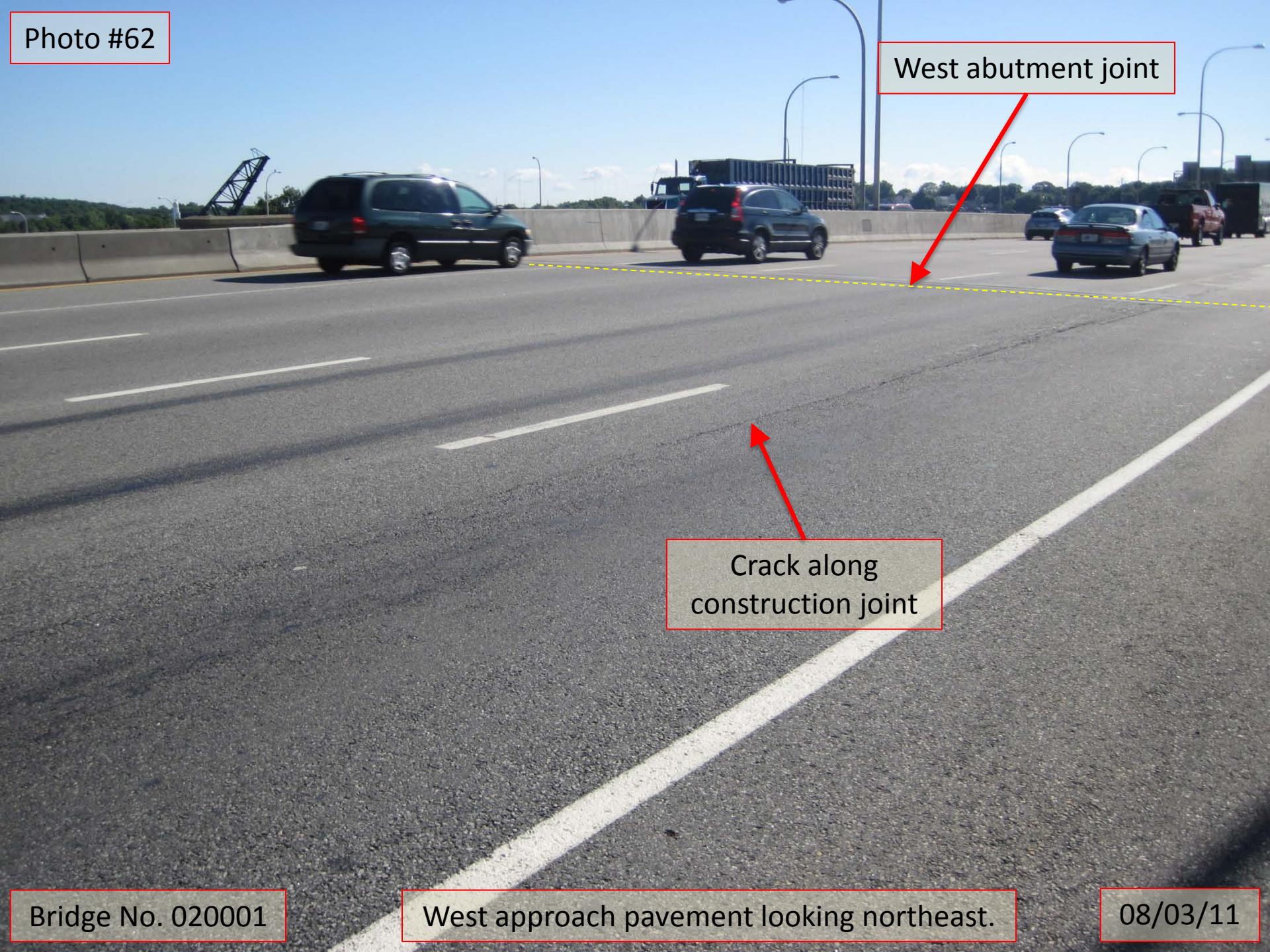

Photo #58
Up to ½” gap between masonry plate and pedestal
Bridge No. 020001
South elevation of bearing 7 at pier 6 looking northeast.
07/28/11


Photo #59
Missing anchor bolt nut due to diaphragm too close
Bridge No. 020001
West elevation of bearing 4 at pier 9 looking west.
07/29/11


Photo #60
All 4 anchor bolts not full seated
Girder 8
Bridge No. 020001
West elevation of bearing 8 at pier 11 looking east.
07/28/11


Photo #61
Nuts and bolts not painted
Girder 8
Rigid metal conduit
Anchor bolt nut backed off 1 ¾”
Bridge No. 020001
Girder 8 at east abutment bay 7.
07/19/11


Photo #62
West abutment joint
Crack along construction joint
Bridge No. 020001
West approach pavement looking northeast.
08/03/11

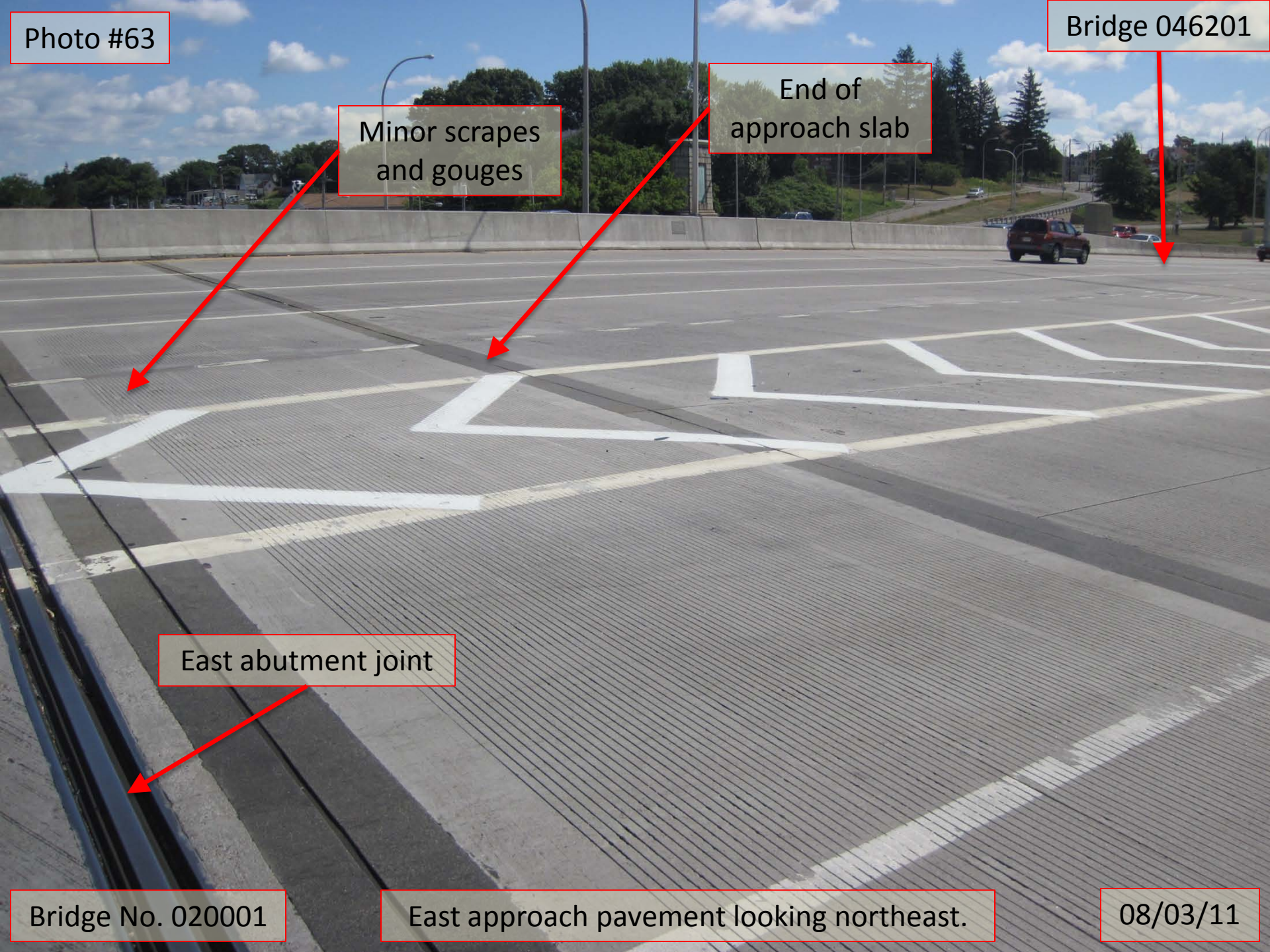
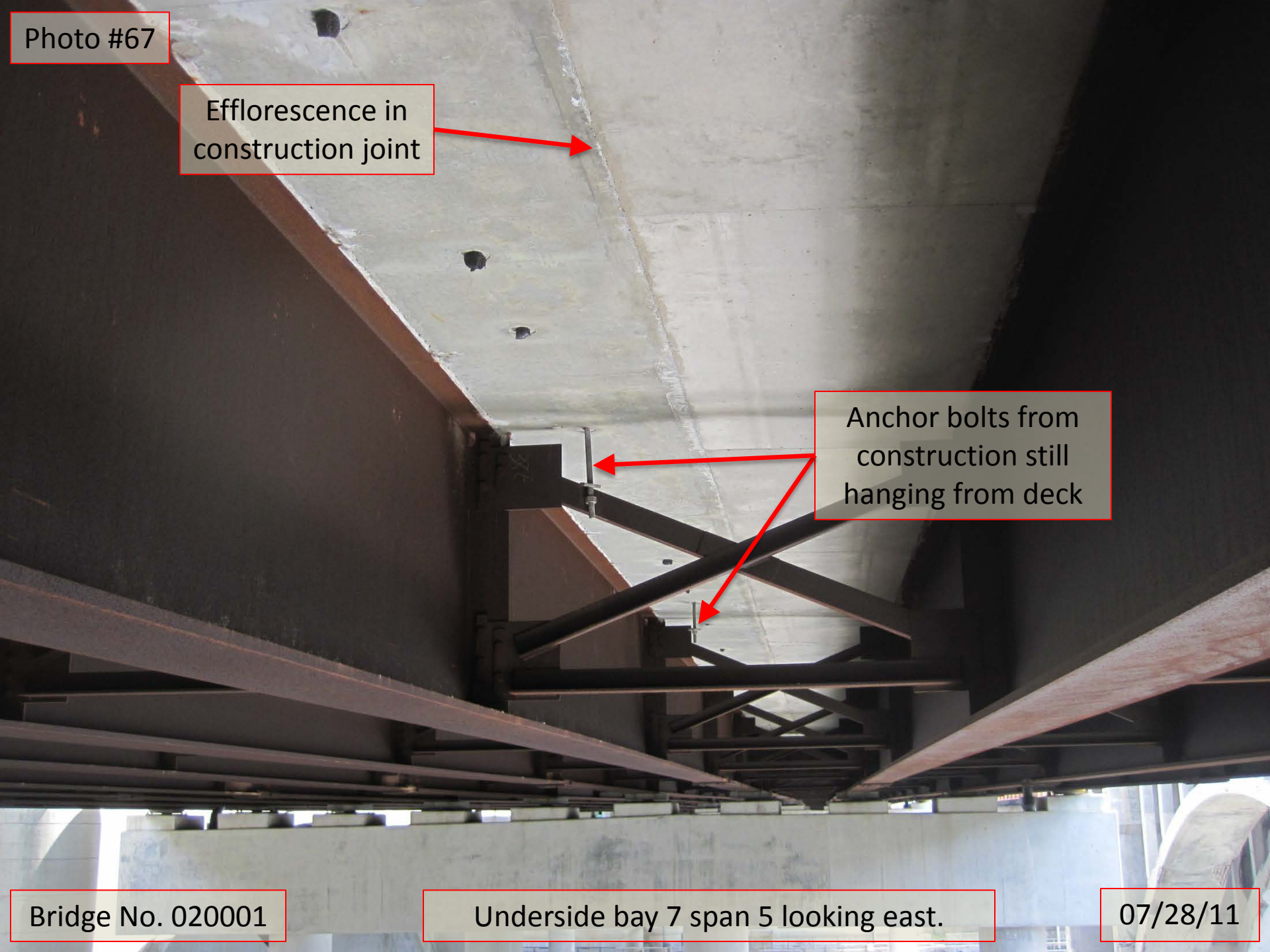

Photo #63
Bridge 046201
End of approach slab
Minor scrapes and gouges
East abutment joint
Bridge No. 020001
East approach pavement looking northeast.
08/03/11


Photo #64
Hairline cracks in parapet
Bridge No. 020001
South parapet midspan 9 looking southwest.
08/03/11


Photo #65
Light graffiti
Scupper partially clogged with sand and vegetation debris
Bridge No. 020001
South parapet span 7 over pier 7 looking southeast.
08/03/11


Photo #66
Two gouges 1’L x 2”H x 1”DP
Bridge No. 020001
North parapet span 7 looking north.
08/03/11


Photo #67
Efflorescence in construction joint
Anchor bolts from construction still hanging from deck
Bridge No. 020001
Underside bay 7 span 5 looking east.
07/28/11

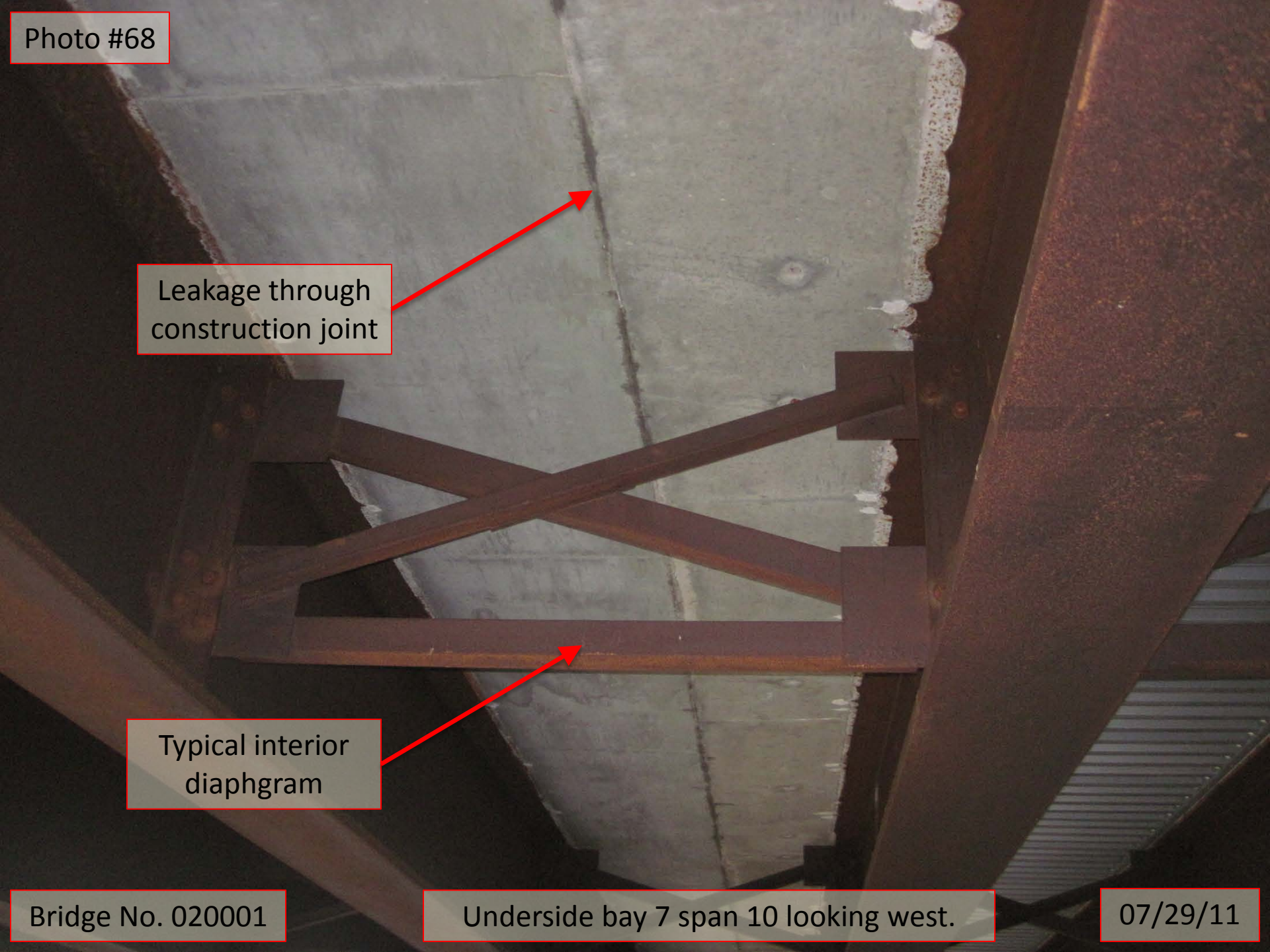
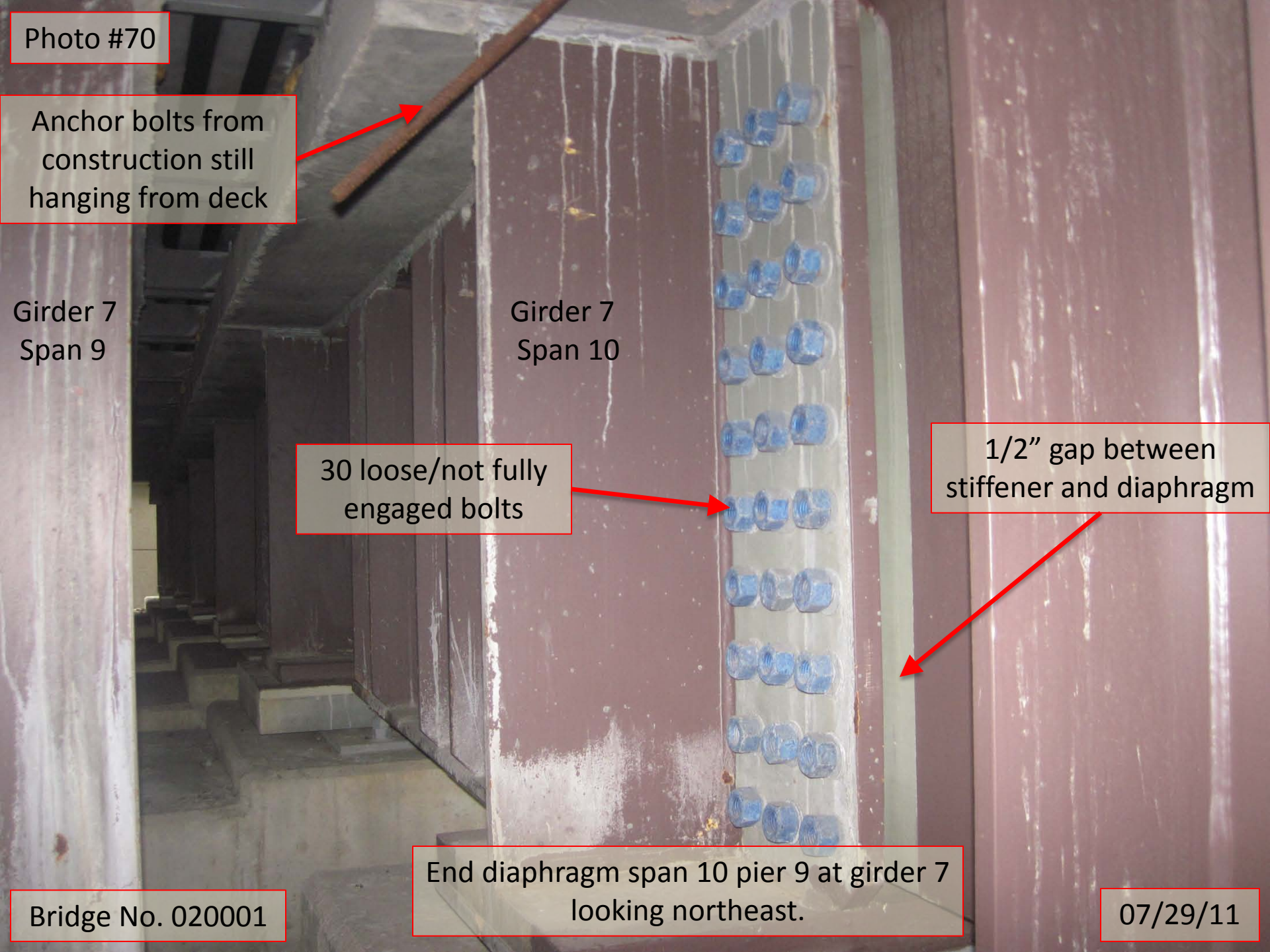
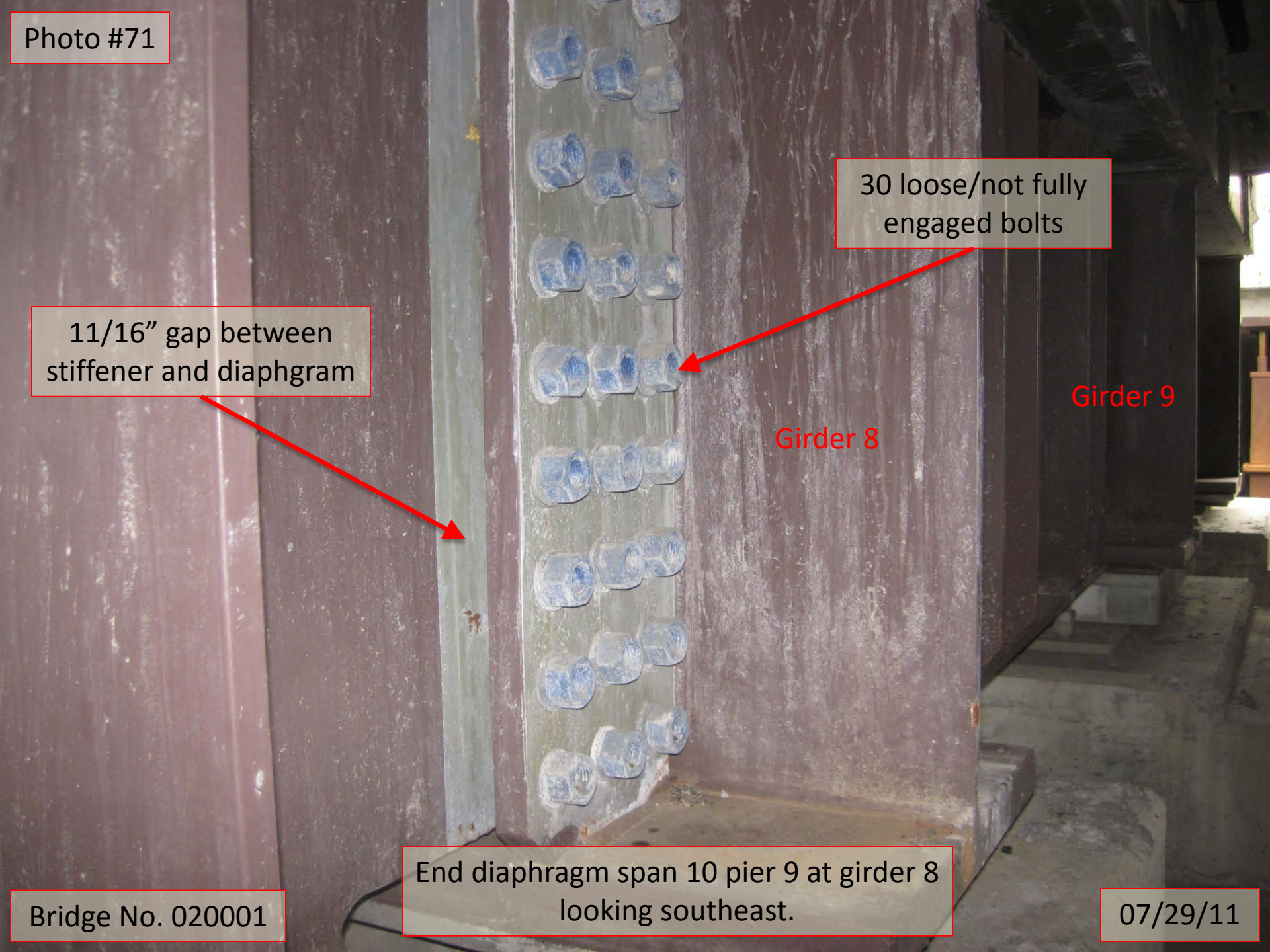

Photo #68
Leakage through construction joint
Typical interior diaphgram
Bridge No. 020001
Underside bay 7 span 10 looking west.
07/29/11


Photo #69
Connection bolts not painted
Girder 9
Full height vertical crack in backwall
Bridge No. 020001
Typical end diaphragm bay 8 at east abutment.
07/19/11


Photo #70
Anchor bolts from construction still hanging from deck
Girder 7 Span 9
Girder 7 Span 10
30 loose/not fully engaged bolts
1/2” gap between stiffener and diaphragm
End diaphragm span 10 pier 9 at girder 7 looking northeast.
Bridge No. 020001
07/29/11


Photo #71
30 loose/not fully engaged bolts
11/16” gap between stiffener and diaphgram
Girder 9
Girder 8
End diaphragm span 10 pier 9 at girder 8 looking southeast.
Bridge No. 020001
07/29/11

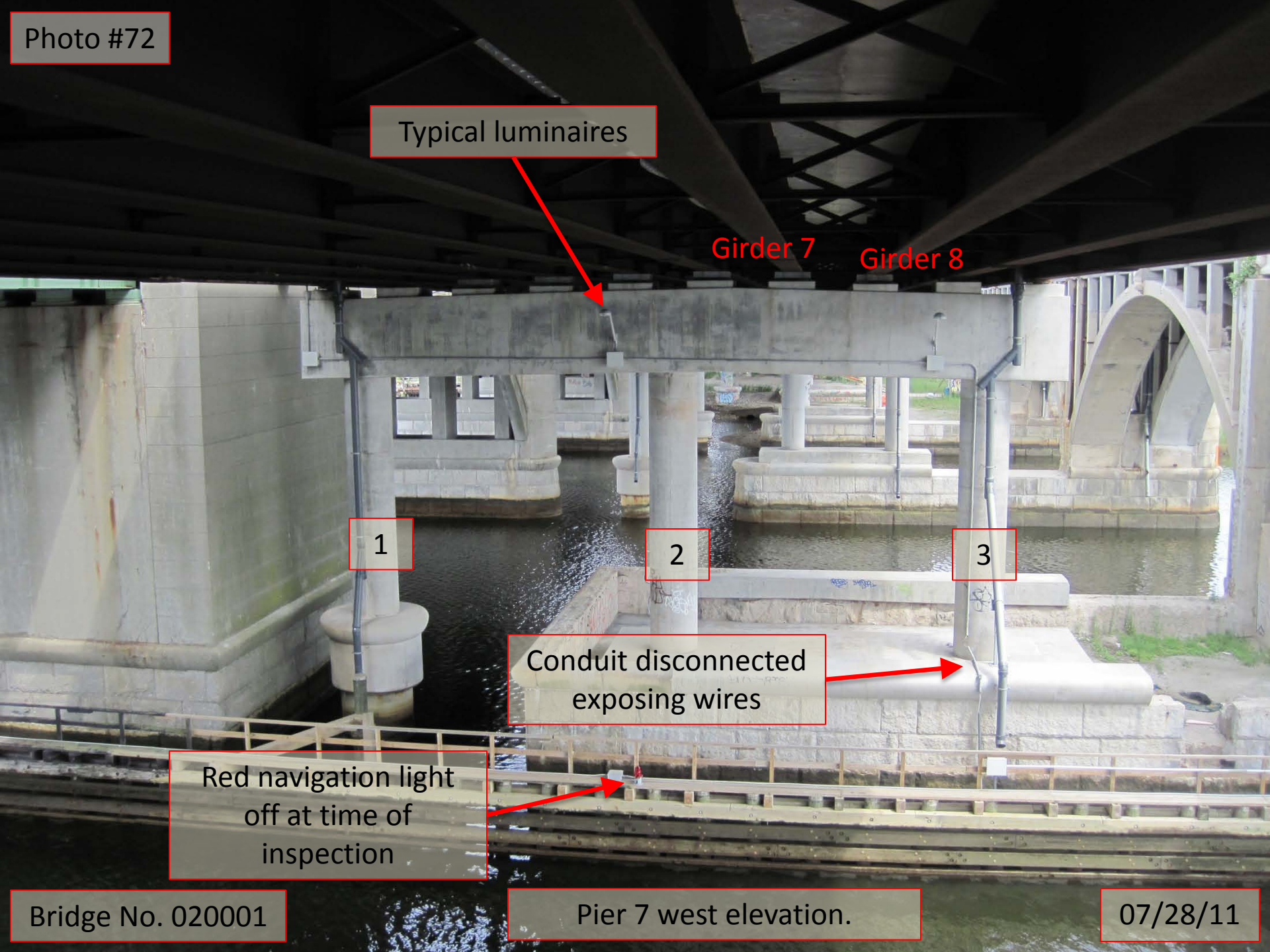

Photo #72
Typical luminaires
Girder 7
Girder 8
1
2
3
Conduit disconnected exposing wires
Red navigation light off at time of inspection
Bridge No. 020001
Pier 7 west elevation.
07/28/11


Photo #73
Disconnected conduit exposing wires
Bridge No. 020001
Conduit at pier 7 column 3 looking northeast.
07/29/11


Photo #74
3 of 4 anchor bolt covers missing
Bridge No. 020001
Light standard at north parapet in span 1 looking north.
08/03/11

Photo #75



Bridge No. 020001

South light standard at pier 6.

08/03/11



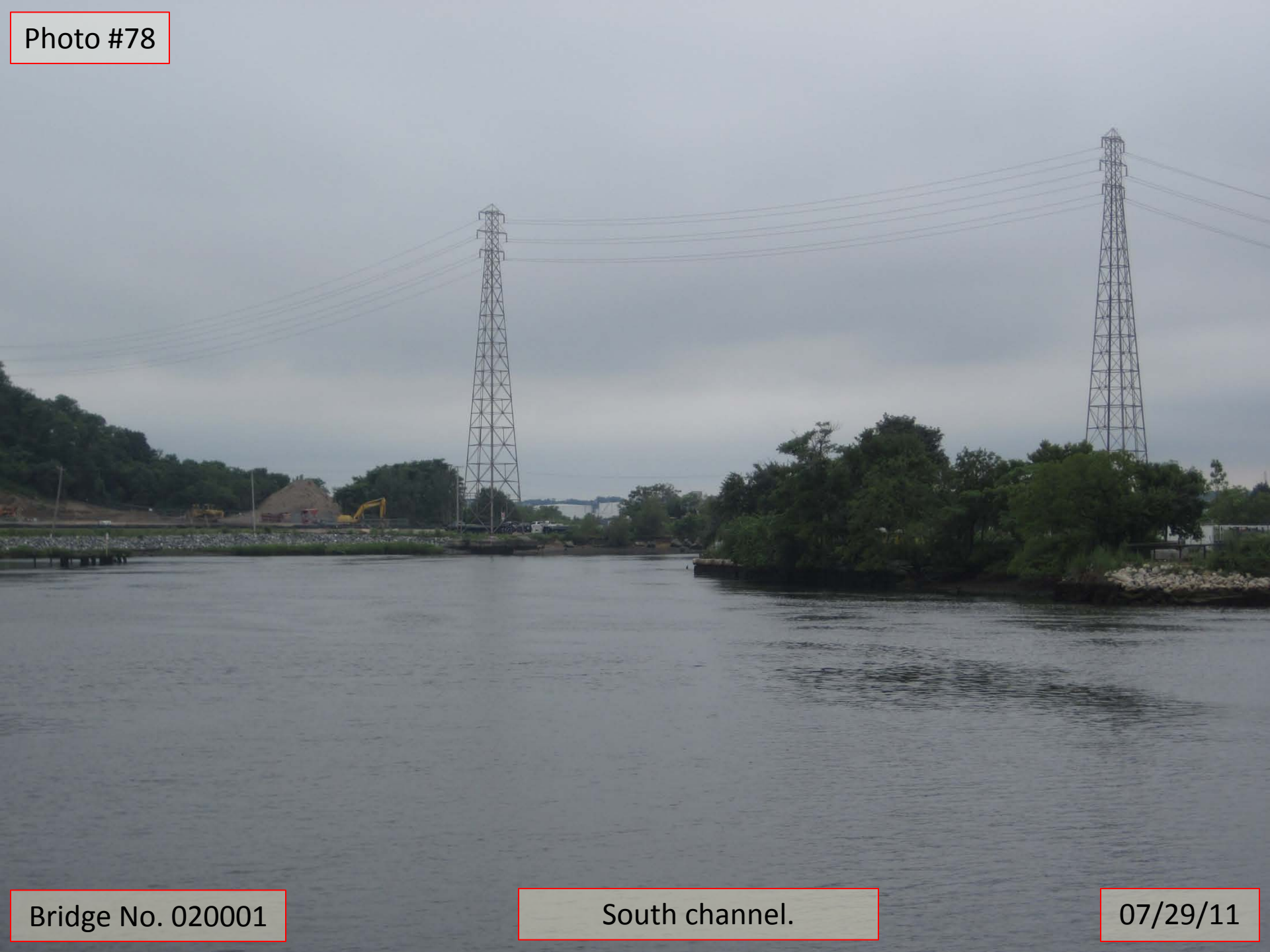
Photo #76

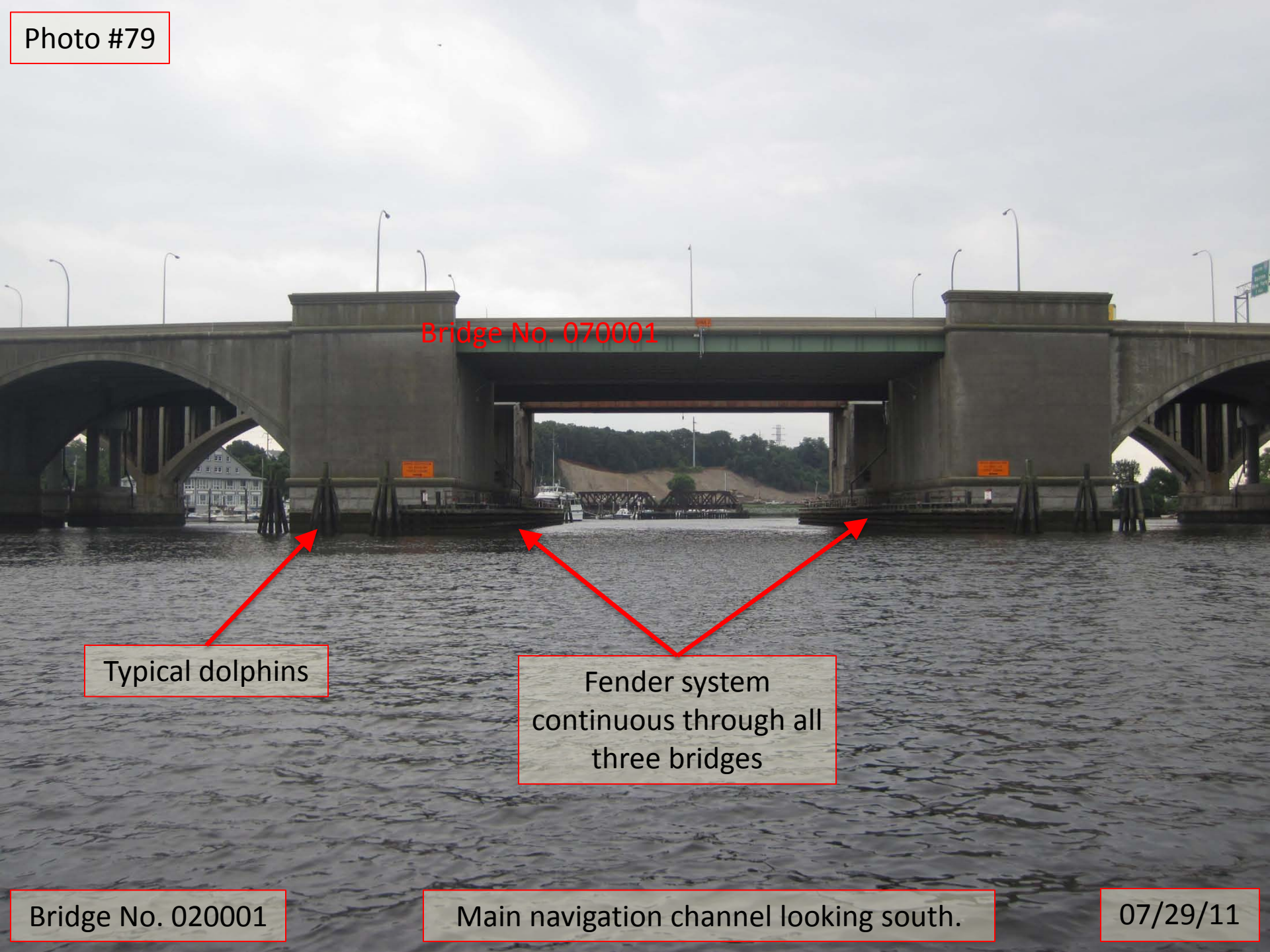
Bridge No. 020001

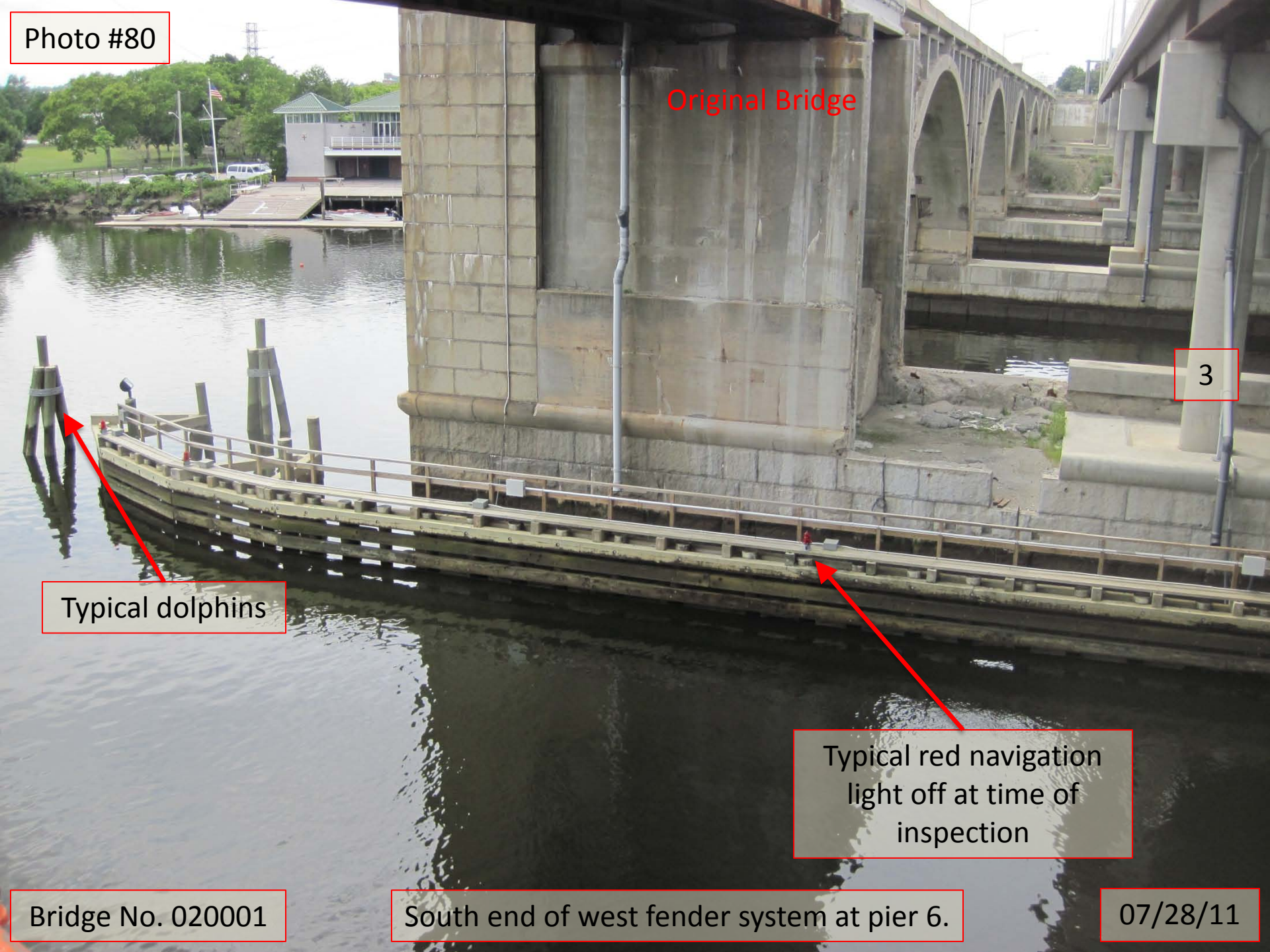
Overhead sign structure at pier 13 looking east.

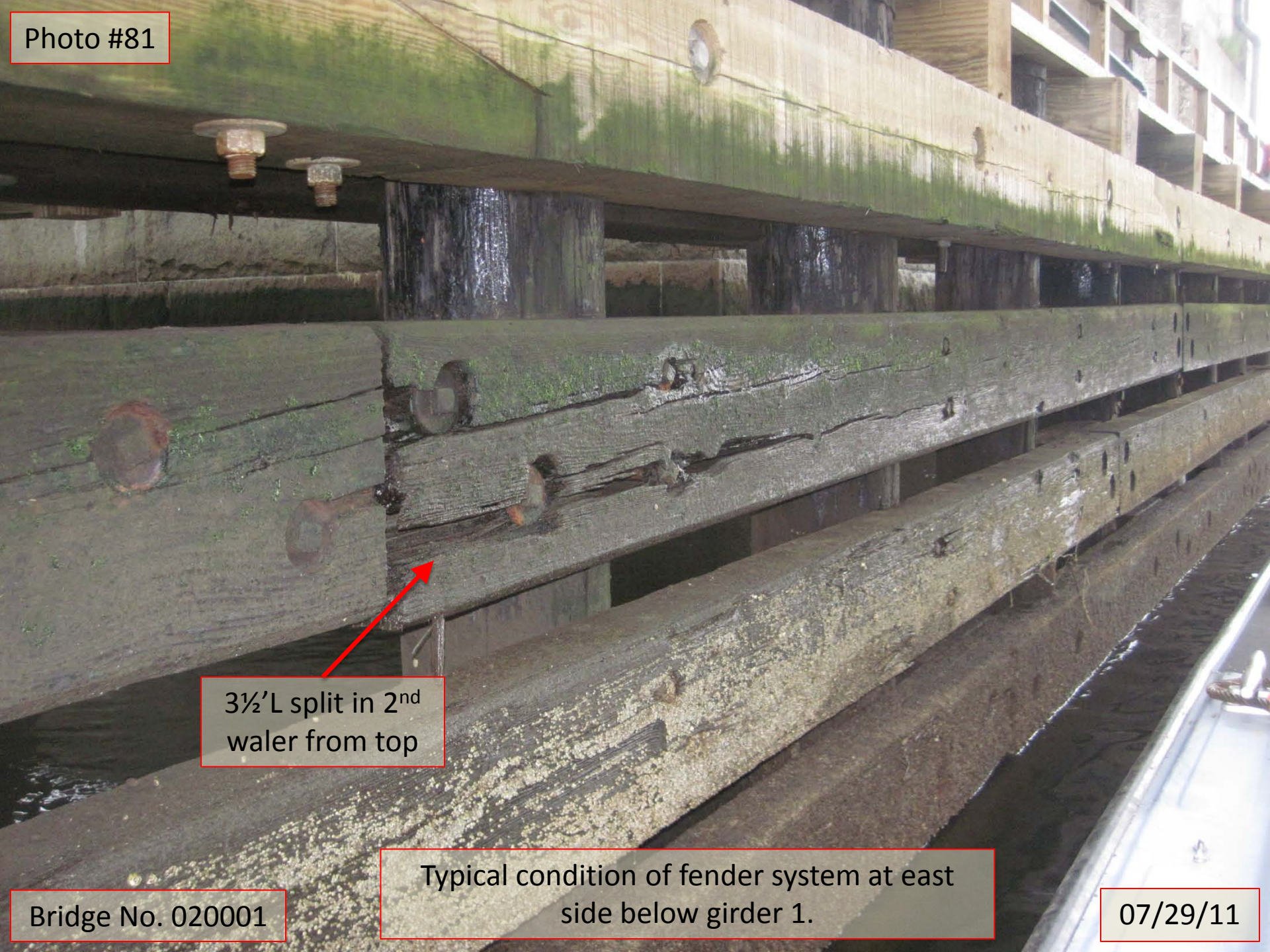
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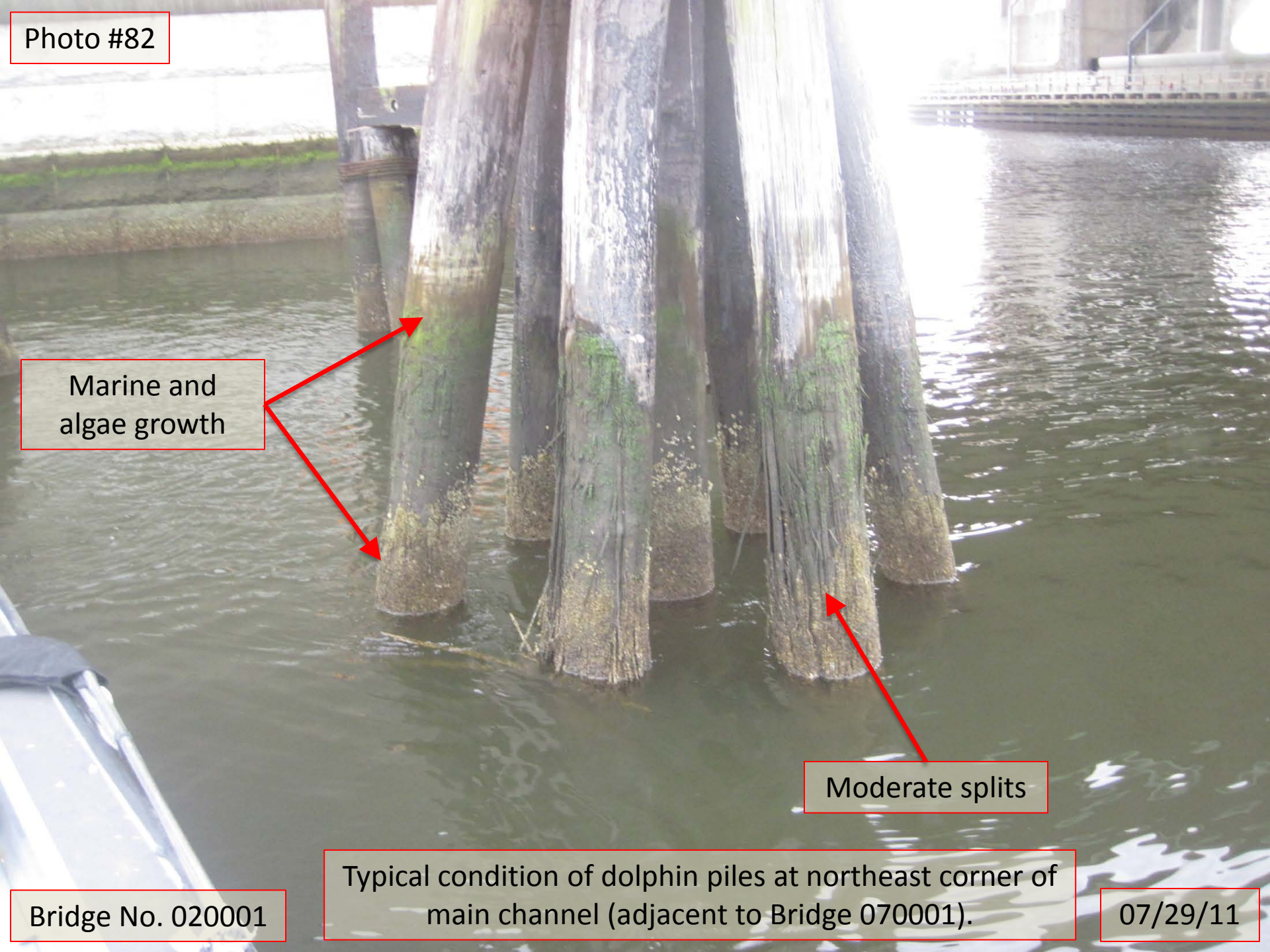

Photo #77
Bridge No. 020001
North channel.
07/26/11


Photo #78
Bridge No. 020001
South channel.
07/29/11


Photo #79
Bridge No. 070001
Typical dolphins
Fender system continuous through all three bridges
Bridge No. 020001
Main navigation channel looking south.
07/29/11


Photo #80
Original Bridge
3
Typical dolphins
Typical red navigation light off at time of inspection
Bridge No. 020001
South end of west fender system at pier 6.
07/28/11


Photo #81
3½'L split in 2nd waler from top
Typical condition of fender system at east side below girder 1.
Bridge No. 020001
07/29/11


Photo #82
Marine and algae growth
Moderate splits
Typical condition of dolphin piles at northeast corner of main channel (adjacent to Bridge 070001).
Bridge No. 020001
07/29/11