

Singer Island Bridges Inspection Photographs April 7, 2020

Contents

- Grand Bahama Lane Bridges Key Sheet
- Grand Bahama Lane Bridges Photos 1 to 8
- Island Drive Bridges Key Sheet
- Island Drive Bridges Photos 9 to 17

Summary - Grand Bahama Lane Bridges

The photos for Grand Bahama Lane (1 to 8) show severe concrete spalling and reinforcing steel corrosion on the underside of the concrete deck slabs that span between the main longitudinal support beams. Photos 1, 2 and 5 to 8 show significant concrete spalls resulting from the corrosion of the lower reinforcing steel. This has resulted in the reinforcing steel being fully exposed, which furthers the corrosion and loss of steel section. Photos 3 and 4 show some concrete spalling and reinforcing corrosion with areas of concrete delaminating from the slabs, which will result in further spalling and steel corrosion.

Summary – Island Drive Bridges

The photos for Island Drive (9 to 8) show longitudinal cracking, concrete spalling and reinforcing steel corrosion on the sides and bottom of the main longitudinal concrete support beams. Photos 9 to 13 and 15 and 16 show significant longitudinal cracking and concrete spalling resulting from corrosion of the steel reinforcing in the beams. The spalling has led to some of the reinforcing steel being fully exposed, which furthers the corrosion and loss of steel section. The longitudinal cracks will result in further concrete spalling as the steel reinforcing corrodes further, which will expose more steel and cause more steel corrosion. Photos 14 and 17 show significant longitudinal cracks resulting from corrosion of the reinforcing steel. This will result in future spalls and further steel corrosion.

Untitled Map

Write a description for your map.

Legend

Island Drive Bridges

Photos 7 & 8
Photo 5
Grand Bahama Ln

Photo 6
Photo 4

Photos 1 & 2
Photo 3

Google Earth

©2021 Google



100 ft

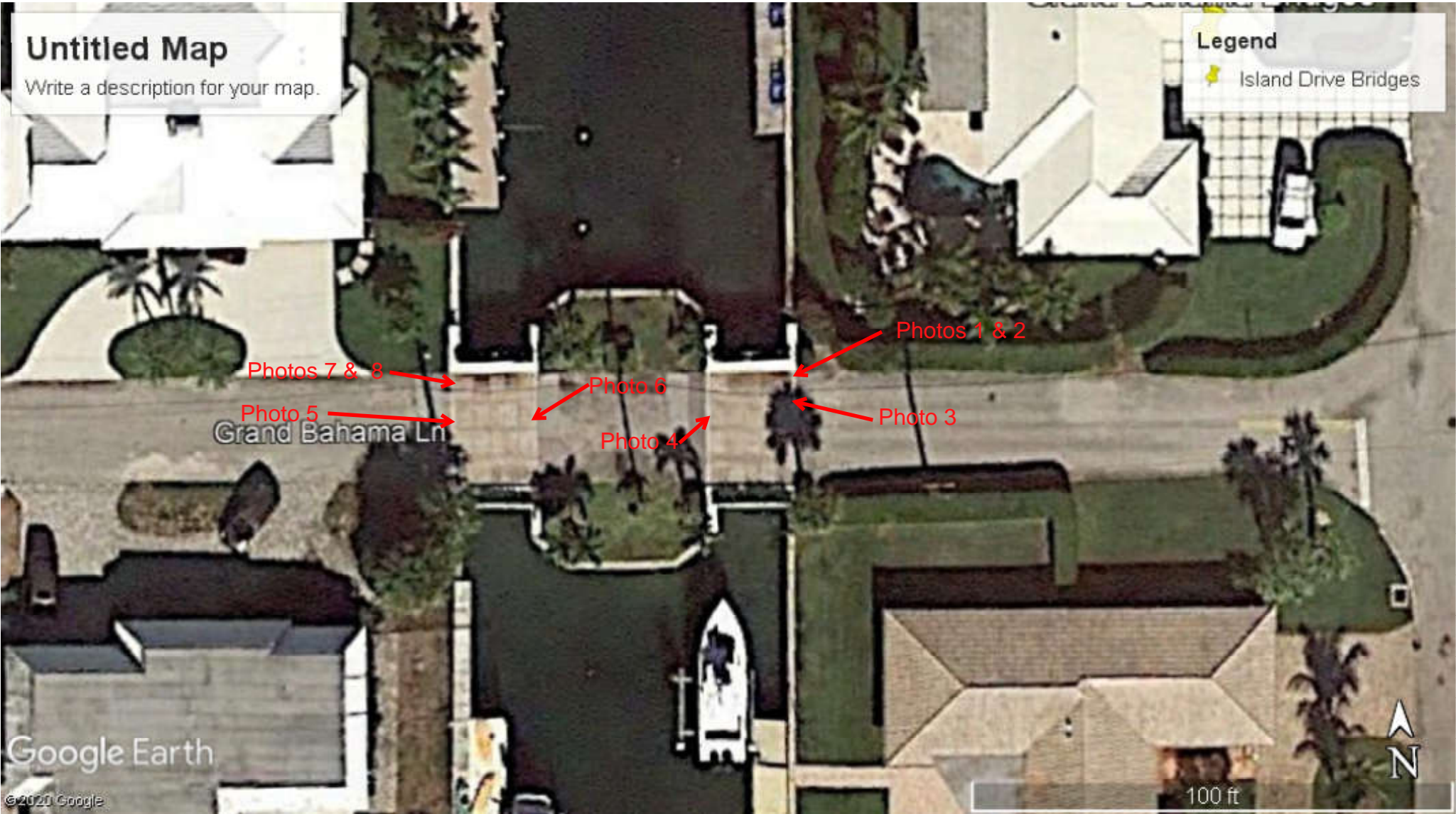




Photo 1: Grand Bahama Lane – East Bridge Underside of Deck



Photo 2: Grand Bahama Lane – East Bridge Underside of Deck



Photo 3: Grand Bahama Lane – East Bridge Underside of Deck



Photo 4: Grand Bahama Lane – East Bridge Underside of Deck



Photo 5: Grand Bahama Lane – West Bridge Underside of Deck



Photo 6: Grand Bahama Lane – West Bridge Underside of Deck



Photo 7: Grand Bahama Lane – West Bridge Underside of Deck





Photo 8: Grand Bahama Lane – West Bridge Underside of Deck

Untitled Map

Write a description for your map.

Legend

 Island Drive Bridges

 Island Drive Bridges

Island Dr

Photos 9 to 13

Photo 17

Photo 14

Photos 15 & 16

Google Earth



100 ft

© 2020 Google

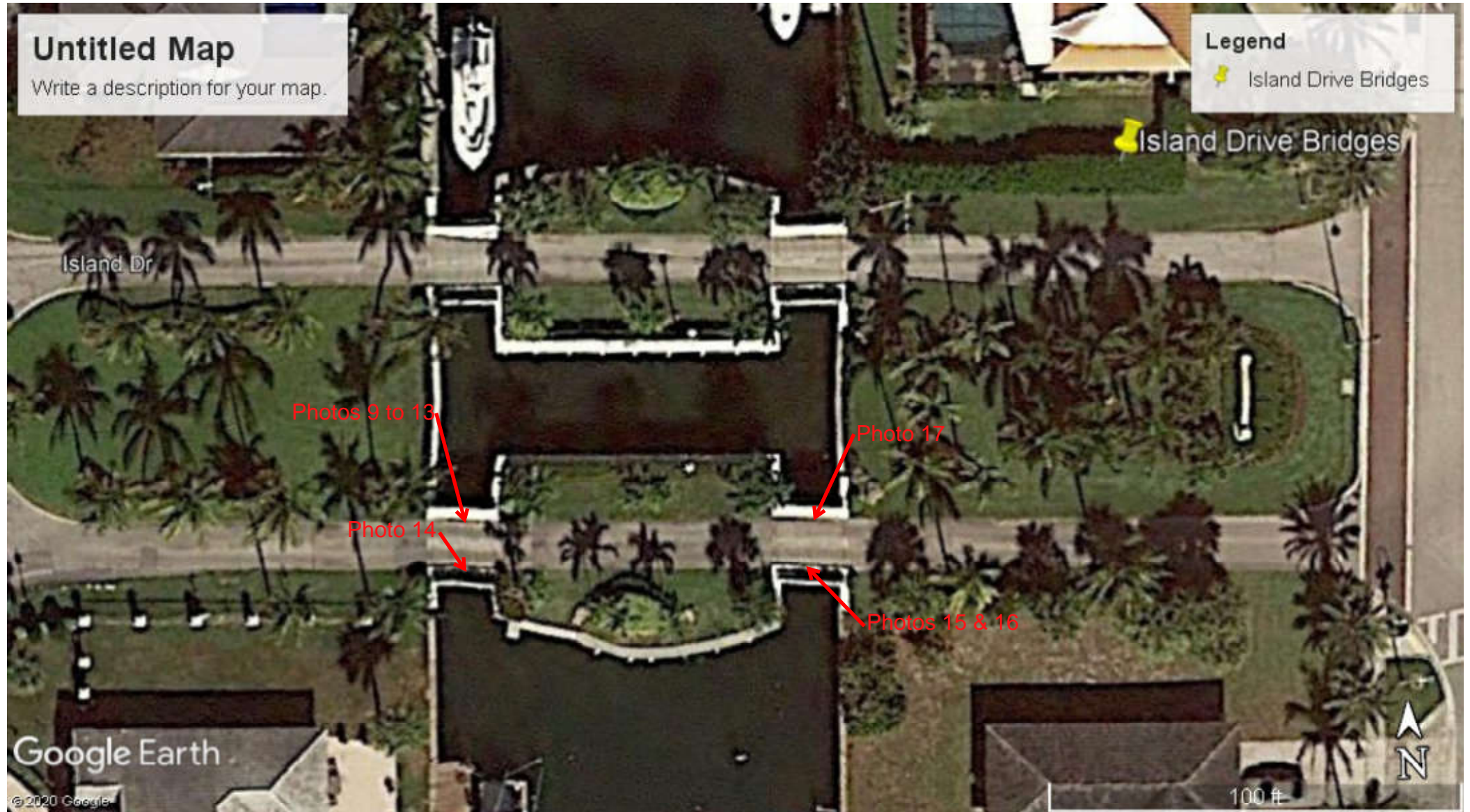




Photo 9: Island Drive – SW Bridge Outer Beam North Side



Photo 10: Island Drive – SW Bridge Outer Beam North Side



Photo 11: Island Drive – SW Bridge Outer Beam North Side



Photo 12: Island Drive – SW Bridge Outer Beam North Side



Photo 13: Island Drive – SW Bridge Outer Beam North Side



Photo 14: Island Drive – SW Bridge Outer Beam South Side



Photo 15: Island Drive – SE Bridge Outer Beam South Side



Photo 16: Island Drive – SE Bridge Outer Beam South Side



Photo 17: Island Drive – SE Bridge Outer Beam North Side
