

Memorial Bridge



Aerial view looking East towards the Portsmouth Naval Shipyard



Commemorative WW I plaque on South end of
Memorial Bridge in Portsmouth NH

Bridge opening for commercial
fishing boat





Span 2

Severe deterioration on bottom Chord L5-L6, Interior Face with
wooden sidewalk walking surface above



Span 1 Bottom Chord L8-L9, East Exterior Face
Typical Condition at Fixed Span Bottom Chords between panel points



Span 1 Gusset Plate L9 East with repair, plate from previous repair
Roadway floor beam (left) framing into interior face of bottom truss chord
(right)



Span 1 Gusset Plate L7 East horizontal gusset plate between roadway floor beam and the fixed span truss bottom chord.



Span 1, Bay 8, Stringer 7 (East Roadway Stringer)
Typical stringer condition at metal drain pipe



Span 1 Gusset Plate L7 East
Roadway floorbeam/bottom truss chord connection - wooden sidewalk walking surface
above



Span 1, Floorbeam 6, North Face
Typical condition in roadway floor beams near chords



Span 1 Bottom Chord L2-L3, East Exterior Face
Typical Fixed Span Bottom Chord Condition between truss panel points



Span 1 Bottom Chord L4-L5, East Exterior Face
Typical Fixed Span Bottom Chord Condition between truss panel points



Span 3 Bottom Chord L3-L4, West Exterior Face
Typical Lacing and rivet head Deterioration



Span 3 Gusset Plate L3 East Interior with severe section loss
Roadway beam (right) framing to the bottom truss chord (lower left)



Span 3 Bottom Chord L3-L4, West Exterior Face



Inside of Chord at Gusset L9 in Span 3.
Deteriorated lacing in the foreground and a deteriorated internal stiffener plate center.
Truss diagonal seen just above internal stiffener plate



Span 3 Floorbeam 9, South Face, East End
Heavily deteriorated with holes in web of roadway floor beam
Roadway Floorbeam has been previously repaired as evidenced by bolts.



Span 3 Gusset Plate L9 East Interior face of bottom chord
with severe deterioration



Top chord looking south from U2 looking towards Portsmouth. Rivets replaced by bolts in previous repair. Gaps between bolts suggest severely deteriorated rivet heads



U1 Lateral bracing on top chord, typical example of 1" pack rust between gusset plate and framing members