

25/06/08. PP. 24 South west side span.

Bolt change information. Original bolt on checklist As Bolt "A" 55 located machine 183 band 3 . New bolt "A" 147 located machine 183 band 1.
Bolt L.REF. 662.29. Bolt gain value 185.

(Information only) *** Temporary cable band bolt pressure 16,500 P.S.I.

Removal of defective bolt began at 10.13 am.
E.S.M. requested Hydra-tight to turn bolt a half turn.
E.S.M. requested Elongation readings to be taken on bolts B-F
Time 11.16. Temp 15c
Readings as. Bolt A- None taken.
Bolt B.- 2.04
Bolt C.- 1.92
Bolt D.- 2.16
Bolt E.- 2.12
Bolt F.- 2.17

Time 11.20. Temp 15c
E.S.M. requested Hydra-tight to turn bolt a full turn.
E.S.M. requested Elongation readings to be taken on bolts B-F
Readings as. Bolt A- None taken.
Bolt B.- 1.99
Bolt C.- 1.71
Bolt D.- 2.13
Bolt E.- 2.12
Bolt F.- 2.15

Time 11.25. Temp 15c
Bolt found to be loose. E.S.M. requested removal of bolt..
Bolt removed at 11.30.
No problems arose removing defective bolt & replacing with new bolt.

Time 11.55. Temp 15c
New bolt taken up to pressure of 13,050 P.S.I.
with proposed load of 496 K/N.
Bolt "A" at requested pressure on specified gain value of bolt. Elongation reading recorded at 1.18.
E.S.M. requested Elongation readings to be taken on bolts B-F
Readings as. Bolt A- None taken.
Bolt B.- 1.98
Bolt C.- 1.73
Bolt D.- 2.15
Bolt E.- 2.16
Bolt F.- 2.19

Time 12.20. Temp 15c

E.S.M. requested that Hydra – tight take pressure up to 21, 349 P.S.I.

Time 12.30. Temp 16c

E.S.M. requested Elongation readings to be taken on bolts A-F

Pressure off.

Readings as. Bolt A- 2.25 .

Bolt B.- 1.92

Bolt C.- 1.95

Bolt D.- 2.12

Bolt E.- 2.30

Bolt F.- 2.32

Time 12.40. Temp 16c

Readings not satisfactory.

E.S.M. requested that Hydra – tight take pressure up again.

Time 12.45. Temp 16c

Pressure off.

E.S.M. requested Elongation readings to be taken on bolts A-F

Readings as. Bolt A- 2.30 .

Bolt B.- 2.34

Bolt C.- 2.03

Bolt D.- 2.31

Bolt E.- 2.34

Bolt F.- 2.39

Following readings

E.S.M. requested that Hydra – tight take pressure up again.

Time 12.55. Temp 17c.

Pressure on.

E.S.M. requested Elongation readings to be taken on bolts A-F

Readings as. Bolt A- 2.72 .

Bolt B.- 2.79

Bolt C.- 2.47

Bolt D.- 2.73

Bolt E.- 2.75

Bolt F.- 2.79

Time 1300. Temp 17c.

Pressure off.

E.S.M. requested Elongation readings to be taken on bolts A-F

Readings as. Bolt A- 2.36 .

Bolt B.- 2.39

Bolt C.- 2.07

Bolt D.- 2.33

Bolt E.- 2.34

Bolt F.- 2.41.

Time 1305. Temp 17c.

E.S.M. requested that Hydra – tight take pressure up to 22,000 P.S.I.

Time 1318. Temp 16c.

E.S.M. requested Elongation readings to be taken on bolts A-F

Pressure off.

Readings as. Bolt A- 2.38 .

Bolt B.- 2.44

Bolt C.- 2.12

Bolt D.- 2.39

Bolt E.- 2.40

Bolt F.- 2.45.

All bolts reached elongation values to the satisfaction of E.S.M, WITH THE exception of bolt “ B “. Hydra – tight requested to take pressure up on this bolt only.

Time 13.18. Temp 16c.

E.S.M. requested Elongation reading to be taken on bolt “B “ only.

Reading 2.48.

Time 13.25 Temp 16c.

E.S.M. satisfied with all Elongation readings although bolt “ B “ remains slightly lower than required “ ideal “ Elongation reading required of (ie. 2.61)

Bridge inspector.