

STRAND TENSIONING REPORT

To be completed by the QA inspector, combined with all other fabrication documentation, and electronically submitted to the MDOT Structural Fabrication Unit.

REPORT #

GENERAL INFORMATION						
INSPECTION AGENCY			INSPECTOR		DATE	
FABRICATOR / LOCATION					MDOT ID	
JOB DESCRIPTION						
STRAND MANUFACTURER			ELEMENT MARK(S)		JOB NUMBER	
HEAT #			REEL #(s)			
HEAT #			REEL #(s)			
SEQUENCE	LOCATION	MEASURED ELONGATION	ACTUAL GAUGE READING	TENSIONING CALCULATIONS		
				INPUTS		
1				INITIAL FORCE		LB
2				FINAL FORCE		LB
3				STRAND AREA (A)		IN ²
4				STRAND LENGTH (L)		IN
5				MODULUS OF ELASTICITY		PSI
6				STRAND TEMPERATURE		° F
7				CONCRETE TEMPERATURE		° F
8				DEAD END SEATING		IN
9				LIVE END SEATING		IN
10				BED SHORTENING		IN
11				SPLICE CHUCK SEATING		IN
12				ABUTMENT ROTATION		IN
13				OUTPUTS		
14				APPLIED FORCE (P)		LB
15				* DIFFERENTIAL TEMPERATURE		° F
16				BASIC ELONGATION		IN
17				LIVE END SEATING (OVERPULL)		LB
18				BED SHORTENING (OVERPULL)		LB
19				** THERMAL FORCE CORRECTION		LB
20				** THERMAL ELONGATION CORRECTION		IN
21				GROSS ELONGATION		IN
22				NET ELONGATION		IN
23				GROSS FORCE		LB
24				NOTES		
25				<ul style="list-style-type: none"> • Basic Elongation is calculated using the applied force. • Gross Elongation is the elongation before live end seating. • Net Elongation is the elongation after live end seating and bed shortening (if applicable). • Strand Location is numbered from left to right, and from bottom to top. * Positive value denotes positive elongation and pull correction. ** Thermal Correction applies when differential temperature is greater than 25° F (positive or negative). 		
26						
27						
28						
29						
30						
31						
32						
33						
34						

SEQUENCE	LOCATION	MEASURED ELONGATION	ACTUAL GAUGE READING	COMMENTS
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				

