

Maine Department of Transportation  
Field Inspection of Trinity Highway's  
MATT Safety Hardware System on Maine Highways

Project No.		Date		Inspector	
LAT		LONG		Installer	

**Ensure that proper installation procedures were used during initial installation and/or maintenance:**

**Scoring**

- 1 - Meets all requirements and within tolerances
- 2 - Meets all but one of the requirements and/or within 1in. of tolerances
- 3 - More than one part of the criteria not met and/or more than an 1in. outside tolerances

1. Ensure proper site grading complies with state/specifying agency guidelines and/or AASHTO Roadside Design Guide, whichever is more stringent.

**Score** \_\_\_\_

2. Ensure required traffic control is in place to conduct MATT™ assembly.

**Score** \_\_\_\_

3. Ensure only Valtir provided MATT™ parts are used for the assembly of the MATT™ and that all parts are free of damage.

**Score** \_\_\_\_

4. Under NO circumstances shall the rail within the MATT™ be curved, between Post 1 and Post 6. Ensure all MATT™ post spacings are 6'-3" [1.905 m] on center.

**Score** \_\_\_\_

5. Ensure the Strut Hole of the MATT™ CR Post 1 Bottom with Soil Plate is **upstream** and the Post is 4" [100 mm] (+1", -0") [+25 mm, -0 mm] above the finished grade.

**Score** \_\_\_\_

6. Ensure Soil Plates are installed on the downstream side of Posts 1-6

**Score** \_\_\_\_

7. Ensure the center of the SYTP® yielding holes at Posts 2-5 are approximately centered at finished grade.

**Score** \_\_\_\_

8. Ensure the MATT™ Strut Adapter Plate (at Post 2) and Strut are installed between Post 1 and 2 on the post side OPPOSITE the closest traffic, when assembled in a Median or Roadside application. When assembled in a Gore application, it is acceptable to place them on either side of the post(s).

**Score** \_\_\_\_

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9. Ensure the toe of the Strut's vertical leg is pointed down.

**Score** \_\_\_\_

10. Ensure the downstream slotted holes in the MATT™ Double Spacer is bolted to the downstream hole of the MATT™ CR Post 1 Top and the MATT™ SYTP® (Post 2).

**Score** \_\_\_\_

11. Ensure the upstream slotted hole in the MATT™ Spacer (Posts 3-5) is bolted to the MATT™ SYTP® with Soil Plate using the upstream hole in the post.

**Score** \_\_\_\_

12. Ensure all MATT™ Guardrails are installed 31" [787 mm] (+1", -0") [+/- 25 mm, -0] from finished grade.

**Score** \_\_\_\_

13. Ensure all MATT™ 12 Gauge Transition Guardrails with Fin-4, at post location 6, are lapped in the direction of the nearest adjacent traffic and fins are positioned upstream.

**Score** \_\_\_\_

14. Ensure the MATT™ 12 Gauge, Slotted Intermediate Guardrails with Fin-3 are lapped to the outside of the MATT™ 12 Gauge Transition Guardrails with Fin-4.

**Score** \_\_\_\_

15. Ensure the MATT™ 12 Gauge, Slotted Intermediate Guardrails with Fin-3 are lapped to the outside of the MATT™ 12 Gauge, Slotted Intermediate Guardrails with Fin-3.

**Score** \_\_\_\_

16. Ensure the MATT™ 12 Gauge, Slotted Intermediate Guardrails-2 are lapped to the outside of the MATT™ 12 Gauge, Slotted Intermediate Guardrails with Fin-3.

**Score** \_\_\_\_

17. Ensure the MATT™ 10 Gauge, Slotted Front Guardrails-1 are lapped to the outside of the MATT™ 12 Gauge, Slotted Intermediate Guardrails-2.

**Score** \_\_\_\_

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18. Ensure the MATT™ 10 Gauge Head Rails are **lapped to the outside** of the MATT™ 10 Gauge Slotted Front Guardrails-1.

**Score** \_\_\_\_

19. Ensure the MATT™ Backing Plate is **assembled on the outside** of the MATT™ Guardrail Panels at Posts 2, 3, 4 and 5.

**Score** \_\_\_\_

20. Ensure the 5/8" heavy flat washers (1/4" thick) are placed between the nut and spacers at Posts 1-5.

**Score** \_\_\_\_

21. Ensure the MATT™ Head Tube is attached to the MATT™ Impact Head and it is less than 1/4" [6mm] from the MATT™ CR Post 1 Top.

**Score** \_\_\_\_

22. Ensure all MATT™ fasteners identified in Step 16 are **torqued to 65 ft-lb [88 Nm], (+/- 3 ft-lb) [+/- 4 Nm]**.

**Score** \_\_\_\_

23. Ensure all MATT™ fasteners that are NOT required to be torqued are tightened to a snug position with a minimum of two (2) bolt threads protruding beyond the nut.

**Score** \_\_\_\_

24. Ensure the Cable Anchor Bracket Angle is hooked over the MATT™ CR Post 1 Top and the cable is taut.

**Score** \_\_\_\_

25. Ensure delineation is placed on the MATT™ Impact Head per MUTCD and/ or state/specifying agency.

**Score** \_\_\_\_

26. Ensure any steel delineator posts are a minimum of 3'-0" [1 m] upstream from the MATT™ Impact Head.

**Score** \_\_\_\_