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**Professional Opinion 18-23
In-Line Anchor**

**Roadside Safety Pooled Fund
Engineering Support/Professional Opinion Project**

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Professional Opinion 18-23: In-Line Anchor

Pennsylvania Department of Transportation (PennDOT) submitted a detailed drawing (see Figure 1) of a strong post in-line anchor system for review under the Roadside Safety Pooled Fund Engineering Support/Professional Opinion project. PennDOT has asked TTI researchers to find the deflection of the in-line anchor system and if the system is MASH compliant. Due to a lack of previous testing performed on this system or similar systems, TTI researchers could not provide a professional opinion answering these questions. TTI researchers believe that detailed Finite Element (FE) simulation analysis and/or crash testing is required to investigate the deflection and MASH compliance of this system. Therefore, TTI researchers suggest the development of a Research and Development project to properly address the submitted questions from PennDOT regarding the strong post in-line anchor system.

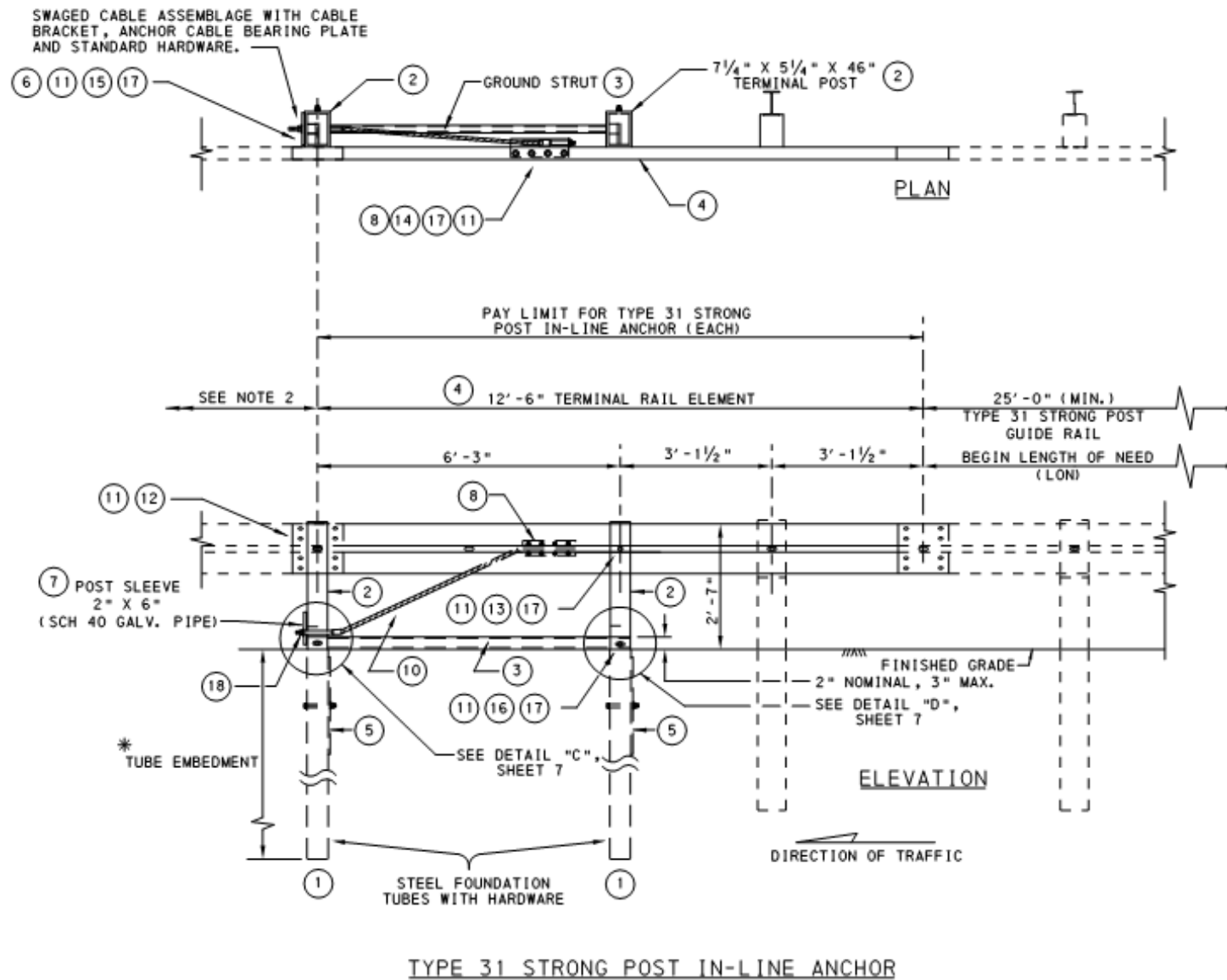


Figure 1. PennDOT Detailed Drawing of Strong Post In-Line Anchor System.