

Inspector Quantlist Report 20200313

Diary Number: \_\_\_\_\_

Inspector Name: \_\_\_\_\_

TRACS Number: \_\_\_\_\_

Date: \_\_\_\_\_

Division IX: Incidentals

Title: SoftStop Tangent Terminal MASH TL-3 (50' - 9 1/2")

Admin Instructions: Use this Quantlist with Manufacturers Assembly Manual supplied by the Manufacturer/Contractor/Subcontractor or download the Manual from [www.trinityhighway.com](http://www.trinityhighway.com)

Plan Reference:
Route:
Offset from edge line:
Begin Station:
End Station

Attribute Numbers	Weight	Narratives	References
0.	Minor	All stakeholders participated in the pre-activity meeting.	Construction Bulletin 02-01
1.	Minor	Certificates of Compliance or Certificates of Analysis conforming to the requirements of Subsection [106.05] shall be submitted.	Standard Specifications 1012-1 Standard Specifications 106.05 Standard Specifications 905-2
2.	Minor	The Contractor furnished Certificates of Compliance conforming to the requirements of Subsection 106.05, which state that steel or iron products incorporated in the project meet the "Buy America" Act requirements certifying that all manufacturing processes producing a steel or iron product, including any application of a coating to iron or steel, occurred in the United States.	23 CFR Part 635 Special Provisions 106.15 Standard Specifications 106.05
3.	Critical	AZ811 or Blue stake is done before placement of the post (locating utility, pipes, box culverts and sleeves).	Standard Specifications 107.15
4.	Minor	For other than High Strength Anchor Bolts, Certificate of Compliance required and three samples per lot, or 0.1% of lots in excess of 3000, for each bolt diameter, including nuts and washers.	Construction and Materials, Materials Quality Assurance. Appendix C 1012
5.	Critical	When a traffic control plan is included in the project plans, this plan shall	Standard

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		govern unless an alternate plan, acceptable to the Engineer, is submitted by the contractor.	Specifications 701-1
6.	Minor	Earthwork placement, grading, compacting, and bituminous surfacing shall be completed prior to installation of posts for guardrail terminals.	Standard Specifications 905-3.10
7.	Minor	The Bituminous approach and widening is built to plans dimensions.	Layout For MAX-Tension Terminal Pad C10.20
8.	Major	The Bituminous approach and widening matches the cross slope of the existing roadway.	Layout For MAX-Tension Terminal Pad C10.20
9.	Critical	Place all System Rail panels (DD) & Anchor Rail (B) on the traffic side of the posts and lap all System Rail panels in the direction of traffic as shown above using shown hardware.	SoftStop System End Terminal Assembly Manual.(P.29 & P.32) Standard Specifications 905-3.01
10.	Critical	Only Trinity Highway SoftStop System parts are used for the assembly of the System and all parts are free of damage.	SoftStop System End Terminal Assembly Manual. (Assembly Checklist P.40)
11.	Critical	Proper site grading must be accomplished before assembly of the SoftStop® System in accordance with local agency guidelines and the AASHTO Roadside Design Guide.	Project Plans SoftStop System End Terminal Assembly Manual. (P.14)
12.	Major	Soil around all posts is properly compacted and posts are free to rotate and only state/specifying agency approved backfill material is within the leave-out area.	SoftStop System End Terminal Assembly Manual. (Assembly Checklist P.40)
13.	Critical	The SoftStop System offset does not exceed max allowed by test level and radii. Convex Curve For radii of 650 feet or greater (flatter), the offset is 0 feet to 2 feet. Concave Curve For radii between 500 feet and 750 feet, the offset is 0 feet to 1.5 feet. For radii greater (flatter) than 750 feet, the offset is 0 feet to 2 feet.	SoftStop System End Terminal Assembly Manual. (P.17)
14.	Critical	Ensure Post 0 stub height does not exceed 3 1/2" above finished grade.	SoftStop System End Terminal Assembly Manual. (P.25)
15.	Critical	Center of the SYTP® yielding holes are approximately centered at finished grade line for Post 1 & 2.	SoftStop System End Terminal Assembly Manual. (P.25)
16.	Critical	Do not bolt the SoftStop® Anchor Rail to Post 2.	SoftStop System End Terminal Assembly Manual. (P.32)
17.	Critical	For W beam Guardrail, the Routed Wood or Composite blockouts are 6"x12" in dimension.	ADOT Construction Standard Drawings C-10.03
18.	Major	Ensure that the SoftStop® System Rail height is approximately 31" above the finished grade.	SoftStop System End Terminal

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			Assembly Manual. (P.40) & (P.24)
19.	Critical	Mechanically push the SoftStop® Impact Head (Part A) until its Connection Bracket rests against Post 1 and a minimum 18" of the SoftStop® Anchor Rail is protruding out the Chute. 3. Fasten Post 1 and the Connection Bracket together.	SoftStop System End Terminal Assembly Manual. (P.34)
20.	Critical	Ensure the SoftStop® Impact Head Connection Bracket is attached to the front side of SoftStop® Post 1 (SYTP®) with required 5/16" hardware.	SoftStop System End Terminal Assembly Manual. (P.40)
21.	Critical	The elevation of the Impact Head can vary a maximum of 2 1/4" higher at Point A relative to Point B. Point.	SoftStop System End Terminal Assembly Manual. (P.40) & (P.22)
22.	Major	Place the SoftStop® Keeper Plate (Part K) and SoftStop® Plate Washer (Part L) onto the SoftStop® Anchor Paddle Rod and fasten to Post 0 using shown hardware (Part O, Y, CC)	SoftStop System End Terminal Assembly Manual. (P.37)
23.	Critical	The SoftStop Anchor Post (Post 0) has a maximum height of 4" and a minimum height of 3-3/4" above finished grade line.	SoftStop System End Terminal Assembly Manual. (P.21) & (P.40)
24.	Critical	Ensure the 1" Hex Nut has been fully tightened against the SoftStop® Plate Washer.	SoftStop System End Terminal Assembly Manual. (P.37)
25.	Critical	Position the SoftStop® Anchor Angles (Part M) onto Post 0 and place SoftStop® Angle Strut on the non-traffic side with short leg down and fasten to Post 0 & 1 using shown hardware (Part R, S, X, BB)	SoftStop System End Terminal Assembly Manual. (P.38)
26.	Major	Ensure the SoftStop® Angle Strut is properly attached on the non-traffic side with the short leg down.	SoftStop System End Terminal Assembly Manual. (P.40)
27.	Major	Ensure that all fasteners of the SoftStop® System are tightened to a snug position.	SoftStop System End Terminal Assembly Manual. (P.40)
28.	Major	The delineation on the Extruder head conforms to the plan detail or Signing and Marking Standard Drawing.	Signing and Marking Standard Drawings M-34
29.	Major	The color of the reflective portion of the barrier markers conform to the color of the adjacent edge line.	Standard Specifications 905-3.11 (A)
30.	Major	For elevations of 4,000' and higher, the mounting height of the flexible guardrail markers from the top of the reflective sheeting is approximately 38" ± 2 inches above the surface of the adjacent roadway.	Standard Specifications 905-3.11(B)
31.	Major	Flexible vertical delineators shall be installed on the side of the post facing oncoming traffic, level and true.	Standard Specifications 905-3.11 (A)
32.	Major	Assembly Checklist (Complete & File With Project Folder) (P.40)	SoftStop System End Terminal Assembly Manual.
33.	Minor	Quantlist Minimum Frequency is being followed, One per installation.	Construction Bulletin 07-01