

Inspector Quantlist Report 20190613

Diary Number: _____ Inspector Name: _____

TRACS Number: _____ Date: _____

Division IX: Incidentals
 Title: Max Tension Tangent Terminal MASH TL-3
 (Steel Posts, 6" x 8" Wood Blockouts)

Admin Instructions: Use this Quantlist with Manufacturers Assembly Manual supplied by the Manufacturer/Contractor/Subcontractor or download the Manual from <http://www.barriersystemsinc.com/maxtension-mash-end-treatment>

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

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5.	Critical	When a traffic control plan is included in the project plans, this plan shall govern unless an alternate plan, acceptable to the Engineer, is submitted by the contractor.	Standard 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 C10.22
8.	Major	The Bituminous approach and widening matches the cross slope of the existing roadway.	Layout For MAX-Tension Terminal Pad C10.22
9.	Critical	Slot on post 1 is on upstream end of the system.	Installation Manual (Pg. 16, Step 1)
10.	Major	Only posts 2-9 require a Blockouts! Do not install Blockout on post 1	Installation Manual (Pg. 18, Step 3)
11.	Critical	System height shall be 31" +/- 1"	Installation Manual (Pg. 16, Step 1)
12.	Critical	System installed without offset or with allowable offset of 0-2 ft.	Installation Manual (Pg. 16, Step 1)
13.	Critical	Rail 1 and rail 2 are spliced with the guardrail Bolts shall be installed with the bolt heads on the non-traffic side and nuts on the traffic side.	Installation Manual (Pg. 24, Step 9)
14.	Critical	Slider Joint - traffic side slider (TSS) should be attached to downstream end of rail 2 with nuts on the traffic side and arrow pointing toward the front of the system.	Installation Manual (Pg. 22, Step 7)
15.	Critical	Rail 3 is not bolted at post 6.	Installation Manual Inspector Checklist P. 31(P.21) NOTE:
16.	Critical	Slider Joint - inner side slider (ISS) should be attached to the upstream end of rail 3 with nuts on the non-traffic side.	Installation Manual (Pg. 20, Step 5)
17.	Critical	All guardrail panels should be lapped with the upstream most rail on the outside. Rail 1 over rail 2, rail 2 over rail 3, rail 3 over rail 4, and rail 4 over rail 5.	Installation Manual
18.	Critical	Tooth is installed and engaged in the slot at the slider joint. The flat edge of the tooth shall point toward the front of the system.	Installation Manual (Pg. 22, Step 7)
19.	Major	Guardrail nuts on impact head are on the outside.	Installation Manual (Pg. 25, Step 10)
20.	Critical	Rectangular washer Part# 4002051 and square washer Part# SBI-1102027-00 used at post 1.	Installation Manual (Pg. 25, Step 10)
21.	Critical	Cable closest to the traffic side of the system passes through bottom hole on impact head.	Installation Manual (Pg. 26, Step 11)
22.	Critical	Friction plate is installed inside impact head, turned to engaged position and the Friction plate bolts are completely tightened.	Installation Manual (Pg. 26, Step 11) (Pg. 27 Step 12)
23.	Critical	Cables should be taut and not visibly sagging.	Installation Manual (Pg. 28, Step 13)
24.	Major	Slider Joint - rear side slider (RSS) should be attached with the nuts on the non-traffic side and arrow pointing toward the front of the system.	Installation Manual (Pg. 29, Step 14)
25.	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)
26.	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

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27.	Major	<p>Maintenance Inspection. Visual Drive-By Inspections Recommended Frequency Monthly Check for:</p> <ul style="list-style-type: none"> • Damage caused by vehicle impacts • Minor damage cause by impacts from roadside maintenance equipment • Misalignment • Missing components • Damage from vandalism • Loose hardware 	Recommended
28.	Major	<p>Maintenance Inspection (Cont.) Walk-Up Inspections Recommended Frequency – Twice a Year Check for: • Damage caused by vehicle impacts • Minor damage cause by impacts from roadside maintenance equipment • Misalignment • Missing components • Damage from vandalism</p> <ul style="list-style-type: none"> • Sagging cables • Frayed cable • Grading around the system • Loose hardware • After inspection is complete, ensure all items identified during the inspection process are corrected. 	Recommended
29.	Critical	Do not install any type of washer (e.g., rectangular washer) or delineator between the post bolt head and the guardrail.	Installation Manual (P. 24 NOTE)
30.	Minor	Quantlist Minimum Frequency is being followed, One per installation.	Construction Bulletin 07-01