

Inspector Quantlist Report 20210910

Diary Number: _____ Inspector Name: _____

TRACS Number: _____ Date: _____

Division IX: Incidentals

Title: Guardrail Transition to Concrete Barrier

Subtitle: Timber Post or Steel Post

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

Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders participated in the pre-activity meeting.	Construction Bulletin 02-01
1.		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 Standard Specifications 2021 106.05 Standard Specifications 2021 1012-1 Standard Specifications 2021 905-2
2.		AZ811 or Blue stake is done before placement of the post (locating utility, pipes, box culverts and sleeves).	Standard Specifications 2021 107.15
3.		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 2021 701-1
4.		High Strength Bolts, Nuts, Washers, or Anchor Bolts. Certificate of Analysis 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.		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
6.		Post spacing is in accordance with Construction Standard Drawings C-10.30 & C-10.31	Construction Standard Drawings C-10.30 Construction Standard Drawings C-10.31
7.		The space around and under the posts placed in manually or mechanically dug holes shall be backfilled with moist soils placed in compacted lifts as approved by the Engineer.	Standard Specifications 2021 905-3.02
8.		Wood blocks are toe-nailed to timber post with one 16 penny nail on each side of the top of the block.	Standard Specifications 2021 905-3.02
9.		The first 9 timber posts in the direction of travel shall be 6" x 8" x 72". At the time of installation, the dimensions of timber posts and blockouts shall not vary more than $\pm \frac{1}{4}$ " from the nominal dimensions as hereinbefore specified	Construction Standard Drawings C-10.30 Standard Specifications 2021 1012-3.02
10.		The timber posts #10 to #12 in the direction of travel shall be 8" x 10" x 78". At the time of installation, the dimensions of timber posts and blockouts shall not vary more than $\pm \frac{1}{4}$ " from the nominal dimensions as hereinbefore specified	Construction Standard Drawings C-10.30 Standard Specifications 2021 1012-3.02
11.		The first 9 steel posts in the direction of travel shall be W6x8.5x72".	Construction Standard Drawings C-10.31
12.		The steel posts #10 to #12 in the direction of travel shall be W6x15x84".	Construction Standard Drawings C-10.31
13.		The first 3 timber blockouts in the direction of travel shall be 6" x 12" x 14 $\frac{1}{4}$ ". At the time of installation, the dimensions of timber posts and blockouts shall not vary more than $\pm \frac{1}{4}$ " from the nominal dimensions as hereinbefore specified.	Construction Standard Drawings C-10.30 Construction Standard Drawings C-10.31 Standard Specifications 2021 1012-3.02
14.		The timber blockouts #4 to #9 in the direction of travel shall be 6" x 12" x 19". At the time of installation, the dimensions of timber posts and blockouts shall not vary more than $\pm \frac{1}{4}$ " from the nominal dimensions as hereinbefore specified.	Construction Standard Drawings C-10.30 Construction Standard Drawings C-10.31 Standard Specifications 2021 1012-3.02
15.		The timber blockouts #10 to #12 in the direction of travel shall be 6" x 8" x 19". At the time of installation, the dimensions of timber posts and blockouts shall not vary more than $\pm \frac{1}{4}$ " from the nominal dimensions as hereinbefore specified.	Construction Standard Drawings C-10.30 Construction Standard Drawings C-10.31 Standard Specifications 2021 1012-3.02
16.		Thriebeam rail elements are lapped in the direction of traffic of the nearest adjacent lane.	Standard Specifications 2021 905-3.01

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17.		All bolts shall be tightened and extend beyond the nuts a minimum of two threads, except that all bolts on posts adjacent to pedestrian traffic shall be cut off 1/4 inch from the nut.	Standard Specifications 2021 905-3.01
18.		The top of the rail height is set at 31" at the beginning of the Thrie-beam transition	Construction Standard Drawings C-10.30 Construction Standard Drawings C-10.31
19.		There are two nested locations within the system. At the beginning, there are two 12' 6" sections of W-Beam Guardrail. And at the end of the system, there are two 12' 6" sections of Thrie-Beam Guardrail.	Construction Standard Drawings C-10.30 Construction Standard Drawings C-10.31
20.		Thrie-beam terminal connector plate dimensions comply with current Construction Standard Drawing.	Construction Standard Drawings C-10.30 Construction Standard Drawings C-10.31
21.		Flexible vertical delineators shall be installed on the side of the post facing oncoming traffic, level and true, with the retroreflective sheeting 38 inches above the roadway surface.	Standard Specifications 2021 905-3.11 (A)
22.		The color of the reflective portion of the barrier markers conform to the color of the adjacent edge line.	Standard Specifications 2021 905-3.11(A)
23.		When nails are used to secure delineation to the top of wood posts, a minimum of two nails shall be driven at an angle to prevent the post from splitting.	Standard Specifications 2021 905-3.11 (A)
24.		Flexible vertical delineators shall be secured with two galvanized lag screws (1/8 dia. x 2 inches long) and flat washers.	Standard Specifications 2021 905-3.11 (A)
25.		Side mounted delineators shall be secured to metal posts with two 1/8 dia. X 3/4 inch long bolts, flat washers, and lock nuts. (Self-tapping 1/8-inch screws may be used as permitted by the Engineer.)	Standard Specifications 2021 905-3.11 (A)
26.		The Contractor shall remove and replace damaged delineation at no additional cost to the Department.	Standard Specifications 2021 905-3.11 (A)
27.		Quantlist Minimum Frequency is being followed, One per installation.	Construction Bulletin 07-01