

**FY 2020/2021 QC Category No. 13
STATEWIDE INSPECTION GUIDELIST
Traffic Control Aids**

CRASH CUSHIONS

1. The crash cushion is installed in accordance with the Contract Documents and the APL. [Specs. 102 and 544]

PAVEMENT MARKINGS

2. Width and spacing of marking is per Indexes. [Indexes 711-001 to 711-003]

3. The retroreflectivity is in accordance with Specs. [Specs. 102-10, 709-4, 709-7, 710-4, 711-4, 711-7, 713-4, 713-7, 971, FM 5-541]

4. Raised Pavement Markers (RPM's) are installed per Spec. and Indexes [Specs. 102-10, 706-4, Indexes 102-600 Sheet 12, 711-003, 706-001 and 700-106]

5. Pavement markings which do not appear to meet the initial retroreflectivity are tested by the Department within 3 days of receipt of the contractor's certification. [Specs. 710-4]

OBJECT MARKERS AND DELINEATORS

6. Object markers and delineators are installed in accordance with the manufacturer's instructions. The top of the post should be 4' above the edge of pavement grade. [Spec 705 and APL, Indexes 711-001, 711-003, MUTCD Section 3F]

7. Barrier delineators are mounted at the correct spacing and location with reflector color conforming to the near lane edge line and are in compliance with Spec. and Index. [Specs. 536-2 and 993-2.6, Index 536-001, and MUTCD Section 3F]

8. Object markers and delineators are installed plumb. [Good Practice]

9. Post-mounted delineators on exit and entrance ramps are installed at a uniform height and uniform offset per plans and Index. [Index 711-003]

10. Post-mounted delineators at cross overs are installed at a uniform height and at offsets per Index. [Index 711-001]

GUARDRAIL

11. New guardrail is installed in accordance with the Contract Documents and the APL. New guardrail is typically installed 2'-1" from surface under face of rail to center of rail. Minor exceptions per index. [Specs. 102, 536 and Index 536-001]
12. Galvanized 16d. nail is toe-nailed through top of timber offset block into timber post, per index, to stop rotation. [Index 536-001]
13. Inspect end anchorages for proper installation. [APL Section 536, Index 536-001]
14. Panels, end sections, and special end shoes are lapped in the direction of adjacent traffic. [Index 536-001]
15. All new edges have been galvanized. [Specs. 562 and 975]
16. Use correct washers for each location per index. [Index 536-001]
17. Guardrail blocks and posts are plumb. [Spec 536]
18. Certification for guardrail materials and certificate of compliance is provided. [Specs. 536-4, CPAM 5.8.4, Job Guide Schedule]
19. Offset blocks are in conformance with the specified materials and sizes. All timber blocks are dressed on all four sides. [Specs. 536-2 and 967-2, Index 536-001]
20. The Designer approves any field changes to guardrail lengths and locations. [CPAM 7.3 and 7.4]

SIGNING

21. Signs are installed at proper location, offset, height and angle. Except for signs located where the median is too narrow to comply, sign faces are offset from the roadway with minimum skew and lateral clearance distances per Index. [Specs. 700, Index 700-101]
22. Signs are mounted on breakaway posts or frangible sign supports. [Specs. 700-2, Index 700-010]
23. All nuts and bolts on signs are installed and tightened to their appropriate torque. [Index 700-020 and 700-010]
24. Sign bolt threads are burred to prevent nut loosening. [Index 700-020 & 700-010]
25. Signs conform to the approved shop drawing or standard plan. [Shop Drawings]

26. Sign posts are mounted plumb and have the correct diameter. Round aluminum posts larger than 3½" diameter must be mounted on a slip base, in a concrete footing. [Index 700-020 and 700-010]

27. Span wire signage complies with Index 659-010. [Index 659-010]

28. Manufacturer's certifications are on file. [Spec. 700]

29. Relocated signs are properly maintained and protected. [Specs. 7-11]

30. Color is in compliance with the Standard Highway Signs Manual.

31. Sign foundations are installed at the correct depth. The horizontal slip joint on the slip base must be located 4 inches maximum above the finished ground elevation measured at the signpost centerline. [Index 700-020 and 700-010]

32. Where signs contain electric lines, an electrical fuse cut connection or quick disconnect plug must not be located above the mechanical breakaway connection. [Good Practice]

33. Sign mounting brackets use u-bolts and z-bars per Indexes. [Indexes 700-020, 700-010, and 700-110]