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4.1 GENERAL

4.1.1 Introduction

Ancillary structures are those assets within the highway right-of-way that are not specifically denoted as bridges defined by the National Bridge Inventory (NBI), but have a structural design. Ancillary structural assets include small bridges (C), retaining walls (R), noise walls (N), high mast lights (L), sign and signal structures (S, G), and miscellaneous structures (M).

All types of structures deteriorate over time. These assets have exhibited similar patterns of deterioration as the structures previously discussed in Parts 2 and 3.

Refer to Part 1 for information on inspection qualifications.

4.1.2 Inspection Intervals

All ancillary structures covered in Part 4 shall be inspected at regular intervals to ensure their intended function in a proper and safe manner. Figure 4.1.2-1 provides the maximum inspection interval for each specific type of structure.

There are several scenarios where the maximum interval for inspection no longer applies and a more frequent inspection is warranted. Note that these are statewide requirements, but Regional Ancillary Program Managers have the authority to set more restrictive policies for their inventory as they see necessary. These statewide requirements shall be, but are not limited to, the following:

- For small bridges (C)
 - If the structure is load posted at 20 tons or up to but not including 40 tons and above, or the NBI value for Superstructure (Item 59), Substructure (Item 60), or Culvert (Item 62) is equal to 4, then the routine inspection frequency shall be two (2) calendar years.
 - If the structure is load posted at less than 20 tons, or Items 59, 60, or 62 are 3 or less, the routine inspection frequency shall be every calendar year.
- For sign and signal structures (S, G), and high mast lighting structures (L)
 - If the overall condition rating is severe, then the inspection frequency shall be every calendar year.
 - If the overall condition rating is poor, then the inspection frequency shall be every two (2) years.
 - Steel full span truss structures are only eligible for the six (6) year frequency if they are less than 30 years old, and the overall condition rating is good. Otherwise, the frequency shall be four (4) years unless conditions of the previous two bullet points exist.
- For noise and retaining walls (N, R), and miscellaneous structures (M)
 - If the overall condition rating is severe then the inspection frequency shall be every calendar year, if not more frequent at the discretion of the Regional Ancillary Inspection Program Manager. If the overall condition rating is poor, then it is up to the discretion of the Regional



Ancillary Inspection Program Managers responsibility to review and increase the frequency of inspection for the structure.

| ANCILLARY STRUCTURES | | | |
|-----------------------------------|------------------------|--|---|
| Structure Type | Inspection Type | Max. Inspection Interval (Calendar Years)* | Comments |
| Sign and Signal Structures (S, G) | Routine | 6 Years (Steel Truss Full Spans) 4 Years (Steel Cantilever) | Cantilever structures will have anchor rods ultrasonically tested during each inspection. |
| | | 4 Years (Aluminum Full Spans) 2 Years (Aluminum Cantilever) | |
| | NDT | As needed | Should be performed anytime the inspector notes a defect that needs to be further explored. |
| High Mast Lighting Structures (L) | Routine | 4 Years (Steel) | All anchor rods will be ultrasonically tested during each inspection. |
| | NDT | As needed | Should be performed anytime the inspector notes a defect that needs to be further explored. |
| Retaining Walls (R) | Routine | 6 Years | |
| Noise Barriers (N) | Routine | 6 Years | |
| | NDT | As needed | Valid only for noise barriers with anchor bolts, such as a barrier mounted to the side of a bridge. |
| Miscellaneous Structures (M) | Routine | 8 Years | Structure types vary widely; frequency to be set by Regional Ancillary Program Manager |
| Small Bridges (C) | Routine | 4 Years | |
| | UW-Dive | 6 Years | If the structure is inaccessible for the Routine inspections due to typical water levels, this frequency shall be increased to every 4 years to match the Routine Inspection. |

* Inspections will be scheduled based on the month/year, but performance will be measured on based on completing the inspection in the appropriate calendar year. For this reason, it is highly encouraged that no routine inspections be scheduled for the month of December, unless they are emergencies or initial inspections of a structure recently installed. This is to prevent weather related delays for the inspection that would cause the program to fall into non-compliance.

Figure 4.1.2-1: Recommended Inspection Intervals for Ancillary Structures.