U.S. DEPARTMENT OF ENERGY

FIMS User's Guide Updates
Bridges

October 22-24, 2024

MA-50 Office of Asset Management

FIMS User's Guide – Bridge Appendix

Bridge program information is currently spread throughout the FIMS User's Guide – Will consolidate into one area for ease of use and understanding – Bridge Appendix

FIMS User's Guide – Bridge Appendix

What will be included in the Bridge Appendix:

- Clarify the User's Guide and locate all Bridge Program information in one location. Examples include:
  - Reporting Requirements
  - Usage Code Definitions
  - Measurement Instructions
  - Better pictures for understanding
  - Link to the order requirements
  - Update to capture latest CFR guidance

- Refine the Bridge/Culvert flow chart

- Clarify roles for FIMS Manager and the Subject Matter Expert (SME)

Reporting Requirements – Bridge Inspection Frequency

Requirement	Vehicle Bridge	Short Span Bridge or Culvert	Pedestrian Bridge incl. Elevated Walkway	Railroad Bridge	Vehicular Tunnel
Initial	Within 60 days of: Date Placed in Service, acquisition, change in configuration, or construction due to repair or retrofit.				
Routine	Regular intervals not to exceed 24 months.			One inspection per calendar year, with not more than 540 days between.	Regular intervals not to exceed 24 months.
In-Depth	As determined by the cognizant Responsible Engineer.				
Damage	As soon as practicable after damage occurs, Before structure is re-opened to traffic, or Per the site's emergency action plan following an established seismic trigger event.				

Requirement	Vehicle Bridge	Short Span Bridge or Culvert	Pedestrian Bridge incl. Elevated Walkway	Railroad Bridge	Vehicular Tunnel
Special	As established.				
Fracture Critical Member	Regular intervals not to exceed 24 months.				
Underwater	Regular intervals not to exceed 60 months.				
Load Rating	Load rate each newly acquired bridge within ninety (90) days of the date place in service or acquired. Review existing load rating at least once every five years to ensure conditions and assumptions are still valid, or when recommended by inspectors, or when concern for reduced structural capacity is caused by unexpected events.				
Scour Evaluation	Evaluate each newly acquired bridge within ninety (90) days of the date place in service or acquired. Scour evaluations are not static. As the bridge foundation condition changes and/or the stream bed characteristics change, the scour criticality must be reanalyzed.				
Seismic Vulnerability Evaluation	Evaluate each newly acquired bridge within ninety (90) days of the date place in service or acquired. Review existing seismic vulnerability evaluation at least once every five years to ensure conditions and assumptions used are still valid.				
Traffic Volume	Update every five (5) years.				

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Usage Code Definitions –

1168 – Public Access Bridge (Pedestrian)

1169 – Controlled Access Bridge (Pedestrian)

1468 – Public Access Bridge (Railroad)

1469 – Controlled Access Bridge (Railroad)

1768 – Public Access Bridge (Vehicular)

1769 – Controlled Access Bridge (Vehicular)

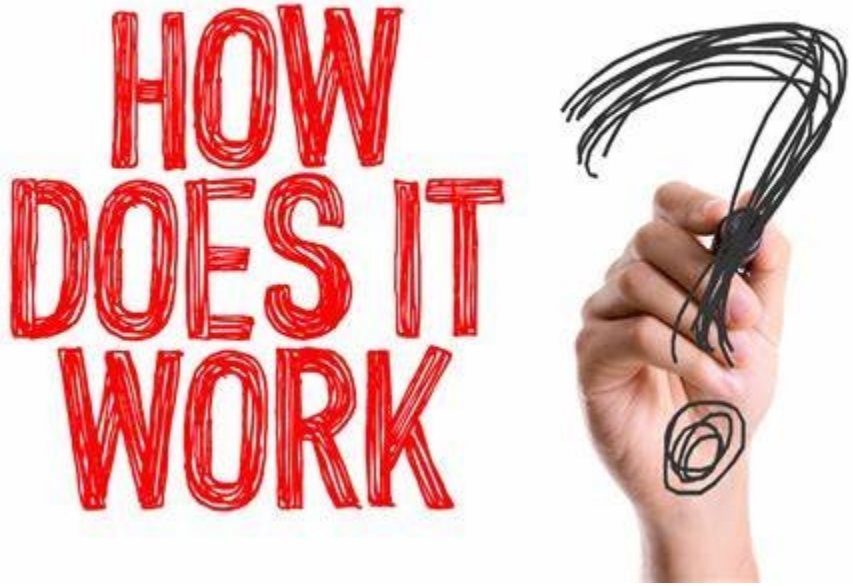
2629 – Culvert

Each Usage Code will give you the:
Unit of Measure
Definition
Examples of Inclusion
Examples of Exclusion
Any additional necessary information

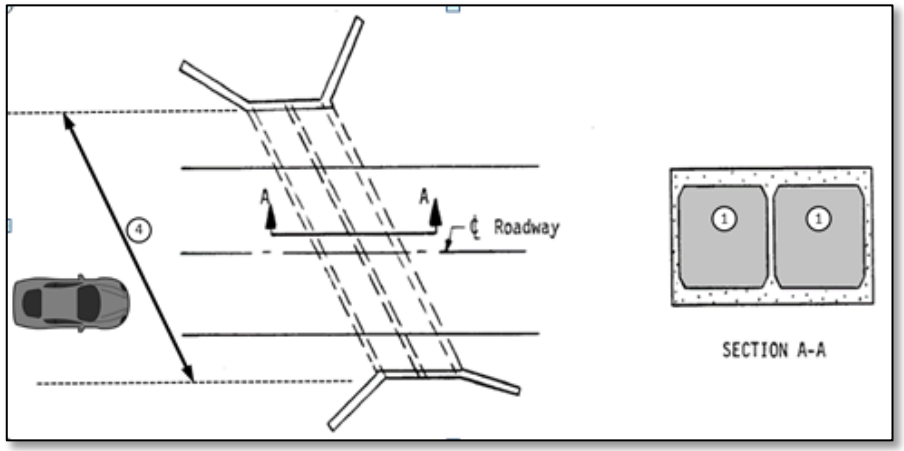
FIMS User's Guide – Bridge Appendix

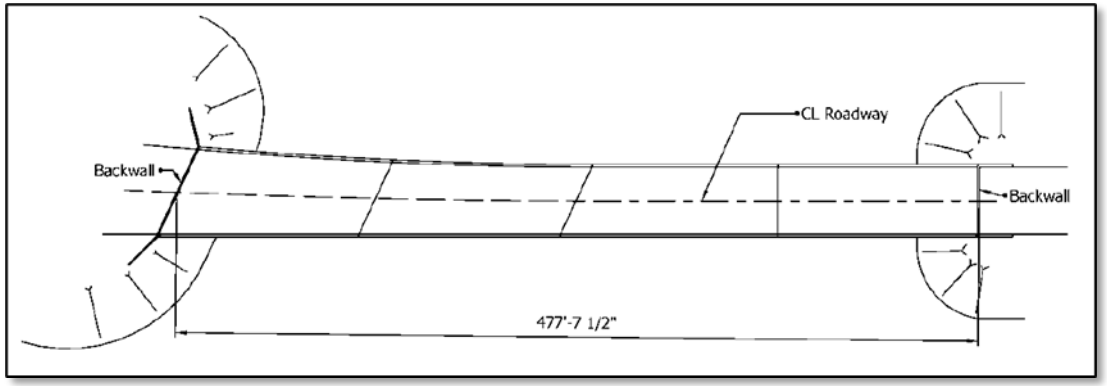
Measurement Definitions / Instructions -

- Structure Length
- NBIS Bridge Length
- Opening Area
- Culvert Length
- Size



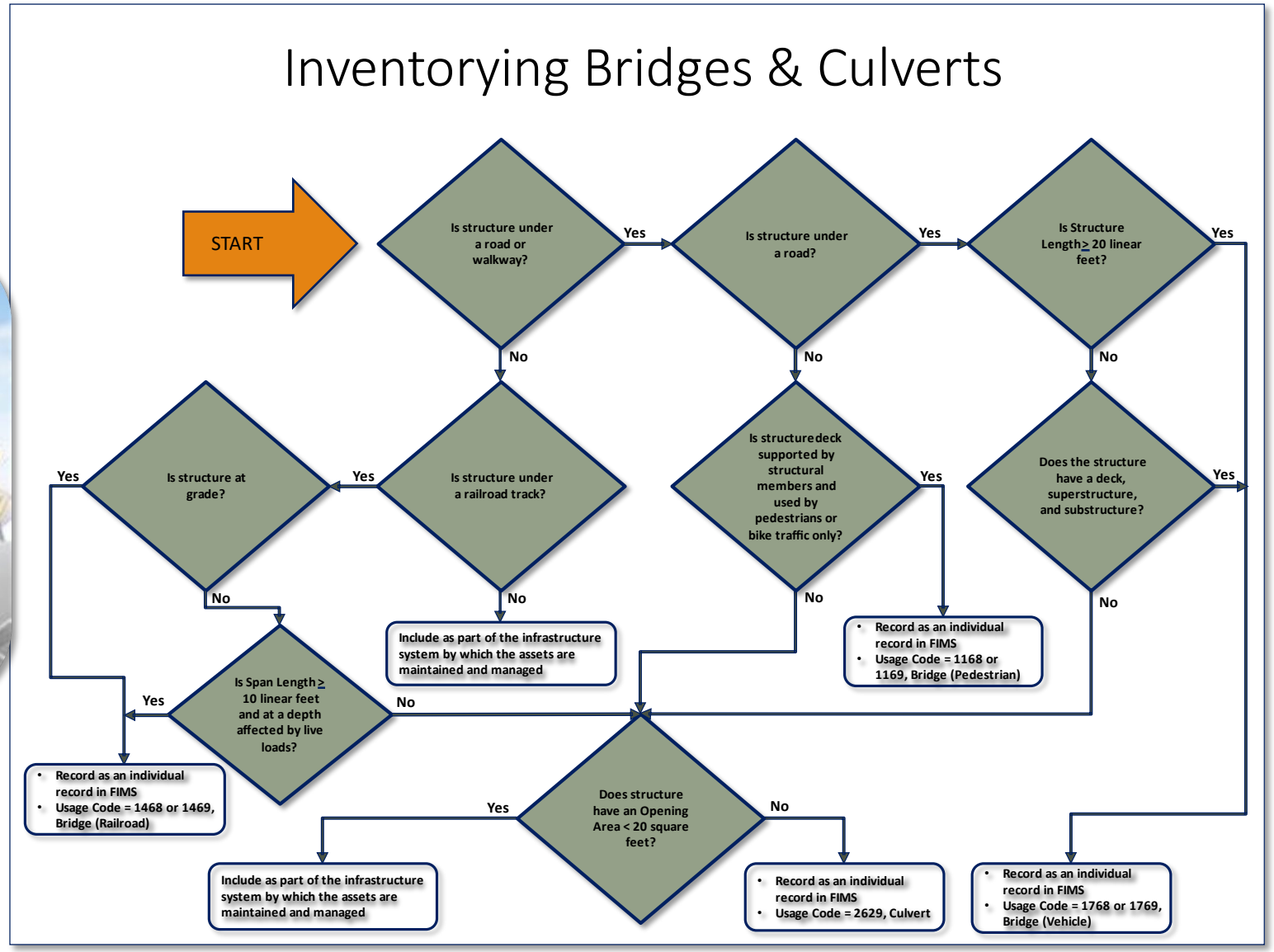
Better Pictures – As part of instructions





Bridge Flow Chart –

Inventorying Bridges & Culverts



FIMS Administrator and SME Roles –

Questions?

Comments?