**Last Revised:**

 **Bridge Design Organizational Chart:** (Attach document, insert or link to chart, or reference the section in the QPP showing certified LPA’s organizational chart, including the bridge design team.)

**Qualified staffing note:** The Agency’s qualified Bridge Design staff must be documented on its ODOT-approved Certified LPA Key Qualified Staff form (734-5091). The [insert name/position of certified LPA’s staff who] will notify ODOT’s Certification Program Manager and the Regional Local Agency Liaison (LAL) when there is a change in professional engineering staff, including Bridge Design staff, as soon as practicable.

**Minimum design standards:** For Federally funded projects on the local agency transportation system, the current American Association of State Highway and Transportation Officials (AASHTO) guidelines have been adopted as the design standard. Design standards for projects on national highway system routes and state highway system must conform to the requirements detailed in ODOT’s current BDM (Bridge Design Manual).

**BRIDGE DESIGN**

1. **The Agency has and uses the following manuals related to bridge design:**

[ ]  AASHTO LRFD (Load Resistance Factor Design) Bridge Design Specifications

[ ]  AASHTO Standard Specification for Sign Supports, Luminaires, and Traffic Signals, (4th Edition with most current interims)

[ ]  ODOT BDM (Bridge Design Manual)

[ ]  ODOT BCM (Bridge CAD Manual)

[ ]  ODOT Geotechnical Design Manual

[ ]  ODOT Hydraulic Design Manual

[ ]  ODOT Traffic Structures Design Manual

[ ]  AASHTO Specifications for Bridge Railing

[ ]  AASHTO Guide Specifications for Design of Pedestrian

[ ]  Bridge Welding code AWS-1.5 with most current interims

[ ]  AASHTO Guide Design Specifications for Bridge Temporary Works

[ ]  AASHTO Guide Specifications for LRFD Seismic Bridge Design

1. **The Agency uses the following other manuals for bridge or structural design:**

1. **The Agency has the following additional written procedures related to bridge or structural design activities (which are located at      ):**

1. **The Agency has the following experience using ODOT’s bridge design specifications:**
2. BDM:
3. LRFD:
4. **The Agency uses the following design procedures that address the following elements:**

[ ]  AASHTO Guidelines have been adopted as the minimum standards:

[ ]  Bridge Design:

[ ]  Foundation Design:

[ ]  Construction Specifications (Use Oregon Standard Specifications?):

[ ]  Traffic Structures:

[ ]  Culverts (6’ and over):

[ ]  Hydraulic Design including scour analysis:

[ ]  Geotechnical Design:

[ ]  Retaining Walls:

[ ]  Sound Walls:

[Additional explanation, if needed]

1. **The Agency uses the following process to determine which standards (listed above) apply:**

1. **The Agency’s bridge designs comply with state and federal regulations for service life (e.g. 75 years for new or reconstructed bridges and 20 years for rehabilitated bridges):**

**Yes** [ ]  **No** [ ]

[Explanation if “No”]

1. **The Agency uses the following written guidelines for the use of Value Engineering and cost reduction proposals:**

1. **The Agency has the following written procedure for bridge design deviations:**

**BRIDGE DESIGN APPROVAL**

1. **The Agency addresses the below listed elements in approving design as follows:**

Agency uses a checklist: **Yes** [ ]  **No** [ ]

[Name and location of checklist if “Yes.” Explanation if “No”]

[ ]  Bridge Type Size and Location:

[ ]  Construction Staging:

[ ]  Right of Way/Construction Easement:

[ ]  Horizontal-Vertical Alignment:

[ ]  Bridge Clearance/Mobility:

[ ]  Bridge Width:

[ ]  Wearing Surface on Structure:

[ ]  Cost Estimate:

[ ]  Environmental Considerations (bridge removal etc.):

[ ]  Permits (cut and fill, riprap etc):

[ ]  Utilities and Railroads:

1. **The Agency’s quality control processes bridge design and related structures are as follows:**

* 1. The following qualified staff position(s) perform the design of following for bridge projects:

Bridge:

Hydraulics:

Foundations:

Load rating:

Other structures (walls, culverts, etc.):

* 1. The following qualified staff position reviews the following for the design for bridge projects:

Bridge:

Hydraulics:

Foundations:

Load rating:

Other structures (walls, culverts, etc.):

* 1. The following qualified staff position approves the following and stamps the design?

Bridge:

Hydraulics:

Foundations:

Load rating:

Other structures (walls, culverts, etc.):

[Additional explanation, if needed]

1. **The Agency evaluates whether a bridge is “major” or “unusual” as follows and then submits its evaluation to the ODOT Regional LAL to obtain one of ODOT’s Bridge Engineer’s review and approval:**

1. **The Agency uses the following processes to monitor and supervise the consultant’s bridge design work:**