

## SERVICE: STRUCTURAL ENGINEERING - TRANSPORTATION AND FLOOD CONTROL

*Firm must perform as a prime for this Service to submit on the following Works category:*

[Bridges](#)  
[Pedestrian Grade Separations](#)

Design of structures associated with transportation or flood control improvements, such as bridges, viaducts, large culverts, spillways, transitions, structures, retaining walls, and related structures.

Firms should have experience in utility coordination and design that includes the following functions:

- Coordination with utility companies to determine existing and/or proposed utilities. Request as-built record drawings.
- Using Engineer's electronic CAD mapping files, input utility record drawing information into mapping file on a separate layer.
- Coordinate the preparation of construction plans to avoid utility conflicts. Prepare plans and specifications for the relocation of existing utilities, as well as new facilities for water and sewer lines associated with road and flood control improvements.
- Coordinate with municipalities for related inspections

### Minimum Qualifications

#### **Firm Experience**

- Relevant projects administered by the firm in the past eight years
- Direct involvement or supervision of a minimum of five transportation or flood control structural facility designs. Structural design experience in the building construction industry will not be considered.
- Must demonstrate personnel and equipment capable of providing maps, surveys, and engineering plans on electronic media storage in AutoCAD® format.

- Five years experience in structural design experience of transportation or flood control facilities

**Category B:** Not more than twenty percent of the submitted "B" category employees performing a service shall have less than three years experience. All these employees should have a Bachelor's Degree in Engineering (or equivalent for non-engineers) and have worked on not less than three projects performing this same service.

#### **Employee Experience**

**Category A:** Nevada Professional Engineer (Civil or Structural) on staff and in responsible charge of the work. Higher value will be placed on firms using a licensed Structural Engineer (SE) that has the required experience on transportation and flood control projects. Relevant experience of proposed staff: