



Briefly describe proposed scope of DES involvement for all alternatives.

Alternative 1:

Alternative 2:

Alternative 3:

## Project Schedule

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|            |  |
|------------|--|
| PA/ED Date |  |
|------------|--|

## Project Cost

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For PSR (PDS) projects, the following section is to be used for EACH alternative, provided that the scope is significantly different.

### Alternative #

| <u>Project Cost Range (\$ 1000's)</u> | <u>Cost of Largest Structure (\$ 1000's)</u> |
|---------------------------------------|--|
| Roadway \$                            | \$   |
| Structure** \$                        |  |
| Total \$                              |  |

\*\*Structure Cost Range to be provided by (check one)

Consultant

Structure Design Technical Liaison.

## Project Scope Breakdown by DES Function

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### Photogrammetry

Note: A Photogrammetry Service Request-PSR (PDS) must be completed and submitted to DES Photogrammetry by the District Photogrammetry Coordinator.

### Bridge Design Services (check applicable boxes)

#### Design by:

- Office of Structure Design
- Structure Maintenance Design
- Office of Structure Contract Management (Consultant Design Oversight)
- Office of Special Funded Projects (Consultant Design Oversight)

#### Bridge Information:

|  |        |                      |
|--|--------|----------------------|
| <input type="checkbox"/> New Bridge(s)                 | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Bridge Replacement(s)         | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Bridge Widening(s)            | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> New Bridge over water         | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Bridge Replacement over water | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Bridge Widening over water    | Number | Br. Name(s) & No(s). |

|   |        |                      |
|---|--------|----------------------|
| <input type="checkbox"/> Bridge Rail Replacement(s)           | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Approach Slab                        | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Bridge with Railroad Involved        | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Bridge w/ Scour Analysis             | Number | Br. Name(s) & No(s). |
| <input type="checkbox"/> Bridge w/ Special Design or Retrofit | Number | Br. Name(s) & No(s). |

### Other DES functional units required for Structure Work

- Structure Hydraulics (include if bridge is over or adjacent to water)
- Preliminary Investigations (Structure Foundation Plan)
- Geotechnical Services (Structure Foundations)

### Wall Design Data for Structure Design & Geotechnical Services

|  |                             |  |   |
|--|-----------------------------|--|---|
| <input type="checkbox"/> Soundwall(s)<br>Number  | Est. Max. Ht<br>Est. Length | <input type="checkbox"/> Standard Design | <input type="checkbox"/> Special Design |
| <input type="checkbox"/> Ret. walls(s)<br>Number | Est. Max. Ht<br>Est. Length | <input type="checkbox"/> Standard Design | <input type="checkbox"/> Special Design |
| <input type="checkbox"/> MSE Wall(s)<br>Number   | Est. Max. Ht<br>Est. Length | <input type="checkbox"/> Standard Design | <input type="checkbox"/> Special Design |

### Geotechnical Services

**Is Oversight for consultant prepared geotechnical reports required?**

- Yes       No

**Has the Geotechnical Design Liaison or other geotechnical person been contacted?**

- Yes       No      If yes, who?

|                |                               |                                  |                                      |                                |
|----------------|-------------------------------|----------------------------------|--------------------------------------|--------------------------------|
| <b>Terrain</b> | <input type="checkbox"/> Flat | <input type="checkbox"/> Rolling | <input type="checkbox"/> Mountainous |                                |
| <b>Cuts:</b>   | Est. Max Height (m)           | Est. Volume (m <sup>3</sup> ):   | <input type="checkbox"/> New         | <input type="checkbox"/> Widen |
| <b>Fills:</b>  | Est. Max Height (m)           | Est. Volume (m <sup>3</sup> ):   | <input type="checkbox"/> New         | <input type="checkbox"/> Widen |

### Sign Structures

|  |        |
|--|--------|
| <input type="checkbox"/> Overhead Sign Foundations           | Number |
| <input type="checkbox"/> Changeable Message Sign Foundations | Number |

### Other:

- Special Studies (slope stability, rockfall, erosion, seepage, ground water, settlement, liquefaction, slipout repair, rock slope, etc.) Explain
- Existing Maintenance Problems: Explain:

### Technical Specialist Design

**Anticipated insertable plan sheet(s) check below:**

|  |          |
|--|----------|
| <input type="checkbox"/> Culvert(s)                    | Number   |
| <input type="checkbox"/> Barrier(s)                    | Number   |
| <input type="checkbox"/> Signs and Overhead Structures | Number   |
| <input type="checkbox"/> Other Design:                 | Explain: |

### Transportation Architecture Design

|  |          |
|--|----------|
| <input type="checkbox"/> Design New Building(s)        | Explain: |
| <input type="checkbox"/> Remodel Existing Buildings(s) | Explain: |
| <input type="checkbox"/> Bridge Aesthetics Evaluation  | Explain: |
| <input type="checkbox"/> Build scale model             | Explain: |
| <input type="checkbox"/> Other Aesthetics work         | Explain: |

**Electrical, Mechanical, Water & Wastewater Design**

|   |          |
|---|----------|
| <input type="checkbox"/> Pumping Plants                         | Explain: |
| <input type="checkbox"/> Movable bridge, drawbridge             | Explain: |
| <input type="checkbox"/> Lighting control system for facilities | Explain: |
| <input type="checkbox"/> Sanitary Systems                       | Explain: |

**Materials Engineering & Testing Services**

**Pavement**

|  |                                   |                         |                        |
|--|-----------------------------------|-------------------------|------------------------|
| <input type="checkbox"/> Rigid                     | <input type="checkbox"/> Flexible | Average Grade           | Average Superelevation |
| <input type="checkbox"/> Deflection Study Required | No. of Locations                  | Lane/miles to be tested |                        |

**Consultation and Inspection**

|  |   |   |
|--|---|---|
| <input type="checkbox"/> Loop detectors  | <input type="checkbox"/> Signal & Lighting Products | <input type="checkbox"/> Changeable Message Signs,<br>Closed Circuit TV |
| <input type="checkbox"/> Concrete Bridge | <input type="checkbox"/> Steel Bridge               |   |

**Materials Engineering & Testing Services (Continued)**

**Corrosion Tests**

|                               |                                   |   |
|-------------------------------|-----------------------------------|---|
| <input type="checkbox"/> Soil | <input type="checkbox"/> Concrete | <input type="checkbox"/> Cathodic Protection System |
|-------------------------------|-----------------------------------|---|

**Other**

|  |         |
|--|---------|
| <input type="checkbox"/> Special Products: | Explain |
|--|---------|

**Additional Studies, Investigations or Research from DES**

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Identify additional studies or investigations that may be required from DES Functional Units.

**Prepared By:** \_\_\_\_\_ **Date** \_\_\_\_\_

Please submit this form to DES, to the attention of the Project Liaison Engineer, Office of Project Delivery, in the subdivision of Program/Project & Resource Management.

DES will provide a Structure Cost Estimate Range, for each alternative and a resource summary estimate to be included in the project workplan.