

## Division of Engineering Services PSR(PDS) Scoping Checklist

### Project Information

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District      County      Route      (Post Mile)      EA

Project Description:

Project Manager      Phone #

DES Project Liaison Engineer\* (PLE):      **Select a PLE from pulldown**

DES Special Funded Projects Liaison Engineer:      Phone #

DES Consultant Management Engineer:      Phone #

\*The Project Liaison Engineer will provide assistance with the completion of this form.

### Project Scope

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Describe and identify in the following sections a general description of all improvements anticipated as part of the project scope that will require DES functional unit involvement. The project should be discussed in sufficient detail to accurately identify the involvement of DES to study the various alternatives. The PSR(PDS) is used to program support \$ for the Project Report and Environmental Document Phase of the project ONLY, and to commit to a schedule for the completion of PR & ED Phase.

**Check applicable boxes describing proposed scope of project.**

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> New Expressway/Freeway on new alignment          | <input type="checkbox"/> Other Roadway Realignment | <input type="checkbox"/> Widen Highway      |
| <input type="checkbox"/> Construct Interchange                            | <input type="checkbox"/> Emergency/Storm Damage    | <input type="checkbox"/> Rockfall Project   |
| <input type="checkbox"/> Modify Interchange                               | <input type="checkbox"/> Bridge Widening           | <input type="checkbox"/> Left-turn Pocket   |
| <input type="checkbox"/> Bridge Replacement                               | <input type="checkbox"/> Curve Correction          | <input type="checkbox"/> Modify Slope       |
| (New alignment? <input type="checkbox"/> Yes <input type="checkbox"/> No) | <input type="checkbox"/> Building Project          | <input type="checkbox"/> Stabilize Subgrade |
| <input type="checkbox"/> Bridge Rehabilitation                            | <input type="checkbox"/> Median Barrier Retrofit   | <input type="checkbox"/> Stabilize Roadway  |
| <input type="checkbox"/> New Bridge                                       | <input type="checkbox"/> Construct Passing Lane    | <input type="checkbox"/> Landslide/Slip-out |
| <input type="checkbox"/> Bridge Seismic Retrofit                          | <input type="checkbox"/> Soundwall/Retaining Wall  | <input type="checkbox"/> Bridge Deck Rehab. |
| <input type="checkbox"/> Other Design: Explain:                           | <input type="checkbox"/> Roadway Rehabilitation    | <input type="checkbox"/> Bridge Joint Seals |

Briefly describe proposed scope of DES involvement for all alternatives.

Alternative 1:

Alternative 2:

Alternative 3:



**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) Number	Est. Max. Ht Est. Length	<input type="checkbox"/> Standard Design	<input type="checkbox"/> Special Design
<input type="checkbox"/> Ret. walls(s) Number	Est. Max. Ht Est. Length	<input type="checkbox"/> Standard Design	<input type="checkbox"/> Special Design
<input type="checkbox"/> MSE Wall(s) Number	Est. Max. Ht 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 Studies 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, Closed Circuit TV
<input type="checkbox"/> Concrete Bridge	<input type="checkbox"/> Steel Bridge	

**Corrosion Tests**

<input type="checkbox"/> Soil	<input type="checkbox"/> Concrete	<input type="checkbox"/> Cathodic Protection System
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**Other**

<input type="checkbox"/> Special Products:	Explain
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**Structure Construction**

Oversight for consultant construction administration required?  Yes  No

Division of Engineering Services Workload Estimate for PSR (PDS)				
WBS	Alternative Number			
	1	2	3	4
100				
150				
160				
165				
175				
180				
<b>Total PY's per Alternative</b>				
			<b>Total Project PY's</b>	

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

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

Reviewed by:

**Project Manager** \_\_\_\_\_ **Date** \_\_\_\_\_