ARTICLE 11
Division of Engineering Services
PSR-PDS Scoping Checklist

Project Information

<table>
<thead>
<tr>
<th>District</th>
<th>County</th>
<th>Route</th>
<th>(Post Mile)</th>
<th>EA</th>
<th>Project ID#</th>
</tr>
</thead>
</table>

Project Description:

Project Manager

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

DES acknowledges that scope is in development at this time. The Project Liaison Engineer is available to assist the District in determining the involvement of DES functional units. The intent of the checklist is to gather as much information as possible on the alternatives to accurately identify the involvement of DES.

Describe and identify in the following sections a general description of improvements anticipated as part of the project scope that will require DES functional unit involvement.

Check applicable boxes describing proposed scope of project.

- [ ] New Expressway/Freeway on new alignment
- [ ] Construct Interchange
- [ ] Modify Interchange
- [ ] Bridge Replacement (New alignment? [ ] Yes [ ] No)
- [ ] Bridge Rehabilitation
- [ ] New Bridge
- [ ] Bridge Seismic Retrofit
- [ ] Other Design: Explain:
- [ ] Other Roadway Realignment
- [ ] Emergency/Storm Damage
- [ ] Bridge Widening
- [ ] Curve Correction
- [ ] Building Project
- [ ] Median Barrier Retrofit
- [ ] Construct Passing Lane
- [ ] Soundwall/Retaining Wall
- [ ] Roadway Rehabilitation
- [ ] Widen Highway
- [ ] Rockfall Project
- [ ] Left-turn Pocket
- [ ] Modify Slope
- [ ] Stabilize Subgrade
- [ ] Stabilize Roadway
- [ ] Landslide/Slip-out
- [ ] Bridge Deck Rehab.
- [ ] Bridge Joint Seals
Briefly describe proposed scope of DES involvement for all alternatives.

Alternative 1:

Alternative 2:

Alternative 3:

**Project Schedule**

<table>
<thead>
<tr>
<th>PA/ED Date</th>
</tr>
</thead>
</table>

**Project Cost**

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

<table>
<thead>
<tr>
<th>Alternative #</th>
<th>Project Cost Range ($1000’s)</th>
<th>Cost of Largest Structure ($1000’s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Roadway $</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Structure** $</td>
<td>$</td>
</tr>
<tr>
<td></td>
<td>Total $</td>
<td>$</td>
</tr>
</tbody>
</table>

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

- Consultant
- Structure Design Technical Liaison

**Project Scope Breakdown by DES Function**

**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:**

- New Bridge(s) Number Br. Name(s) & No(s.)
- Bridge Replacement(s) Number Br. Name(s) & No(s.)
- Bridge Widening(s) Number Br. Name(s) & No(s.)
- New Bridge over water Number Br. Name(s) & No(s.)
- Bridge Replacement over water Number Br. Name(s) & No(s.)
- Bridge Widening over water 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

<table>
<thead>
<tr>
<th>Soundwall(s)</th>
<th>Number</th>
<th>Est. Max. Ht</th>
<th>Est. Length</th>
<th>Standard Design</th>
<th>Special Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ret. walls(s)</td>
<td>Number</td>
<td>Est. Max. Ht</td>
<td>Est. Length</td>
<td>Standard Design</td>
<td>Special Design</td>
</tr>
<tr>
<td>MSE Wall(s)</td>
<td>Number</td>
<td>Est. Max. Ht</td>
<td>Est. Length</td>
<td>Standard Design</td>
<td>Special Design</td>
</tr>
</tbody>
</table>

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?

Terrain: ☐ Flat  ☐ Rolling  ☐ Mountainous

Cuts: Est. Max Height (m)  Est. Volume (m³): ☐ New  ☐ Widen

Fills: Est. Max Height (m)  Est. Volume (m³): ☐ New  ☐ Widen

Sign Structures

☐ Overhead Sign Foundations  Number
☐ 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:

☐ Culvert(s)  Number
☐ Barrier(s)  Number
☐ Signs and Overhead Structures  Number
☐ Other Design:  Explain:

Transportation Architecture Design
Appendix S

Chapter 5 Scoping Tools – Article 11– PSR-PDS DES Scoping Checklist
Preparation Guidelines for Project Study Report-Project Development Support (PSR-PDS)
Project Initiation Documents
September 30, 2011

| Design New Building(s) | Explain: |
| Remodel Existing Buildings(s) | Explain: |
| Bridge Aesthetics Evaluation | Explain: |
| Build scale model | Explain: |
| Other Aesthetics work | Explain: |

### Electrical, Mechanical, Water & Wastewater Design

| Pumping Plants | Explain: |
| Movable bridge, drawbridge | Explain: |
| Lighting control system for facilities | Explain: |
| Sanitary Systems | Explain: |

### Materials Engineering & Testing Services

#### Pavement

<table>
<thead>
<tr>
<th>Rigid</th>
<th>Flexible</th>
<th>Average Grade</th>
<th>Average Superelevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deflection Study Required</td>
<td>No. of Locations</td>
<td>Lane/miles to be tested</td>
<td></td>
</tr>
</tbody>
</table>

#### Consultation and Inspection

<table>
<thead>
<tr>
<th>Loop detectors</th>
<th>Signal &amp; Lighting Products</th>
<th>Changeable Message Signs, Closed Circuit TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Bridge</td>
<td>Steel Bridge</td>
<td></td>
</tr>
</tbody>
</table>

### Materials Engineering & Testing Services (Continued)

#### Corrosion Tests

<table>
<thead>
<tr>
<th>Soil</th>
<th>Concrete</th>
<th>Cathodic Protection System</th>
</tr>
</thead>
</table>

#### Other

| Special Products: | Explain |

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

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.