LID PLANNING & DESIGN CHECKLIST
LOW IMPACT DEVELOPMENT (LID) ASSESSMENT CHECKLIST FOR NEW, REMODEL OR RETROFIT PROJECTS

Building Permit No. __________
Project Address: __________________________________________________________________________
Parcel No. __________
Project Type: Residential _____ Commercial ________ Industrial _______ Public ______
Project is: New Development _____ Remodel ____ Retrofit ____
Project Description: _______________________________________________________________________
______________________________________________________________________________________
______________________________________________________________________________________
Proposed development area: ____________________________ acres
Pre-project impervious area: ____________________________ sq. ft.
Amount of impervious area to be replaced: ____________________________ sq. ft.
Amount of new impervious area: ____________________________ sq. ft.
Amount of impervious area removed: ____________________________ sq. ft.
Change in amount of impervious area: ____________________________ sq. ft.

APPLICANT INFORMATION:
Company/Agency: ________________________________________________________________________
Contact Person: _________________________________________________________________________
Address: _______________________________________________________________________________
Phone: ___________________________ Email: _________________________________________________
Signature: ___________________________ Date: ___________________________
Use this portion of the checklist to document the site inventory and analysis. For additional information on each portion of the analysis, refer to Chapter 2.3 in the Eastern Washington Low Impact Development Guidance Manual.

1. **Site topographic features**
   - Describe site topography and slopes: ______________________________________________________
   - Delineate areas of flat, moderate, and steep slopes (on map): ________________________________
   - Opportunities:________________________________________________________________________
   - Constraints:___________________________________________________________________________

2. **Existing hydrologic patterns & features**
   - Sub-basin delineation (on map):___________________________________________________________
   - Streams:____________________________________________________________________________
   - Wetlands:____________________________________________________________________________
   - Floodplains:__________________________________________________________________________
   - Riparian areas:________________________________________________________________________
   - Other:________________________________________________________________________________

3. **Soil & subsurface hydrology characterization**
   - Soil type(s): _________________________________________________________________________
   - Depth to seasonal high groundwater (feet): ________________________________________________
   - Bedrock present: ______ If yes, depth (feet): ______________________________________________
   - Low permeability layer: _______ If yes, depth (feet): ______________________________________
   - Native Soil Infiltration Rate (inch/hour): _________________________
   - Correction Factor: ___________________________________________________________________
   - Other: _____________________________________________________________________________

4. **Native vegetation & soil protection areas**
   - Native vegetation type(s): ______________________________________________________________
   - Opportunities:________________________________________________________________________
   - Constraints:___________________________________________________________________________

5. **Access**
   - Opportunities:________________________________________________________________________
   - Constraints:___________________________________________________________________________

6. **Land use controls**
   - Opportunities:________________________________________________________________________
   - Constraints:___________________________________________________________________________

7. **Utility availability & conflicts**
   - Opportunities:________________________________________________________________________
   - Constraints:___________________________________________________________________________
Combine the information analyzed in Section A to develop a composite site map. This map will be used as a basis for LID site design.

Identify specific design goals for the project. Example goals may include the following:

- Meeting Core Element requirements for runoff treatment and/or flow control (2004 SMMEW).
- Retrofitting existing developments for water quality improvement.
- Reducing site water and energy demands.
- Improving neighborhood aesthetics and mobility.
- Controlling Combined Sewer Overflows.
- Other: _____________________________

### Table

<table>
<thead>
<tr>
<th>CORE ELEMENT</th>
<th>PURPOSE</th>
<th>APPLICABILITY</th>
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<tbody>
<tr>
<td>1 Preparation of a Stormwater Site Plan</td>
<td>To integrate stormwater management into project planning and design</td>
<td>Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government</td>
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<tr>
<td>2 Construction Stormwater Pollution Prevention</td>
<td>To control erosion and prevent sediment and other pollutants from leaving the site</td>
<td>Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government</td>
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<tr>
<td>3 Source Control of Pollution</td>
<td>To prevent stormwater from coming into contact with potential pollutants</td>
<td>Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government</td>
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<tr>
<td>4 Preservation of Natural Drainage Systems</td>
<td>To maximize the extent to which stormwater discharge patterns, rates, and outfall locations remain the same after a development project</td>
<td>Applicable to all sites; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government</td>
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<tr>
<td>5 Runoff Treatment</td>
<td>To protect water quality in the receiving water by reducing the loads and concentrations of pollutant in stormwater using biological, physical and chemical removal methods</td>
<td>Applicable only to sites that are determined to have sufficient pollutant-generating potential; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government</td>
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<tr>
<td>6 Flow Control</td>
<td>To protect stream morphology and habitat by mitigating the impacts of increased storm runoff volumes and flow rates to streams</td>
<td>Applicable only to sites that discharge to non-exempt surface water bodies; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government</td>
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<td>7 Operation and Maintenance</td>
<td>To prevent failure of stormwater treatment facilities or improper discharges due to inadequate maintenance or improper operation</td>
<td>Applicable to all sites with runoff treatment or flow control facilities; required if stipulated as part of a rule, ordinance, or permit issued by local, state or federal government</td>
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<td>8 Local Requirements</td>
<td>To provide for additional conditions or measures needed to protect local water bodies or for other reasons</td>
<td>Applicable to and required for all sites where such measures have been established by local ordinance or rule</td>
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Table excerpt from 2004 Stormwater Management Manual for Eastern Washington
C) SELECT LID SOLUTIONS TO MATCH SITE CONDITIONS AND GOALS

Review the LID BMPs to be incorporated on-site to determine feasibility. If not included, provide justification. Refer to the applications, limitations, and infeasibility criteria included in the Eastern Washington Low Impact Development Guidance Manual to determine BMP feasibility.

<table>
<thead>
<tr>
<th>INCORPORATED</th>
<th>NOT FEASIBLE</th>
<th>NOT APPLICABLE</th>
<th>JUSTIFICATION</th>
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<tbody>
<tr>
<td>4.2 Amending On-Site Construction Soils</td>
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<td>4.3 Dispersion</td>
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<td>4.4 Bioretention</td>
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<td>4.5 Trees</td>
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<td>4.6 Permeable Pavement</td>
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<td>4.7 Vegetated Roofs</td>
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<td>4.8 Minimal Excavation Foundations</td>
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<td>4.9 Rain Water Harvesting</td>
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D) DEVELOP PRELIMINARY SITE LAYOUT

A preliminary site layout should include the information gathered in the site inventory & analysis and the proposed improvements and selected LID BMPs. This layout should show how site goals are being met.

E) SIZING

Each individual LID BMP included in the design must be sized appropriately by the engineer. See guidance on modeling methods provided in the 2004 SMMEW and the 2013 Eastern Washington Low Impact Development Guidance Manual. Submit documentation with designs showing how the calculations were performed and demonstrating the flow control and/or treatment goals are being met.