# PHILADELPHIA WATER DEPARTMENT

**GSI UNIT**

#### Preliminary Design Submission (PWD 50%) Checklist

**This checklist outlines the requirements for each submission to PWD.**

All requirements will be checked by the PWD project manager prior to review. If a project is found to be incomplete, it will be returned to the provider and one week will be allotted for revision. Checklists can be modified based on project specific requirements.

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| **Preliminary Design Submission (PWD 50%)**  *Review PWD planning schematic and further develop concept into preliminary designs based on site survey, soil infiltration results, and site context.* |  |
| * Preliminary design drawings (.PDF and .DWG) including:   + Preliminary layout of stormwater features in plan view with designed footprints and simple callouts (refer to *GSI Survey & Drawing Standards)*   + Concept landscape plans (for off-street projects) showing grouping and general shape   + Profile (for GSI sewers only)   + Sections (for GSI sewers only) |  |
| * Design calculations (.XLSX) including, at minimum:   + Contributing drainage area (impervious and pervious)   + Storage volume   + Loading ratio   + Calculation of release rates and orifice sizing for detention/slow-release systems   + Storm size managed   + Greened acres * Dynamic Sizing files:   + Dynamic Design Calculator Tool (.XLSX) |  |
| * Drainage area maps (.PDF and .DWG) including:   + Distinct polygons to each inlet   + System labels provided   + Areas labeled in square feet and summed for each system   + Areas labeled as pervious or impervious based on existing condition |  |
| * Preliminary construction cost estimate (.XLSX) |  |
| * Documented questions to PWD about preferred design approach and recommendations for potential cost savings (.PDF) * Minutes from concept vetting meeting (.PDF) |  |

SUBMITTED BY \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_­\_\_\_\_\_\_\_\_