



## Hydraulics Preliminary Submittal Checklist

## Preliminary Submittal Checklist

No.	Submittal Element	Included
<b>Preliminary Drainage Plan Sheets</b>		
1.	Drainage Structure and Pipe Layout	<input checked="" type="checkbox"/>
2.	Structure ID Number Labels	<input checked="" type="checkbox"/>
3.	Trunk Labels	<input checked="" type="checkbox"/>
4.	Drainage Profile Reference Table	<input checked="" type="checkbox"/>
<b>Preliminary Drainage Profile Sheets</b>		
5.	Drainage Profiles	<input checked="" type="checkbox"/>
6.	Drainage Structure Station and Offset	<input checked="" type="checkbox"/>
7.	Drainage Structure Rim Elevations	<input checked="" type="checkbox"/>
8.	Drainage Structure Grate Types	<input checked="" type="checkbox"/>
9.	Drainage Pipe Lengths	<input checked="" type="checkbox"/>
10.	Drainage Pipe Diameters	<input checked="" type="checkbox"/>
11.	Drainage Pipe Materials	<input checked="" type="checkbox"/>
12.	Drainage Pipe Invert Elevations	<input checked="" type="checkbox"/>
13.	Drainage Pipe Slopes	<input checked="" type="checkbox"/>
<b>Preliminary Drainage Detail Sheets</b>		
14.	Pond Layout Details	<input checked="" type="checkbox"/>
15.	Pond Sections	<input checked="" type="checkbox"/>
16.	Pond Control Structure Details	<input checked="" type="checkbox"/>
17.	Pond Access Road Details	<input checked="" type="checkbox"/>
18.	Water Quality BMP Details	<input checked="" type="checkbox"/>
<b>Calculation Package</b>		
19.	Project Description	<input checked="" type="checkbox"/>
20.	Description of Existing Conditions and Facilities to Remain	<input checked="" type="checkbox"/>
21.	Pending Existing Conditions Inspections and Evaluations	<input checked="" type="checkbox"/>
22.	Discussion of TDAs	<input checked="" type="checkbox"/>
23.	Evaluation of Mandatory Standards	<input checked="" type="checkbox"/>
24.	Stormwater Design Documentation Spreadsheet	<input checked="" type="checkbox"/>
25.	Preliminary Retrofit Cost-Effectiveness and Feasibility Analysis	<input checked="" type="checkbox"/>
26.	TDA Maps	<input checked="" type="checkbox"/>
27.	Drainage Basin Maps	<input checked="" type="checkbox"/>

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28.	TDA Area Calculations	<input checked="" type="checkbox"/>
29.	Flow Control Calculations	<input checked="" type="checkbox"/>
30.	Water Quality Treatment Calculations	<input checked="" type="checkbox"/>
31.	Inlet Spacing Calculations	<input checked="" type="checkbox"/>
32.	Sag Design Calculations	<input checked="" type="checkbox"/>
33.	Conveyance Calculations	<input checked="" type="checkbox"/>
34.	Preliminary Downstream Analysis	<input checked="" type="checkbox"/>

**COMMENTS**

Number of drainage plan, profile, and detail sheets to be determined later.

The Preliminary Hydraulic Report and City of Kirkland Preliminary TIR will be submitted with the Final Review drainage plans. The calculations package included with this submittal will

The TDA calculations will show how the required level of runoff treatment and flow control is met.

The general location of utilities will be shown on the profiles as a hatched box. For clarity, utilities will not be shown on the drainage plan sheets. A note referencing the utility plans will be included on the plan sheets.

Structure note sheets will not be used on this project. All information will be fully shown on the plans, profiles, and details.

Walls for the Project are still in preliminary at this time therefore wall drains and tie-ins will not be included in the Preliminary submittal. These will be included in the Final submittal so that they may be coordinated with the wall design.

We will coordinate with other disciplines to provide as much information regarding the curb, barrier, guardrail, sign foundations, and ITS equipment as is available at the time of the submittal.