

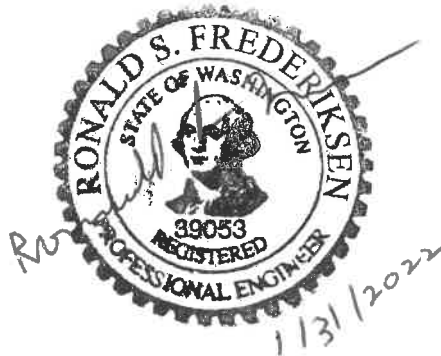
**LEVEL 1 DRAINAGE ANALYSIS**

**FOR**

**Pavilion Company**

**Eastside Consultants, Inc. File No. 22001**

**January 31, 2022**



***Prepared by:***

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### **Task 1 – Define Map and Study Area**

The downstream drainage path consists of one flow path. The flow path sheet flows northwest to a CB where it enters the city stormwater system consisting of a series of pipes and catchbasins. The stormwater runoff in the system flows north from the site until it gets passed I-90, where it then travels to the west and outfalls to Lake Washington. See the Downstream Drainage Map Section for a map defining the area. The site is located within the Patterson Creek drainage basin.

### **Task 2 – Resource Review**

A review of the IMAP Sensitive Area Maps revealed no Landslide, Erosion, Seismic, Coal, Sensitive Stream, or Wetland Sensitive Areas on or near the site. A review of the IMAP Drainage Complaint Reports showed no relevant drainage complaints on or near the site

### **Task 3 – Field Inspection**

#### Upstream basin

Consists of runoff from the neighboring lot to the east. See the Upstream Drainage Map Section for a map defining the area.

#### Downstream Basin

The downstream flowpath and basin is described in the following section. During the field inspection, no issues were found. See the Downstream Drainage Map Section for a map defining the area.

#### **Task 4 – Drainage System Description**

##### **Downstream Basin**

The storm water runoff sheet flows off the northwest corner of the property (Point A) and sheet flows northwest for approximately 21' feet before entering a type 1 CB (Point B). Runoff travels north approximately 71' across SE 24<sup>th</sup> St in a 12" concrete pipe to a type 2 CB (Point C). The runoff then flows west for approximately 54' underneath 606<sup>th</sup> Ave SE through an 18" concrete pipe to a type 2 CB (Point D). Runoff then flows north for approximately 99' along west side of 60<sup>th</sup> Ave SE within an 18" concrete pipe to a type 1 CB (Point E). Runoff then flows north along west side of 60<sup>th</sup> Ave SE for approximately 38' within a 20" concrete pipe to a type 1 CB (Point F). Runoff then flows north along west side of 60<sup>th</sup> Ave SE for approximately 163' within a 20" concrete pipe to a type 1 CB (Point G). Runoff then flows northwest crossing under a parking lot for approximately 95' through an 18" concrete pipe a type 1 CB (Point H). The runoff then flows west through an 18" concrete pipe for approximately 111' to a type 2 CB (Point I). The runoff then flows west in a 30" ductile iron pipe for approximately 59' until it reaches the outfall to Lake Washington (Point J).

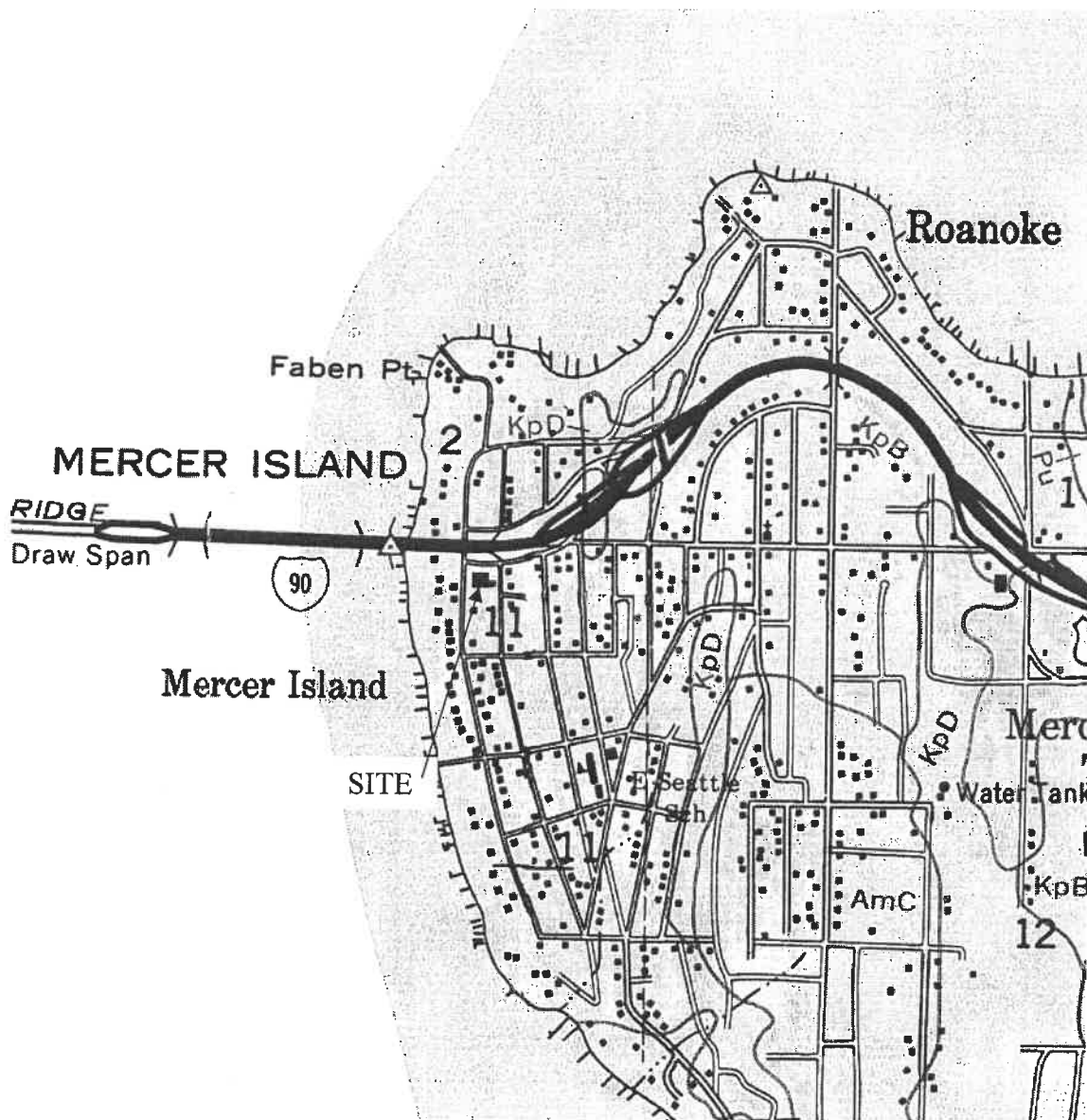
#### **Task 5 – Mitigation of Existing or Potential Problems**

No issues were found during the downstream investigation. This project will not create a significant impact to the downstream conveyance system.

**QUAD, SOILS, AND VICINITY MAPS**

# SOILS MAP

N.T.S.

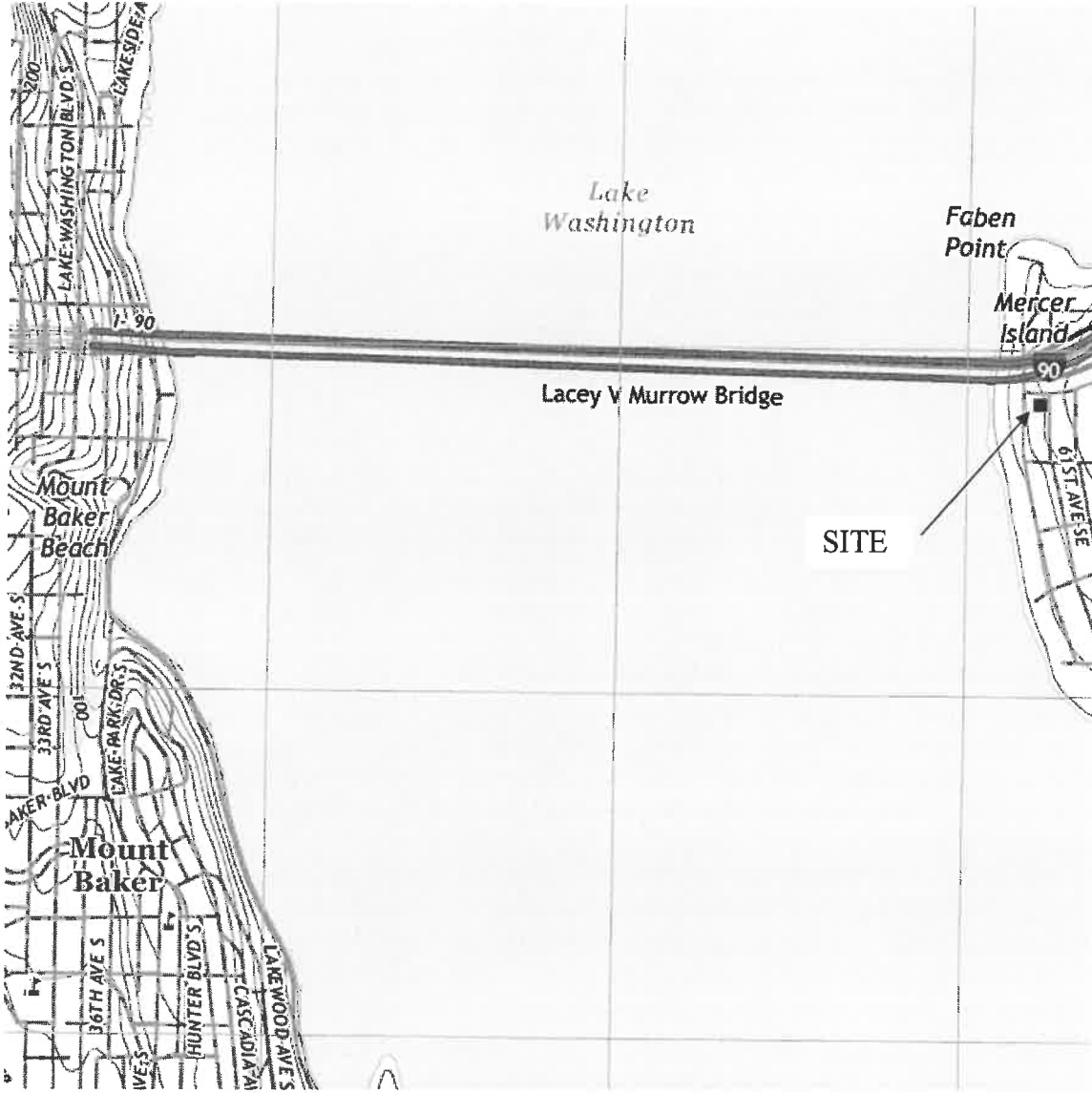


# VICINITY MAP

N.T.S.



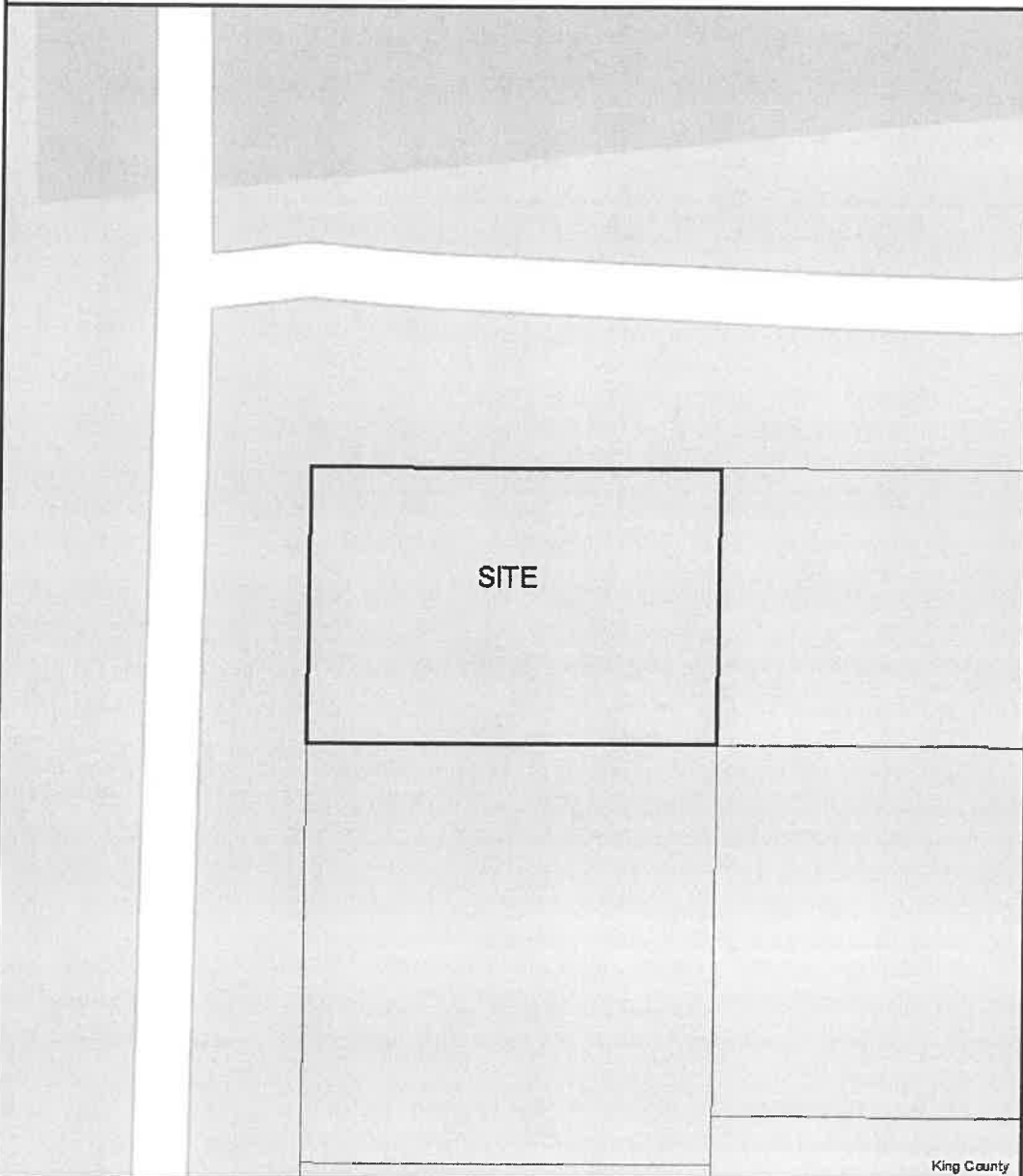
# QUAD MAP



**1990 SENSITIVE AREA FOLIO MAPS**



# EROSION HAZARD MAP



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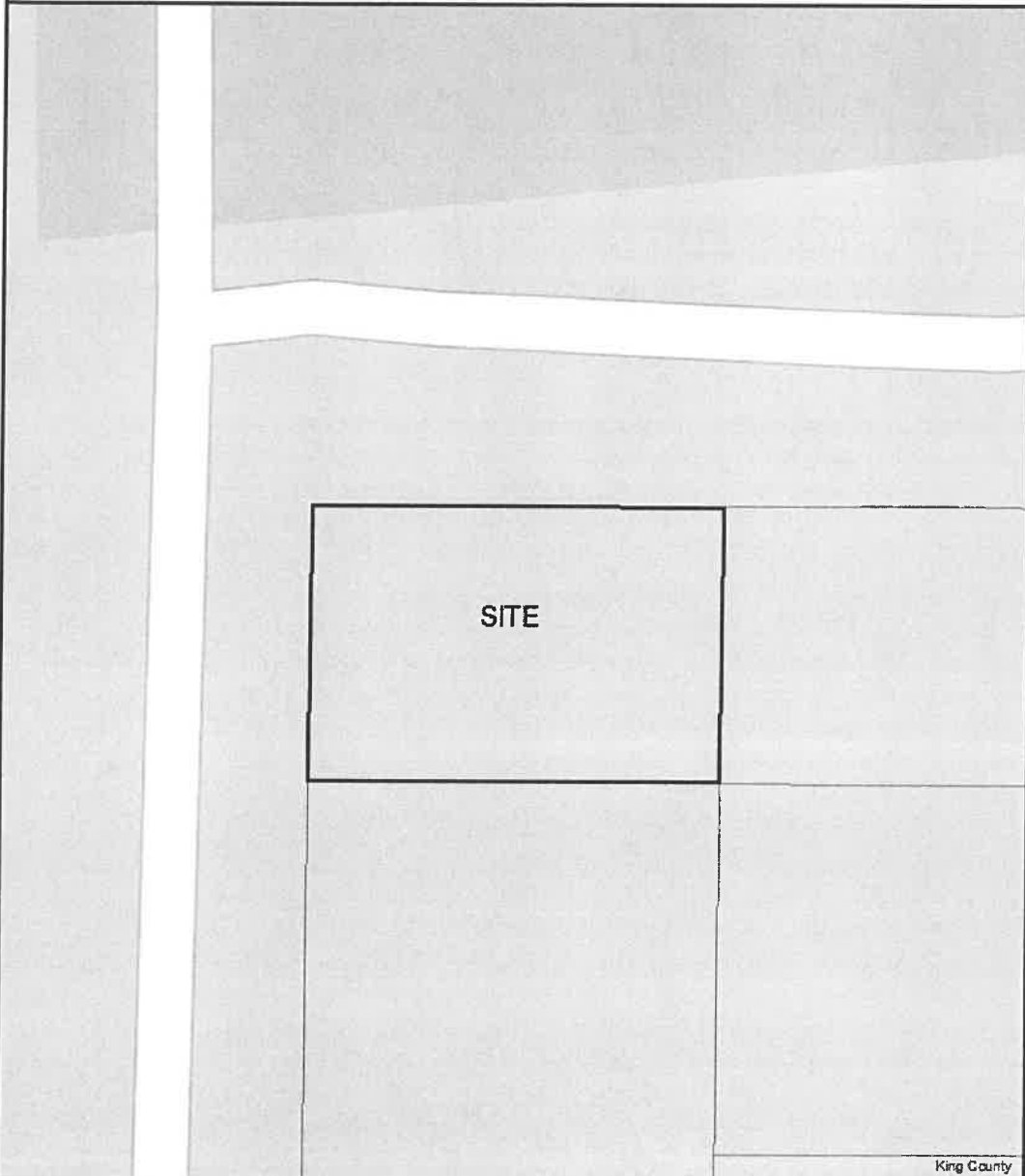
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# SEISMIC HAZARD MAP



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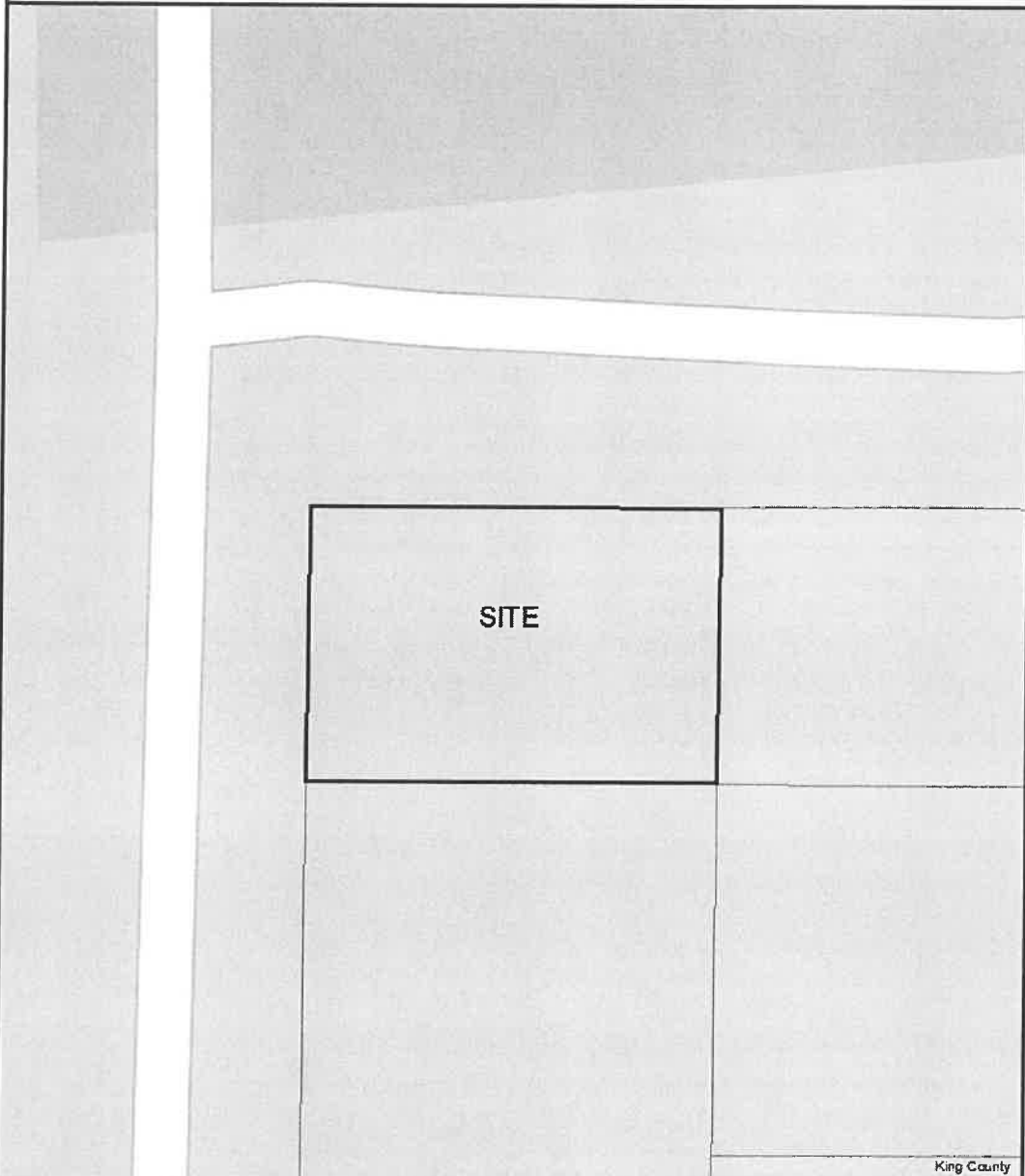
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# SENSITIVE STREAM MAP



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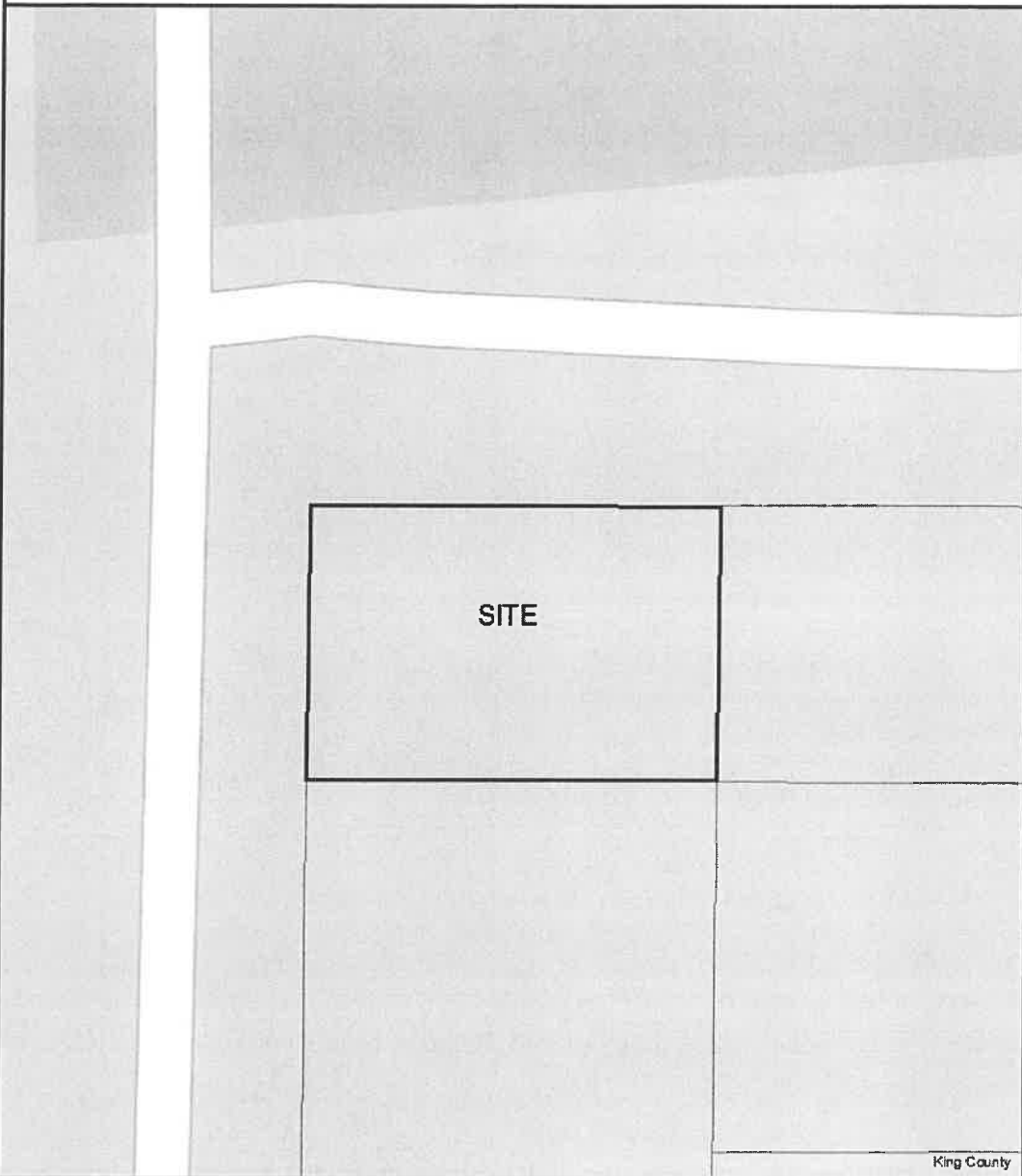
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# LANDSLIDE HAZARD MAP



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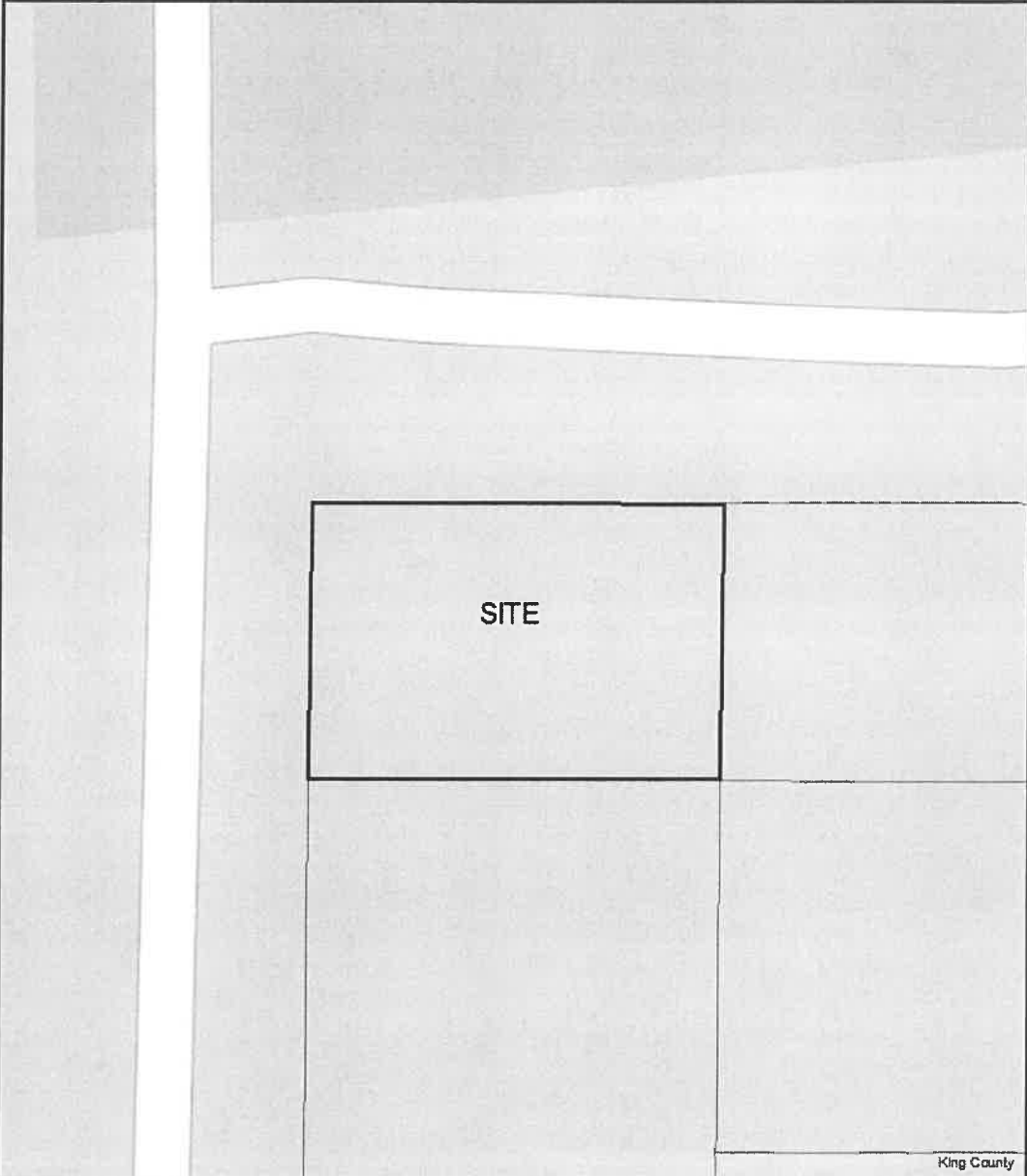
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# COAL MINE HAZARD MAP



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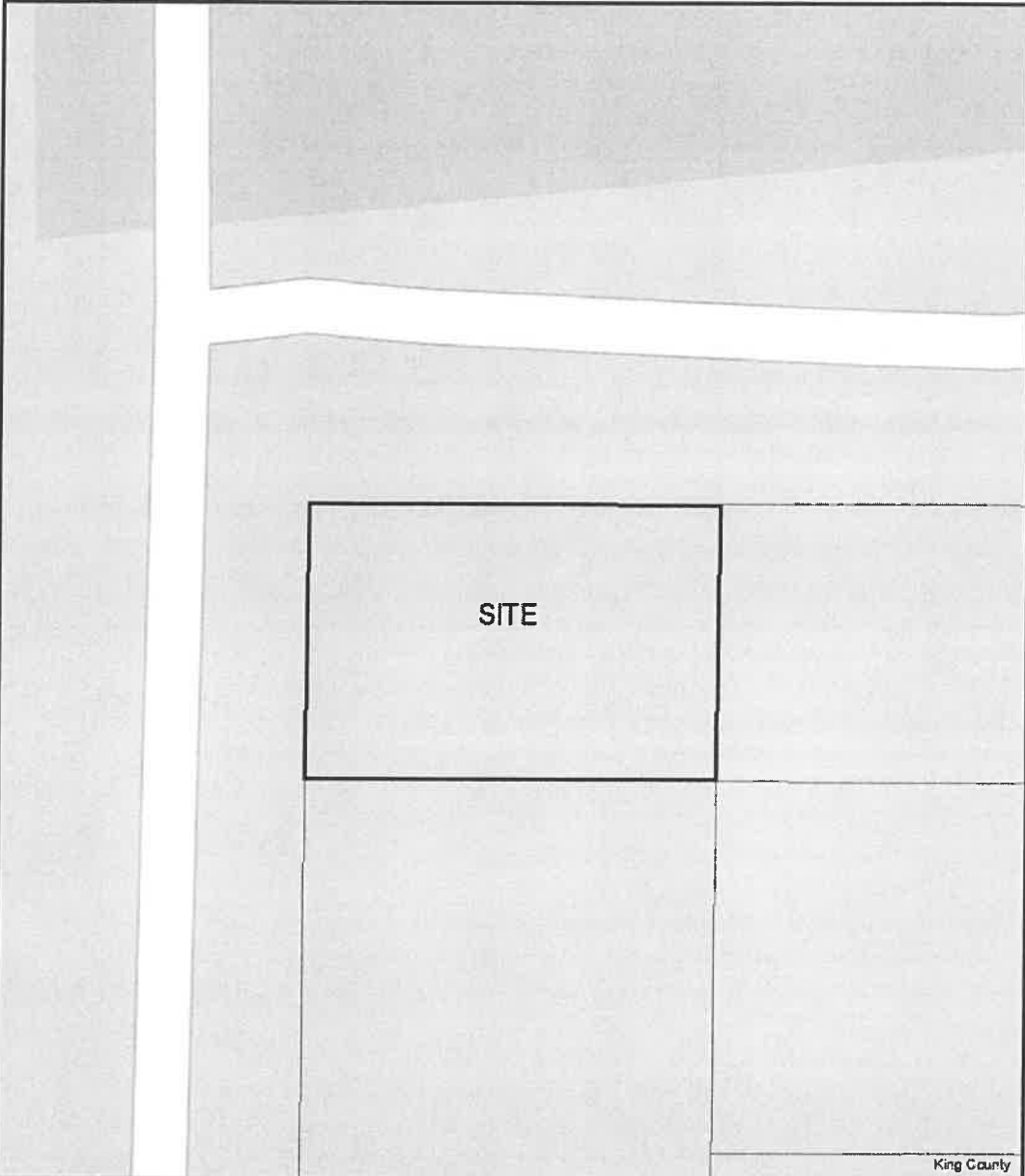
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# WETLAND MAP



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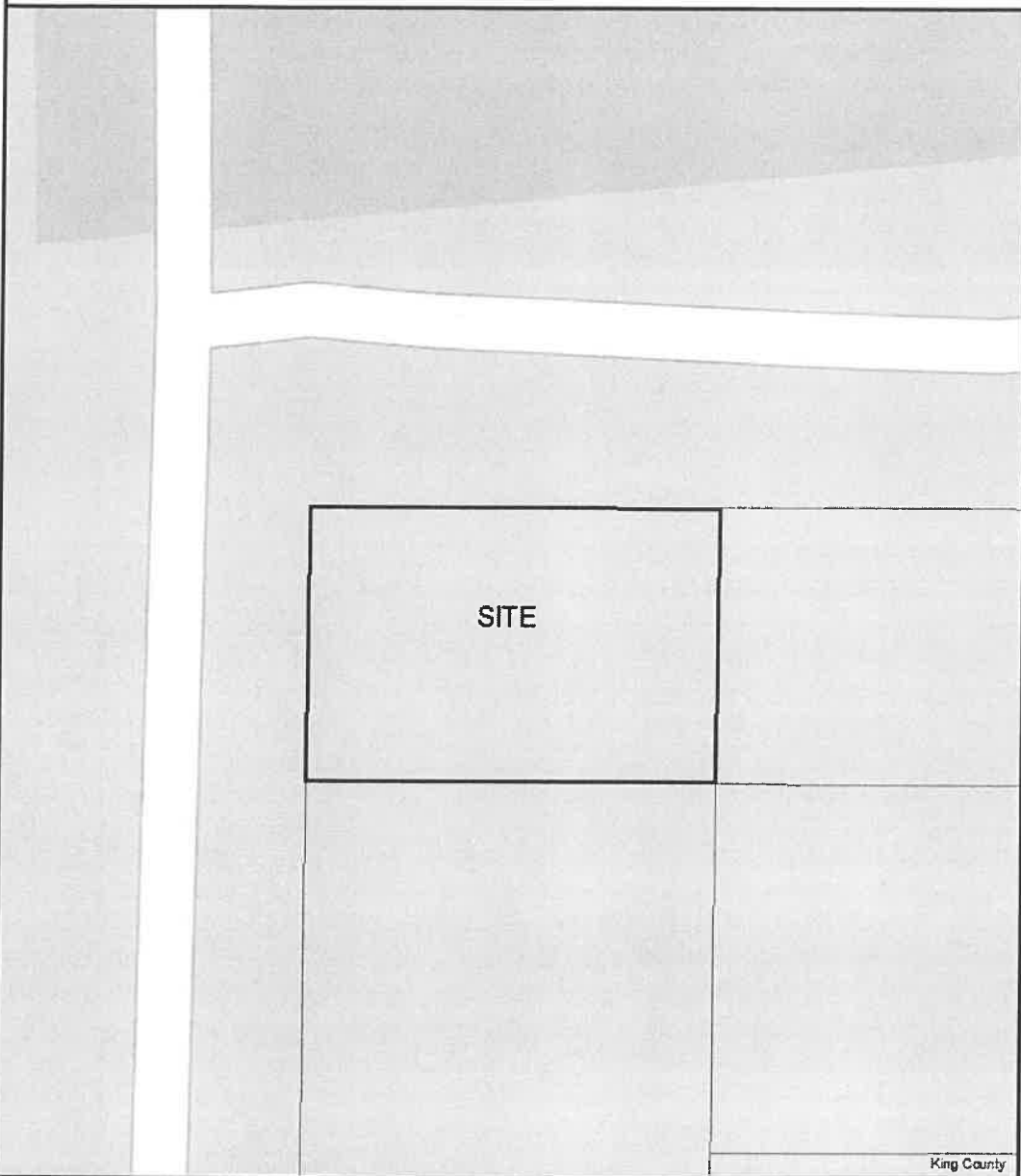
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## **DRAINAGE COMPLAINTS**

# DRAINAGE COMPLAINTS



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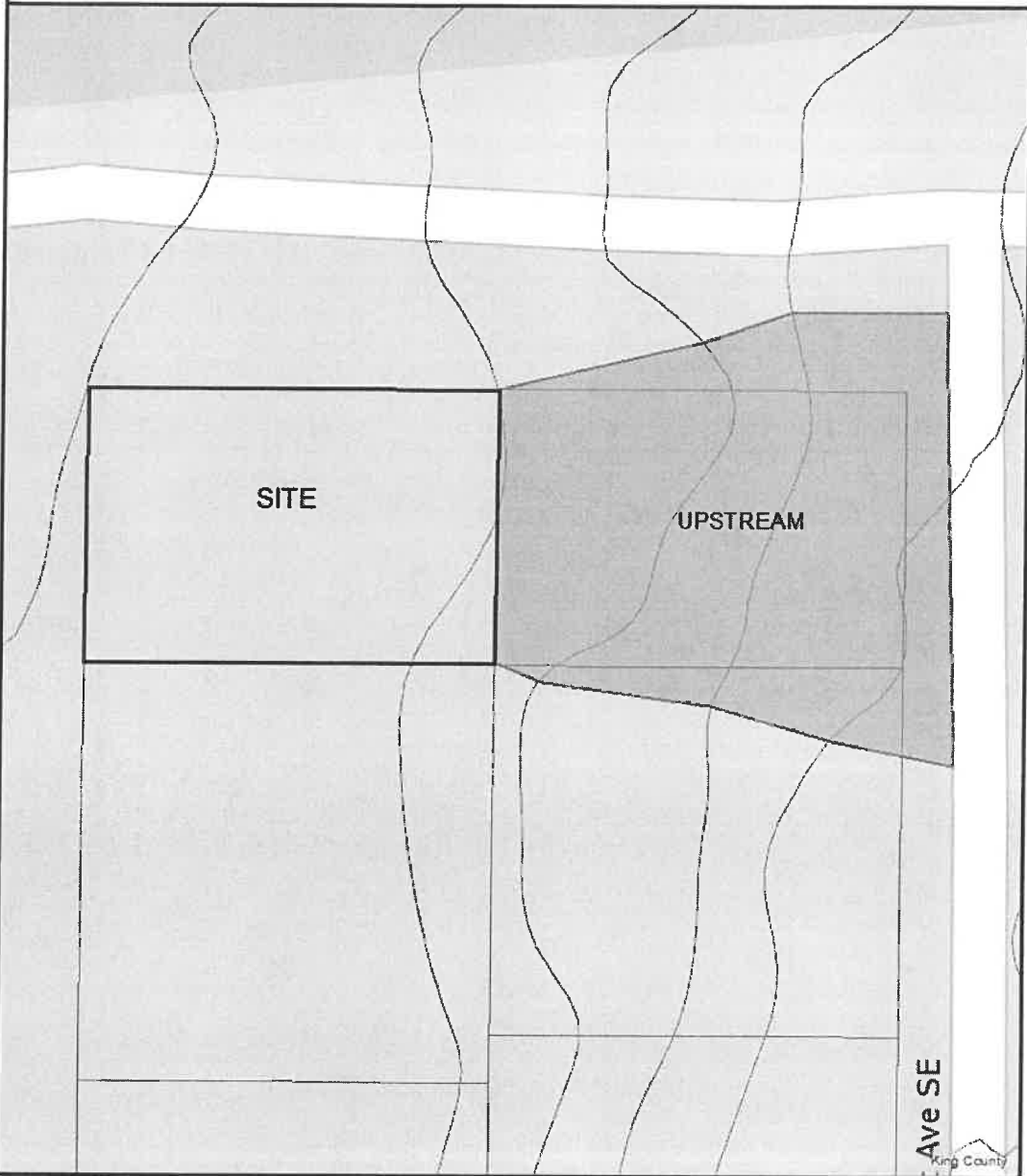


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## **UPSTREAM DRAINAGE MAPS**

# UPSTREAM DRAINAGE



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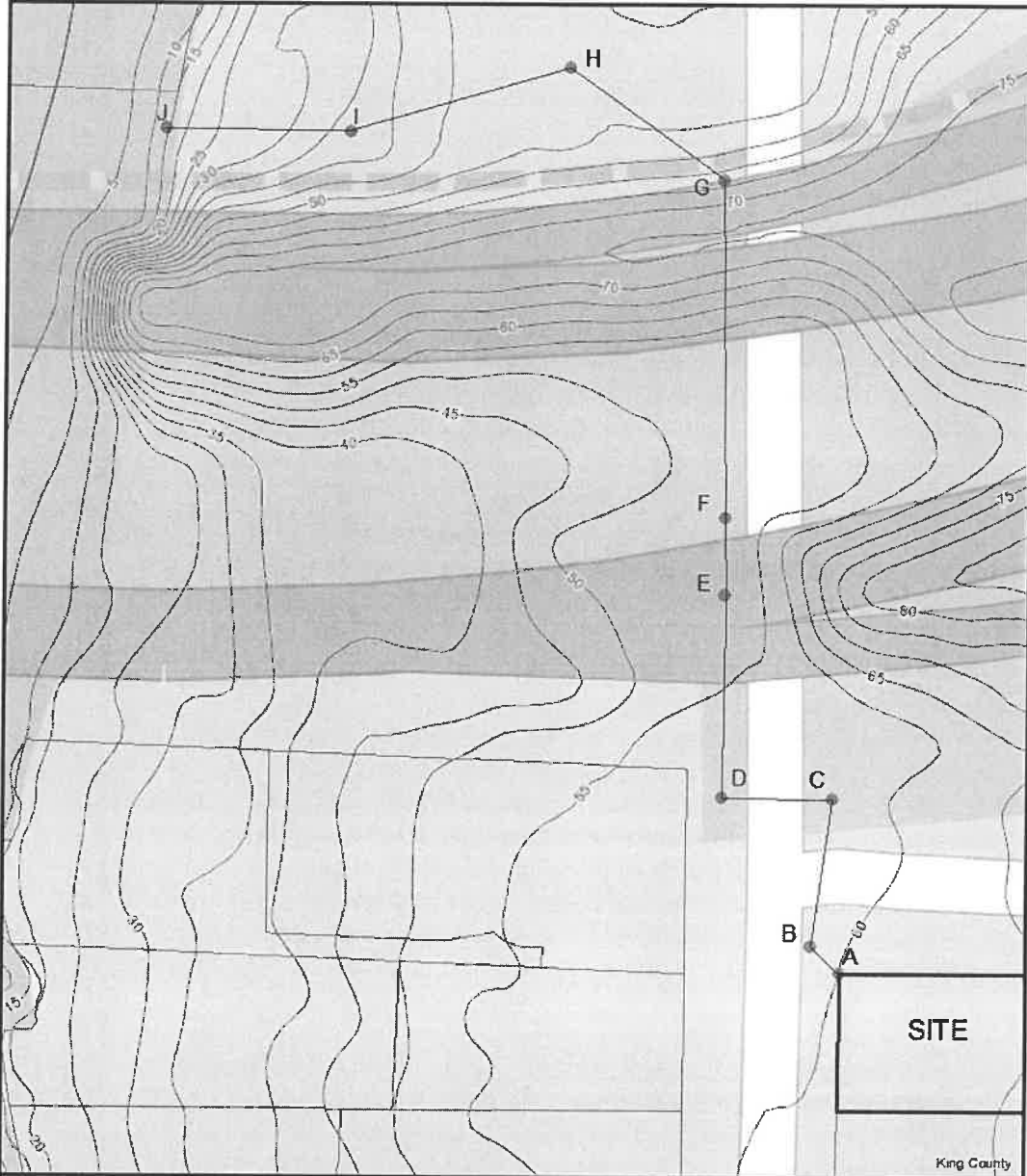
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## **DOWNSTREAM DRAINAGE MAPS**

# DOWNSTREAM DRAINAGE



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**OFF-SITE ANALYSIS DRAINAGE SYSTEM TABLE**

**OFF-SITE ANALYSIS DRAINAGE SYSTEM TABLE  
SURFACE WATER DESIGN MANUAL, CORE REQUIREMENT #2**

**Basin:** Mercer Island      **Subbasin Name:** Cedar-Sammamish      **Subbasin Number:** 8

<b>Symbol</b>	<b>Drainage Component Type, Name, and Size</b>	<b>Drainage Component Description</b>	<b>Slope</b>	<b>Distance from site discharge</b>	<b>Existing Problems</b>	<b>Potential Problems</b>	<b>Observations of field inspector, resource reviewer, or resident</b>
see map	Type: sheet flow, swale, stream, channel, pipe, pond; Size: diameter, surface area	drainage basin, vegetation, cover, depth, type of sensitive area, volume	%	¼ ml = 1,320 ft.	constrictions, under capacity, ponding, overtopping, flooding, habitat or organism destruction, scouring, bank sloughing, sedimentation, incision, other erosion		tributary area, likelihood of problem, overflow pathways, potential impacts
A	Site Discharge			0	None observed	None	Looked in good condition
A-B	Sheet Flow	Northwest to type 1 CB		0' - 21'	None observed	None	Looked in good condition
B-C	12" Concrete Pipe	North across SE 24 <sup>th</sup> St to type 2 CB		21' - 92'	None observed	None	Looked in good condition
C-D	18" Concrete Pipe	West underneath 606 <sup>th</sup> Ave SE to a type 2 CB		92' - 146'	None observed	None	Looked in good condition
D-E	18" Concrete Pipe	North along west side of 60 <sup>th</sup> Ave SE to a type 1 CB		146' - 245'	None observed	None	Looked in good condition
E-F	20" Concrete Pipe	North along west side of 60 <sup>th</sup> Ave SE to a type 1 CB		245' - 283'	None observed	None	Looked in good condition
F-G	20" Concrete Pipe	North along west side of 60 <sup>th</sup> Ave SE to a type 1 CB		283' - 446'	None observed	None	Looked in good condition
G-H	18" Concrete Pipe	Northwest crossing under parking lot to a type 1 CB		446' - 541'	None observed	None	Looked in good condition
H-I	Concrete Pipe	West to a type 2 CB		541' - 652'	None observed	None	Unable to access, but looked in working order.

I-J	30" Ductile Iron Pipe	West to outfall to lake.		652'-741'	None observed	None	Looked in good condition
J	End of Downstream	Outfall		741'	None observed	None	Looked in good condition