Public Health – Seattle & King County Environmental Health Division

DESIGN CHECKLIST ON-SITE SEWAGE SYSTEM (OSS)

The following checklist is a guide to assist the designer in submitting a complete site design application. It should not be included with the site application. A properly prepared site application must include the items listed below along with any additional details and specifications required by applicable provisions of The Code of the King County Board of Health – Title 13. The designer must insure that all materials and documents submitted are legible and properly collated. A minimum of four complete design applications/sets must be submitted.

SITE ADDRESS: _____

PARCEL NUMBER:									
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	Yes	No
SITE DESIGN APPLICATION FORM		
The form is completely filled out, submitted in quadruplicate, and accompanied	ł	
by the appropriate fee.		
• Signature of designer or PE in blue ink		
• Stamp of designer or PE on drawings and calculation page		
Data on all copies must be legible (failure to provide legible documents is		
cause for rejection).		
Cover letter if you need to explain any unusual circumstances		
Label the top of site application form if any of the following apply;		
revision, resubmission or repair due to a failing OSS (Note: include a copy of		
the site application denial letter if connected to a previous submission).		
VICINITY MAP AND SITE PREP		
Reference maps are provided (vicinity, location and routing to site)		
• Written directions provided to site from last labeled street.		
• Lot labeled with designers sign and clients name at entry point		
• Route to soil log holes and well site flagged and trail cleared		
SOIL AND SITE EVALUATION		
Soil logs (minimum of 5 per site) – properly located, sized, constructed and		
maintained (i.e. to preclude safety hazards, see Title 13, section 13.28.050) - ar	e	
installed.		
• One soil log hole located by wastewater tanks and treatment device.		
• At least four soil logs define the primary and reserve areas		
An accurate description of soil conditions is provided		
Texture, structure, compaction and affect on treatment and water movement		
potential is indicated		
The USDA (SCS) soil classification is used		
Description of structurally deficient soils (if present) is included		
Description and location of sensitive areas (if present) is included		
All encumbrances affecting OSS placement have been identified		
wells, other water sources, water supply lines		
seasonal water		
surface water		
abandoned wells		
restrictive layer and/or bedrock outcrops		

existing buildings, property lines	<u> </u>
drainage structures (e.g. footing drains, curtain drains, drainage ditches)	_
cuts, banks, and fills	
driveways and parking areas	
existing OSS	
underground utilities	<u> </u>
others not listed above	
PARCEL PLOT PLAN A 1"=20' scale or larger scale is used. The parcel plot plan is presented on	4
A $1 = 20$ scale of larger scale is used. The parcel plot plan is presented on paper that is 11" x 17" or smaller.	
A North arrow is indicated on the plan	+
The location and description of design control point(s) are indicated	
Property and easement lines are shown, (specific lengths are indicated)	
Topographical contours at 2' intervals are shown	
Direction of surface drainage is shown	
Size of building is indicated	
The maximum building footprint area(s) is/are shown	
The plans shows existing structures present (on site)	+
	+ +
Plan shows the location of wastewater tank(s)	
Primary and reserve SAS are shown on the plot plan	_
The boundaries of the SAS detail drawing are indicated	
All installed soil logs are shown on plan	
The plan shows the location of existing or proposed potable water source	
Critical areas are incorporated into drawing along with associated buffers and	
setbacks	
If present, neighboring wells within 100 feet; and other sources within	
200 feet are shown	
CONSTRUCTION PLANS AND SPECIFICATIONS	
The plumbing stub elevation is indicated	7
Vertical section detail drawings are provided	
The Dimensions of wastewater tank details are provided	
Minimum and maximum elevation of installation is specified	
Maximum depth of cover to be placed over tank(s) is indicated	
The seasonal groundwater table elevation at the tank located acceptable (below	
the inverts)	
The depth of required bedding material is specified	
Minimum and maximum drainfield width specified	+ +
Minimum and maximum drainfield depth specified	+
Vertical separation is indicated	+
The amount of cover material and details for placement is indicated	<u> </u>
Other OSS components to be constructed at the site are included	<u> </u>
Construction plans show pre-installation protection of areas designated for OSS	
components and any down slope effluent absorption area	
Construction specifications are included for sand-based treatment system on	
non-level/restricted site	
SOIL ABSORPTION SYSTEM (SAS) DETAIL DRAWING	
The drawing uses/represents a 1"=20' scale. Maximum paper size is 11"x17"]
Design control point(s) located within the designated drainfield area	
The drawing shows the location and dimensions of all components of the	1 1
primary and reserve systems	

	Trench widths are shown	
	Trench lengths are shown	
	Horizontal separations are indicated	
	Slopes in primary and reserve areas and of location proposed for sand-based	
	treatment component (e.g. sand filter) are indicated	
	The design includes specifications for reserve components (i.e. when the	
	proposed elevation of the reserve area is above the septic outlet)	
	The drawing specifies setbacks to proposed or existing water lines	
PR	OPOSED NON-WASTEWATER DRAINS	
	Application includes construction details for and location of:	
	Footing drains	
	Curtain drains	
	Interceptor drains	
DC	SING SYSTEM SPECIFICATIONS	
	Primary pump chamber specifications are indicated	
	Secondary pump chamber/pumpwell dosing specifications are indicated	
	Control Panel location shown in line of sight to pump tank	
	Control panel for pressure systems specified in design	
W	ATER SUPPLY	
	A valid water availability letter (if applicable) is included	
	The water supply is sited in an approved location	
	Source protection covenant(s) is/are recorded	
	The quality of the water is in compliance	
	The quantity produced by the source is in compliance	
01	HER	
	The design meets applicable guidelines and/or Health Department policy and procedure (check the wastewater web site for updates www.kingcounty.gov/oss)	
	Applicable covenant(s) are recorded per code	
	Non-single family proposals:	
	Covenant filed stating that owner(s) are responsible for O&M	
	The sewage entering the OSS meets the criteria as non-industrial Wastewater	
	The OSS effluent contacting the infiltrative surface will have typical residential	
	characteristics (see Title 13, 13.08.372)	
	If a repair design for a failing OSS, included information on why the system	
	failed and why the proposed repair meets the appropriate requirements for	
	repairs according to Title 13.	
	Operational Parameters Established:	
	• Operational capacity indicated (see 13.28.030 V)	
	• Residential waste strength range the system is designed to operate	
	under continuously (see Table 13.08-1 & 13.28.030, X)	
	Watertight testing procedure for wastewater tanks identified	
	Plans for system operation monitoring and maintenance are included(Title 13,	
	Chapter 13.60)	