

SCHEI VICINITY MAP
 47°35'41.34" N / -122°13'50.72"W

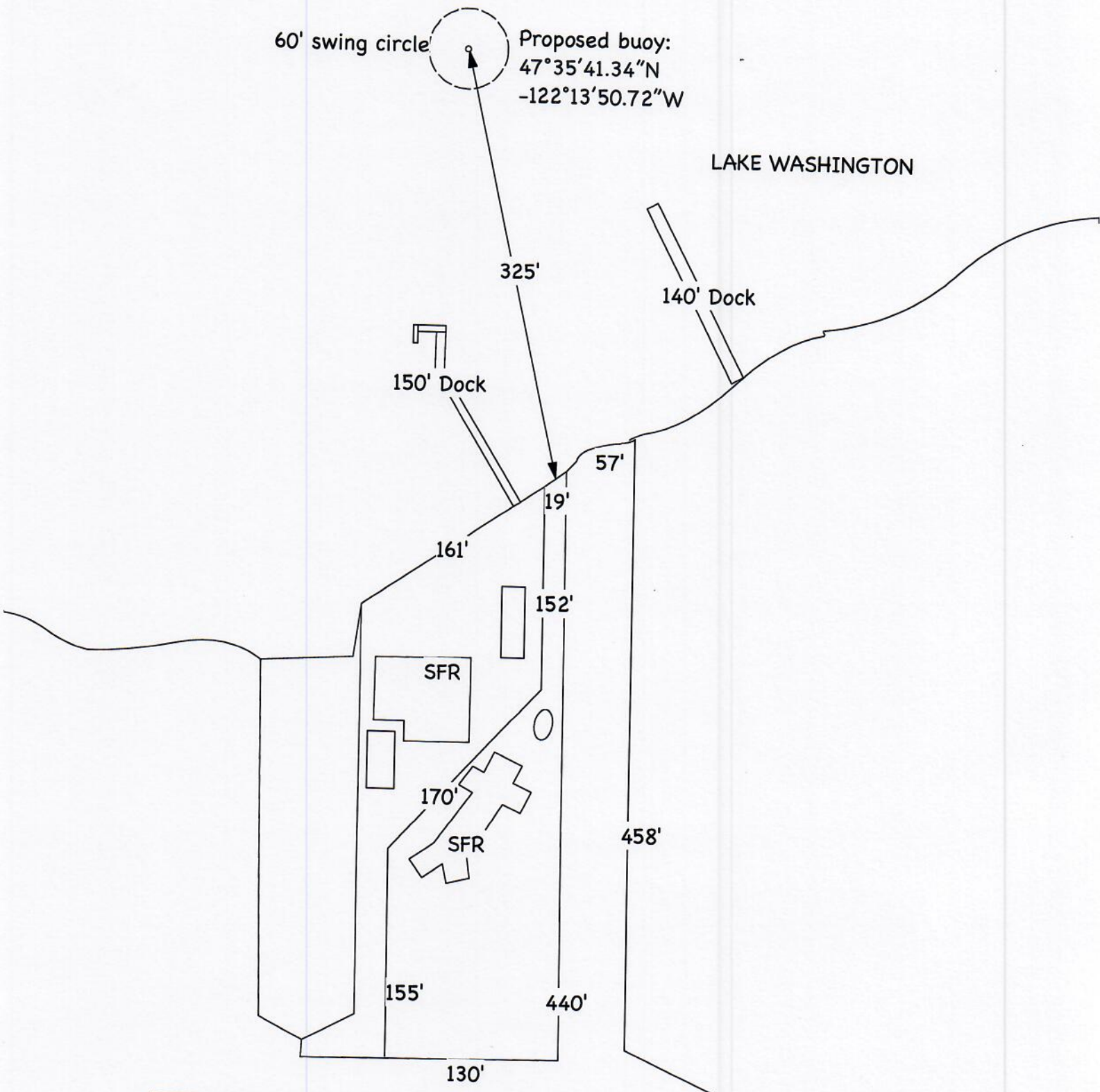
Directions from Seattle:

Head east on I-90. Take exit 7 for Island Crest Way and continue onto N. Mercer Way. Take 80th Ave SE to SE 20th Street. Turn right onto 81st Ave SE and left onto SE 24th Street. Turn right onto 80th Ave SE and then right onto SE 20th Street. 8030 is on the left.



<p>PURPOSE: Buoy for summer moorage. DATUM: MLLW=0.0' NOF ADJACENT PROPERTY OWNERS: N: Robin Phillips S: Billow</p>	<p>REFERENCE: APPLICANT: Kjell & Katerie Schei LOCATION ADDRESS: 8030 SE 20th Street Mercer Island, WA 98040 DATE: February 17, 2020</p>	<p>PROPOSED: Install helical anchor, line, chain, mid-line float and white buoy. IN: Lake Washington NEAR/AT: Mercer Island COUNTY: King STATE: WA SHEET: 1 of 3</p>
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SCHEI SITE PLAN



REFERENCE: APPLICANT: Kjell & Katerie Schei
PROPOSED: Install new mooring buoy with helical anchor for summer moorage.
AT: Lake Washington, Mercer Island COUNTY: King STATE: WA
SHEET: 3 of 3 DATE: February 17, 2020

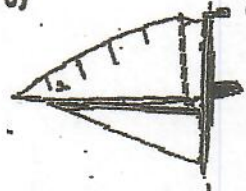
Cross-Sectional View Worksheet

GPS Location: $47^{\circ} 35' 41.34''$ N $-122^{\circ} 13' 50.72''$ W
 (Subject to verification by the City)

Owner: Schei, Kjell + Katerie
 DNR Lease/License # N/A

STEP 1

Bottom Depth = 18 feet MLLW
 (At mean low, low water or tide)
 (Minimum Depth = -9 feet MMLW
 Maximum Depth = -18 feet MMLW)



Reflector
 Color: White
 Banding Color: Blue
 Type of Line?

STEP 2

Bottom Depth + Extreme High Water (14'5") = Depth Extreme High Tide (DEHT) 32.5
 DEHT 30.5 + Scope 15% 4.5 = Length of Line (L) 37

Mid-Line Float
 Located 1/3 of Line Length

ELW

No Eelgrass or Macroalgae Present

STEP 3

Bottom Depth less extreme low water (-4.5') = depth extreme low tide (DELTA) 18
 BD 13.5 - 4.5' = DELTA

Eelgrass or Macroalgae Present

Ecology Block
 Anchor option with dive survey

STEP 4

**Swing = $\sqrt{(L^2) - (DELTA)^2}$ = 34.5

Check One

+ 5 Bowline

+ 20 Vessel Length

59.5 Swing

REFERENCE:
 PROPOSED: Install new mooring buoy with helical anchor for summer moorage.
 AT: Lake Washington, Mercer Island COUNTY: King STATE: WA
 SHEET: 2 of 3 DATE: February 17, 2020
 APPLICANT: Kjell & Katerie Schei