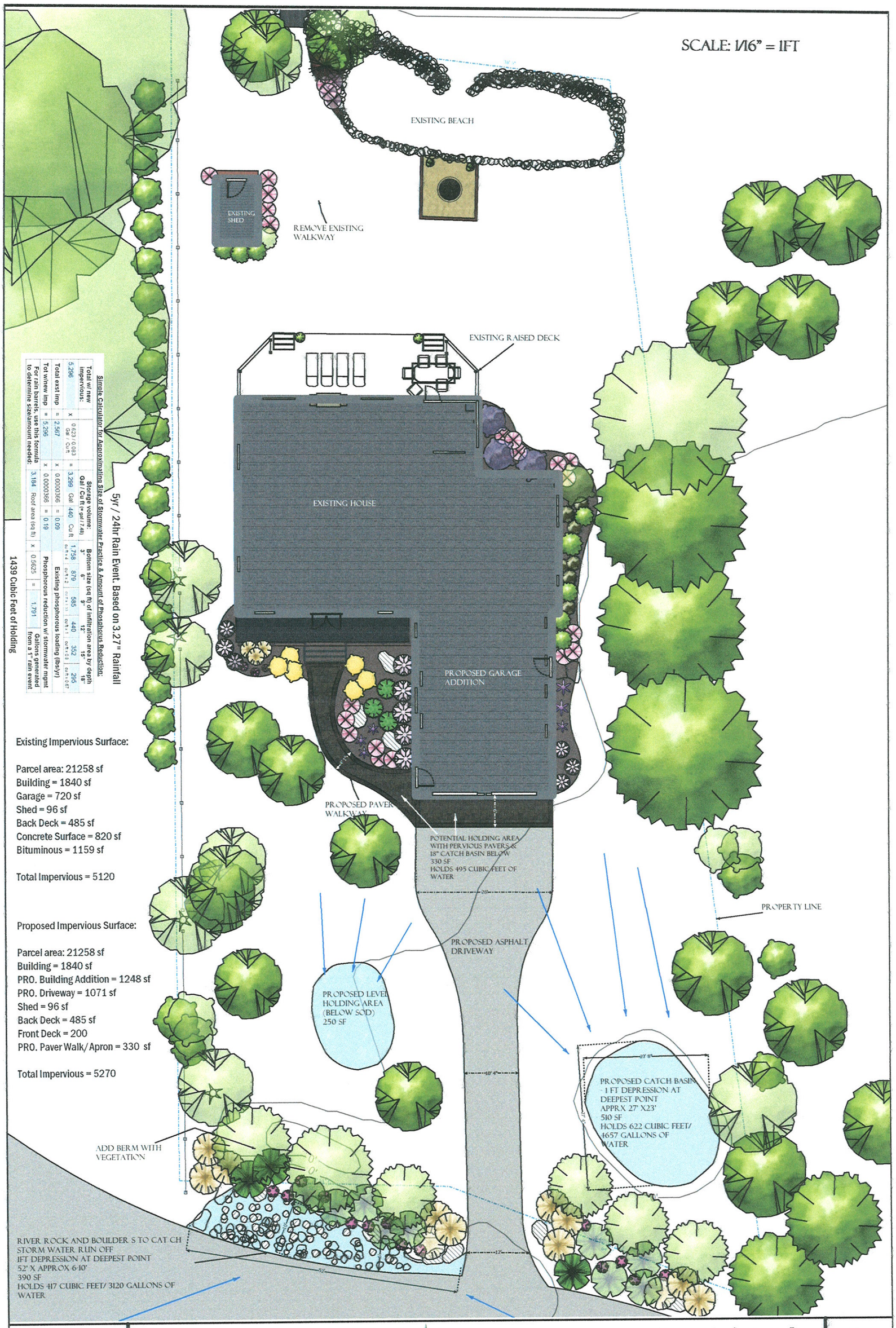

Simple Calculator for Approximating Size of Stormwater Practice & Amount of Phosphorus Reduction:

Total w/ new impervious:			Storage volume: Gal / Cu ft (= gal / 7.48)			Bottom size (sq ft) of infiltration area by depth				
						3"	6"	9"	12"	15" 18"
5,296	x	0.623 / 0.083 Gal / Cu ft	= 3,299	Gal	440 Cu ft	1,758 cu ft x 4	879 cu ft x 2	585 cu ft x 1.33	440 cu ft x 1	352 cu ft x 0.8 / 295 cu ft x 0.67
Total exst imp	=	2,567	x	0.0000366	= 0.09	Existing phosphorous loading (lbs/yr)				
Tot w/new imp	=	5,296	x	0.0000366	= 0.19	Phosphorous reduction w/ stormwater mgmt				
For rain barrels, use this formula to determine size/amount needed:			3,184	Roof area (sq ft)	x	0.5625	=	1,791	Gallons generated from a 1" rain event	

5yr / 24hr Rain Event. Based on 3.27" Rainfall

1439 Cubic Feet of Holding

Existing Impervious Surface:

Parcel area: 21258 sf
Building = 1840 sf
Garage = 720 sf
Shed = 96 sf
Back Deck = 485 sf
Concrete Surface = 820 sf
Bituminous = 1159 sf

Total Impervious = 5120

Proposed Impervious Surface:

Parcel area: 21258 sf
Building = 1840 sf
PRO. Building Addition = 1248 sf
PRO. Driveway = 1071 sf
Shed = 96 sf
Back Deck = 485 sf
Front Deck = 200
PRO. Paver Walk/Apron = 330 sf

Total Impervious = 5270

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Backyard Reflections. Inc.
24142 Smiley Road
Nisswa. MN 56468
(218) 454-1065
www.backyardmn.com

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