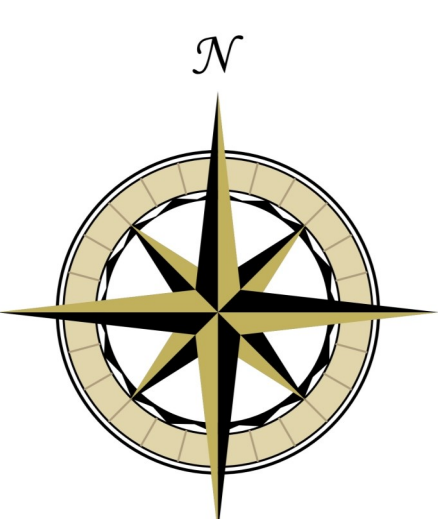


IMPERVIOUS SURFACE COVERAGE:

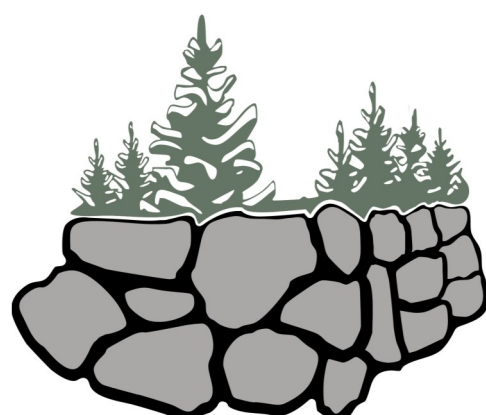
Lot Area:	30,690	SF
Existing Cabin:	1,456	SF
Existing Garage:	308	SF
Existing Shed:	120	SF
Existing Bituminous	5,991	SF
Existing Gravel	1,665	SF
Existing Concrete	1,079	SF
Proposed Addition	256	SF
Impervious Coverage:	10,875	SF
Impervious Percent:	35.4%	

Total w/ new Impervious:		Storage volume:	Bottom size (sq ft) of infiltration area by depth
10,875	x 0.623 / 0.083 Gal / Cu ft	= 6,775 Gal 903 Cu ft	3" 6" 9" 12" 15" 18"
Total ext imp	= 10,619	x 0.0000366 = 0.39	Existing phosphorous loading (lbs/yr)
Tot w/new imp	= 10,875	x 0.0000366 = 0.40	Phosphorous reduction w/ stormwater mgmt
For rain barrels, use this formula to determine size/amount needed:		Roof area (sq ft) x 0.5625 =	0 Gallons generated from a 1" rain event

	EXISTING	IMPERV	TOTAL
RAINWATER DEPRESSIONS:			
Foundation Beds	710 SF	4" Depth	1,753 Gallons
Depression B:	272 SF	6" Depth	1,017 Gallons
Depression C:	400 SF	6" Depth	1,496 Gallons
Rain Garden D:	446 SF	9" Depth	2,502 Gallons
Rain Garden E:	153 SF	9" Depth	858 Gallons
Totals:	1,981 SF	=	7,626 Gallons



Sackreiter Stormwater
32601 Timberlane Pt
Breezy Point, MN 56472



BACKYARD REFLECTIONS

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11/17/23