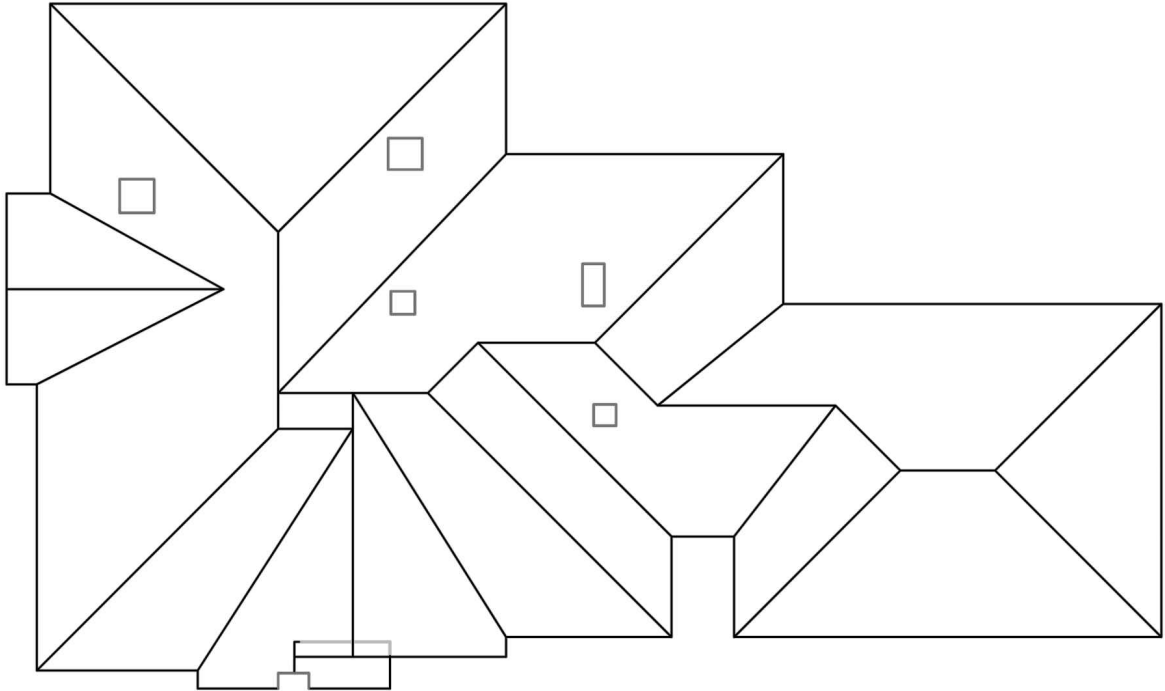




PROJECT SUMMARY

Total Facets: 19

Predominant Pitch: 4/12

Total Squares (Net): 50.29

Total Squares (15% Waste): 57.83

MEASUREMENT BREAKDOWN

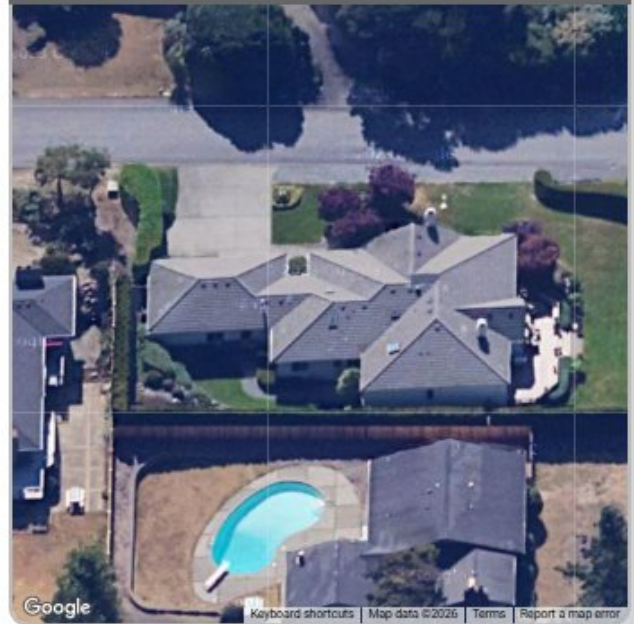
Eave:	308'
Rake:	58'
Valley:	179'
Ridge:	98'
Hip:	239'
Transition:	20'
Chimney Apron:	6'
Chimney Step:	10'



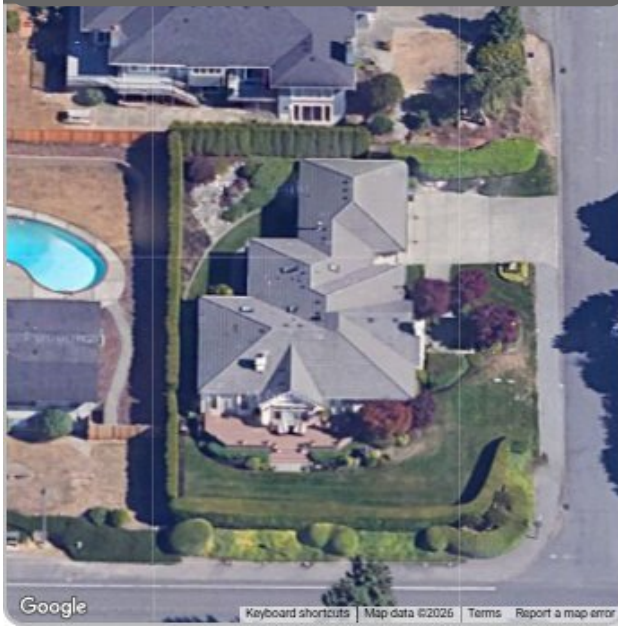
North View



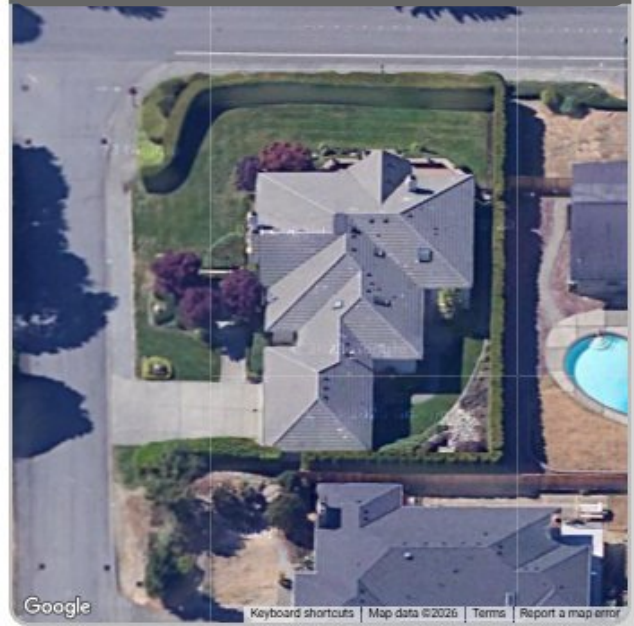
South View



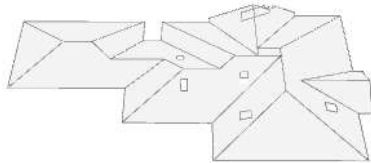
East View



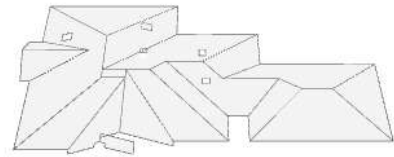
West View



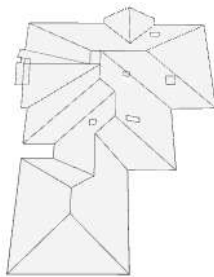
North View



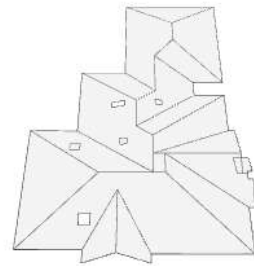
South View

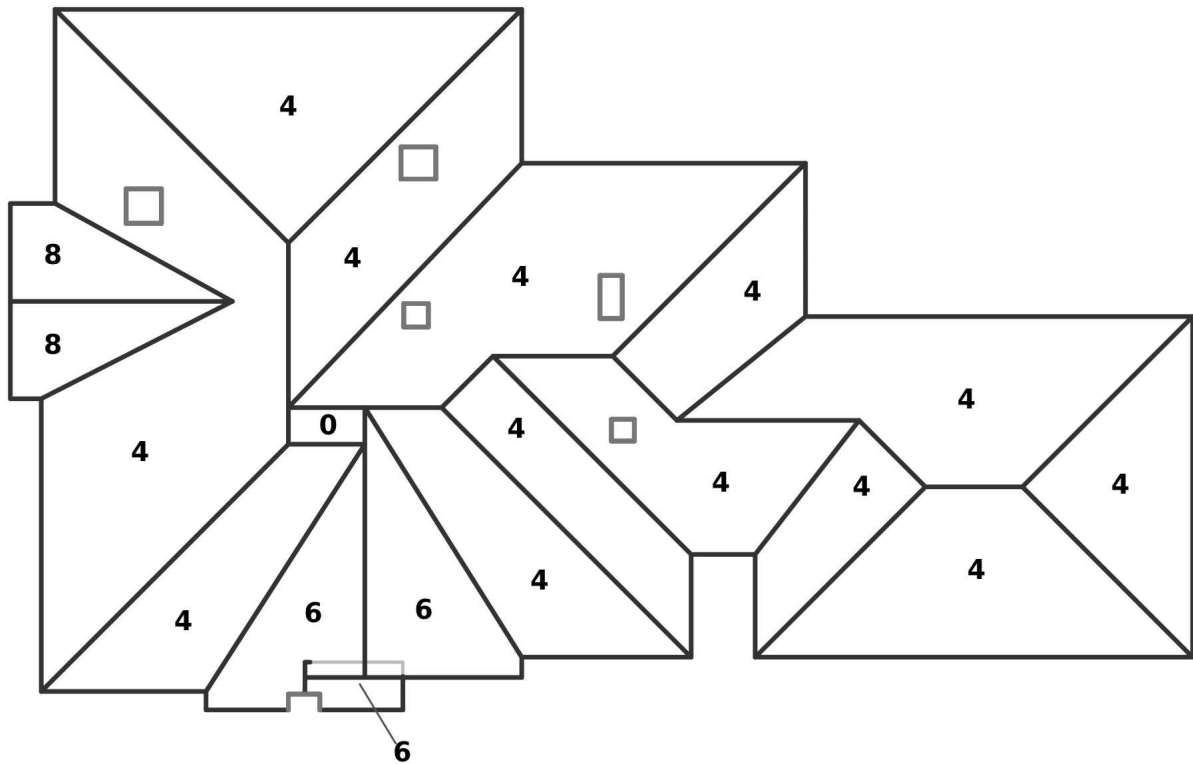


East View



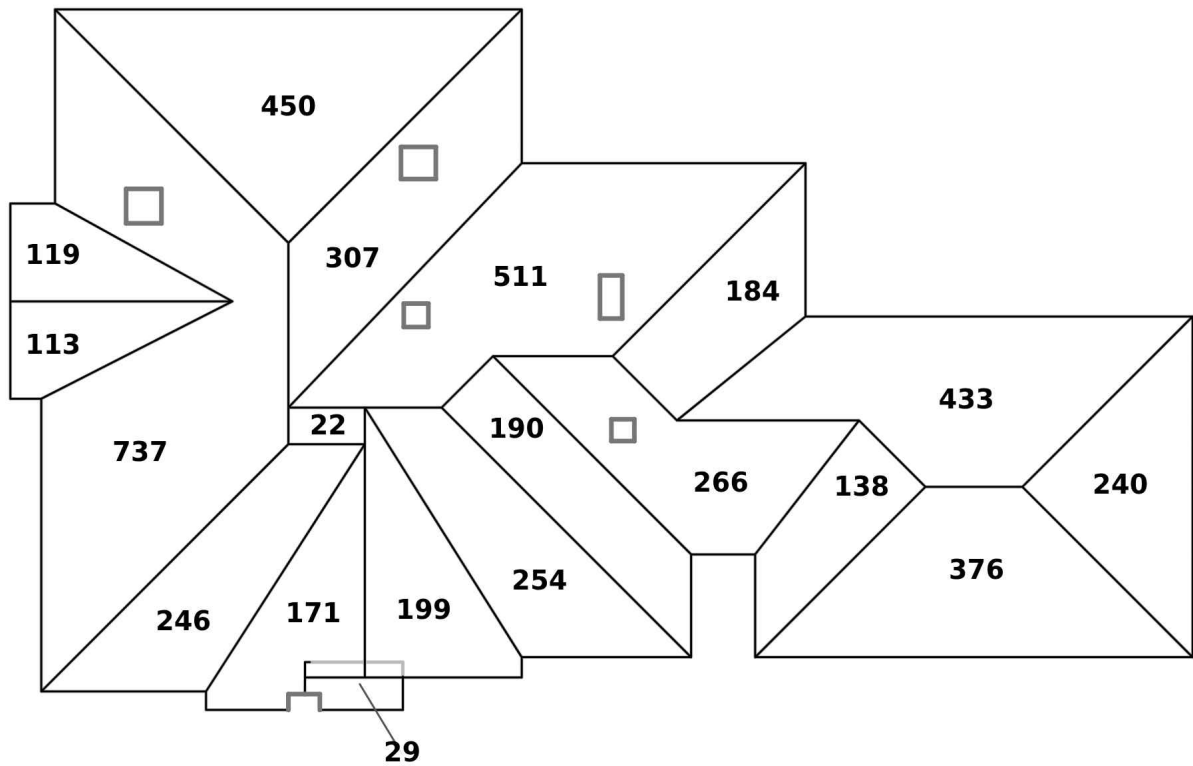
West View





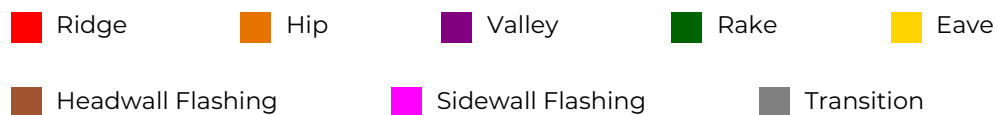
PITCH BREAKDOWN

Pitch	Area	Percent
4/12	31.39	62%
5/12	12.13	24%
6/12	4.17	8%
8/12	2.38	5%
0/12	0.22	0%



PITCH BREAKDOWN

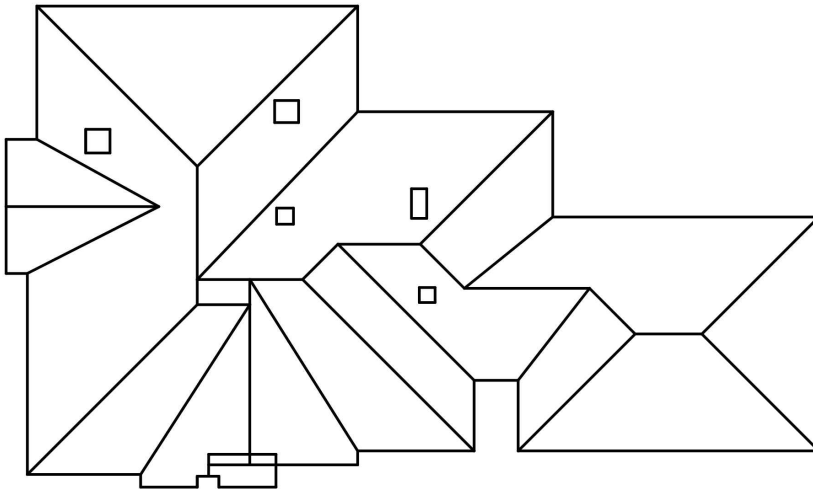
Pitch	Area	Percent
4/12	31.39	62%
5/12	12.13	24%
6/12	4.17	8%
8/12	2.38	5%
0/12	0.22	0%



Facets: 19		Squares Without Waste: 50.3		Squares With Waste: 57.8	
Eave: 308'	Rake: 58'	Valley: 179'	Ridge: 98'	Hip: 239'	Transition: 20'
Sidewall Flashing: 10'		Headwall Flashing: 1'			

Pitch	0/12	4/12	5/12	6/12	8/12
Area (sq ft)	22	3,139	1,213	417	238
Percent	0%	62%	24%	8%	5%

Waste	0%	6%	9%	11%	13%	15%	21%
Area (sq ft)	5,029	5,330	5,481	5,582	5,682	5,783	6,085
Squares	51	54	55	56	57	58	61



Roof Area	5029 sq ft
Facets	19
Pitch	4 / 12
Skylights	4
Chimneys	2
Ridge	98 ft
Hip	239 ft
Valley	179 ft
Rake	58 ft
Eave	308 ft
Headwall Flashing	1 ft
Sidewall Flashing	10 ft
Transition	20 ft
Chimney Back Pan	3 ft
Chimney Step	10 ft
Chimney Apron	6 ft
Counter Flashing	19 ft

Measurements rounded. Waste guidance only. Installer to verify.

		Waste	0%	6%	11%	15%	21%
Shingle Products							
GAF Timberline HDZ	bundle		151	161	168	174	183
OC TruDef Duration	bundle		151	161	168	174	183
CertainTeed Landmark	bundle		151	161	168	174	183
Malarkey Vista AR	bundle		201	214	224	232	244
Starter Strip							
GAF Pro-Start	bundle		4	5	5	5	5
OC Starter Strip	bundle		4	5	5	5	5
CertainTeed SwiftStart	bundle		4	5	5	5	5
Malarkey Starter Strip	bundle		4	5	5	5	5
Hip & Ridge Cap							
GAF Seal-A-Ridge	bundle		14	15	16	17	17
OC ProEdge	bundle		11	12	13	13	14
CertainTeed Shadow Ridge	bundle		12	13	14	14	15
Malarkey EZ-Ridge	bundle		14	15	16	17	17
Synthetic Underlayment							
GAF FeltBuster	roll		6	7	7	7	8
OC ProArmor	roll		6	7	7	7	8
CertainTeed RoofRunner	roll		6	7	7	7	8
Malarkey Secure Start Plus	roll		6	7	7	7	8
Ice & Water Shield							
36" perimeter application (2022 sq ft)							
GAF WeatherWatch	roll		11	12	13	13	14
OC WeatherLock Flex	roll		9	10	10	11	11
CertainTeed WinterGuard	roll		11	12	13	13	14
Malarkey Secure Start I&W	roll		11	12	13	13	14
18" perimeter application (1473 sq ft)							
GAF WeatherWatch	roll		8	9	9	10	10
OC WeatherLock Flex	roll		7	8	8	9	9
CertainTeed WinterGuard	roll		8	9	9	10	10
Malarkey Secure Start I&W	roll		8	9	9	10	10

		Waste	0%	6%	11%	15%	21%
Metals & Flashing							
Eave Drip Edge (10 ft)	piece		31	33	35	36	38
Rake Drip Edge (10 ft)	piece		6	7	7	7	8
Valley Metal W (10 ft)	piece		18	20	20	21	22
Step Flashing (5x7)	piece		85	91	95	98	103
Counter Flashing (10 ft)	piece		3	4	4	4	4
Headwall Flashing (10 ft)	piece		3	4	4	4	4
Chimney Apron (front)	ea		2	3	3	3	3
Chimney Back Pan / Cricket	ea		2	3	3	3	3
Chimney Step Flashing	piece		22	24	25	26	27
Chimney Counter Flash (10 ft)	piece		2	3	3	3	3
Skylight Flashing Kit	kit		4	5	5	5	5
Ventilation							
Ridge Vent (4 ft sections)	piece		25	27	28	29	31
Accessories							
Coil Nails (1.25 in, 50 lb)	box		3	4	4	4	4
Plastic Cap Nails	box		2	3	3	3	3
Roofing Caulk (Tube)	tube		3	4	4	4	4

Flat Roof Area: 21.932 sq ft (0.22 sq) | Waste: 15%

Material	Unit	TPO (Adh)	TPO (MF)	EPDM	PVC	Mod Bit
Membrane System						
Membrane / Cap Sheet	roll	2	2	2	2	2
Bonding Adhesive	gal	2	—	2	2	—
Insulation & Cover Board						
1/2" 4x8 Cover Board	SQ	1	1	1	1	1
Cover Board (4'x8')	sheet	2	2	2	2	2
Polyiso Insulation (4'x8')	sheet	2	2	2	2	2
3" Insulation Plates	ea	371	371	371	371	371
2" HD Fasteners	1000	1	1	1	1	1
Mechanically-Fastened (TPO Only)						
2-3/8" Membrane Plates	1000	—	0	—	—	—
Seam Fasteners (for membrane plates)	1000	—	0	—	—	—
Edge & Termination						
Termination Bar (10 ft)	piece	—	—	—	—	—
Edge Metal (10 ft)	piece	43	43	43	43	43
Sealant & Accessories						
Walk Pad (34"x50')	roll	2	2	2	2	—
TPO Cut Edge Sealant	each	2	2	—	—	—
Cleaner	each	1	1	—	—	—
Universal Single Ply Sealant	tube	13	13	13	13	—
Sealant / Caulk	tube	2	2	2	2	2

Sections at 2/12 or below classified as low-slope. Quantities include 15% waste where applicable. Numbers are estimates only.

VENTILATION SUMMARY

Estimated Attic Area

4,604 sq ft

Footprint: 4,698 sq ft | Surface: 5,029 sq ft

Recommended Exhaust

1105 sq in

Recommended Intake

1105 sq in

NFVA Requirement

1/300

NFVA: 2210 sq in
Exhaust: 1105 sq in
Intake: 1105 sq in

Recommended

1/150

NFVA: 4420 sq in
Exhaust: 2210 sq in
Intake: 2210 sq in

Exhaust Options

Ridge Vent

Needed: 61' (@ 18"/lf)
Available: 98'
Capacity sufficient

Recommended

Box Vents

Needed: 23 vents
50 sq in NFA each
Total: 1150 sq in

RECOMMENDED INTAKE PRODUCTS

Product	Rating	Qty Needed
Vented Drip Edge	9 sq in/ft	123 ft
Soffit Vent	9 sq in/ft	123 ft
Bird Blocks	~3.5 sq in	316 ea

Key

 Ridge Vent

 Box Vent



Note: The estimated quantity of attic ventilation products in this report is based on the estimated attic floor area and is meant for estimating purposes only. It is the responsibility of the installer to verify the correct quantity and type of attic ventilation products prior to commencement of work. Installer must always review job-specific attic ventilation needs such as local code requirements, attic floor square footage, roof design, and conditioned spaces under the roof. GAF recommends a minimum of 1 square foot of attic ventilation (evenly split between intake and exhaust) for every 150–300 square feet of attic floor space depending on vapor barrier status. The amount of exhaust ventilation at or near the ridge must never exceed the amount of intake ventilation at or near the soffit. See gaf.com/ventcalculator for details.