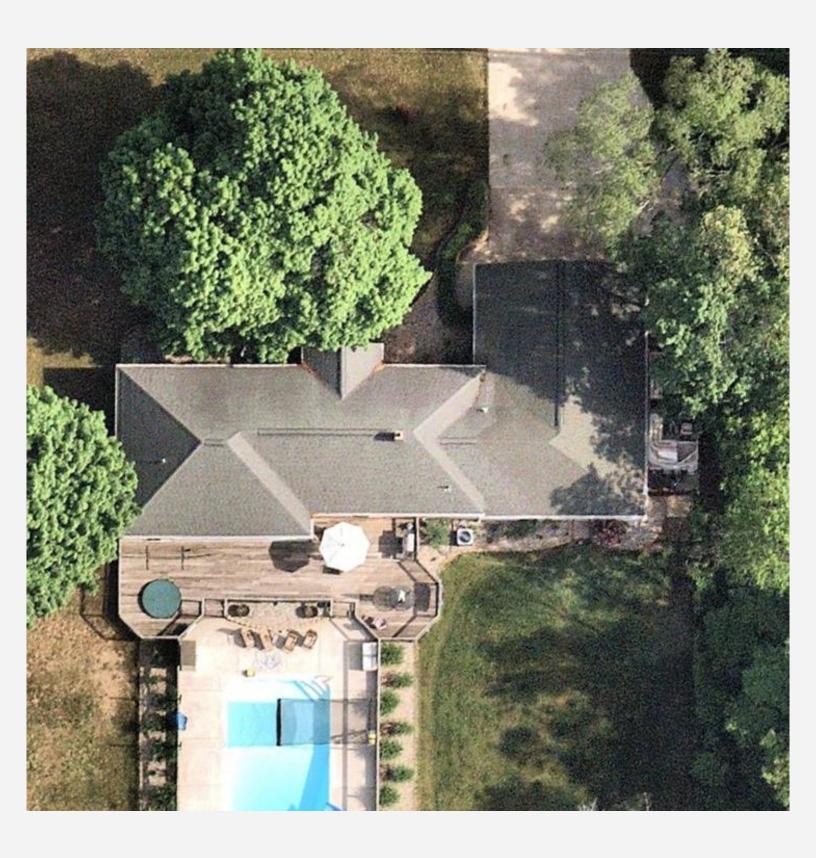


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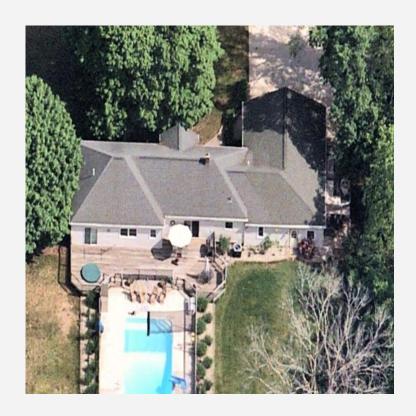
Measurements

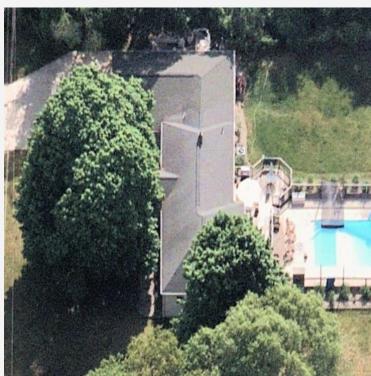
Roof Area	3,562 sq ft
Roof Facets	13
Predominant Pitch	8 / 12
Ridges/Hips	232 ft
Valleys	91 ft
Rakes	49 ft
Eaves	250 ft
Bends	7 ft



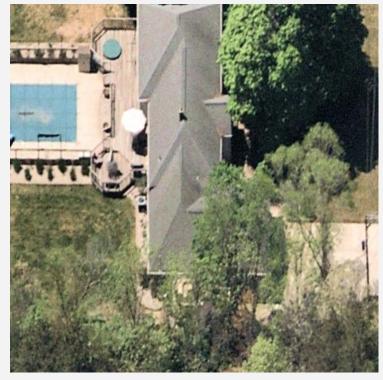


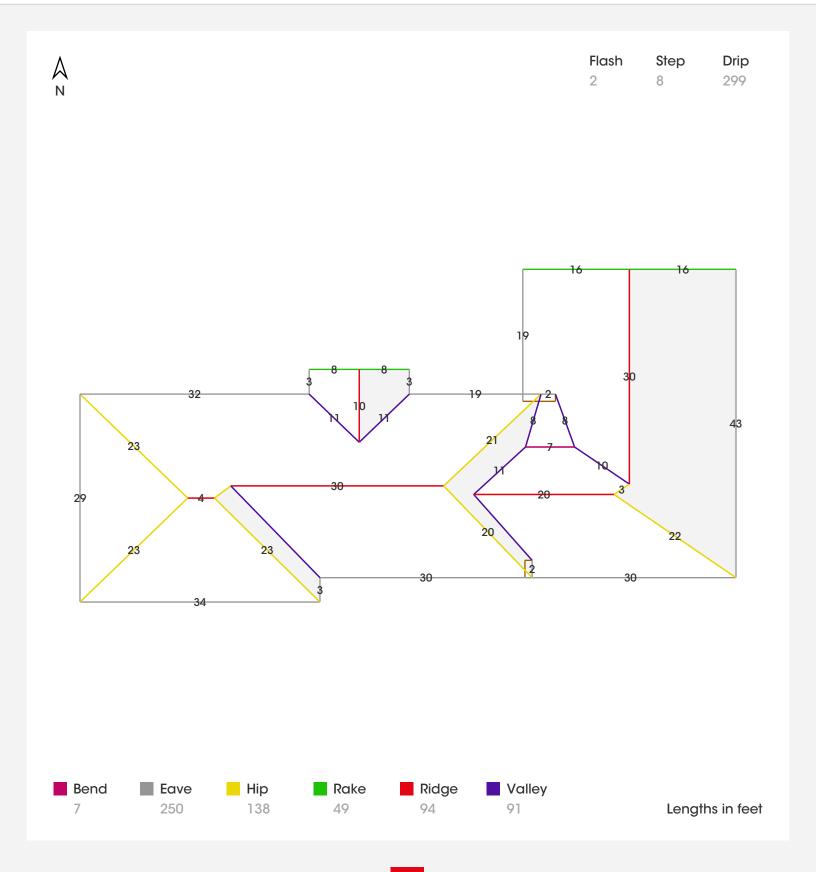


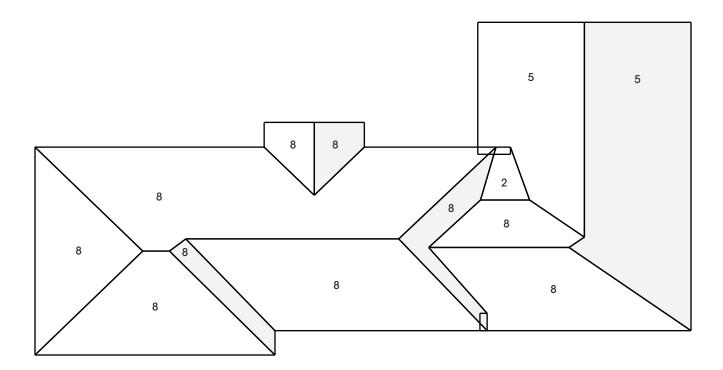




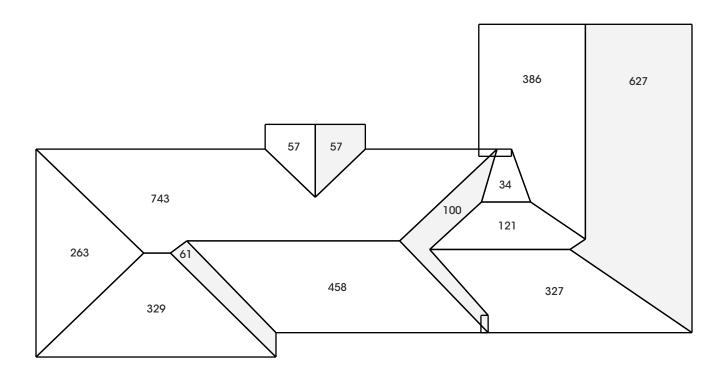








Pitches in inches per foot



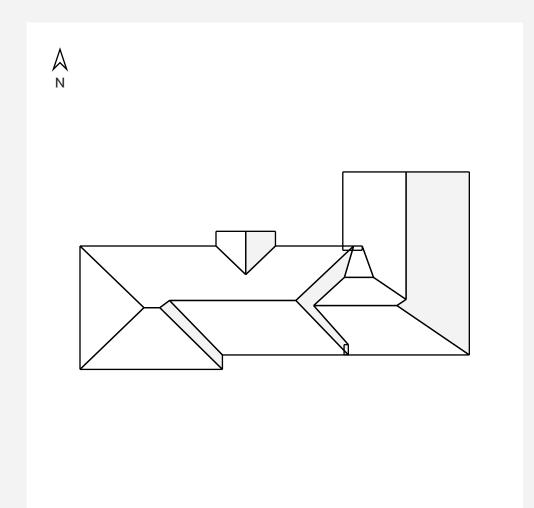
Areas in square feet



Pitch	2	5	8
Area	34	1,013	2,516
Percent	1%	28%	71%

Suggested

Waste	0%	7 %	10%	12%	14%	17%	22%
Area	3,562	3,812	3,919	3,990	4,061	4,168	4,346
Squares	36	39	40	40	41	42	44



Roof Area	3,562 sq ft			
Roof Facets	13			
Pitch	8 / 12			
Bends	7 ft			
Eaves	250 ft			
Hips	138 ft			
Rakes	49 ft			
Ridges	94 ft			
Valleys	91 ft			
Flash	2 ft			
Step	8 ft			
Drip Edge	299 ft			
Leak Barrier	545 ft			
Ridge Cap	232 ft			
Starter	299 ft			
Parapets	0 ft			

Notes: 1) Measurements are rounded to the nearest whole number. 2) Rakes are defined as sloped roof edges. 3) Eaves are defined as level roof edges. 4) Flashing pertains to level roof edges and excludes valleys. 5) Step flashing pertains to sloped roof edges and excludes areas around penetrations. 6) Drip edge = eaves + rakes. 7) Waste table excludes additional materials needed for ridges, hips, valleys, etc. 8) Suggested waste factor is based on the roof complexity and is provided for guidance purposes only. You should confirm the appropriate waste factor prior to ordering.



Roofing Materials

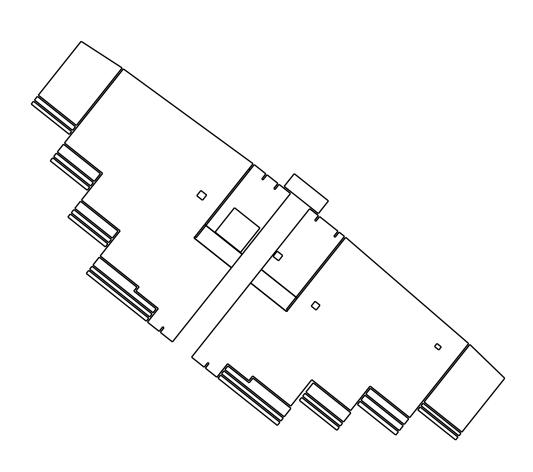
	Waste	0%	7%	Suggested 12%	17%
Timberline Products					
HDZ, HD, Natural Shadow, American	bundle	109	117	122	128
Harvest, Reflector, Royal Sovereign,					
and Cool Series					
Low-Slope Roofing System *					
Liberty Base/Ply Sheet	roll	0	0	0	0
Liberty Cap Sheet	roll	0	0	0	0
Starter					
WeatherBlocker	bundle	3	4	4	4
Pro-Start	bundle	3	3	3	3
Quick-Start	roll	10	10	11	11
Roof Deck Protection *					
Deck-Armor, Tiger Paw, FeltBuster 10 sq	roll	4	4	4	5
Shingle-Mate	roll	9	10	10	11
VersaShield	roll	11	11	12	12
Leak Barrier *					
StormGuard, WeatherWatch 2 sq	roll	9	9	10	10
WeatherWatch 1.5 sq	roll	11	12	13	13
Ridge Cap					
Seal-A-Ridge	bundle	10	10	11	11
TimberTex	bundle	12	13	13	14
Z-Ridge	bundle	8	8	8	9
TimberCrest	box	12	13	13	14
Attic Ventilation					
Cobra 4' Plastic Ridge Vents	foot	48			
Master Flow SSB960 Metal Slant-Black	vent	15			
Master Flow High-Capacity Dome Vent	vent	6			
Cobra IntakePro Rooftop Intake	foot	95			

Notes: 1) These approximate quantities are based on estimated measurements and are for guidance purposes only. You should always confirm quantities prior to ordering and ensure you are following local building code requirements. 2) For Timberline, 3 bundles = 0.984 squares. 3) Starter = eaves + rakes. 4) Leak barrier = bends + eaves + flashing + hips + rakes + step + valleys. 5) Ridge cap = hips + ridges. 6) Estimated quantity of attic ventilation products based solely on exterior roof area and intended for estimating purposes only. Installer must verify attic floor square footage, roof design, local code requirements, quantity/type/approved roof pitch of recommended vent products, and conditioned space under the roof. Always have a balanced attic ventilation system. In no case should the amount of exhaust ventilation exceed the amount of intake ventilation. For more info, visit gaf.com/ventcalculator. 7) Low-slope products applied to 1/12 pitch areas. 8) Timberline products applied to 2/12 pitch areas and above.

 $^{^{}st}$ Installed coverage will be less and depend on quantity and width of side and end laps.





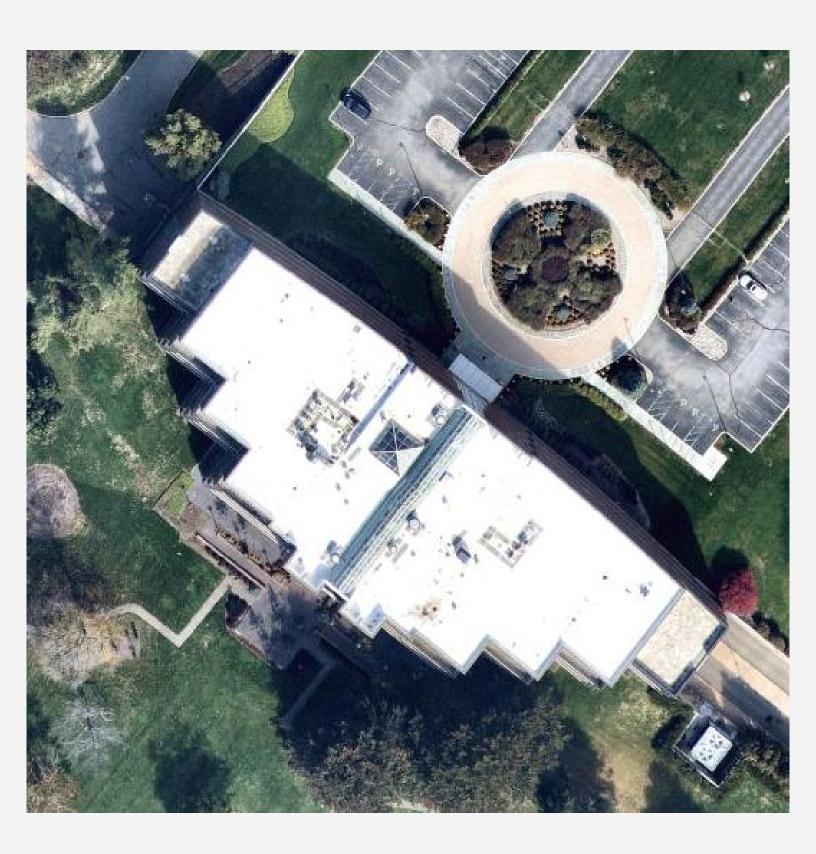


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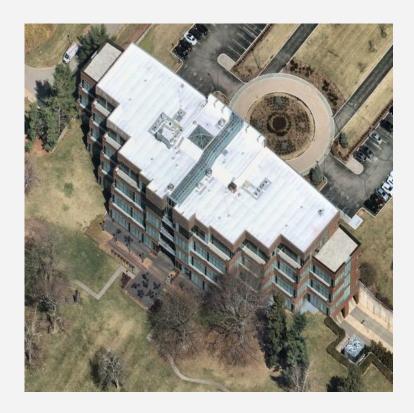
Measurements

Roof Area	29,954 sq ft
Roof Facets	31
Predominant Pitch	0 / 12
Rakes	23 ft
Eaves/Bends	259 ft

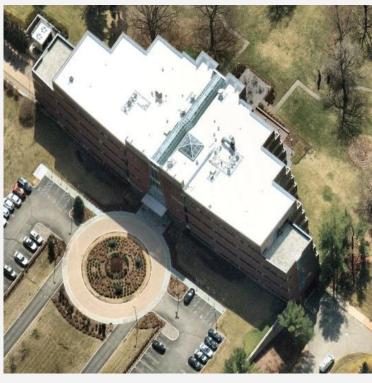




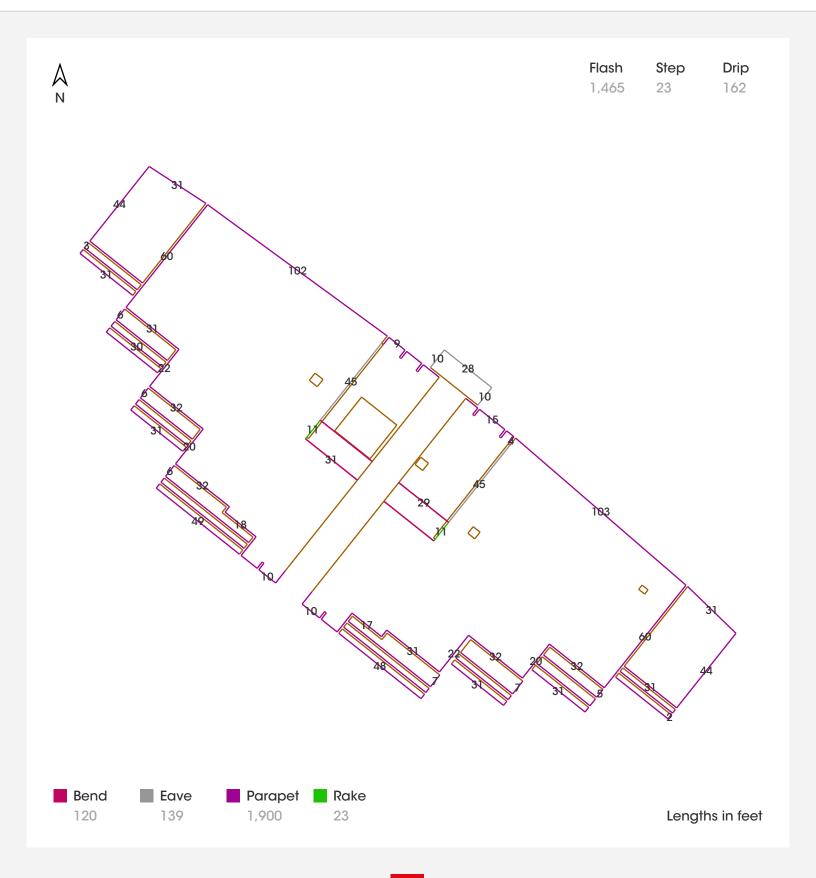


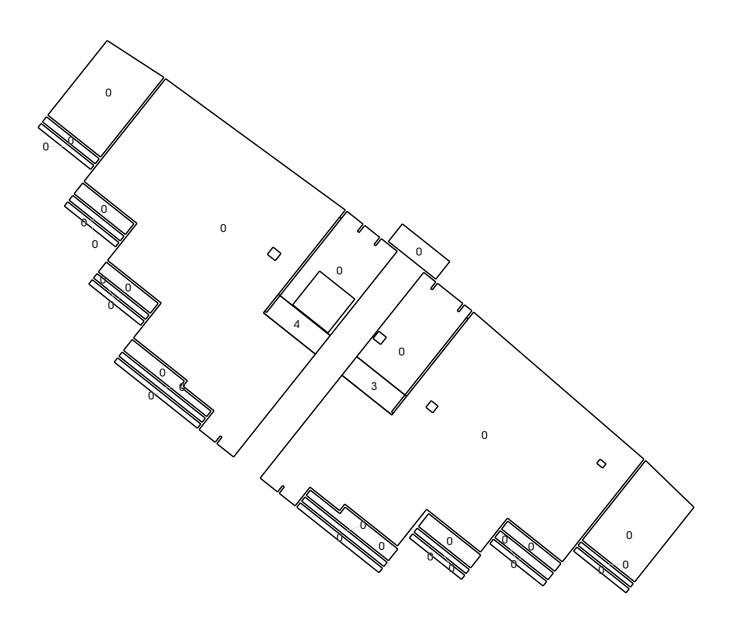




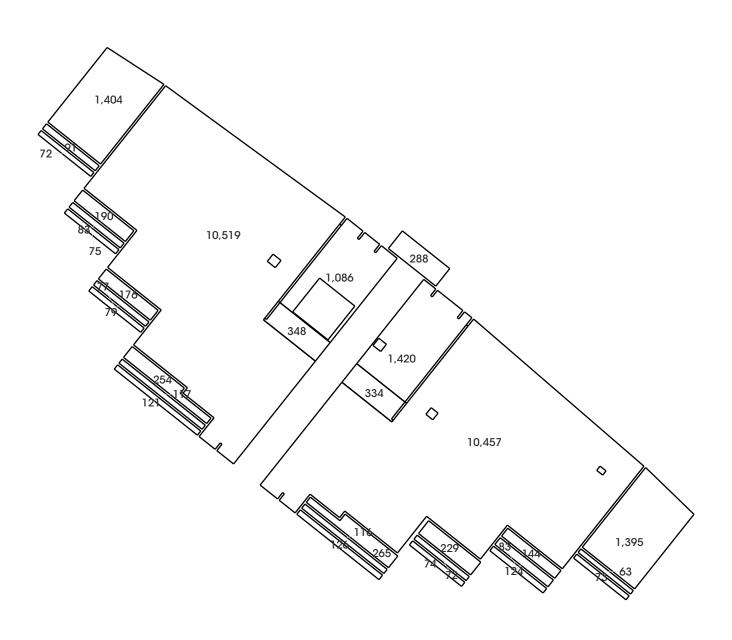








Pitches in inches per foot

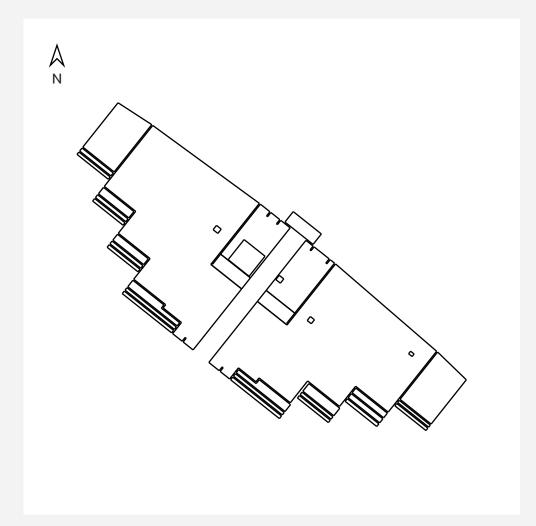


Areas in square feet



Pitch	0	3	4
Area	29,272	334	348
Percent	98%	1%	1%

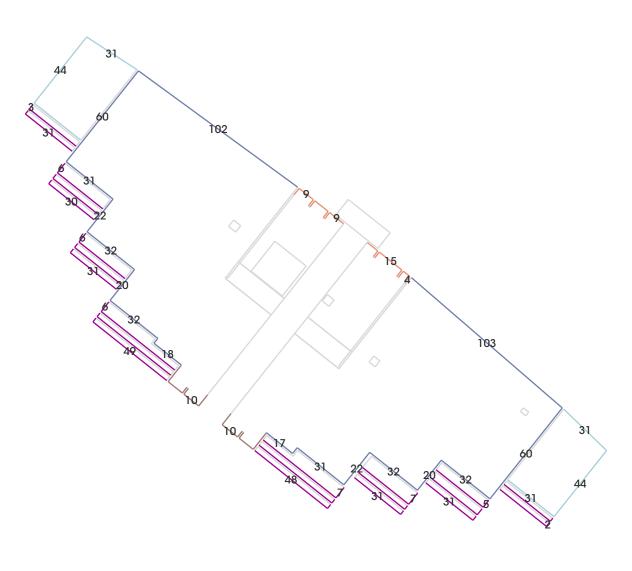
Waste	0%	5%	10%	12%	15%	17%	20%
Area	29,954	31,452	32,949	33,549	34,447	35,046	35,945
Squares	300	315	330	336	345	351	360



Roof Area	29,954 sq ft
Roof Facets	31
Pitch	0 / 12
Bends	120 ft
Eaves	139 ft
Rakes	23 ft
Flash	1,465 ft
Step	23 ft
Drip Edge	162 ft
Leak Barrier	165 ft
Starter	23 ft
Parapets	1,900 ft
Penetrations	5
Pen. Area	475 sq ft
Pen. Perimeter	144 ft

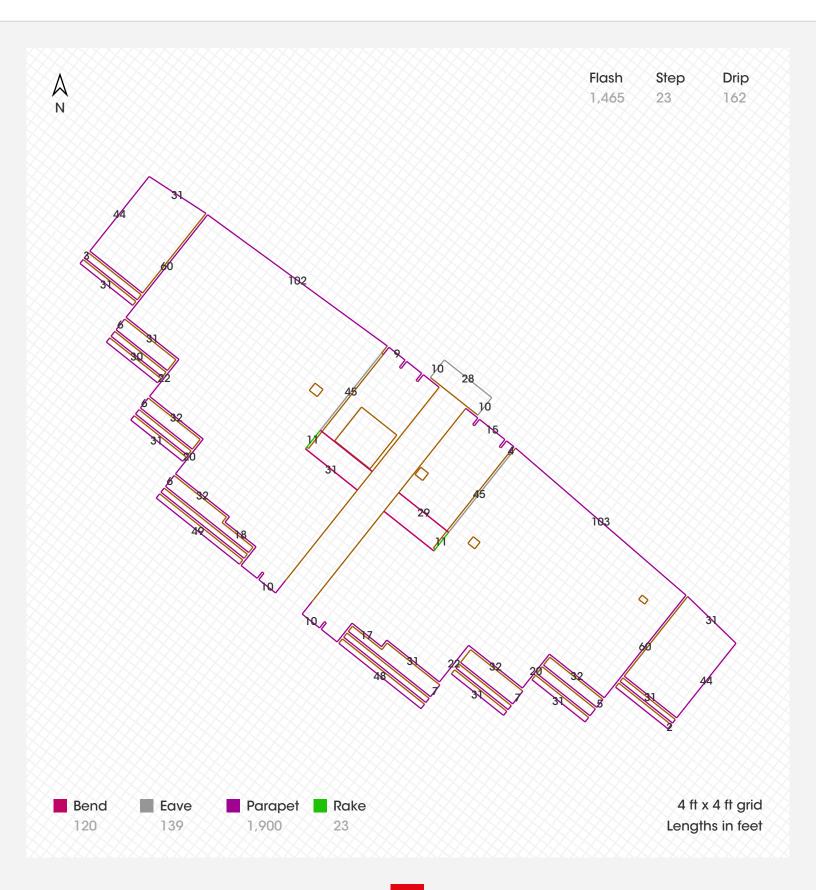
Notes: 1) Measurements are rounded to the nearest whole number. 2) Rakes are defined as sloped roof edges. 3) Eaves are defined as level roof edges. 4) Flashing pertains to level roof edges and excludes valleys. 5) Step flashing pertains to sloped roof edges and excludes areas around penetrations. 6) Drip edge = eaves + rakes. 7) Waste table excludes additional materials needed for ridges, hips, valleys, etc. 8) Suggested waste factor is based on the roof complexity and is provided for guidance purposes only. You should confirm the appropriate waste factor prior to ordering.



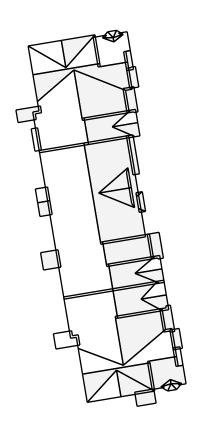


		Vertical	Wall
Length (ft)	Height (in)	Area (sq ft)	Width (in)
861	36	2,583	12
642	18	963	12
211	24	423	12
95	48	380	12
91	66	499	12







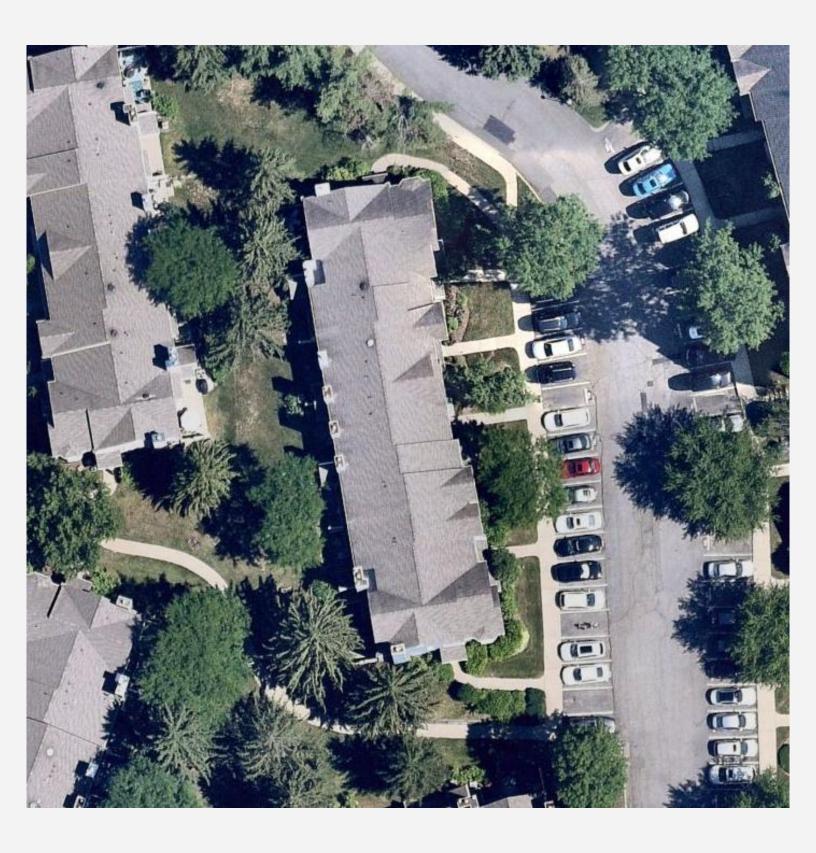


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Measurements

Roof Area	9,277 sq ft
Roof Facets	56
Predominant Pitch	6 / 12
Ridges/Hips	356 ft
Valleys	326 ft
Rakes	636 ft
Eaves	425 ft
Bends	0 ft



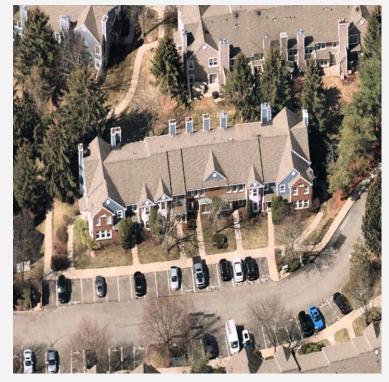








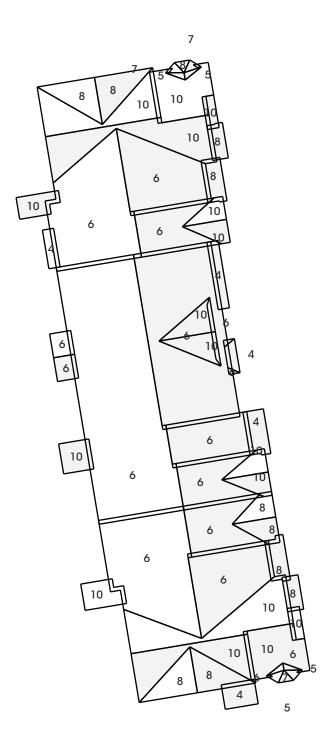




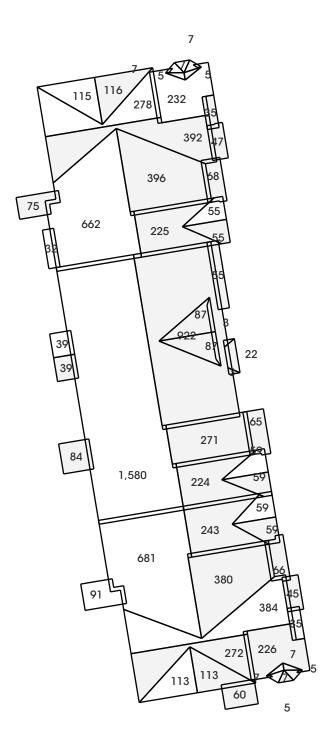




Prepared For: XYZ Contractor



Pitches in inches per foot



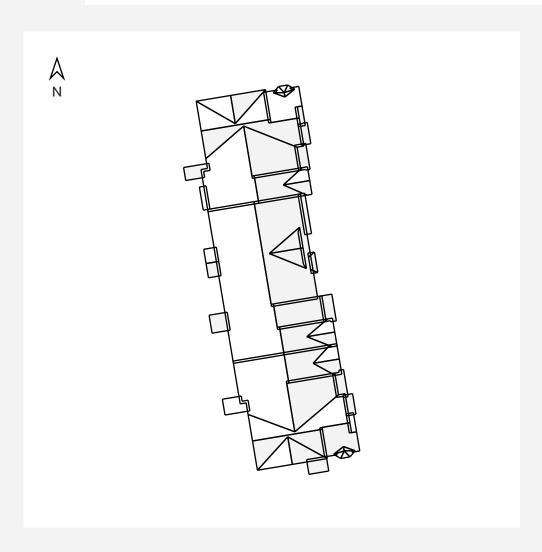
Areas in square feet





Pitch	4	5	6	7	8	10
Area	235	20	5,685	22	809	2,507
Percent	3%	0%	61%	0%	9 %	27%

Waste	0%	5%	10%	12%	15%	17%	20%
Area	9,277	9,741	10,205	10,390	10,669	10,854	11,133
Squares	93	98	103	104	107	109	112



Roof Area Roof Facets Pitch	9,277 sq ft 56 6 / 12
Bends	0 ft
Eaves	425 ft
Hips	44 ft
Rakes	636 ft
Ridges	312 ft
Valleys	326 ft
Flash	131 ft
Step	330 ft
Drip Edge	1,061 ft
Leak Barrier	1,891 ft
Ridge Cap	356 ft
Starter	1,061 ft
Parapets	0 ft
Penetrations	1
Pen. Area	133 sq ft
Pen. Perimeter	57 ft

Notes: 1) Measurements are rounded to the nearest whole number. 2) Rakes are defined as sloped roof edges. 3) Eaves are defined as level roof edges. 4) Flashing pertains to level roof edges and excludes valleys. 5) Step flashing pertains to sloped roof edges and excludes areas around penetrations. 6) Drip edge = eaves + rakes. 7) Waste table excludes additional materials needed for ridges, hips, valleys, etc. 8) Suggested waste factor is based on the roof complexity and is provided for guidance purposes only. You should confirm the appropriate waste factor prior to ordering.



Roofing Materials

	Waste	0%	10%	15%	20%
limberline Products					
HDZ, HD, Natural Shadow, American	bundle	283	312	326	340
Harvest, Reflector, Royal Sovereign,					
and Cool Series					
Low-Slope Roofing System *					
Liberty Base/Ply Sheet	roll	0	0	0	0
Liberty Cap Sheet	roll	0	0	0	0
Starter					
WeatherBlocker	bundle	11	12	13	13
Pro-Start	bundle	9	10	11	11
Quick-Start	roll	33	36	37	39
Roof Deck Protection *					
Deck-Armor, Tiger Paw, FeltBuster 10 sq	roll	10	11	11	12
Shingle-Mate	roll	24	26	27	28
VersaShield	roll	27	30	31	32
Leak Barrier *					
StormGuard, WeatherWatch 2 sq	roll	29	32	33	35
WeatherWatch 1.5 sq	roll	38	42	44	46
Ridge Cap					
Seal-A-Ridge	bundle	15	16	17	18
TimberTex	bundle	18	20	21	22
Z-Ridge	bundle	11	12	13	13
TimberCrest	box	18	20	21	22
Attic Ventilation					
Cobra 4' Plastic Ridge Vents	foot	124			
Master Flow SSB960 Metal Slant-Black	vent	38			
Master Flow High-Capacity Dome Vent	vent	16			
Cobra IntakePro Rooftop Intake	foot	248			

Notes: 1) These approximate quantities are based on estimated measurements and are for guidance purposes only. You should always confirm quantities prior to ordering and ensure you are following local building code requirements. 2) For Timberline, 3 bundles = 0.984 squares. 3) Starter = eaves + rakes. 4) Leak barrier = bends + eaves + flashing + hips + rakes + step + valleys. 5) Ridge cap = hips + ridges. 6) Estimated quantity of attic ventilation products based solely on exterior roof area and intended for estimating purposes only. Installer must verify attic floor square footage, roof design, local code requirements, quantity/type/approved roof pitch of recommended vent products, and conditioned space under the roof. Always have a balanced attic ventilation system. In no case should the amount of exhaust ventilation exceed the amount of intake ventilation. For more info, visit gaf.com/ventcalculator. 7) Low-slope products applied to 1/12 pitch areas. 8) Timberline products applied to 2/12 pitch areas and above.

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