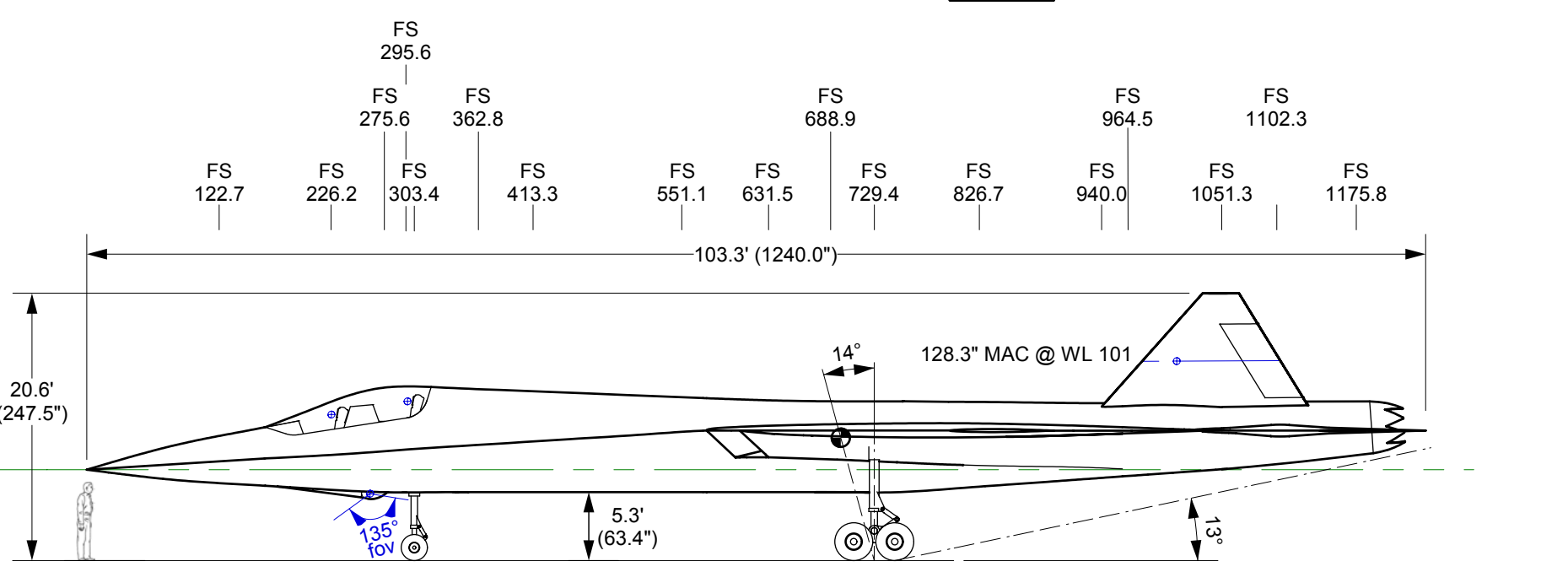
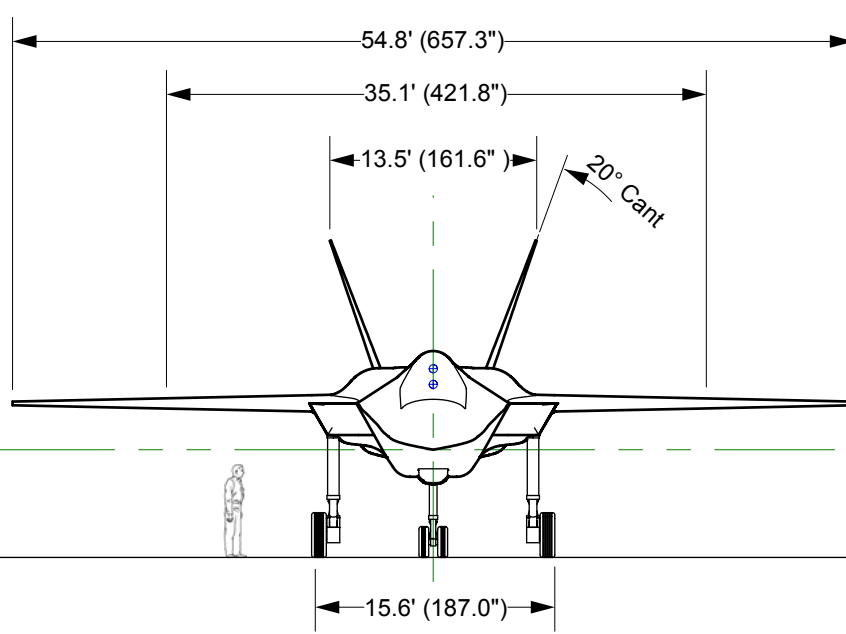
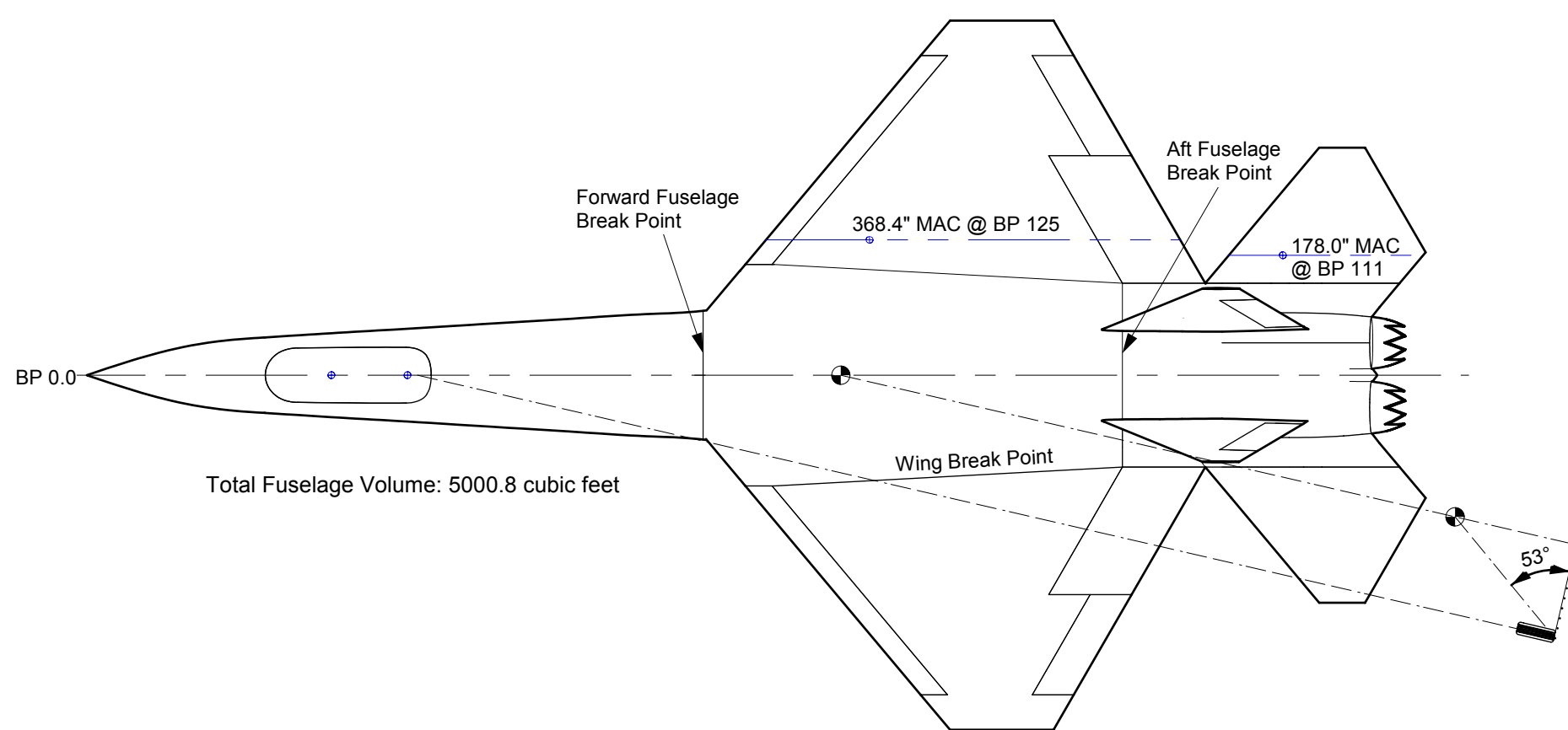
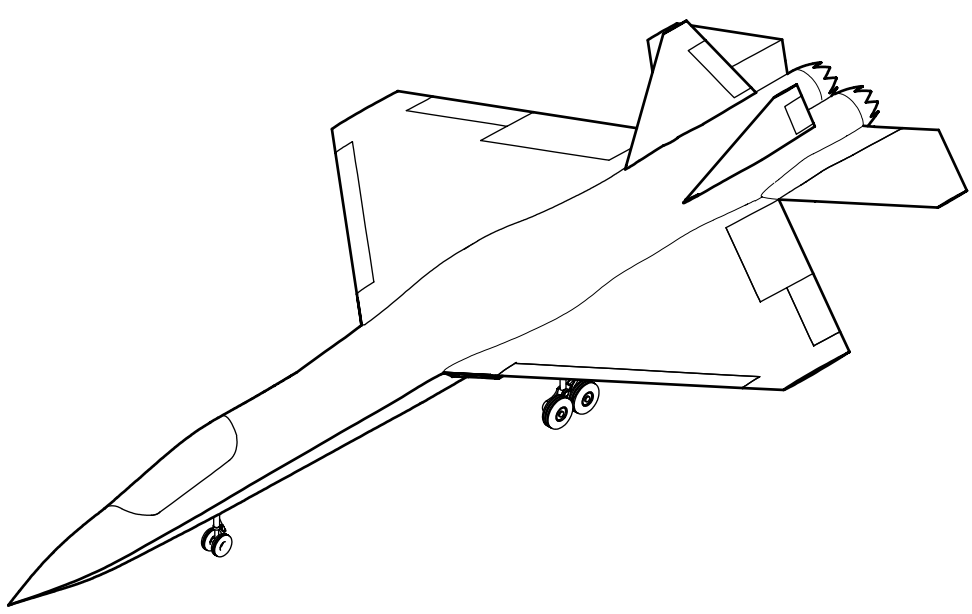
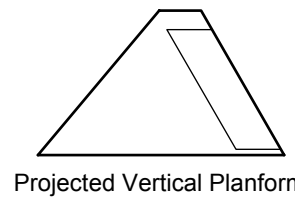


### Weight Buildup

Component	Weight	Fuselage Butt Plane Station (ft)	Water Line (ft)	Wx (lb-ft)	Wy (lb-ft)	Wz (lb-ft)
<b>Structures</b>						
Wing Group	8,779	66.0	0.0	-3.0	579,319	0
Horizontal Tail	1,262	94.3	0.0	-3.0	119,073	0
Vertical Tail	1,279	86.2	0.0	-7.1	110,176	0
Fuselage	10,540	44.2	0.0	-2.1	465,770	0
Main Gear	2,289	68.9	0.0	-1.9	157,648	0
Nose Gear	400	17.3	0.0	4.7	6,915	0
	24,548	58.6	0.0	-2.6	1,438,902	0
<b>Propulsion</b>						
Engines	11,034	84.9	0.0	-2.7	937,198	0
Engine Mounts	138	84.9	0.0	-2.7	11,752	0
Firewall	102	84.9	0.0	-2.7	8,638	0
Nozzle	140	84.9	0.0	-2.7	11,892	0
Oil Cooling	77	84.9	0.0	-2.7	6,528	0
Starter	185	84.9	0.0	-2.7	15,679	0
	11,675	84.9	0.0	-2.7	991,687	0
<b>Systems</b>						
Pressurization	372	17.3	0.0	-4.0	6,433	0
Air Induction	2,325	64.4	0.0	-3.2	149,738	0
Anti-Ice	248	17.3	0.0	-4.0	4,289	0
APU	350	80.9	0.0	-4.3	28,326	0
Auxiliary Gear	578	17.3	0.0	-4.0	10,005	0
Avionics	1,122	17.3	0.0	-4.0	19,416	0
C.G. Control System	476	44.2	0.0	-2.1	21,037	0
Electrical	1,376	44.2	0.0	-2.1	60,811	0
Engine Controls	65	84.9	0.0	-2.7	5,507	0
Flight Controls	3,752	17.3	0.0	-4.0	64,945	0
Fuel System	5,101	58.3	0.0	-2.1	297,236	0
Furnishings/Equipment	617	17.3	0.0	-4.0	10,675	0
Launchers & Weapons	2,500	55.3	0.0	-1.8	138,300	0
Hydraulic System	1,110	44.2	0.0	-2.1	49,052	0
Oxygen System	28	17.3	0.0	-4.0	486	0
Paint	555	44.2	0.0	-2.1	24,526	0
	20,574	43.3	0.0	-5.1	890,782	0
<b>EMPTY</b>						
	<b>56,797</b>	<b>58.5</b>	0.0	-3.5	3,321,371	0
<b>Payload</b>						
GBU-27	2,000	55.3	0.0	-1.8	110,640	0
GBU-27	2,000	55.3	0.0	-1.8	110,640	0
GBU-27	2,000	55.3	0.0	-1.8	110,640	0
GBU-27	2,000	55.3	0.0	-1.8	110,640	0
AM-120	390	55.3	0.0	-1.8	21,575	0
AM-120	390	55.3	0.0	-1.8	21,575	0
Crew & Cargo	500	55.3	0.0	-1.8	27,660	0
	9,280	55.3	0.0	-1.8	513,370	0
<b>ZERO FUEL</b>						
	<b>66,077</b>	<b>58.0</b>	0.0	-3.3	3,834,740	0
<b>Fuel</b>						
Fwd. Fuselage	23,034	41.6	0.0	-1.9	958,460	0
Left Wing	6,366	67.0	12.9	-3.0	426,331	82,249
Right Wing	6,366	67.0	-12.9	-3.0	426,331	-82,249
Aft Fuselage	23,208	70.0	0.0	-1.9	1,625,233	0
	58,974	58.3	0.0	-2.1	3,436,355	0
<b>TAKEOFF GROSS</b>						
	<b>125,051</b>	<b>58.1</b>	0.0	-2.7	7,271,096	0

### Geometric Data

Item	Units	Wing	Horizontal	Vertical
<b>Areas</b>				
Reference	sq. ft	1500	270	165
Exposed	sq. ft	900	265	160
Wetted	sq. ft	1714	528	330
Span	ft	54.8	35.1	9.2
Aspect Ratio	-	2.0	4.6	2.1
Taper Ratio	-	0.17	0.23	0.17
<b>Sweeps</b>				
LE	°	40	40	40
c/4	°	21	24	21
c/2	°	5	9	5
TE	°	-30	-30	-30
<b>Chords</b>				
Mean Aerodynamic	ft	32.0	14.9	10.7
Root	ft	46.8	15.0	16.0
Tip	ft	8.0	3.5	2.8



**Vendetta** - Foldout 1 Aircraft Overview

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 Nate Schnaible      Chris Maglio      Dan Salluce

Rev. 3      Scale 1:150      High Rollers      5/23/02