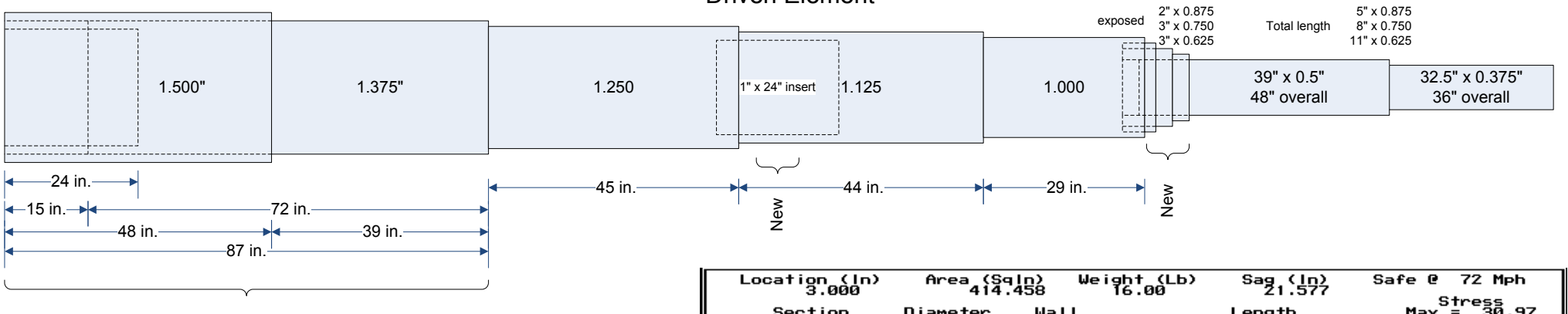
Driven Element



Cut old 1.375" element to 15'

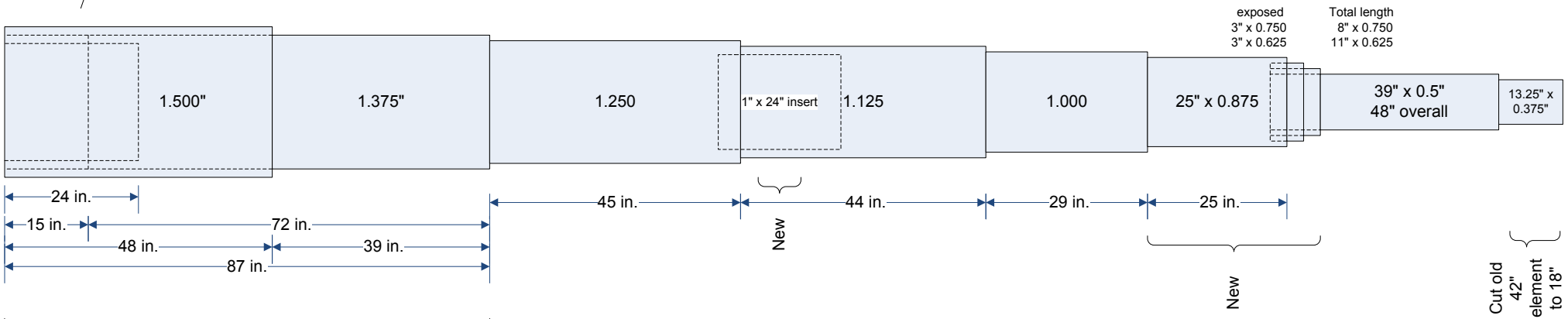
W6NL XM240 Moxon Design
Modified by W6NL for W2SC
For better wind survival, less sag (no element guys), uses standard tubing sizes

Location (In)	Area (Sq In)	Weight (Lb)	Sag (In)	Safe @ 72 Mph
3.000	414.458	16.00	21.577	Stress Max = 30.97

Section No		Diameter In	Wall In	Length In Exposed	Length In Total	Stress Ksi
Tip--> 1		0.375	0.058	13.250	18.000	0.80
2		0.500	0.058	39.000	48.000	7.38
3		0.625	0.116	3.000	9.000	3.29
4		0.750	0.174	3.000	6.000	1.96
5		0.875	0.058	25.000	29.500	5.99
6		1.000	0.058	29.000	36.000	9.28
7		1.125	0.058	23.000	23.000	11.40
8	Dblr	1.125	0.116	21.000	24.000	9.52
9		1.250	0.058	45.000	48.000	24.17
10		1.375	0.058	39.000	39.000	30.39
11		1.500	0.116	24.000	24.000	17.94
12	Dblr	1.500	0.174	24.000	24.000	16.66

Half Length = 288.250 In
Res Frequency = 10.208 Mhz

1.5" Tubing
Triple wall for first 24" (1.250"x24")
Double wall remainder of length
Use 72" 1.375" section (with 39" exposed), and inner section of 15".

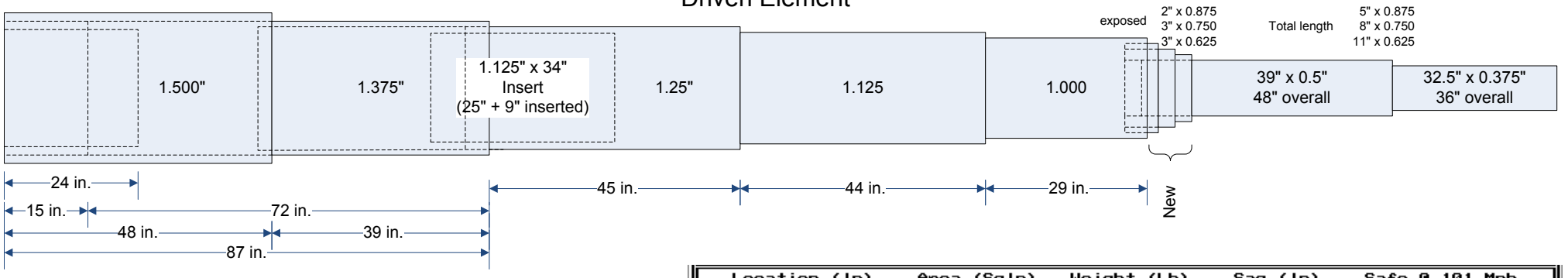


Cut old 1.375" element to 15'

Cut old 42" element to 18"

Reflector Element

Driven Element



Cut old 1.375" element to 15'

New

W6NL XM240 Moxon Design
Modified by WE9V
For even better wind survival than W2SC Mod, less sag (no element guys), uses standard tubing sizes

1.5" Tubing
Triple wall for first 24" (1.250"x24")
Double wall remainder of length
Use 72" 1.375" section (with 39" exposed), and inner section of 15".

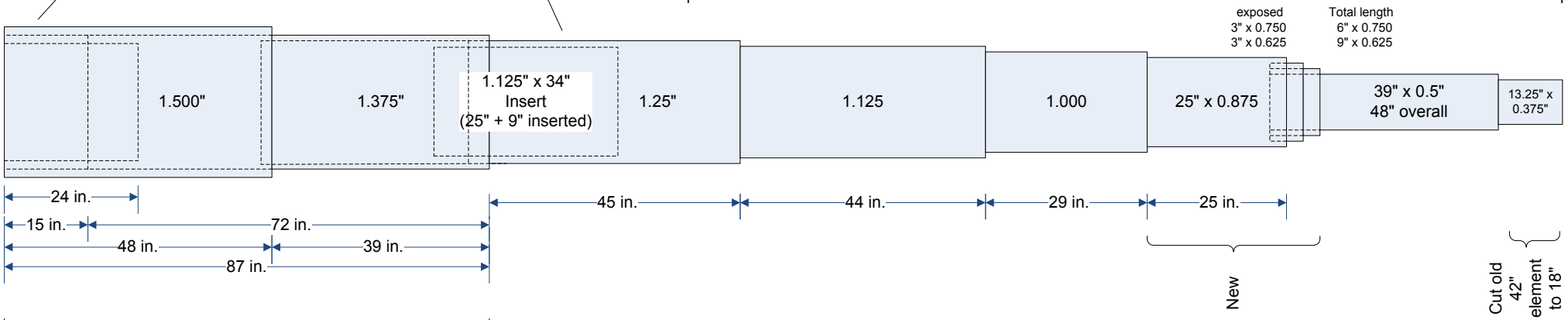
1.25" Tubing
Use existing 48" section.
New 40" section to double-wall 1.375" section, inserted 4" into 1.5".

New 1.125" x 34" section to reinforce 1.25" joint.

Location (In) 3.000 | Area (Sqln) 414.458 | Weight (Lb) 18.24 | Sag (In) 17.721 | Safe @ 101 Mph Max = 35.00

	Section No	Diameter In	Wall In	Exposed Length In	Total Length In	Stress Ksi
Tip-->	1	0.375	0.058	13.250	18.000	1.56
	2	0.500	0.058	39.000	48.000	14.38
	3	0.625	0.116	3.000	9.000	6.40
	4	0.750	0.174	3.000	6.000	3.82
	5	0.875	0.058	25.000	29.500	11.66
	6	1.000	0.058	29.000	36.000	18.06
	7	1.125	0.058	44.000	48.000	31.62
	8	1.250	0.058	20.000	20.000	33.89
	9 Dblr	1.250	0.116	25.000	28.000	27.02
	10	1.375	0.116	39.000	42.000	33.55
	11	1.500	0.116	24.000	24.000	34.82
	12 Dblr	1.500	0.174	24.000	24.000	32.33

Half Length = 288.250 In
Res Frequency = 10.208 Mhz
View Edit Add/Rem Move Wind/Fl Next El Name Units Tubing Print ESC



Cut old 1.375" element to 15'

New

Reflector Element