

220 E. General Robinson St.
 Pittsburgh, PA 15212
 412-321-3217 412-321-6108 fax

156 N. Washington Road
 Apollo, PA 15613
 724-727-2772
 724-727-2033 fax

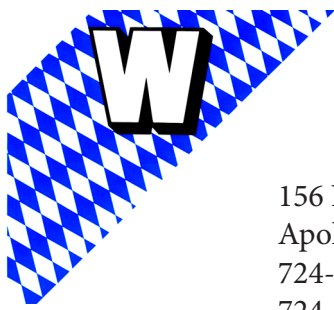
4589 State Route 422
 Pulaski, PA 16143
 724-964-8822
 724-964-8823 fax

4636 Benedum Drive
 Bridgeport, WV
 304-592-3217
 304-592-3591 fax

DECIMALS OF A FOOT

FOR EACH 1/8 OF AN INCH FROM 1/8 TO 12 INCHES

Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal
1/8	0.0104	3 1/8	0.2604	6 1/8	0.5104	9 1/8	0.7604
1/4	0.0208	3 1/4	0.2708	6 1/4	0.5208	9 1/4	0.7708
3/8	0.0313	3 3/8	0.2813	6 3/8	0.5313	9 3/8	0.7813
1/2	0.0417	3 1/2	0.2917	6 1/2	0.5417	9 1/2	0.7917
5/8	0.0521	3 5/8	0.3021	6 5/8	0.5521	9 5/8	0.8021
3/4	0.0625	3 3/4	0.3125	6 3/4	0.5625	9 3/4	0.8125
7/8	0.0729	3 7/8	0.3229	6 7/8	0.5729	9 7/8	0.8229
1	0.0833	4	0.3333	7	0.5833	10	0.8333
1 1/8	0.0938	4 1/8	0.3438	7 1/8	0.5938	10 1/8	0.8438
1 1/4	0.1042	4 1/4	0.3542	7 1/4	0.6042	10 1/4	0.8542
1 3/8	0.1146	4 3/8	0.3646	7 3/8	0.6146	10 3/8	0.8646
1 1/2	0.1250	4 1/2	0.3750	7 1/2	0.6250	10 1/2	0.8750
1 5/8	0.1354	4 5/8	0.3854	7 5/8	0.6354	10 5/8	0.8854
1 3/4	0.1485	4 3/4	0.3958	7 3/4	0.6458	10 3/4	0.8958
1 7/8	0.1563	4 7/8	0.4063	7 7/8	0.6563	10 7/8	0.9063
2	0.1667	5	0.4167	8	0.6667	11	0.9167
2 1/8	0.1771	5 1/8	0.4271	8 1/8	0.6771	11 1/8	0.9271
2 1/4	0.1875	5 1/4	0.4375	8 1/4	0.6875	11 1/4	0.9375
2 7/8	0.1979	5 7/8	0.4479	8 7/8	0.6979	11 7/8	0.9479
2 1/2	0.2083	5 1/2	0.4583	8 1/2	0.7083	11 1/2	0.9583
2 5/8	0.2188	5 5/8	0.4688	8 5/8	0.7188	11 5/8	0.9688
2 3/4	0.2292	5 3/4	0.4792	8 3/4	0.7292	11 3/4	0.9792
2 7/8	0.2396	5 7/8	0.4896	8 7/8	0.7396	11 7/8	0.9896
3	0.2500	6	0.5000	9	0.7500	12	1.0000



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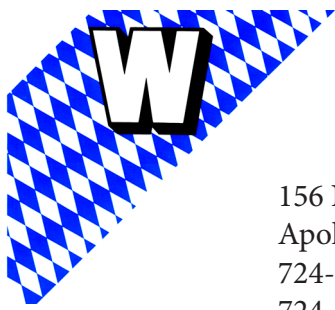
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AREAS AND CIRCUMFERENCES OF CIRCLES

Dia.	Area	Cir.	Dia.	Area	Cir.	Dia.	Area	Cir.	Dia.	Area	Cir.
1/8	0.012	.393	10	78.54	31.42	30	706.86	94.25	65	3318.3	204.2
1/4	0.049	.785	10 1/2	86.59	32.99	30	754.77	97.39	66	3421.2	207.3
3/8	0.110	1.178	11	95.03	34.56	32	804.25	100.5	67	3525.7	210.5
1/2	0.196	1.571	11 1/2	103.87	36.13	33	855.30	103.7	68	3631.7	213.6
5/8	0.307	1.963	12	113.10	37.70	34	907.92	106.8	69	3739.3	216.8
3/4	0.442	2.356	12 1/2	122.72	39.27	35	962.11	110.0	70	3848.5	219.9
7/8	0.601	2.749	13	132.73	40.84	36	1017.9	113.1	71	3959.2	223.1
1	0.785	3.142	13 1/2	143.14	42.41	37	1075.2	116.2	72	4071.5	226.2
1 1/8	0.994	3.534	14	153.94	43.98	38	1134.1	119.4	73	4185.3	229.3
1 1/4	1.227	3.927	14 1/2	165.13	45.55	39	1194.6	122.5	74	4300.8	232.5
1 3/8	1.485	4.320	15	176.71	47.12	40	1256.6	125.7	75	4417.9	235.6
1 1/2	1.767	4.712	15 1/2	188.69	48.69	41	1320.3	128.8	76	4536.5	238.8
1 5/8	2.074	5.105	16	201.06	50.27	42	1385.4	131.9	77	4656.6	241.9
1 3/4	2.405	5.498	16 1/2	213.82	51.84	43	1452.2	135.1	78	4778.4	245.0
1 7/8	2.761	5.890	17	226.98	53.41	44	1520.5	138.2	79	4901.7	248.2
2	3.142	6.283	17 1/2	240.53	54.98	45	1590.4	141.4	80	5026.5	251.3
2 1/4	3.976	7.069	18	254.47	56.55	46	1661.9	144.5	81	5153.0	254.5
2 1/2	4.909	7.854	18 1/2	268.80	58.12	47	1734.9	147.7	82	5281.0	257.6
2 3/4	5.940	8.639	19	283.53	59.69	48	1809.6	150.8	83	5410.6	260.8
3	7.069	9.425	19 1/2	298.65	61.26	49	1885.7	153.9	84	5541.8	263.9
3 1/4	8.296	10.21	20	314.16	62.83	50	1963.5	157.1	85	5674.5	267.0
3 1/2	9.621	11.00	20 1/2	330.06	64.40	51	2042.8	160.2	86	5808.8	270.2
3 3/4	11.045	11.78	21	346.36	65.97	52	2123.7	163.4	87	5944.7	273.3
4	12.566	12.57	21 1/2	363.05	67.54	53	2206.2	166.5	88	6082.1	276.5
4 1/2	15.904	14.14	22	380.13	69.12	54	2290.2	169.6	89	6221.1	279.7
5	19.635	15.71	22 1/2	397.61	70.69	55	2375.8	172.8	90	6361.7	282.7
5 1/2	23.758	17.28	23	415.48	72.26	56	2463.0	175.9	91	6503.9	285.9
6	28.274	18.85	23 1/2	433.74	73.83	57	2551.8	179.1	92	6647.6	289.0
6 1/2	33.183	20.42	24	452.39	75.40	58	2642.1	182.2	93	6792.9	292.2
7	38.485	21.99	24 1/2	471.44	76.97	59	2734.0	185.4	94	6939.8	295.3
7 1/2	44.179	23.56	25	490.87	78.54	60	2827.4	188.5	95	7088.2	298.5
8	50.265	25.13	26	590.93	81.68	61	2922.5	191.6	96	7238.2	301.6
8 1/2	56.745	26.70	27	572.56	84.82	62	3019.1	194.8	97	7389.8	304.7
9	63.617	28.27	28	615.75	87.96	63	3117.2	197.9	98	7543.0	307.9
9 1/2	70.882	29.85	29	660.52	91.11	64	3217.0	201.1	99	7697.7	311.0



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Coverage per Gallon of Epoxy Mortar (Epoxy Binder + Sand)	
Thickness (Inches)	Coverage (sq. ft.)
1/16	25.7
1/8	12.8
3/16	8.6
1/4	6.4
3/8	4.3
1/2	3.2

Epoxy Mortar Yield per Gallon of Epoxy Binder	
Aggregate (Gallons)	Mortar (Gallons)
1	1.6
2	2.2
3	2.8
4	3.4
5	4.0

VOLUME & AREA FORMULA

Area of a square (or rectangle) = length x width

Circumference of a circle = radius x 2

Area of a circle = (radius)² x

π

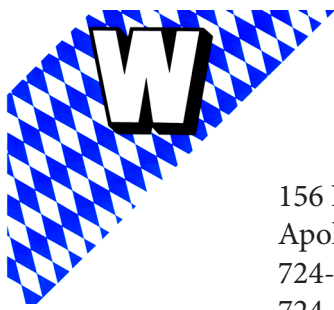
Weight of material

Absolute volume = specific gravity x 62.4

Surface area of cylinder = π x diameter x length

	Thickness (inches)	Square Feet
Coverage yield of 1 yard of concrete at various thicknesses.	1	324
	2	162
	3	108
	4	81
	5	65
	6	54
	7	46
	8	40
	9	36
	10	32

$$\text{ft}^2 / \text{yd} = 324 / \text{depth (inches)}$$



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WEIGHTS & AREAS OF REINFORCING STEEL Standard A305 Reinforcing Bars

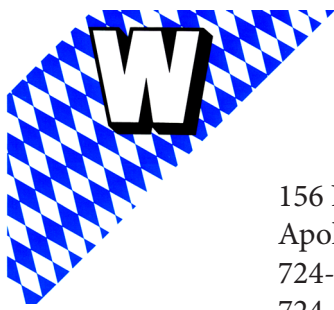
BAR SIZES		WEIGHT POUNDS PER FOOT	NOMINAL DIM.—ROUND SEC.		
OLD (Inches)	NEW (Numerals)		DIAMETER INCHES	CROSS SEC. AREA, SQ. IN.	PERIMETER INCHES
⓪ ¹ / ₄	#2	.167	.250	.05	.786
⓪ ³ / ₈	#3	.376	.375	.11	1.178
⓪ ¹ / ₂	#4	.668	.500	.20	1.571
⓪ ⁵ / ₈	#5	1.043	.625	.31	1.963
⓪ ³ / ₄	#6	1.502	.750	.44	2.356
⓪ ⁷ / ₈	#7	2.044	.875	.60	2.749
⓪ ¹	#8	2.670	1.000	.79	3.142
⓪ ¹ / ₂	#9	3.400	1.128	1.00	3.544
⓪ ¹ / ₈	#10	4.303	1.270	1.27	3.990
⓪ ¹ / ₄	#11	5.313	1.410	1.56	4.430

SPECIAL DEFORMED ROUND STEEL BARS
 ASTM Designation (A 408-58T)

BAR SIZES		WEIGHT POUNDS PER FOOT	NOMINAL DIM.—ROUND SEC.		
OLD (Inches)	NEW (Numerals)		DIAMETER INCHES	CROSS SEC. AREA, SQ. IN.	PERIMETER INCHES
⓪ ¹ / ₂	14S	7.65	1.693	2.25	5.32
⓪ ²	18S	13.60	2.257	4.00	7.09

ABOVE AS PER SIMPLIFIED PRACTICE REGULATION R26-50.

To figure approximate weights of steel in odd sizes figure .283 lbs. per cubic inch.



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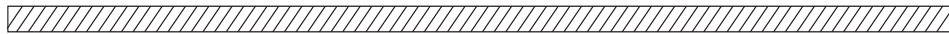
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GROUT OR ADHESIVE REQUIREMENTS

Available in 22 oz. cartridges



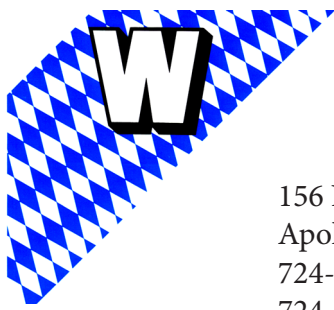
Anchoring and Doweling with EUCO Epoxy Cartridges

Estimating Guide for Number of Holes per EUCO #452/#620 Epoxy Cartridge

Threaded Rod in Concrete		Hole Depth (inches)																		
Rod Size (inches)	Hole Size (inches)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		Number of Holes per Cartridge																		
3/8	7/16	192	128	96	77	64	55	48	43	39	35	32	30	28	26	24	23	22	21	20
1/2	9/16	136	91	68	55	46	39	34	29	28	25	23	21	19	18	17	16	15	15	14
5/8	3/4	70	47	35	28	24	20	18	16	14	13	12	11	10	10	9	9	8	8	7
3/4	7/8	56	37	28	23	19	16	14	13	11	10	10	9	8	8	7	7	7	6	6
7/8	1	47	31	24	19	16	12	12	11	10	9	8	8	7	7	6	6	6	5	5
1	1-1/8	38	26	19	16	13	11	10	9	8	7	7	6	6	5	5	5	5	4	4
1-1/8	1-1/4	34	23	17	14	12	10	9	8	7	7	6	6	5	5	5	4	4	4	4
1-1/4	1-3/8	29	20	15	12	10	9	8	7	6	6	5	5	5	4	4	4	4	3	3
1-1/2	1-5/8	23	16	12	10	8	7	6	5	5	5	4	4	4	3	3	3	3	3	3

Rebar in Concrete		Hole Depth (inches)																		
Rebar Size (inches)	Hole Size (inches)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		Number of Holes per Cartridge																		
No. 3	1/2	163	109	82	66	55	47	41	37	33	30	28	26	24	22	21	20	19	18	17
No. 4	5/8	127	85	64	51	43	37	32	29	26	24	22	20	19	17	16	15	15	14	13
No. 5	3/4	103	69	52	41	35	30	26	23	21	19	17	16	15	14	13	12	12	11	11
No. 6	7/8	82	55	41	32	28	24	21	19	17	15	14	13	12	11	11	10	10	9	9
No. 7	1	72	48	36	29	24	21	18	16	15	13	12	11	11	10	9	9	8	8	8
No. 8	1-1/8	62	41	31	25	21	18	16	14	13	12	11	10	9	9	8	8	7	7	7
No. 9	1-3/8	31	21	16	13	11	9	8	7	7	6	6	5	5	4	4	4	4	4	3
No. 10	1-1/2	30	20	15	12	10	9	8	7	6	6	5	5	5	4	4	4	4	4	3

Smooth Dowel in Concrete		Hole Depth (inches)																		
Dowel Size (inches)	Hole Size (inches)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		Number of Holes per Cartridge																		
3/4	7/8	83	56	42	34	28	24	21	19	17	15	14	13	12	11	11	10	10	9	9
7/8	1	72	48	36	29	24	21	18	16	15	13	12	11	11	10	9	9	8	8	8
1	1-1/8	61	41	31	25	21	18	16	14	12	11	10	10	9	8	8	8	7	7	6
1-1/4	1-3/8	50	33	25	20	17	14	13	11	10	9	9	8	7	7	7	6	6	6	5
1-1/2	1-5/8	42	28	21	17	14	12	11	10	9	8	7	7	6	6	6	5	5	4	4



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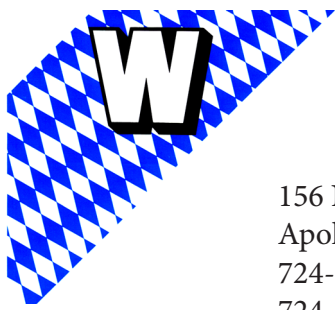
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COVERAGE CHART JOINT SEALING COMPOUNDS

COVERAGE 10.1 FL/OZ CARTRIDGES (18.2 CU. IN.)								
PRESENT TUBES		10.1 FL/ OZ = 18.2 CU. IN. = 0.011 CU. FT.						
1.802 CU. IN / FL OZ		WIDTH						
DEPTH		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
		0.125	0.25	0.375	0.5	0.625	0.75	1
1/8"	0.125	97	49	32	24	19	16	12
1/4"	0.25	49	24	16	12	10	8	6
3/8"	0.375	32	16	11	8	6	5	4
1/2"	0.5	24	12	8	6	5	4	3
COVERAGE 32.0 FL/OZ CARTRIDGES (15.7 CU. IN.)								
PRESENT TUBES		32 FL/OZ = QUART = 57.7 CU. IN. 0.033 CU. FT.						
1.802 CU. IN / FL. OZ		WIDTH						
DEPTH		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
		0.125	0.25	0.375	0.5	0.625	0.75	1
1/8"	0.125	308	154	103	77	62	51	38
1/4"	0.25	154	77	51	38	31	26	19
3/8"	0.375	103	51	34	26	21	17	13
1/2"	0.5	77	38	26	19	15	13	10
COVERAGE 128 FL/OZ CARTRIDGES (230.7CU. IN.)								
PRESENT TUBES		128 FL/ OZ = 1 GAL. = 230.7 CU. IN.0.133 CU. FT.						
1.802 CU. IN / FL. OZ		WIDTH						
DEPTH		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
		0.125	0.25	0.375	0.5	0.625	0.75	1
1/8"	0.125	1230	615	410	308	246	205	154
1/4"	0.25	615	308	205	154	123	103	77
3/8"	0.375	410	205	137	103	82	68	51
1/2"	0.5	308	154	103	77	62	51	38
COVERAGE 192 FL/OZ CARTRIDGES (346CU. IN.)								
PRESENT TUBES		192 FL/ OZ = 1.5 GAL. = 346.0 CU. IN 0.200 CU. FT						
1.802 CU.IN / FL. OZ		WIDTH						
DEPTH		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
		0.125	0.25	0.375	0.5	0.625	0.75	1
1/8"	0.125	1845	923	615	461	369	308	231
1/4"	0.25	923	461	308	231	185	154	115
3/8"	0.375	615	308	205	154	123	103	77
1/2"	0.5	461	231	154	115	92	77	58



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CONVERSION TABLES

WATER

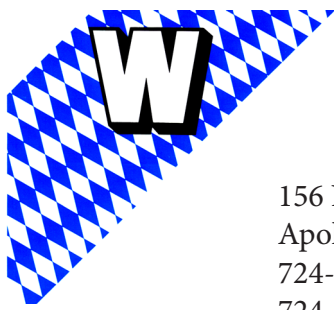
U.S. Gallons	Pounds
1	8.35
2	16.69
3	25.40
4	33.38
5	41.73
6	50.07
7	58.42
8	66.76
9	75.11
10	83.45
11	91.80
12	100.14
13	108.49
14	116.83
15	125.18
16	133.52
17	141.87
18	150.21
19	158.56
20	166.90
21	175.25
22	183.59
23	191.94
24	200.26
25	208.63
26	216.97
27	225.32
28	233.66
29	242.01
30	250.35
31	286.70
32	267.04
33	275.39
34	283.73
35	292.08
36	300.42
37	308.77
38	317.11
39	325.46
40	333.80
41	342.15
42	350.49
43	358.85
44	367.18
45	375.53

CEMENT

Bags	Pounds
0.25	23.5
0.50	47.0
0.75	70.5
1.00	94.0
1.25	117.5
1.50	141.0
1.75	164.5
2.00	188.0
2.25	211.5
2.50	235.0
2.75	258.5
3.00	282.0
3.25	305.5
3.50	329.0
3.75	352.5
4.00	376.0
4.25	399.5
4.50	423.0
4.75	446.5
5.00	470.0
5.25	493.5
5.50	517.0
5.75	540.5
6.00	564.0
6.25	587.5
6.50	611.0
6.75	634.5
7.00	658
7.25	681.5
7.50	705
7.75	728.5
8.00	752

TEMPERATURE

°F	°C
0	-17.8
5	-15.0
10	-12.2
15	-9.4
20	-6.7
25	-3.9
30	-1.1
32	0
35	1.7
40	4.4
45	7.2
50	10.0
55	12.8
60	15.6
70	21.1
75	23.9
80	26.7
85	29.4
90	32.2
95	35.0
100	37.8
105	40.6
110	43.3
115	46.1
120	48.9
125	51.7
130	54.4
135	57.2
140	60.0
145	62.8
150	65.6
155	68.3
160	71.1
165	73.9
170	76.6
175	79.4
180	82.2
185	85.0
190	87.8
200	90.6
205	93.3
210	96.1
212	100.0
220	104.4



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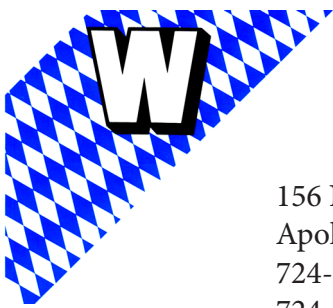
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 Pulaski, PA 16143
 724-964-8822
 724-964-8823 fax

4636 Benedum Drive
 Bridgeport, WV
 304-592-3217
 304-592-3591 fax

WEIGHTS AND MEASURES

Linear Measure	
12 inches	1 foot
3 feet	1 yard
5 1/2 yards	1 rod
40 rods	1 furlong
8 furlongs	1 standard mile
3 miles	1 league
Square Measure	
144 sq. in.	1 sq. ft.
9 sq. ft.	1 sq. yard
30 1/4 sq. yds.	1 sq. rod
40 sq. rods	1 rood
4 rods	1 acre
640 acres	1 sq. mile
Surveyor's Measure	
144 sq. inches	1 sq. ft.
9 sq. ft.	1 sq. yard
30 1/4 sq. yds.	1 sq. rod
40 sq. rods	1 rood
4 rods	1 acre
640 acres	1 sq. mile
Cubic Measure	
1,728 cubic in.	1 cubic foot
128 cubic ft.	1 cord wood
27 cubic ft.	1 cubic yard
40 cubic ft.	1 ton shipping
2,150.42 cu. in.	1 standad bushel
268 cubic in.	1 std. gal. dry
231 cubic in.	1 std. gal. liquid
1 cubic foot	about 4/5 bushel
1 perch	A mass 16 1/2 ft. long, 1 ft. high & 1 1/2 ft. wide containing 24 3/4 cubic feet.

Metric Equivalentents - Linear	
1 centimeter	0.3937 inch
1 decameter	3.937 inch or 0.328 ft.
1 meter	39.37 inch or 1.0936 yds.
1 dekameter	1.9884 rods
1 kilometer	0.62137 mile
1 inch	2.54 centimeters
1 foot	3.048 decimetes
1 yard	0.9144 meters
1 rod	0.5028 dekameters
1 mile	1.6093 kilometres
Square Measure	
1 sq centimeter	0.1,550 sq. inch
1 sq. decimeter	0.1076 sq. ft.
1 sq. meter	1.196 sq. yd.
1 acre	3.954 sq. rods
1 hectare	2.47 acres
1 sq. kilometer	0.386 sq. mile
1 sq. inch	6.452 sq. centimeters
1 sq. foot	9.2903 sq. decimeters
1 sq. yard	0.8361 sq. meter
1 sq. rod	0.259 acre
1 acre	0.44047 hectare
1 sq. mile	2.59 sq. kilometers
Weights	
1 gram	0.03527 ounces
1 kilogram	2.204622 lbs.
1 metric ton	0.9842 English ton
1 ounce	28.35 grams
1 pound	0.4536 kilograms
1 English ton	1.0160 metric tons

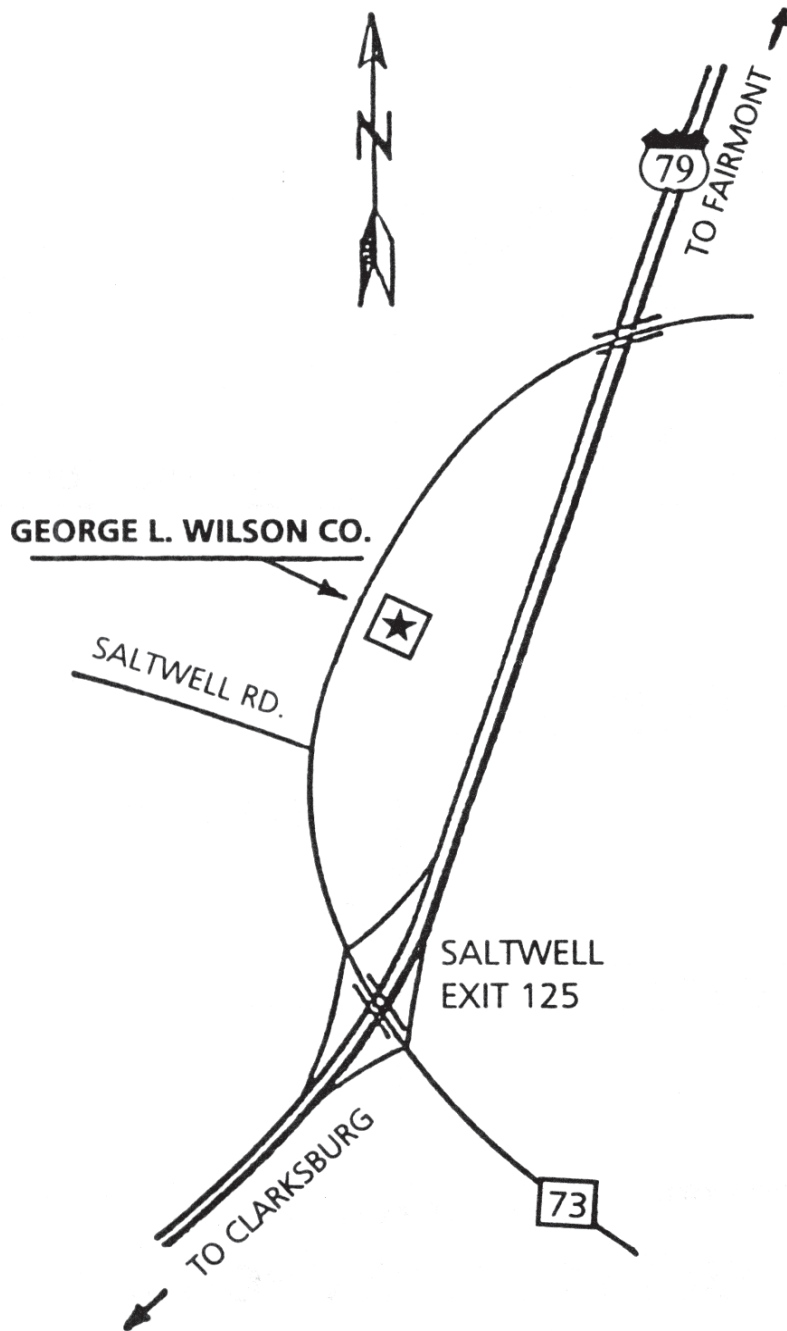


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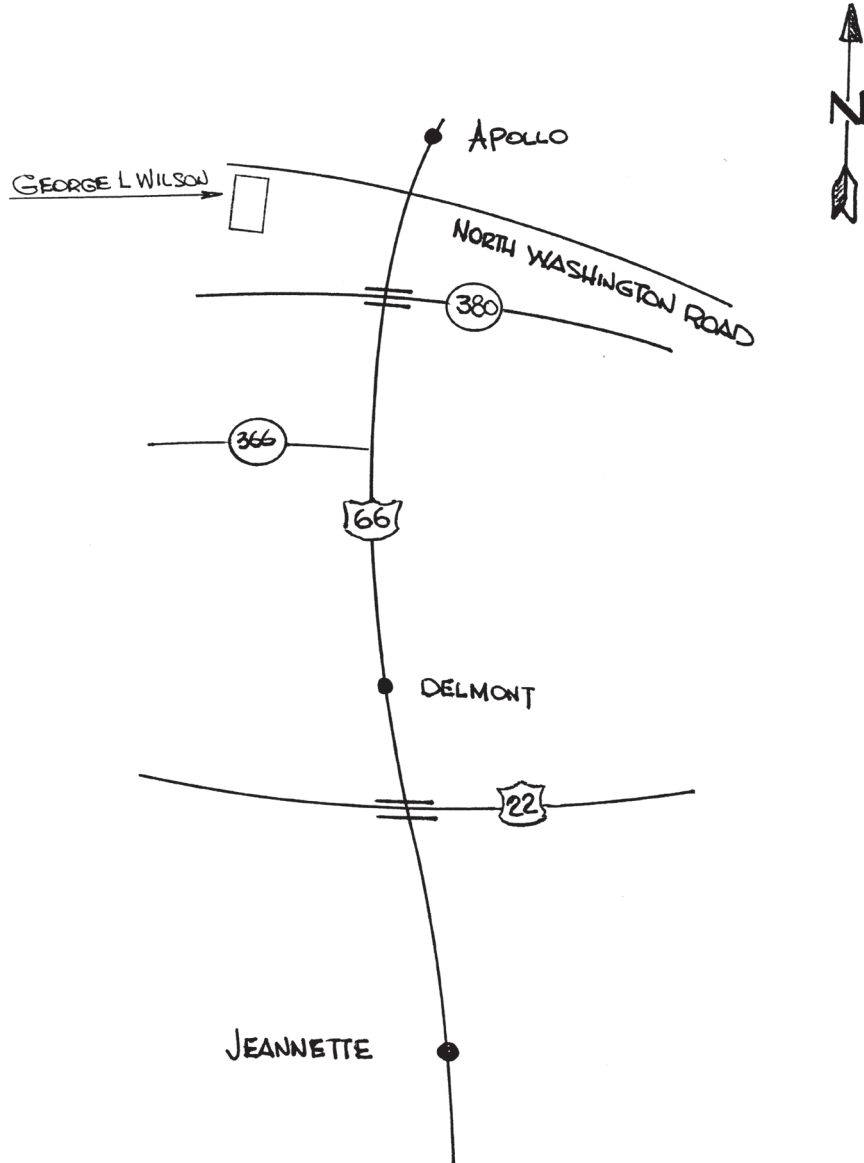


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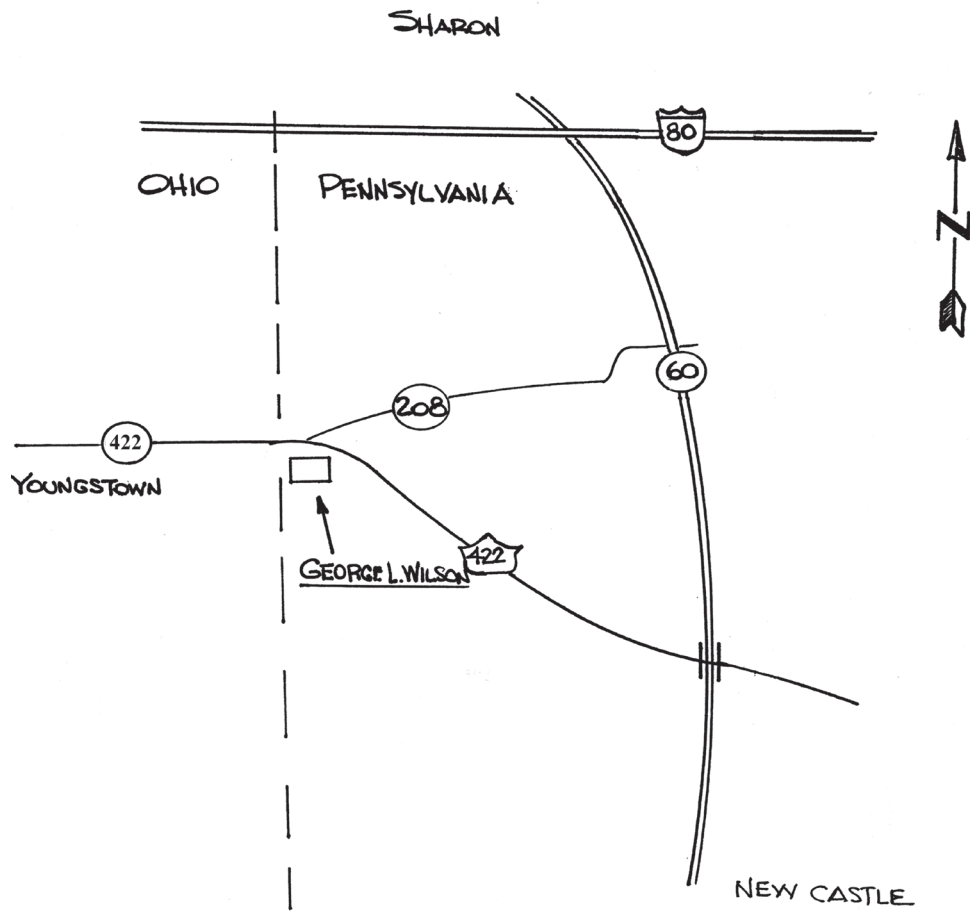


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