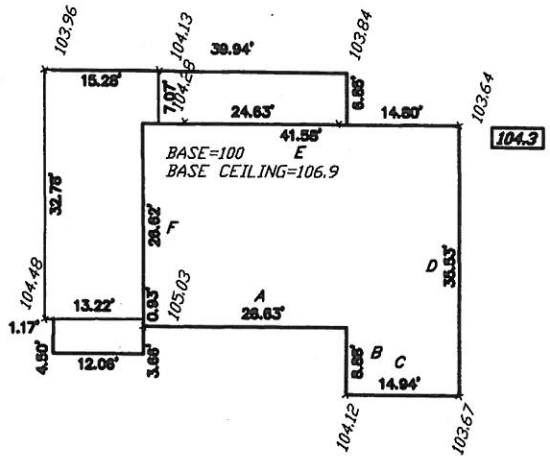
#48 MIDDLECOT STREET

ROBER SURVEY
1072 MASSACHUSETTS AVENUE
ARLINGTON, MA 02476
(781) 648-5533

DWG. NO. 4759PP1.DWG

104.3 - PROPOSED ELEVATION



A
106.9 − 105.03 = 1.87
106.9 − 104.12 = 2.78
(1.87 + 2.78)/2 x 26.63 = 61.91

105.03 | 104.12 | 26.63

BASEMENT CEILING=106.9 (TYPICAL)
BASEMENT=100 (TYPICAL)

B
106.9 − 104.12 = 2.78
106.9 − 104.12 = 2.78
(2.78 + 2.78)/2 x 8.88 = 24.69

104.12 | 104.12 | 8.88

C
106.9 − 104.12 = 2.78
106.9 − 103.67 = 3.23
(2.78 + 3.23)/2 x 14.94 = 44.89

104.12 | 103.67 | 14.94

D
106.9 − 103.67 = 3.23
106.9 − 104.3 = 2.60
(3.23 + 2.60)/2 x 35.53 = 103.57

103.67 | 104.3 | 35.53

E
106.9 − 104.3 = 2.60
106.9 − 104.28 = 2.62
(2.60 + 2.62)/2 x 41.58 = 108.52

104.3 | 104.28 | 41.58

F
106.9 − 104.28 = 2.62
106.9 − 105.03 = 1.87
(2.62 + 1.87)/2 x 26.62 = 59.76

104.28 | 105.03 | 26.62

$$\frac{61.91 + 24.69 + 44.89 + 103.57 + 108.52 + 59.76}{6.9 \times 154.17} = \frac{403.34}{1063.77}$$

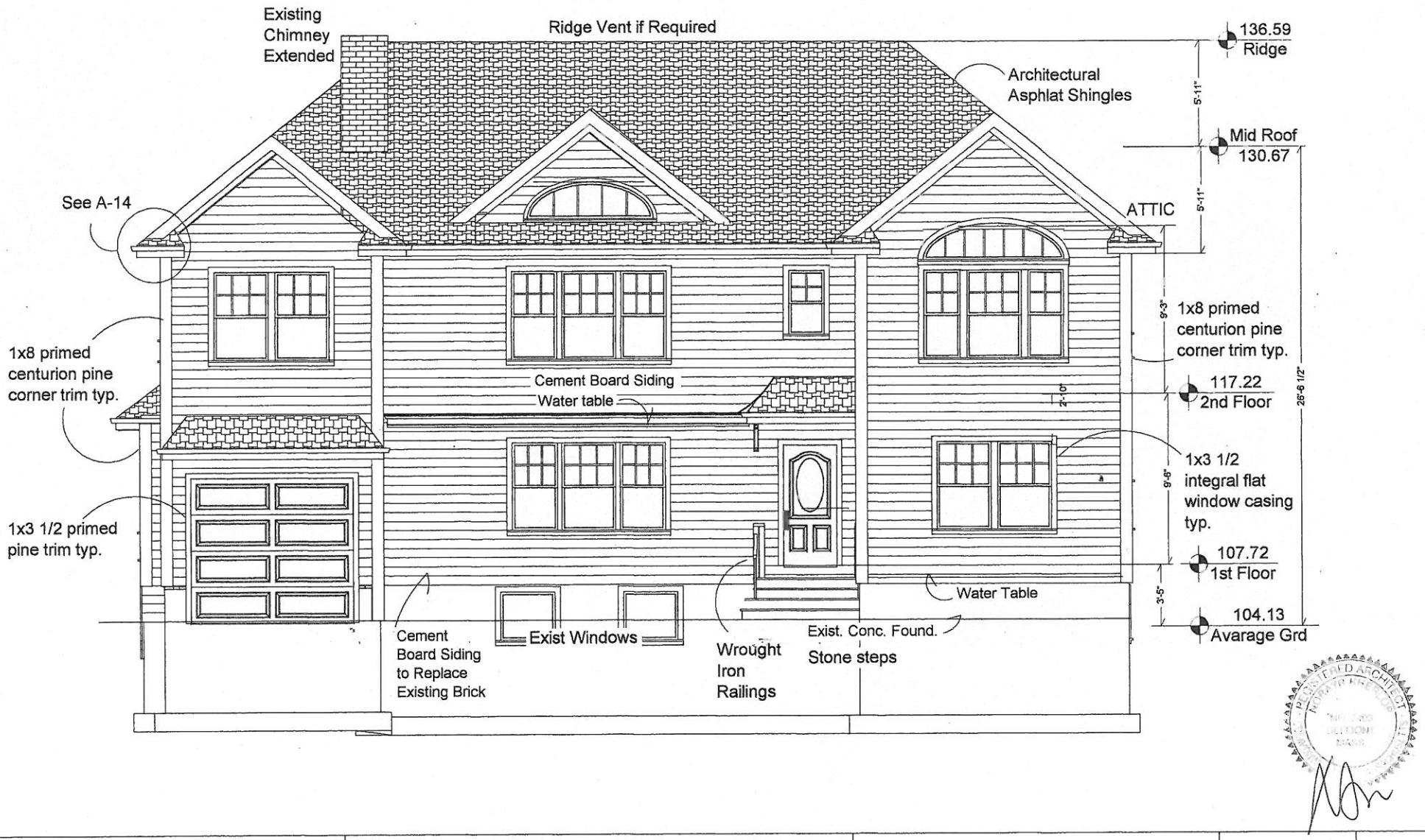
$\frac{403.34}{1063.77}$ = 37.9% OF FOUNDATION IS ABOVE GRADE

COMMONWEALTH OF MASSACHUSETTS
CLIFFORD E. ROBER
NO. 33189
PROFESSIONAL LAND SURVEYOR

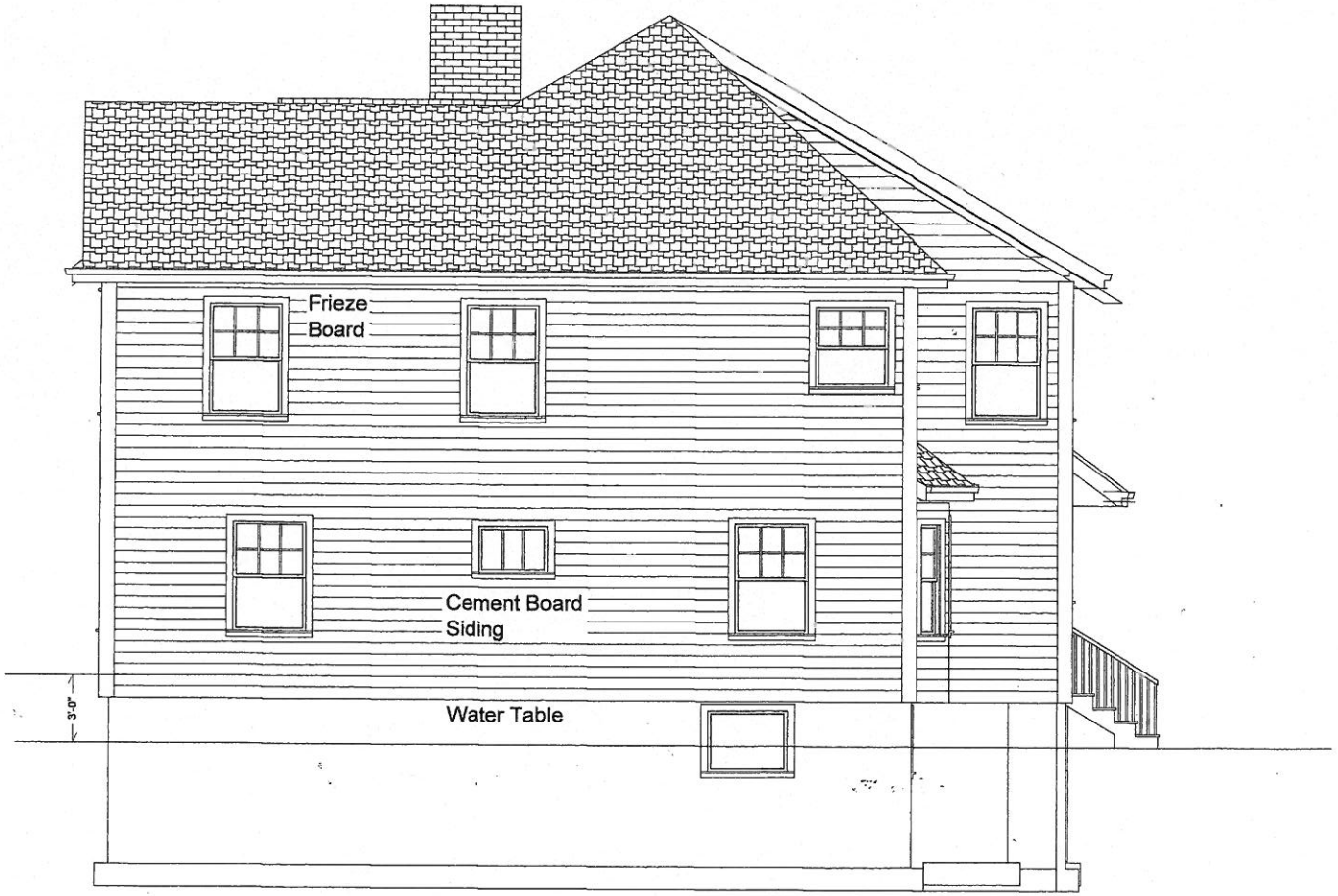
1/7/16

[(104.48+105.03)/2 x 13.22] + [(105.03+105.03)/2 x 0.93] + [(105.03+104.12)/2 x 26.63] + [(104.12+104.12)/2 x 8.88] + [(104.12+103.67)/2 x 14.94] + [(103.67+103.64)/2 x 35.53] + [(103.64+104.28)/2 x 39.43] + [(104.28+104.13)/2 x 7.07] + [(104.13+103.96)/2 x 15.28] + [(103.96+104.48)/2 x 32.78]
PERIMETER=194.68
EXISTING AVERAGE GRADE = 104.11

[(104.48+105.03)/2 x 12.06] + [(105.03+105.03)/2 x 3.66] + [(105.03+104.12)/2 x 26.63] + [(104.12+104.12)/2 x 8.88] + [(104.12+103.67)/2 x 14.94] + [(103.67+104.30)/2 x 35.53] + [(103.64+103.84)/2 x 14.80] + [(103.84+103.84)/2 x 6.85] + [(103.84+103.96)/2 x 39.94] + [(103.96+104.48)/2 x 32.78] + [(104.48+104.48)/2 x 1.17] + [(104.48+104.48)/2 x 4.50]
PERIMETER=201.74
PROPOSED AVERAGE GRADE = 103.70



ADDITION AT 48 MIDDLECOT STREET BELMONT MA	NORDESIGN & BUILD LLC ARCHITECTS 21 HOUGH ROAD BELMONT MA 02478 617-283-5299	FRONT (WEST) ELEVATION) 3/16"=1'-0"	2/1/16	A-8



ADDITION AT 48 MIDDLECOT STREET BELMONT MA	NORDESIGN & BUILD LLC, ARCHITECTS 21 HOUGH ROAD BELMONT MA 02478 617-283-5299	SOUTH ELEVATION 3 /16" = 1'-0"	1/20/16	A-9

ADDITION AT 48 MIDDLECOT STREET BELMONT MA	NORDESIGN & BUIL LLC ARCHITECTS 21 HOUGH ROAD BELMONT MA 02478 617-283-5299	REAR (EAST) ELEVATION 3/16" = 1'-0"	2/2/16	A-10

ADDITION AT 48 MIDDLECOT STREET BELMONT MA	NORDESIGN & BUILD LLC, ARCHITECTS 21 HOUGH ROAD BELMONT MA 02478 617-283-5299	NORTH ELEVATION 3/16"=1'-0"	2/2/16	A-11