

2020

# RATIO SCALES 3/2/2020 mjs

①

IN World

$$1 \text{ IN} = 10 \text{ MI}$$

FT IN World

$$1 \text{ IN} = 10 \times 5280 \text{ FT}$$

IN World

$$1 \text{ IN} = 52,800 \text{ FT}$$

IN/FT IN World

$$1 \text{ IN} = 52,800 \times 12 \text{ IN/FT}$$

IN IN World

$$1 \text{ IN} = 633,600 \text{ INCH}$$

7828

$$1 : 633,600$$

79

$$1/633,600 = 0.00000157828$$

②

$$1 \text{ IN} = 50,000 \text{ FT}$$

$$1 \text{ IN} = 50,000 \times 12 \text{ IN/FT}$$

7

$$1 \text{ IN} = 600,000 \text{ INCHES}$$

9.99

$$1 : 600,000$$

$$1/600,000 = 0.000001667$$

③

$$1 \text{ IN} = 100 \text{ FT}$$

$$1 \text{ IN} = 100 \times 12 \text{ IN/FT}$$

$$1 \text{ IN} = 1,200 \text{ INCHES}$$

$$1 : 1,200$$

$$1/1,200 = 0.0008333$$

④

$$1 \text{ IN} = 80 \text{ FT}$$

$$1 \text{ IN} = 80 \times 12 \text{ IN/FT}$$

$$1 \text{ IN} = 960$$

$$1 : 960$$

$$1/960 = 0.00104167$$

3/2/2020

# SCALING VICINITY MAPS 3/2/2020 mjf

① ORIGINAL TRAVERSE (OT)

$$1 \text{ IN.} = 80 \text{ FT}$$

② ORIGINAL VICINITY MAP (OVM)

$$1 \text{ FT} = 1 \text{ FT}$$

③ SCALED VICINITY MAP (SVM)

$$1 \text{ FT} = (1 \text{ FT} \times 0.01)$$

$$1 \text{ FT} = \frac{1}{100}$$

④ SCALED VICINITY MAP (OVM)

INSERTED IN

ORIGINAL TRAVERSE (OT)

$$\textcircled{4-1} \quad \frac{1}{100} \text{ OVM} \times \text{OT} = \text{INSERTED SCALE OF VICINITY MAP (ISVM)}$$

$$\textcircled{4-2} \quad \frac{1}{0.1} \times 80 = 1 \text{ SVM}$$

$$100 \times 80 = 1 \text{ SVM}$$

$$8,000 = 1 \text{ SVM}$$