

SUBJECT: _____

STEP 6 Calculate minimum number of Miragrid Layers, N_{min}

$$N_{min} = P / (LTDS)$$

$$= 5,120 / 2,234$$

$$N_{min} = 2.29 \text{ Layers}$$

STEP 7 Embedment length of primary geogrid from Chart 2

$$L/H' \text{ ratio from Chart 2} = \beta = 90^\circ \quad \phi'_g = 29.5^\circ$$

$$L/H' = 0.65$$

$$L = (L/H')(H')$$

$$= (0.65)(16.0)$$

$$L = 10.04' \quad (\text{AT HIGHEST GRID})$$

STEP 8/9 Calculate maximum allowable vertical spacing

$$S_{vmax} = (LTDS) / K \gamma H'$$

$$= (2234) / (0.40)(100)(16.0)$$

$$S_{vmax} = 3.49'$$

See Drawings



Boyd Clardy
 No. 2002-003179
 Exp. 12/31/2018

1/11/17 E24884
 Exp 12/31/18