

**GENERAL NOTES:**

DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments.

LIVE LOAD: 240 psf equivalent to 2 feet soil weight.

SOIL PARAMETERS: (For determination of Design Lateral Earth Pressures)  
 Backfill soil weight = \_\_\_\_\_ lb/ft<sup>3</sup>  
 Friction Angle = \_\_\_\_\_ °  
 Active Pressure coefficient, Ka = \_\_\_\_\_  
 Bedrock Unit Weight = \_\_\_\_\_ lb/ft<sup>3</sup>

SEISMIC PARAMETERS: k<sub>h</sub> = \_\_\_\_\_

STEEL SOLDIER PILES: ASTM A572/A, ASTM 572M Grade 50 Min, or ASTM A36/A36M

REINFORCED CONCRETE (WALERS): f'c = 4000 psi, fy = 60 ksi

STRUCTURAL TIMBER: Treated Douglas Fir, Grade No. 1 or better. Timber to be full sawn

PRESTRESSING STEEL (GROUND ANCHORS):  
 FDL = Factored Design Load on ground anchor (kips)  
 FTL = Factored Test Load (kips)  
 LL = Lock-Off Load (kips)  
 fpu = Minimum ultimate tensile strength of ground anchor steel (ksi)

As (Min) = Minimum cross sectional area of steel in ground anchor (square inches)  
 Steel = ASTM designation: A416 (High Strength Strands)

$$As \text{ (Min)} = \frac{1.0 \text{ FTL}}{0.75 \text{ fpu}}$$

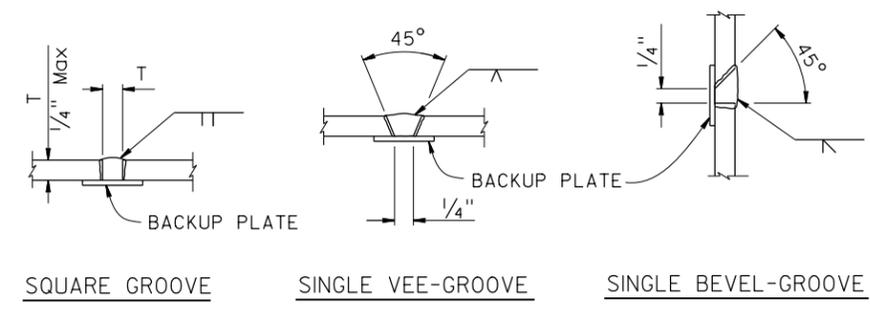
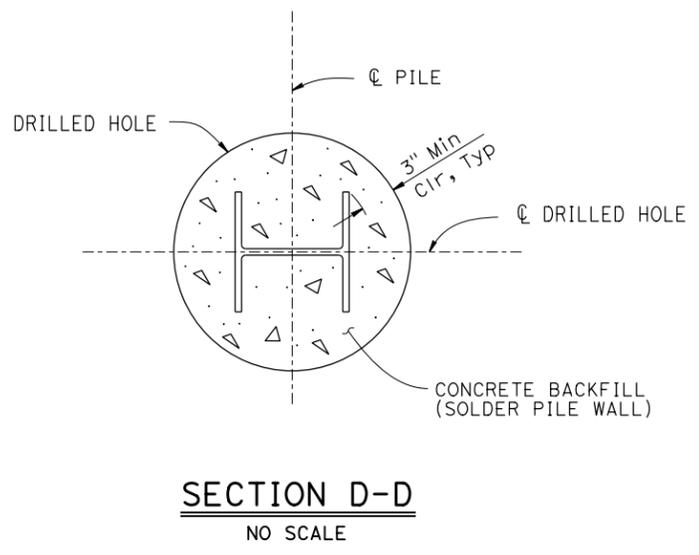
Steel = ASTM designation: A722 (High Strength Bars)

$$As \text{ (Min)} = \frac{1.0 \text{ FTL}}{0.80 \text{ fpu}}$$

FDL = \_\_\_\_\_ Kips

FTL = \_\_\_\_\_ Kips

LL = \_\_\_\_\_ Kips



- NOTES:
1. Single vee-groove and square groove permitted for all positions.
  2. Single bevel-groove permitted for horizontal joints only.