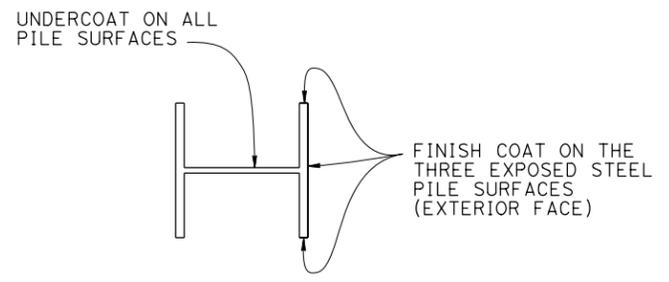
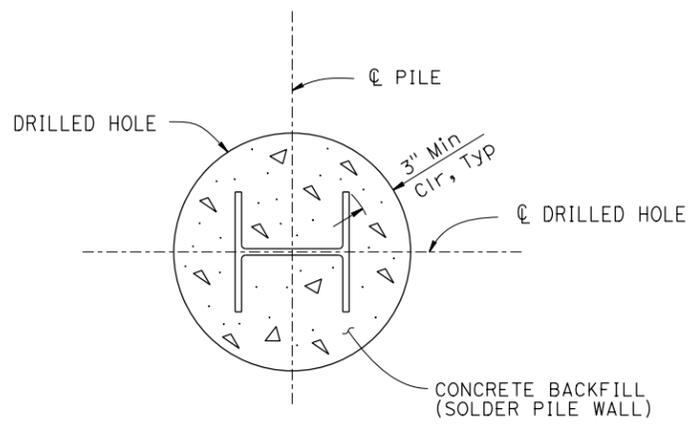


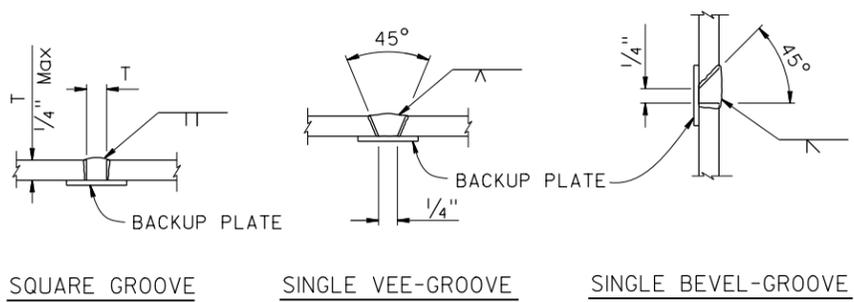
SECTION C-C
NO SCALE



LIMITS OF CLEAN & PAINT STEEL SOLDIER PILE
NO SCALE



SECTION D-D
NO SCALE



PILE WELDING DETAIL-BUTT JOINTS
NO SCALE

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

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/ft³
 Friction Angle = _____ °
 Active Pressure coefficient, Ka = _____
 Bedrock Unit Weight = _____ lb/ft³

SEISMIC PARAMETERS: k_h = _____

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

Steel = ASTM designation: A722 (High Strength Bars)

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

FDL = _____ Kips
 FTL = _____ Kips
 LL = _____ Kips