



Figure 11A.B.1 American Welding Society Symbol Chart 1

Basic Welding Symbols and Their Location Significance										
Location Significance	Fillet	Plug or Slot	Spot or Projection	Stud	Seam	Back or Backing	Surfacing	Edge		
Arrow Side										
Other Side				Not Used			Not Used			
Both Sides		Not Used	Not Used	Not Used	Not Used	Not Used	Not Used			
No Arrow Side or Other Side Significance	Not Used	Not Used		Not Used		Not Used	Not Used	Not Used		
Location Significance	Groove									
Arrow Side	Square	V	Bevel	U	J	Flare-V	Flare-Bevel	Scarf for Brazed Joint		
Arrow Side										
Other Side										
Both Sides										
No Arrow Side or Other Side Significance		Not Used	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used



Figure 11A.B.2 American Welding Society Symbol Chart 2

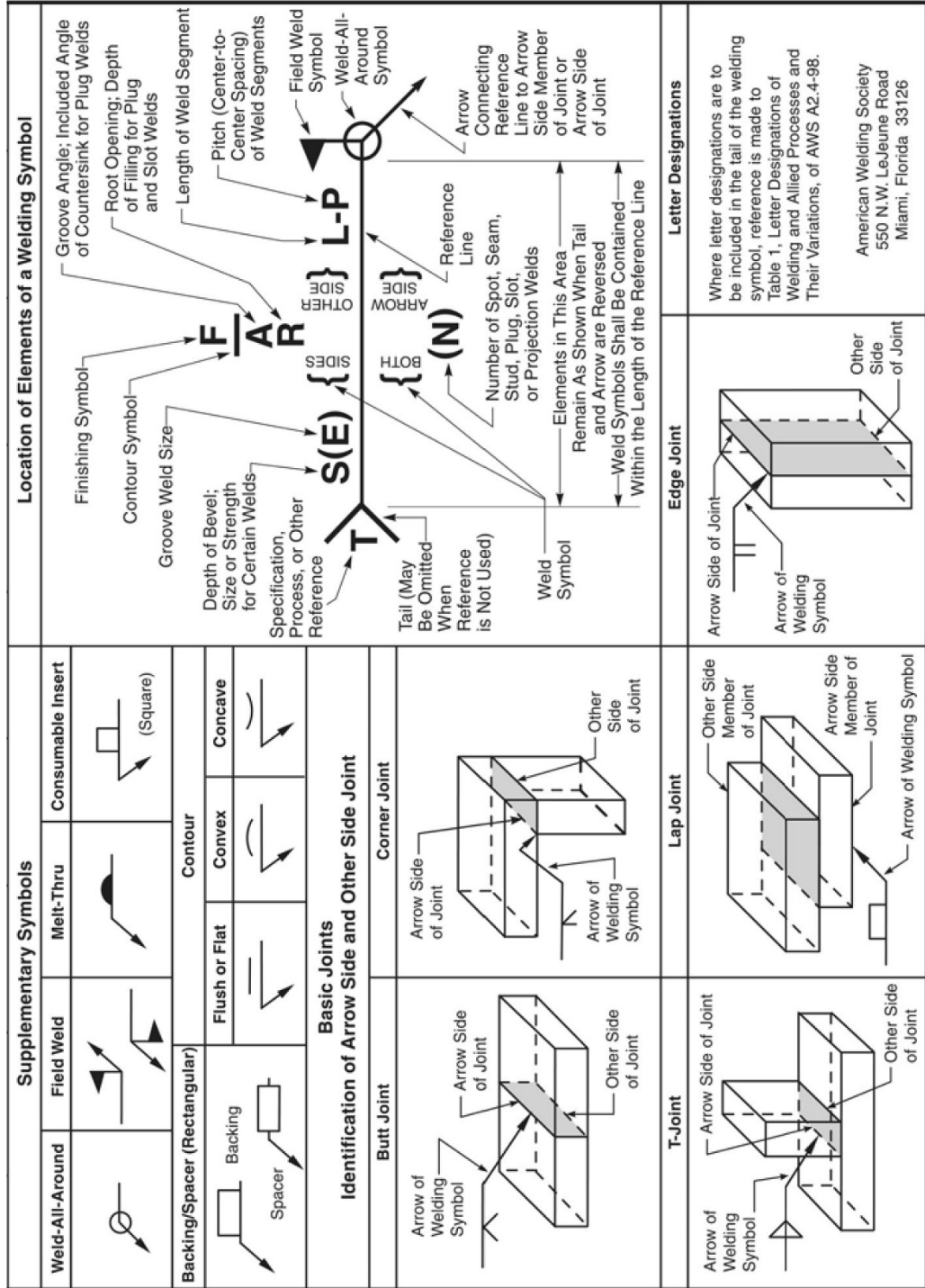
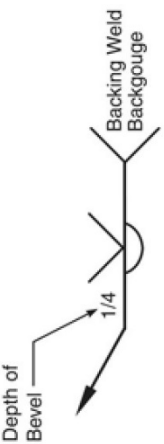
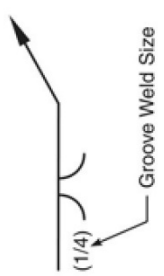

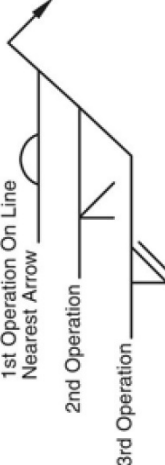
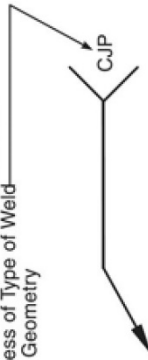
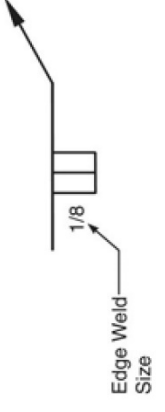
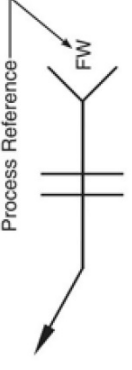
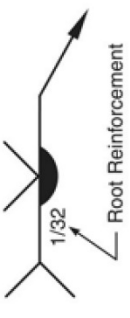
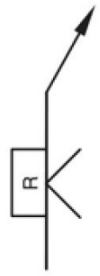
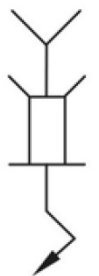






Figure 11A.B.3 American Welding Society Symbol Chart 3

Typical Welding Symbols		
<p>Double-Fillet Welding Symbol</p> <p>Fillet Weld Size $\frac{3}{16}$</p> <p>Omission of Length $\frac{1}{4}$</p> <p>Length 6</p> <p>Fillet Weld Size 4</p> <p>Omission of Length Indicates that Weld Extends Between Abrupt Changes in Direction or as Dimensioned</p>	<p>Chain Intermittent Fillet Welding Symbol</p> <p>Pitch (Distance Between Centers of Segments) $\frac{5}{16}$</p> <p>Fillet Weld Size (Length of Leg) $\frac{7}{16}$</p> <p>Length of Segments 2-5</p> <p>Length of Segments 2-6</p>	<p>Staggered Intermittent Fillet Welding Symbol</p> <p>Fillet Weld Size (Length of Leg) $\frac{1}{2}$</p> <p>Pitch (Distance Between Centers of Segments) 3-5</p> <p>Length of Segments 3-5</p>
<p>Plug Welding Symbol</p> <p>Included Angle of Countersink 30°</p> <p>Plug Weld Size (Diameter of Hole at Root) $\phi 1$</p> <p>Depth of Filling (Omission - Indicates Filling is Complete) $\frac{3}{4}$</p>	<p>Back Welding Symbol</p> <p>Back Weld</p> <p>2nd Operation</p> <p>1st Operation</p>	<p>Backing Welding Symbol</p> <p>Backing Weld</p> <p>1st Operation</p> <p>2nd Operation</p>
<p>Spot Welding Symbol</p> <p>Spot Weld Size .025</p> <p>Number of Welds (5)</p> <p>Pitch 4</p> <p>Process RSW</p>	<p>Stud Welding Symbol</p> <p>Stud Size $\frac{1}{2}$</p> <p>Number of Studs (6)</p> <p>Pitch (7)</p>	<p>Seam Welding Symbol</p> <p>Seam Weld Size .030</p> <p>Increment Length 3-9</p> <p>Pitch</p> <p>Process RSEW</p>
<p>Square-Groove Welding Symbol</p> <p>Groove Weld Size $\frac{3}{16}$</p> <p>Root Opening $\frac{1}{8}$</p>	<p>V-Groove Welding Symbol</p> <p>Depth of Bevel $\frac{3}{8}$</p> <p>Groove Weld Size $\frac{1}{2}$</p> <p>Root Opening $\frac{1}{8}$</p> <p>Groove Angle 60°</p> <p>Groove Weld Size $\frac{1}{4}$</p>	<p>Double-Bevel-Groove Welding Symbol</p> <p>Groove Weld Size (1)</p> <p>Groove Weld Size (1-$\frac{1}{4}$)</p> <p>Arrow Points Toward Member to be Beveled</p>

Figure 11A.B.4 American Welding Society Symbol Chart 4

<p>Symbol with Backgouging</p>  <p>Depth of Bevel — 1/4</p> <p>Backing Weld Backgouge</p>	<p>Flare-V-Groove Welding Symbol</p>  <p>(1/4) — Groove Weld Size</p>	<p>Flare-Bevel-Groove Welding Symbol</p>  <p>(1/4) — Groove Weld Size</p>
<p>Multiple Reference Lines</p>  <p>1st Operation On Line Nearest Arrow</p> <p>2nd Operation</p> <p>3rd Operation</p>	<p>Complete Joint Penetration</p>  <p>CJP</p> <p>Indicates Complete Joint Penetration Regardless of Type of Weld or Joint Geometry</p>	<p>Edge Welding Symbol</p>  <p>1/8 — Edge Weld Size</p>
<p>Flash or Upset Welding Symbol</p>  <p>Process Reference — FW</p>	<p>Melt-Thru Symbol</p>  <p>1/32 — Root Reinforcement</p>	<p>Joint with Backing</p>  <p>'R' Indicates Backing Removed After Welding</p>
<p>Joint with Spacer</p>  <p>With Modified Groove Weld Symbol</p> <p>Double-Bevel Groove</p>	<p>Flush Contour Symbol</p>  <p>Back Weld</p>	<p>Convex Contour Symbol</p>  <p>G</p>