NOTES:
#1 - Isolate all metal parts from ACQ treated wood or other galvanically incompatible material with appropriate membrane material.
#2 - Appliance attachments, such as lightning rods, signs, or antennae that penetrate the water seal, induce a galvanic reaction, or otherwise compromise the effectiveness of the roof edge system, shall be eliminated or isolated to prevent problems per section 8.0 of ANSI/SPRI ES-1. Appliances should be isolated from or not attached to the roof edge system. Consult the lightning protection system manufacturer for specific attachment instructions.

**A. Formed Gutter**
10'-0" Lengths

**B. Concealed Joint Splice**
6" Wide at All Joints

**C. Gutter Strap**
(30" On Center Typ.)

**D. Mechanical Fastener**
Located at Each Hole & Gutter Strap
(30" On Center Typ., By Installer)

**E. Base Ply Membrane**
(By Installer)

**F. Strip In Membrane**
(By Installer)

**G. Gutter Hanger**
(Optional, by Design)

**H. Gutter Fastener**
(By Installer)
STEP 1: Installing Hanger (Optional, by Design)
Locate appropriate hangers and install @ 30” o.c. using mechanical fasteners in pre-punched holes.

STEP 2: Installing Gutter Miters
Locate the miters and concealed joint splices for the appropriate corners. Install the miter by nailing through pre-punched holes with gutter fasteners (by installer). Apply a heavy bead of non-curing sealant to inside of each miter end. Install a concealed joint splice into each miter end. Pop-Rivet the joint splice @ 2” o.c. Pop-rivets are provided by manufacturer.

STEP 3: Installing Gutter Straight Lengths
Apply a heavy bead of non-curing sealant to each end of gutter length and insert a concealed joint splice into the end opposite the miter. Install gutter section onto joint splice of miter and nail gutter sections to wood nailers in each pre-punched hole with gutter fasteners. **Allow 1/4" gap between gutter sections for thermal expansion.** Lengths of all straight pieces should be considered prior to cutting to avoid creating relatively short sections of gutter adjacent to full length sections. Pop-Rivet the joint splice @ 2” o.c. Pop-rivets are provided by manufacturer. Note: there should be a joint splice at every joint.

STEP 4: Installing Straps
Hook strap under leading edge of gutter and rotate into place. Install @ 30” o.c. using mechanical fasteners in pre-punched holes.

STEP 5: Installing Expansion Joints
Install expansion joint in locations as specified on roof plans or at a maximum of 50'-0". An expansion joint will consist of two pre-fabricated end caps, one expansion joint cap, and one expansion joint cover. Pop-Rivet the expansion joint cover at 2” o.c. Pop-rivets are provided by manufacturer.

STEP 6: Installing Downspout Outlets
Determine outlet locations and field cut hole in gutter bottom. Insert starter tube outlet (see installation guide for downspout) and fasten with 2 rivets in each flange and seal, with non-curing sealant. Pop-rivets are provided by manufacturer.