A Typical 100 Ampere Residential Mast Service Entrance Note: All current National Electric Carroll Electric Cooperative, Inc. Code requirements will be the Engineering Department responsibility of the consumer 350 Canton Rd. NW prior to connection. Carrollton, DH 44615 (330) 627-2116 or 800-232-7697 (330) 627-7050 FAX 18 INCH MINIMUM LEAD 32" Max. #2 Aluminum or 22" #4 Copper Min. MAST NOTE: If mast Flange roof kit requires more than one section of conduit, the longest section of conduit shall be on top. 2" by 4" blocking If outside meter socket is more than between rafters. 6 feet from inside main panel box after coming through the wall, an outside main Must be solidly disconnect will be required. installed. One could either add a disconnect under the -1 1/4" Conduit Strap meter socket, or use a combination meter socket / disconnect. A (4) wire entrance 12' Min circuit will then need to be utilized. -1 1/4" Rigid (17' over Meter socket, 4 terminal, ringless type, Metal Conduit driveway) 3-wire (with grounding lug), 1 phase, 600 volt, 125 ampere rated. -1 1/4" Conduit Strap To be mounted between 4 feet 6 inches and 6 feet above ground line. -1 1/4" HUB Entrance Cable Do NOT break or cut ground wire. #2 Aluminum or #4 Copper To be CONTINUOUS. Ground Wire to Ground Rods

NDTE: Ground wire to run from meter socket or breaker panel and connect the two ground rods with one continuous wire.

#4 Bare Copper

Two Bronze Ground Rod Clamps Two 5/8 " x 8' Ground Rods Ground Line

WARNING - AT NO TIME SHOULD YOU PUT COPPER AND ALUMINUM TOGETHER UNDER THE SAME CONNECTOR.

CORROSION INHIBITOR TO BE USED ON ALL ALUMINUM CONNECTIONS.

Rev. March 2012