Notes:

1. Use minimum 0.100 inch thickness sign backing material.
2. Punch holes round for 1/8" bolt.
3. Pulling Winch: Build winch for lifting and pulling operations with self locking mechanism. Use winch and cable attachment in compliance with SAE Standard J1053 and mount using three 1/8" diameter bolts, washers and lock washers.
4. Use laminated high carbon steel gears. Copper bronze drive gears and arbor welded gears. High tensile for added strength. Ensure gears are free wheeling when mechanism is disengaged. Use 1/8" diameter 7 strand steel wire cable ride. Use heavy duty steel with molded grips for handle and embossed reinforced steel base. Provide permanently lubricated bearings for drive shafts. Include cable clamp. If using large hub, provide permanently lubricated bearings for drive shafts. Include cable clamp.
5. Use 1/8" thick steel plate conforming to AASHTO M270 Grade 36 and galvanized in conformance with ASTM A153 for pulling winch and pulley attachment hardware. Provide pulleys of approximate 3" diameter plus a 1/8" diameter cable ride. Use spacers between the hub and the attachment brackets so pulleys ride in the center of brackets without moving back and forth. Fabricate bolts, nuts, and washers of steel meeting ASTM A307 and galvanized in conformance with ASTM A153.
6. Use double galvanized 7 strand steel wire cable not less than 1/8" diameter meeting ASTM A475.
7. Use 4" wide x 2" deep x 1/8" thick stainless steel hinges with 1/8" Dia [10-24] x 5/8" long slotted countersunk flat head stainless steel stove bolts/machine screws with stainless steel locking nuts to attach to extruded panels. Place centerline of hinge pin with offset letters so sign will hang down vertically.

Place bolt close enough to pulley so cable will not jump off pulley or prevent pulley from turning.

Prevent pulley from turning. Not jump off pulley or to pulley so cable will not jump off pulley or prevent freewheeling of pulley.

Use heavy duty steel with molded grips for handle and embossed reinforced steel base. Provide permanently lubricated bearings for drive shafts. Include cable clamp.

Prevent pulley from turning. Not jump off pulley or to pulley so cable will not jump off pulley or prevent freewheeling of pulley.

Use heavy duty steel with molded grips for handle and embossed reinforced steel base. Provide permanently lubricated bearings for drive shafts. Include cable clamp.

Use 1/8" thick plate to shape shown so cable drops into pulley well.