C426

STANDARD EXTERNAL DRIVE LOWERING DEVICE

SPECIFICATIONS

HEADFRAME ASSEMBLY

The headframe assembly shall consist of a 1/4" thick minimum top plate, with sheave support plates fabricated from a minimum 11 gauge steel sheet. The sheave support plate shall be welded to the headframe base plate. The complete headframe assembly shall be galvanized after fabrication.

Hoist cables shall operated over corrosion resistant 5-inch diameter aluminum sheaves. The entire cable groove

surface shall be machined to eliminate any rough surface on which the cable shall ride.

The main power cord shall be supported by a minimum of two power cord sheaves grooved to provide for a nonabrasive smooth operation.

All sheaves shall have sintered bronze oilite bearings and run on a stainless steel axil secured with self-locking stainless steel hardware.

On the under-side of the headframe shall mount three aluminum guide sockets. The socket opening shall be tapered cone shaped for locking and aliening the stainless steel locking pin mounted on the luminaire ring up against the headframe. The stainless steel locking pin shall insert a minimum of 4 into the cast aluminum guide socket. All hardware is corrosion resistant stainless steel.

The headframe assembly shall have a spun copper free aluminum cover. The cover shall be bolted to the headframe with stainless steel hardware at 3 locations.

THE LUMINAIRE RING ASSEMBLY

The luminaire ring shall be fabricated to 6" x 2" x #7 gauge spun steel per ASTM A-569, with the appropriate number of luminaire mounting tenons, hot dipped galvanized per ASTM A-123 after fabrication. The luminaire ring shall have a prewired weathertight Nema 4 terminal box with 3 conductor, 16 AWG., type SEO 105 degree cable. The prewired distribution box shall be capable of accepting up to 15 fixtures. A weathertight twist lock test inlet shall be mounted to the terminal box to permit testing of the luminaires while the ring is in the lowered position.

The luminaire ring shall contain at least 14 fixed rollers mounted on the inside of the ring to protect the ring from impacting the pole. Rollers shall be fabricated from impact resistant non-marking PVC, rolling on stainless steel shafts.

Highly visible 4 " minimum retroreflective indicator flags shall be mounted on the ring which will provide positive

indication at the handhole that the required 300 pounds of total seating force has been applied, visible from an extended operating position 20' from the base of the pole.

The three hoist cables shall be 3/16-inch stainless steel wound cable. Winch cable is 1/4"-inch galvanized steel wound cable (Stainless steel winch cable is optional).

The three hoist cables shall pass up through the pole shaft, over the headframe sheaves, to the luminaire ring, where they travel through guides and a compression spring and terminate with a collate-type device.

A safety mechanism shall be located in the base of the pole and consist of a stainless steel safety cable and hook to act as a backup to the winch cable assembly in maintaining the tension on the transition assembly.

THE WINCH PLATE ASSEMBLY

A circuit breaker shall be mounted in an aluminum enclosure on the winch sub-plate to act as the disconnecting means for the lowering device. Prewired to the breaker shall be a twist-lock, weathertight connector matching those used in the system, mounted to a 8' tail of power cord of the same type, gauge and number of conductors as the power cord. This cord and connector shall be used to alternately supply power to the lowering device system, the test inlet and the portable power unit assembly.

The winch shall be an enclosed oil-bath worm gear winch, set with a reduction ratio of 30 to 1. The Self-locking precision winch guards against ring runaway in the event of power failure.

THE PORTABLE POWER UNIT (C408GXXXX)

The portable power unit shall incorporate the drive motor, torque limiter, drive shaft and electrical controls. The Torque limiter is factory set to provide safe reliable operation. Twenty-five foot long cord on the remote electrical control box provides for remote operation of the portable power unit. The drive motor is a heavy duty .85 horsepower 120 volt reversing electric drill.

The portable power unit shall be provided with a weatherproof, portable enclosed stepdown transformer to operate the 120 volt power unit.