DESCRIPTION OF HARDWARE

Delta Scientific TT-203 8" dia x 24" high Pneumatic bollard (White semi-gloss finish) system with valving and up limit switch.

Delta Scientific Pneumatic Pumping Unit (PPU) enclosure (Black finish) with equipment and controls for a complete system to work in the following manner:

- Down by wireless receiver, Microplus receiver with 1250 memory, keypad and USB computer interface
- Down by detector loop from either direction unless bollard is fully UP, once UP, loops are no longer active, even if the bollard is pushed down by hand with a vehicle on a loop.
- Down if power fails (stays down after power returns until a vehicle crosses and clears both loops)
- 120 volt 15 amp 2Hp compressor with 12 gallon tank, main pressure gauge, regulator with pressure gauge, particulate filter and programmable timed auto drain.

Also include the following:

- 120 volt accessory GFIC receptacle

- 3 way toggle switch for UP, AUTO, DOWN (UP AND DOWN positions, hold bollard in position and locks out external commands).

- 3 way toggle switch for auto drain, MANUAL, OFF, AUTO (Manual opens drain, Auto uses timer for duration and cycle)

- 120/240 volt 50 amp panel with disconnect for compressor and another for 120 volt accessory.

- Supply necessary conductors, pneumatic tubing and connectors for installing pumping unit within 50' of bollard.

INSTALLATION

- Install bollard foundation in 30" x 40" excavation 50" deep, filled with concrete over 12" of drain rock.

- Install Pneumatic Pumping Unit (PPU) on 24" x 42" concrete pad (8" thick).

- Install 5' x 20' detector loop on each side of the bollard for safety hold down and up signal on loss of detection.

- Install Doorking Microplus receiver with to be mounted outside the PPU in raintight lockable box.

- Supply 120/240 30 amp with neutral and ground (Preferred) or single phase 120 volt 30 amp circuit.