1/8" MIN. THICKNESS GALVANIZED STEEL. INTERIOR SIDE DIMENSIONS 1/2" GREATER THAN POST DIMENSIONS.

NOTES:
1. Timber shall be douglas fir, dense construction grade, and shall be pressure treated.
2. Steel tube shall conform to ASTM A53 or ASTM A53 Grade A.
4. All steel parts shall be galvanized.

1/2" GALVANIZED EYE BOLT W/ WASHER AND NUT. RECESS NUT AND PEEN BOLT THREADS.

CLASS 3000 CONCRETE

500# MIN. TEST GALVANIZED CHAIN ANCHORED IN CONCRETE

ANCHOR WITH 6" x 3/8" STEEL ROD

PAINT TOP 5" WHITE

8" x 8" S4S x 5'-6"

3/4"

3/4"

2 1/2" 

3/16 MIN. DRAIN PIPE

REMovable BOLLARD

1" CHAMFER (4 SIDES)

1 1/2"

8" x 8" S4S x 4'-0"

3/4"

3/4"

2 1/2" 

3/16 MIN. DRAIN PIPE

FIXED BOLLARD

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

APPROVED FOR PUBLICATION

BOLLARD DETAILS

STANDARD PLAN NO. SU-12

CITY ENGINEER

DATE

12 JAN 2009

James Ray