**STAINLESS STEEL BOLLARD - REMOVABLE:**

**SECTION - A**

**SCALE: 1"=1'-0"**

- **5 1/2"**
- **3'-6"**
- **3"**
- **1'-4"**
- **8 3/4"**
- **215-336-2268**
- **MANUFACTURED BY CL CONSTRUCTION OR APPROVED EQUAL**

**NOTES**

1. **PIPE BOLLARD, TOP AND FLANGES TO BE STEEL. BOLLARD SHAFT 16" BELOW GRADE.**
2. **IN-GROUND SLEEVE TO BE STAINLESS STEEL SET IN CONCRETE FOOTING 30" BELOW GRADE.**
3. **ALL PARTS WELDED AND GROUND SMOOTH.**

**BOLLARD - REMOVABLE: PLAN**

**SCALE: 1-1/2"=1'-0"**

- **IN-GROUND SLEEVE WITH BASE PLATE FINISHED GRADE**
- **5-1/2" DIA. STAINLESS STEEL BOLLARD FLAT PLATE WELDED TO BOTTOM OF PIPE BOLLARD**
- **1" DIA. x 1-1/4" PIN WITH 3/8" DIA. HOLE FOR PAD LOCK WELDED TO BOLLARD SLEEVE**

**BOLLARD - REMOVABLE: ISOMETRIC**

**SCALE: 1-1/2"=1'-0"**

- **6" AGGREGATE SUB-BASE**
- **3" x 6" STEEL TUBING WELDED TO UPPER PIPE SHAFT TO FIT IN GROUND SLEEVE**
- **STAINLESS STEEL SLEEVE FOR BOLLARD SET INTO CONCRETE FOOTING**
- **LOCK FLANGE**
- **PADLOCK 1" DIA. x 1-1/4" PIN WITH 3/8" DIA. HOLE FOR PAD LOCK WELDED TO BOLLARD**

**BOLLARD - REMOVABLE: SECTION - B**

**SCALE: 1-1/2"=1'-0"**

- **FINISH GRADE IN-GROUND SLEEVE WITH BASE PLATE**
- **STEEL BOLLARD FLAT PLATE FLANGE WELDED TO BOTTOM OF PIPE BOLLARD TO FIT IN GROUND SLEEVE**
- **PADLOCK LOCK FLANGE**
- **3" x 6" STEEL TUBING WELDED TO UPPER PIPE SHAFT TO FIT IN GROUND SLEEVE**
- **FLAT PLATE WELDED TO BOTTOM OF PIPE BOLLARD TO SET FLAT ON BASE PLATE**

**BOLLARD - REMOVABLE: SECTION - A**

**SCALE: 1"=1'-0"**

- **5 1/2" PROVIDE CONVEX TOP**
- **3" STEEL BOLLARD**
- **8 3/4" FLAT PLATE FLANGE WELDED TO BOTTOM OF PIPE BOLLARD TO SET FLAT ON BASE PLATE**
- **FINISH GRADE**
- **1" DIA. x 1-1/4" PIN WITH 3/8" DIA. HOLE FOR PAD LOCK WELDED TO BOLLARD SLEEVE**
- **3" x 6" STEEL TUBING WELDED TO UPPER PIPE SHAFT TO FIT IN GROUND SLEEVE**

Prior to construction, confirm layout, dimensions, adjacent utilities and final materials with U of P Office of the University Architect. This detail to be used as a guide only. Specific revisions for site conditions and intent are the responsibility of the individual project designer.