

**EXTERIOR FEATURES**  
**ILLUSTRATION**

---

8.6

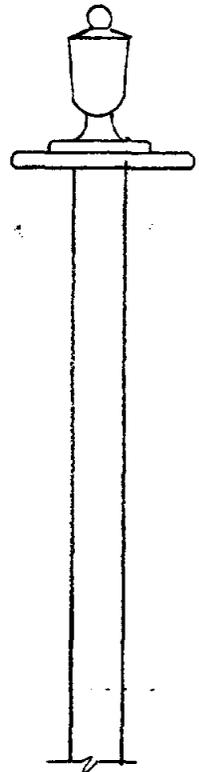
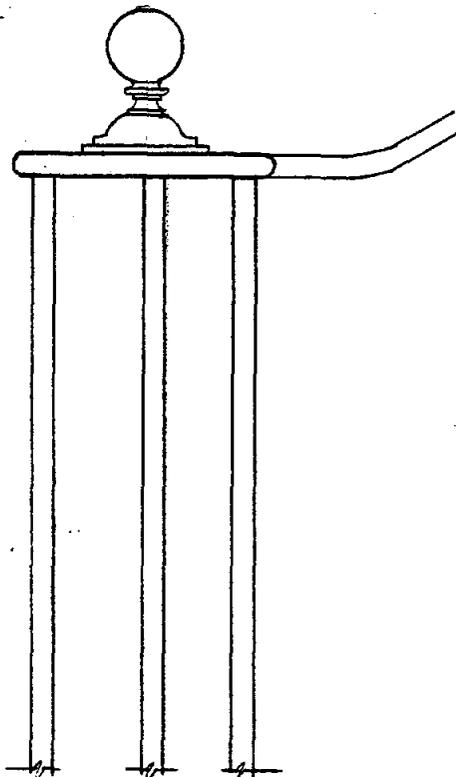
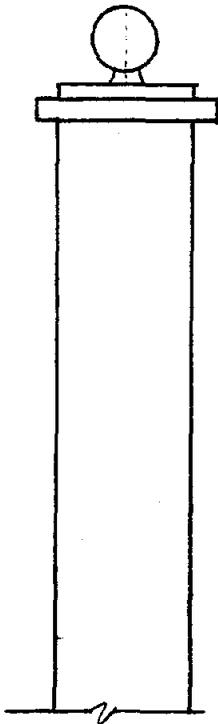
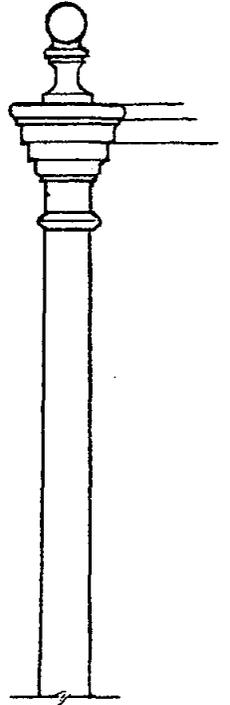
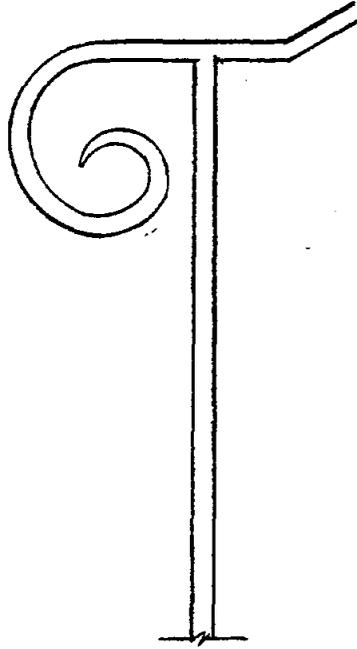
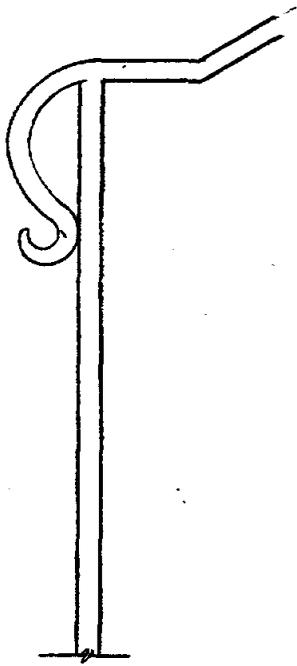
**METAL NEWELS**

**TOPIC:           EXTERIOR FEATURES**

**ELEMENT:       METAL NEWELS**

**1.   GENERAL**

- a.   The sketches opposite illustrate typical historical metal newels.   They should be maintained and preserved.
- b.   Replacement newels should follow the original design.



**METAL NEWELS**

# NOTES

**EXTERIOR FEATURES**  
**ILLUSTRATION**

---

8.7

**HOLLOW CYLINDRICAL COLUMNS**

**TOPIC: EXTERIOR FEATURES**

**ELEMENT: HOLLOW CYLINDRICAL COLUMNS**

**1. REPAIR**

- a. If water is running down column, clean and repair gutters and valleys above immediately.
- b. If small areas of wood are soft, repair and repaint. Read Articles on "Wood" and "Wood Columns".
- c. If paint is peeling off more than 20% of surface, moisture may be trapped in columns. Remove all paint layers. Repaint. Read Articles on "Wood Columns" and "Paint".

**2. MAINTENANCE**

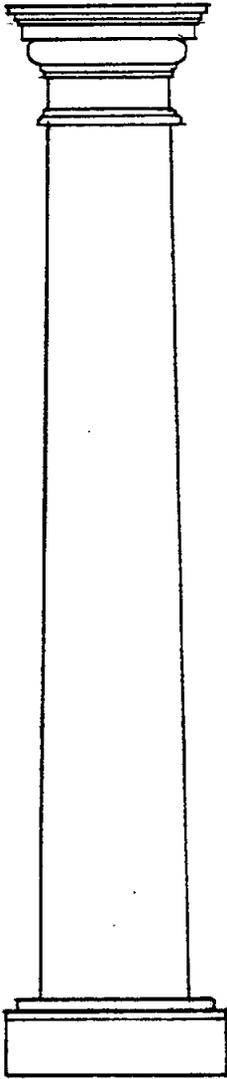
- a. Clean gutters fall and spring. Reflash if leaking.
- b. Caulk cracks in columns as they occur.
- c. Keep bases painted and smooth.

**3. UPGRADING**

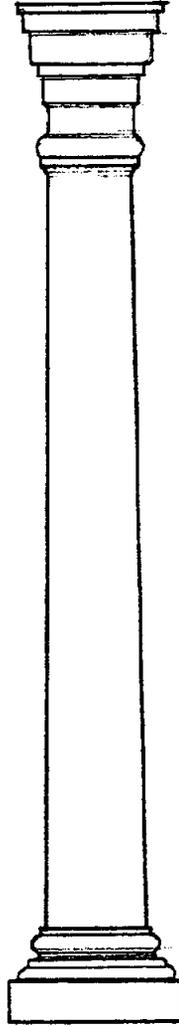
- a. Provide cast aluminum or cast fiberglass bases where wood bases are deteriorating.
- b. Vent all columns by drilling two 1" holes top and bottom, plug with screen vents.

**4. RELATED ARTICLES**

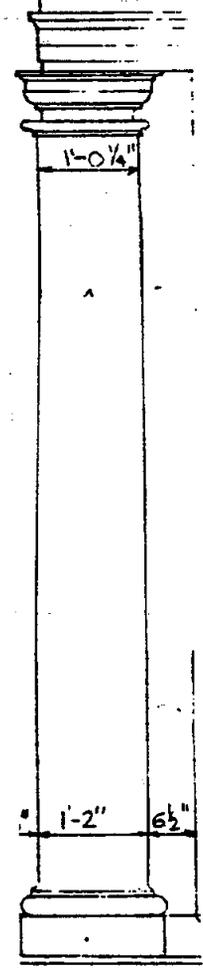
- a. 8.1 Wood Columns
- b. 4.1 Wood
- c. 4.5 Exterior Paint



A



B



C

**HOLLOW CYLINDRICAL COLUMNS**

# NOTES

**EXTERIOR FEATURES**  
**ILLUSTRATION**

---

8.8

**WROUGHT IRON POST**

**TOPIC: EXTERIOR FEATURES**  
**ELEMENT: WROUGHT IRON POST**

**1. REPAIR**

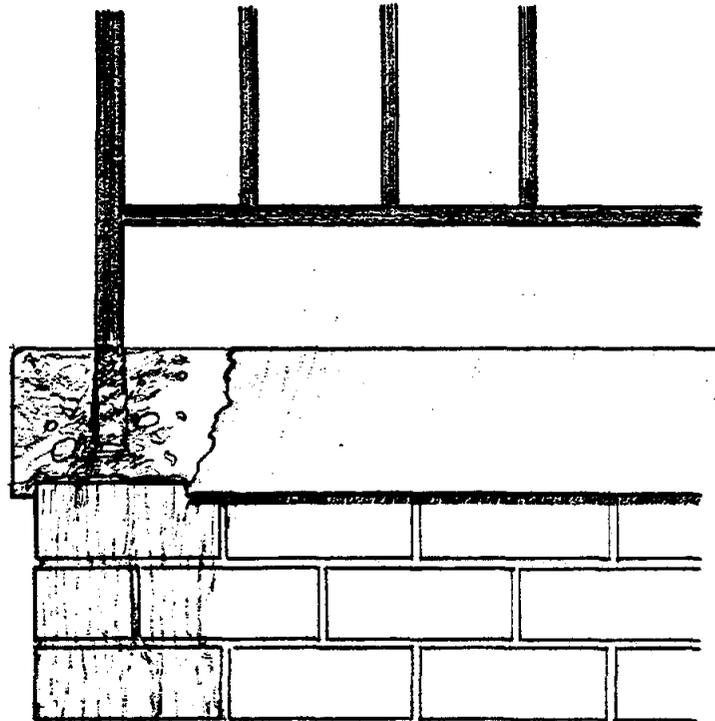
- a. **Removal**
  - Remove post, rusted base and spalled concrete completely.
  - Cut back damaged concrete a minimum diameter of 4" around base.
- b. **Replace Concrete**
  - Clean surfaces and wet or prime to receive concrete patching compound.
  - Insert and support temporary sleeve in void at location of base.
  - Fill void with concrete patching compound, crowned to slope away from metal.
- c. **Insert New Painted Newel Post**
  - Remove temporary sleeve when concrete is firm.
  - Insert post, bracing plumb and level.
- d. **Provide Lead Cushion**
  - Pour melted lead all around post.
  - Tamp down, add more lead to a height slightly higher than concrete patching compound.
- e. **Resecure railing to newel post. Paint welds immediately.**

**2. MAINTENANCE**

- a. **Remove moss monthly.**
- b. **Keep metal painted at all tiems.**
- c. **Keep bolts tight.**

**3. RELATED ARTICLES**

- a. 8.3 **Wrought Iron Railings.**
- b. 2.3 **Concrete**
- c. 4.5 **Exterior Paint**



**MOISTURE DAMAGED CONDITION**

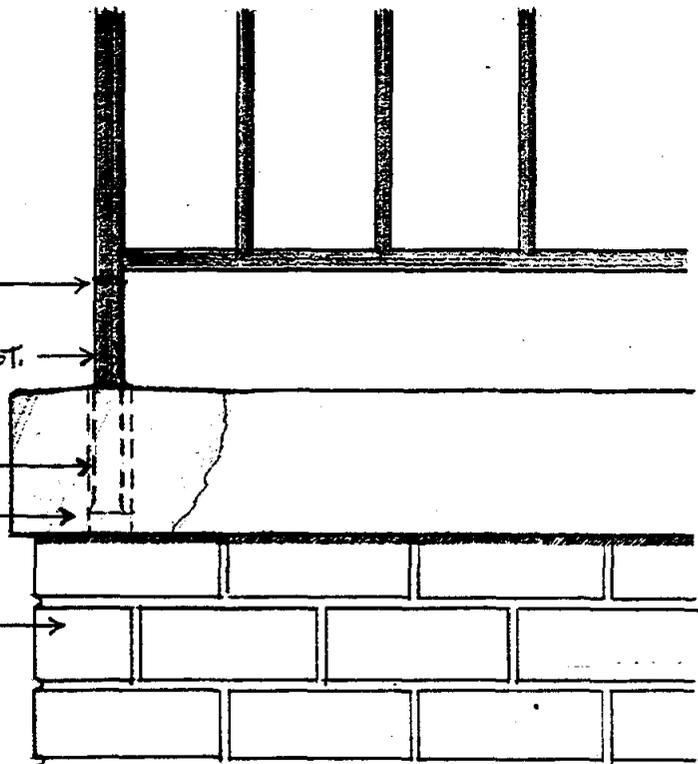
GRIND WELDS, PRIME & PAINT →

WELD NEW POST BASE TO EXIST. →

REMOVE SLEEVE AND FILL  
VOID WITH LEAD. →

PATCH →

REMOVE RUST STAINS →



**REPAIRED CONDITION**

**WROUGHT IRON POST**

# NOTES

**EXTERIOR FEATURES**  
**ILLUSTRATION**

---

8.9

**CAST IRON RAILINGS**

**TOPIC: EXTERIOR FEATURES**

**ELEMENT: CAST IRON RAILINGS**

**1. REPAIR**

- a. It is preferable to repair original cast iron by use of an experienced welder.
- b. Have replica parts cast of ferrous metal. Measure and photograph, or take original to foundry.
- c. Weld replacement replica parts to original, grinding welds smooth and painting immediately.
- d. Correct any connections or details which allow water to enter or stand.
- e. Removing original railings and replacing with pipe railing is discouraged.

**2. MAINTENANCE**

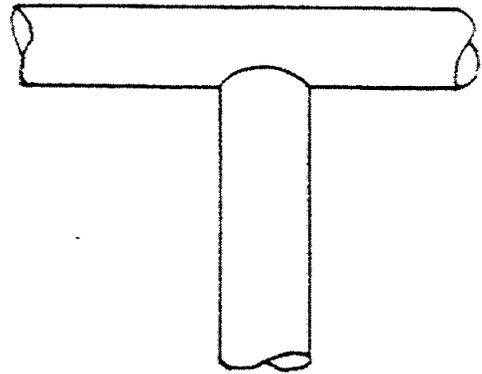
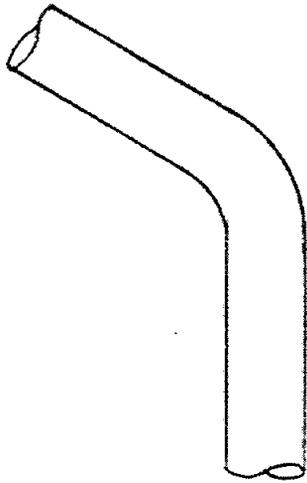
- a. Keep moss off of iron.
- b. Keep metal painted at all times.
- c. Keep bolts tight, replacing those showing rust.

**3. UPGRADING**

- a. Preferred  
Replace out of character metal railings with railings, connectors, terminals and newels cast to replicate original.
- b. Alternate  
Maintain existing.
- c. Unacceptable  
Use of light gauge wrought iron or aluminum residential railings is unacceptable on buildings originally using cast iron

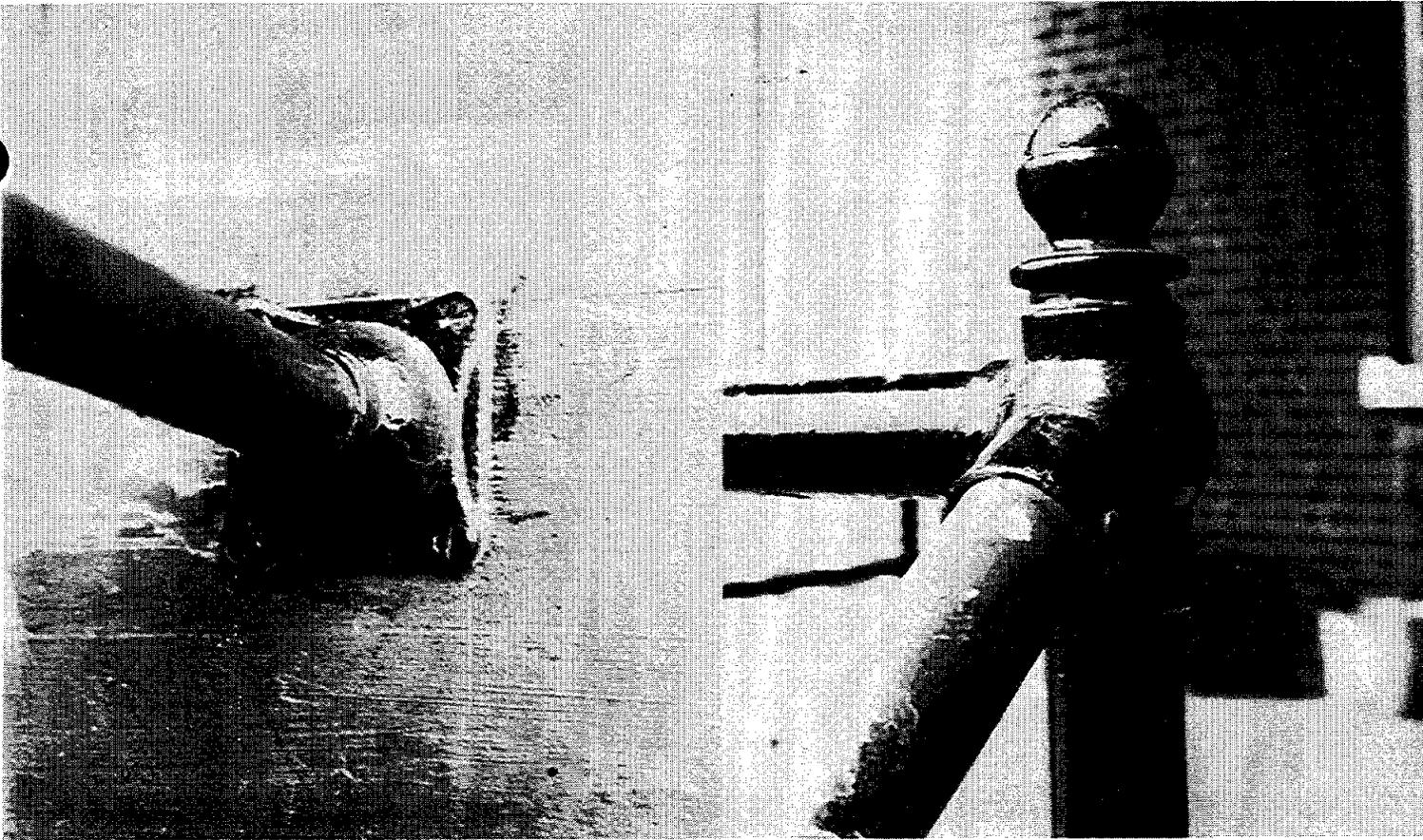
**4. RELATED ARTICLES**

- a. 8.2 Cast Iron Railings
- b. 4.5 Exterior Paint



---

**NON-HISTORIC REPLACEMENT RAILINGS**



---

**MODEL RAILING CONNECTION TYPES**

**CAST IRON RAILINGS**

# NOTES