

SECTION 32 31 19 _ Decorative Metal Fences and Gates: Post and Chain Fencing, UD Vehicular Gates

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PART 1 – GENERAL

Information in this Section is to be followed unless otherwise directed by University of Delaware (UD) Owner Representative and UD Grounds Representative (Assistant Director of Grounds or Landscape Planner). UD Logo to be used only with prior approval from the University of Delaware Office of Communications and Marketing.

1.1 SUMMARY

- A. This section contains information about UD’s Post & Chain fencing, and the UD Vehicular Gates with Logo.

1.3 DESIGN REQUIREMENTS

A. *Post and Chain Fencing*

- 1. Fencing is used throughout campus to direct vehicular and pedestrian traffic, and to protect turf, green spaces and paved areas from damage.
- 2. Fencing should be installed in a manner consistent to the surrounding context, architecture and that permits usability without being intrusive.
- 3. Materials
 - a. Post:
 - 5’ to 5’-2” (2” O.D.) black vinyl coated schedule 40 with acorn cap and eyebolt (see attached detail).
 - Installed Height should be 44.5” (maximum) from top of grade to top of Acorn Cap.
 - b. Chain:
 - ¼” black poly coated.
 - single or double row, TBD as per project.
 - c. Sleeves:
 - 18” x 2” ID schedule PVC sections.
 - Color: Black
 - d. Corner Post:
 - To be used when longer length of chain sections might bend the regular post.
 - Schedule 40 pipe painted black with cap and eyebolt (see attached detail). Height same as post.
 - e. Corner Post Sleeve:
 - 18” x 4” ID schedule PVC sections.
 - Color: Black
 - f. Eyebolt:
 - 2 ½” x 3/8” eyebolt with nut (1.5” ring)
 - Painted black.

- g. Cap:
 - o black vinyl coated corn cap.

4. Installation:

Fencing is typically installed in the soldier course of pedestrian paths and should never be installed in turf without a paver pad to ease mowing and trimming maintenance. Paver pads should connect to adjacent paving, curbing, etc. Exact configuration of fencing with pavers should be determined on a project by project basis.

- a. Sleeves are to be used to facilitate frequent removal and replacement of fencing, especially for special events.
- b. Sleeves should be installed in concrete; poured such that the concrete will not be seen at grade and will be sloped to drain water away from post.
- c. When installed with pavers, the sleeve and post shall be set; centered in an 8x8" cored paver matching the surrounding soldier course. The top of sleeve shall be flush with the top of the pavers.
- d. Paver pads will be installed at base of poles when installed in turf, same installation as above.
- e. The chain should be hooked through each eye with a minimum droop between posts. A second eyebolt and chain, mounted 6" below primary, may be utilized in certain situations. Posts shall be set 10' O.C., except when site conditions require otherwise.

B. UD Vehicular Gates

1. Gates should be installed in combination with Bollards, as needed, to ensure that vehicular access around the outside of the gates is prevented when gates are closed.
2. Padlocks, with chain and hinge, are to be provided by the project. Project shall provide all misc. fasteners to secure padlock and pins to each gate.
3. Gate Hinge: Padlock with chain and cable is to be tec-screwed to hinge so it cannot be removed.
4. Material: metal, painted black
5. Logo: modified version of Circle UD logo/mark (**obtain correct vector logo art from the University of Delaware Office of Communication and Marketing (OCM)**). **Final approval of gate mockup must be approved by OCM for consistency and correct use of logo/mark.**

PART 2 – PRODUCTS

2.1 Post and Chain Fencing Manufacturer:

Guardian Fence Company

4783 Summit Bridge Road

Middletown, DE 19709

T: 302-449-5006

Fax: 302-449-5306

www.guardian-fence.com

2.2 UD Vehicular Gates Manufacturer:

A & H Metals, Inc.

249 E. Chestnut Hill Road

Newark, DE 19713

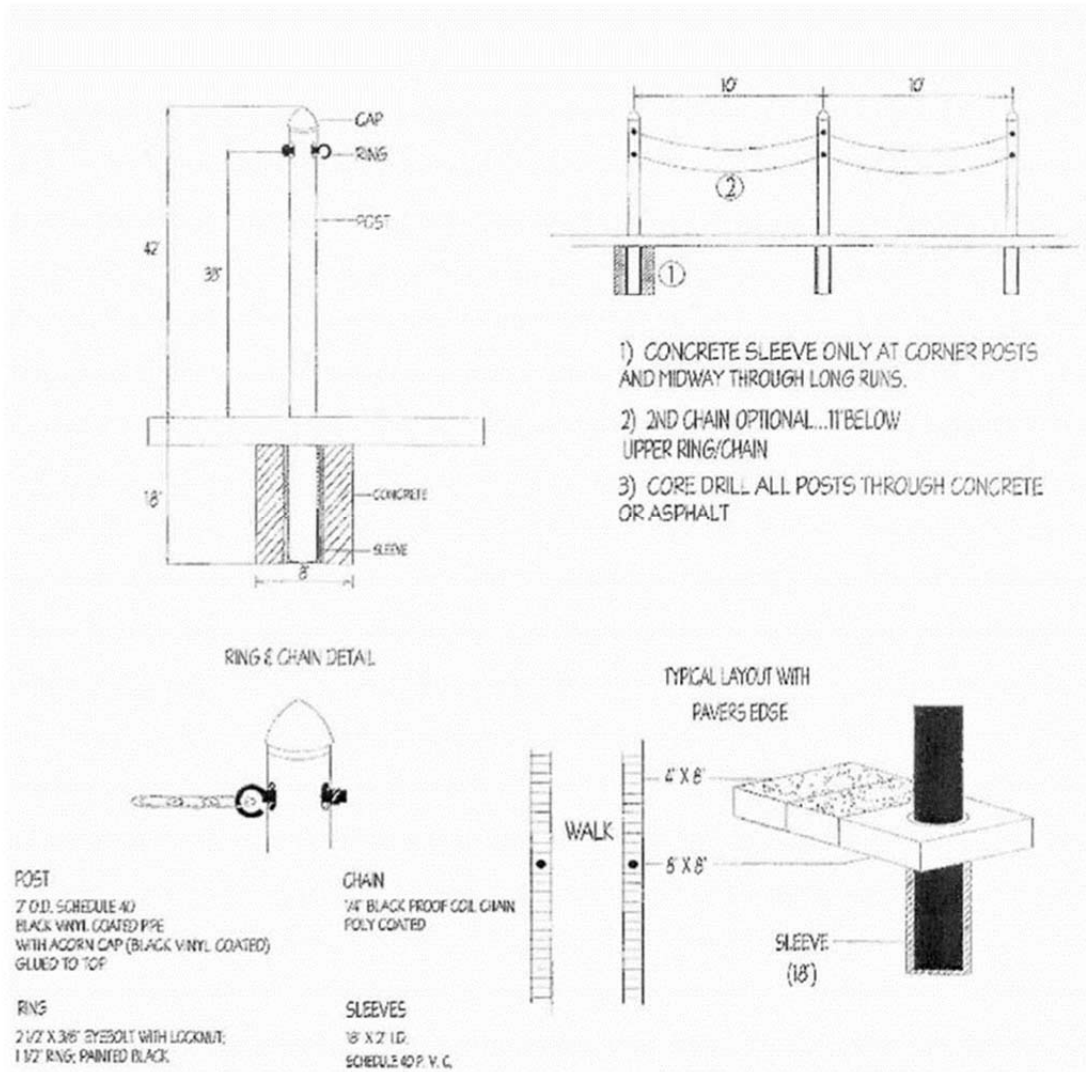
T: 302-366-7540

Fax: 302-368-5534

PART 3 – EXECUTION (no content)

PART 4 - ATTACHMENTS

4.1 Post & Chain Fence Detail



4.2 Post & Chain Fence Images

A. Black Vinyl-Coated Acorn Cap



B. Pole inserted into concrete sleeve, in 8" x 8" cored paver, within soldier course.



- C. **Single Strand Post & Chain – Installed within paver soldier course.**
Location: The Green



- D. **Post & Chain Installed in turf with paver pad, set flush with adjacent grade to ease mowing.**
Location: Penny Hall



4.3 UD Vehicular Gate Images

A. UD Gates installed in paved Pedestrian Walk/Fire Lane. Location: ISEB



B. Padlock with Chain and Cable



END OF SECTION