



HANDRAIL INSTALLATION

1 1/2" STANDARD PIPE FOR RAILS
 1 1/2" EXTRA STRONG PIPE FOR POSTS

PICKETS OPENING MUST NOT PASS 4" DIAMETER SPHERE.

STAIR GUARD OPENINGS MUST NOT PASS 2" DIAMETER SPHERE.

1/2" DIA. SOLID STEEL SMOOTH ROUND ROD (TYP.) OR 1" STANDARD PIPE

4 1/2" O.C. TYP.

12" MIN.

3'-0"

12" MIN.

SIDEWALK
 CURB CUT OR CURB & GUTTER, PER JOB APPLICATION

EXPANSION JOINTS

A

HANDRAIL INSTALLATION ON STEPS

A = WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER

NOTES:

1. This handrail is to be used only as a protection for pedestrians and should not be placed in any location where it might be subject to vehicular impact. For vehicular protection standard guardrail should also be used.
2. Handrail to be in accordance with the latest codes as set forth in the North Carolina Building Code and the N.C. Accessibility Code.

Details Provided by APPIAN Consulting Engineers - www.appianengineers.com



Dept. of Public Works
 101 City Hall Plaza
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CITY OF DURHAM, NC
 USE WITH THE STANDARD SPECIFICATIONS ONLY

Voice (919) 560-4326
 www.durhamnc.gov

STANDARD CONCRETE STEPS (FOR 2:1 SLOPES)

SCALE: Not to Scale	DETAIL# 409.01
REVISION DATE: 06/2017	SHEET# 2 of 3