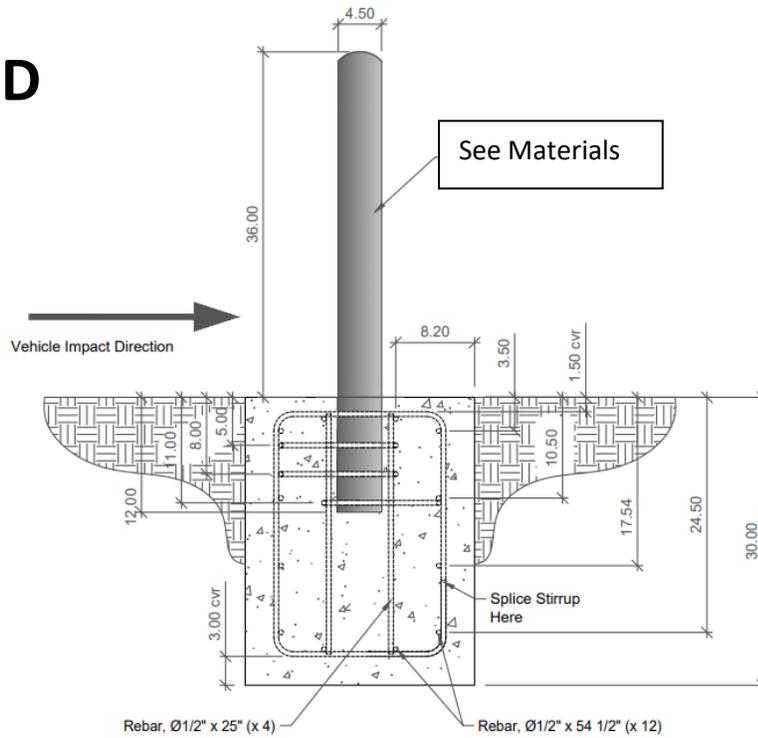


BOLLARD



REQUIREMENTS		RESIDENTIAL	COMMERCIAL
Architectural Plan		Show location and manufacturer model #	Yes
Structural Plans		Not required unless engineered. Hardcopy of manufactural specifications and installation instructions required for inspection.	Yes
Structural Calculations		No	Yes
Bollards	Materials	Options: 1. Listed and certified pre-manufactured bollards 2. Min. 9 gauge heavy duty steel 3. Steel pipe with concrete filled	
	Diameter	4"	5.5"
	Spacing	Not more than 4' on center	--
INSTALLATION OPTIONS			
Option 1	Mounting Plate	8" x 8" mounting plate	Not Permitted
Option 2	Dimensions	12" x 12" x 18"	16" x 16" x 36"
	Rebars	Options: 1. Min. 2 #4 top and bottom 2. Per manufacturer installation instructions	Options: 1. Per engineered designed 2. Per manufacturer installation instructions