

Curbing

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Issue Overview Curbs come in a range of materials (usually bituminous concrete or granite) and shapes (vertical, sloped or rolled). Municipalities generally require granite curbing around catch basins, at intersections and sharp curves, and along steeply sloped roads. Municipalities often vary the curbing requirements along roads based on the density of settlement and the types of uses along the roads.

Research Coding Researcher selected the curbing requirement listed for the road type selected for the question on typical subdivision roads. When the regulations state that the curbing can be either granite or bituminous, the researcher selected bituminous for the answer. Researcher disregarded the requirement for granite curbing at intersections and catch basins, as this was standard practice. Requirements for “cape cod berms” – rolled curbs – were coded as “bituminous.” Most of the regulations specified a curb type to be selected when curbing is installed, but this requirement does not by itself indicate whether curbing is usually required for subdivision roads; in some cases, there is a type listed when curbs are rarely required. Some municipalities list that pre-cast concrete curbing is required – these are coded as requiring granite, since pre-cast concrete is more expensive than bituminous concrete.

Abington *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite According to the Rules and Regulations Governing the Subdivision of Land in the Town of Abington, Section IV(B)(8), "[e]ach and every street proposed to be built shall be required to have straight-faced granite curbing, (See Exhibit "D"), on both sides of the street for its entire length including all radii regardless of grades."

Acton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Acton Subdivision Rules and Regulations

SECTION 9 IMPROVEMENTS
9.5 CURBS

9.5.1 A continuous, low-profile, modified Cape Cod berm shall be provided as an integral part of all new STREETS. The BOARD may require alternate curb materials depending on local conditions and the location and purpose of the curb.

9.5.2 Sloped granite curbs, type SA as defined in section M9.04.2 of the Mass. Standard Specifications for Highways and Bridges shall be required as follows: at intersections with existing STREETS and at intersections within the SUBDIVISION for the distance of the arcs of the intersection radii plus a straight section at each end of the arc at least eight (8) feet in length; surrounding any islands or chokers within the STREET including landscaped islands in loop turnarounds of CUL-DE-SAC STREETS; throughout the T shape turnaround of a CUL-DE-SAC STREET except for the straight curb line on the right side.

9.5.3 Curb radii at intersections and in turnarounds shall be sufficiently large to allow for the turning of SU-30 design vehicles (typical size of fire engines and school buses). In determining the adequacy of a radius it shall be assumed that on LOCAL STREETS the entire pavement width is available for turns, whereas in COLLECTOR and ARTERIAL STREETS a turn shall be possible without obstructing oncoming traffic. Generally, curb radii in residential LOCAL STREETS shall not be larger than necessary to accommodate SU-30 vehicles in order to avoid

excess pavement and excess crossing distances for pedestrians. In non-residential LOCAL STREETS and in COLLECTOR or ARTERIAL STREETS, where regular large truck (WB-50 design vehicle) traffic can be expected, the BOARD may require curb radii to accommodate WB-50 vehicles. In intersections and turnarounds, curb radii may be dimensioned independently from any required sideline radii.

Amesbury *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite "G. Curbing
Curbing shall be required to be installed on all streets. Curbing shall be constructed of granite. Slanted curbing shall be provided on sidewalks at pedestrian crosswalks and all crosswalks shall be wheelchair accessible. Curbing shall be sealed to the road pavement."

- Amesbury Subdivision Rules and Regulations March 5, 2002. 7.09.G. Curbing

Andover *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite According to Code of the Town of Andover, Part II, Article XIII, Section VII(P)(1)(as amended 2003),
"Vertical granite curbing (Type VB) shall be installed along all sidewalks. [Amended 3-26-2001]."

Ashland *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Rules & Regulations Governing the Subdivision of Land in the Town of Ashland, Section 344.21(A):
"Granite curbing and edging (Approved on April 26, 2001)
Type VA 4 (Massachusetts Department of Highways Standard Specification for Highways and Bridges) vertical granite curbing shall be installed as follows:
on both sides of arterial and collector streets;
for arterial, rail transit collector, minor, and lane classification streets, for the full radius, plus at least six (6) feet on each end at all street intersections;
slant granite for minor and lane classification streets.
Said granite curbing shall be continued from the end of the minimum grade slope granite to the location of the next set of catch basins on the downhill side of such grade. (Approved on April 26, 2001)."

Attleboro *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Rules and Regulations Governing the Subdivision of Land City of Attleboro SECTION VII: REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION
§7.4 ROAD CONSTRUCTION:

d. Berm: A bituminous concrete molded berm shall adjoin the edge of the street pavement along the entire length of the street except in those areas where §7.4(F) GRANITE CURB AND INLETS applies in which case said provisions shall prevail. Said molded berm shall conform to the design and construction specifications of the Department of Public Works.
e. Granite Curb: Granite curbing, including transition curbing, shall be installed at the edge of pavement, for the length of curves, at street intersections. Handicap ramps shall be provided.

f. Granite Curb and Inlets: Granite curb inlets, including transition curbing, shall conform to the specifications of the Department of Public Works.

[Rules and Regulations Governing the Subdivision of Land City of Attleboro - July 2001]

Auburn *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous "VI.G.5. Curbing
a. Except as hereinafter provided, a bituminous concrete curb shall be placed at each edge of the traveled way. The machine-made bituminous concrete berm shall be six (6) inches high from the surface of the finished roadway and of the shape specified in the typical road section. A tack coat of emulsion shall be applied to the road surface before the installation of the berm. The construction of the bituminous concrete berm shall be in conformance with the 1988 Edition of the MDPW Standard Specifications, as amended or updated." (revised 11/11/95)

- Rules and Regulations governing the Subdivision of Land in the Town of Auburn

Avon *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Avon RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, 5.B.8 (Received 7/7/97, Up-to-date 3/15/01)

Each and every street proposed to be built shall be required to have granite curbing, (see Exhibit "D"), on both sides of the street for its entire length including all radii regardless of grades.

Ayer *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous " 7. Delineation of Drives, Island and Street Radii

1) Delineation of drives, islands and street radii are required, by either curb or a bituminous berm to match existing edging, if any, and shall be installed according to the prevailing construction standards. The edging shall extend onto the applicant's property to that point where the radii becomes tangent and the required square width is defined."
- - Rules and Regulations Governing the Subdivision of Land, February 1966. Section IV.7

AND:

"G. Curbing

1. Curbing shall be installed at street intersections along the circumference of the roadway for the full length of the rounded curve plus a straight section at each end at least six feet long.

2. Curbing required hereunder shall be standard granite VA3 or VA4 Massachusetts DPW standard specifications ."

- Rules and Regulations Governing the Subdivision of Land, February 1966. Section V.G (Required Improvements)

Bedford *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous*

concrete or granite)

Granite

Town of Bedford Rules and Regulations Governing the Subdivision of Land, Section 6.2.8 (Revised 1990)

6.2.8 Curbing. Vertical cut granite curbs shall be installed on both sides of ways in conformity with specifications of the Department of Public Works. Granite curb inlets shall be installed at each catch basin located along a granite curb line.

Bellingham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

4562. Requirements where a sidewalk is present.

The following shall apply on any side of the layout where the street grade is three or more feet above the grade outside the retaining wall and there is to be a sidewalk on that side of the layout.

(A) To safeguard against pedestrians falling over the wall, a pedestrian guard rail shall be provided above the wall. The rail shall meet the standards of the State Building Code 780 CMR 1021 and have a height of at least 42" above the finished grade on the street side of the wall.

(B) To reduce likelihood of autos intruding into the sidewalk area, a Type 2 Bituminous Concrete Curb with six (6) inch vertical reveal shall be installed in place of the Cape Cod berm required at Section 427. Vertical precast concrete or vertical granite may be allowed if proposed by the developer and approved by the Board.

(C) To safeguard against autos travelling across the sidewalk area and over the wall, a guard rail shall be located between the street and the sidewalk. That rail shall be Massachusetts Highway Department Standard Steel Beam Highway Guard Type SS with steel posts with proper terminal construction. A safety equivalent to that rail type may be approved by the Planning Board following consultation with the DPW.

Bellingham Subdivision Rules and Regulations (effective on and after March 7, 1990)

Berkley

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

STREET DESIGN AND CONSTRUCTION STANDARDS Table

Minor and Secondary/Local	Cape Cod berm
Major	Granite

Information from:

RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, Ordinance for Town of Berkley, MA (Subdivision 4/6/00 current 4/6/01) at: ordinance.com

Berlin

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Berlin, SUBDIVISION RULES AND REGULATIONS
SECTION V. REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVIDER

E. Sidewalks

"The sidewalk shall be constructed with a shaped granite curbing or upright granite curbing as approved by the Commissioner of Public Works."

F. Curbs and Gutters

1. Unless otherwise specified by the Planning Board, curbs and cutters shall be provided:

a. at intersections along the roadway the distance of the arcs of the curves plus a straight section of each end of eight feet (8')

b. Along each edge of a roadway where the grade exceeds five percent (5%) and on the inner side of all curves with a radius of less than two hundred and fifty feet (250').

Installation to be in accord with Data Sheet SJ-500 or SJ-600 included in Land Bulletin #3, Federal Housing Administration, Boston, Massachusetts (Appendix E) or integral rolled curb and gutter in accord with the specifications of the Superintendent of Street.

2. Unless otherwise specified by the Planning Board, gutters shall be provided along each edge of the roadway where the grade exceeds three percent (3%) but is less than five percent (5%). Installation shall be in accord with the specifications of the Superintendent of Streets.

[Town of Berlin, SUBDIVISION RULES AND REGULATIONS - 2001] rules obtained from: ordinance.com

Beverly

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

According Rules and Regulations Governing the Subdivision of Land in the City of Beverly, Section V(E), "Straight face granite curbs of six inches (6") in height shall be provided along each side of the roadway."

Billerica

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

The Town of Billerica, Subdivision Rules and Regulations, Section 7(e), Adopted 1996.

"E. CURBING

(1) Curbing is required on both side of all streets. Vertical granite curbing shall be provide at all return radii and around cul-de-sacs and for a minimum of twenty (20) feet beyond the end of such curbs and shall begin and end at the same station on both sides of the road. Catch basin inlets stones shall have granite transition pieces at least 4 feet long at each end. All granite curbing shall end with transition pieces. At all other locations bituminous Cape Cod berm of cross section, shown in figure 2, may be provided instead of vertical granite. Paving and base construction shall be extended in the full twelve (12) inch under bituminous concrete curbing. Straight ended granite curb inlet stones shall be used in all instances. If the center line profile of a roadway exceeds a 6% slope then all adjacent curb shall be vertical granite. Granite curb shall have cross sections approximately as described below: [Amended, effective 2/21/01]

Granite: 6 INCH minimum width at top;
4.INCH minimum at bottom;
17.INCH minimum depth.
6.FEET minimum length

Curbing shall be set on at least six (6) inches of compacted bank gravel and in accordance with the cross section shown in figure 2. Granite curbing to be set on curves with radii of 100 feet or less, cut to the required curvature and except for making closures shall be of minimum length as follows:

Radius Minimum Length
50.to 100 feet 6 feet
25.to 49 feet 4 feet 6 inches less than 25 feet 3 feet"

Blackstone

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Section 191-10, Streets.
G. Curbs. Vertical curbing type VA4 (Massachusetts Department of Public Works Specification M9.04.1) shall be installed on both sides of all roads in accordance with the specifications of the Massachusetts Department of Public Works (Section 501), with a seven-inch reveal. Curb inlets shall be provided at all catchbasins, and corner radii at all curb cuts. Curbing set on a radius of one hundred sixty (160) feet or less shall

be cut to the curve required. At street intersections, curbing shall be constructed to provide wheelchair access to each sidewalk from the roadway.

RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, Town of Blackstone, MA (Adopted 1987, Subdivisions last amended 5/2/96) at: www.ordinance.com

Bolton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous SECTION 6000 CONSTRUCTION SPECIFICATIONS

6260. Street Construction Specifications

6267. Curbing.

Curbing is required on both sides of major, secondary and minor streets and shall be as follows:

- (a) Bituminous concrete curb (type 2) or sloped granite edge per MDPW standards.
 - (b) All curves having a radius of 60 feet or less at the street line shall have the gutter line curbed with vertical granite curbing cut to fit the curve.
 - (c) Rolled bituminous berm, to be used only at driveway entrances.
 - (d) Granite curb inlets shall be provided at all catch basins.
 - (e) Curb transitions for handicap ramps are required at street intersections.
 - (f) Lanes do not require curbs, however the gravel sub-base on lanes shall extend a minimum of 12 inches beyond the edge of the pavement for a firm road shoulder.
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Boxborough *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous

8. Curbing is required on both sides of all streets. Granite or 5,000 pounds per square inch precast concrete curbs shall be required where in the opinion of the Planning Board, such curbs are necessary to prevent erosion and to control water run off. Sloped granite curbing shall be required at all cul-de-sac turnarounds and at intersections with collector or local streets. In all other instances bituminous lip curbing of cross section shown in Figure 5 may be provided instead of concrete or granite roadway paving and base construction shall be extended the full 12" under bituminous concrete curbing. Straight ended granite curb inlet stones shall be used in all instances and shall conform to material specification M9.04.5, Standard Specifications. Granite and concrete curb shall have cross sections approximately as described below:
Granite: 6" minimum width at top; 4" minimum at bottom and 17" minimum depth
Concrete: 6" minimum width at top; 7" minimum at bottom and 24" minimum depth
Curbing shall be set on at least 6" of compacted bank gravel and in accordance with the cross section shown in Figure 5, and shall otherwise comply in all respects with materials and construction methods specifications contained in Section 501, Standard Specifications.

Town of Boxborough Planning Board: Rules and Regulations Regarding the Subdivision of Land
(Adopted 1954, Amended 2000)

Boxford *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite

Rules and Regulations Governing the Subdivision of Land in the Town of Boxford, Article V, Section 300-29:

"Curbs.

A. Granite curbing. The board may specify that battered granite curbs with a five-inch face set in concrete with the dimensions given for granite curb (Section M9.04.1) Type VB4 in the Standard Specifications be provided in the following locations and be installed in accordance with the construction methods outlined under Section 501, CURB, CURB INLETS, CURB CORNERS AND EDGING, of the Standard

Specifications.

(1) Intersections - subdivisions. Granite curbing shall be provided at intersections along the paving edge the distance of arcs of the curves plus a straight section at each end of six feet, in accordance with the approved plan.

(2) Intersections - major roads. Granite curbing shall be provided at intersections where the Planning Board or its agents deem it necessary.

(3) Traffic islands and medians. Granite curbing shall be provided at raised traffic islands and medians.

B. Bituminous concrete berm. Where required to control surface runoff and granite curbing has not been required, the Board may require the edges of all minor and major streets to be provided with a bituminous concrete berm. Bituminous concrete berms shall be constructed in conformance with the dimensions and at the locations shown on the plans. Bituminous concrete berms shall be constructed monolithically in conjunction with top course paving operations, by means of an approved attachment to the paving machine, designed specifically for that purpose. Upon formation, bituminous concrete berms shall be hand rolled for compaction. Bituminous concrete berms formed by extrusion machines will not be approved or accepted. The bituminous concrete berm shall be constructed in accordance with the approved plan and in accordance with the requirements of Section 500, CURB AND EDGING, of the Standard Specifications.

The researcher chose granite rather than bituminous concrete because the granite applies to curbs while bituminous concrete applies to berms."

Boylston

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

TOWN OF BOYLSTON RULES & REGULATIONS GOVERNING THE SUBDIVISION OF LAND, 2004

SECTION VII - REQUIRED IMPROVEMENTS & CONSTRUCTION PROCEDURES FOR AN APPROVED SUBDIVISION
7.6.0 SIDEWALKS

The contractor may install a machine formed bituminous concrete curb, cross section to be approved by the Planning Board Agent in place of berm, if desired.

Braintree

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

5. Aprons - Driveways

Driveways shall be constructed in the same manner as sidewalks with three inches of bituminous concrete after compaction. The slope shall be two inches in a distance of five feet from the property line toward the gutter. In no case shall the surface be laid until the sub-base shall have been inspected and approved by the Town Engineer or his designate. Curbs shall be installed in accordance with the following minimum requirements and the construction specifications enumerated herein. Curbing shall be installed in accordance with the construction standards put forth in "Standard Specifications for Highways and Bridges" as amended. The profile of the curb is subject to Planning Board approval. The construction methods and material specifications shall conform to "Standard Specifications for Highways and Bridges" as amended. "Type VA granite curbs as specified in "Standard Specifications for Highways and Bridges" as amended shall be required on both sides of all roadways." (Recorded May 12, 1978.) Type VA-4 granite curbs as specified in "Standard Specifications for Highways and Bridges" as amended shall be required under the following conditions:

- a. all finished grades over 5%;
- b. all headers for catch basins (throat stones are not allowed);
- c. all street intersections on the curve and extending six feet beyond the tangent points; and
- d. on all inside curves wherever the interior angle is less than 140 degrees.

Peter Lappola, Director of Planning and Conservation, said that the requirement is granite. Vertical granite. (7/6/04)

Bridgewater

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Section V.B.8 CURBING

Each and every street proposed to be built shall be required to have slope-faced granite curbing, (see Exhibit "D"), on both sides of the street for its entire length including all radii regardless of grades. In subdivisions, where no building permit has been issued and the lot in question is vacant, curbing is to be installed without driveway opening(s).

Bridgewater Rules and Regulations Governing the Subdivision of Land (ordinance.com)

Brockton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

The Land Use Ordinance of Brockton (City)
PLYMOUTH COUNTY, MASSACHUSETTS

RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND
SECTION V REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION

C. Curbs and Sidewalks

In a Residential Subdivision the sidewalk layout shall be eight (8) feet in width and as follows: Five (5) foot bituminous concrete two (2) inches thick put down in two (2) layers of one (1) inch thickness with a three (3) foot variable width grass strip on the curb side with straight faced type VB GRANITE curbing. Top of curb shall be two (2) inches above the crown of the road.(1) See Addendum "A".

In a Commercial or Industrial Subdivision the sidewalk layout is to be ten (10) feet bituminous concrete in width with straight faced GRANITE curbing.

All handicap ramps must be constructed of concrete and must conform to ADA Specifications and Massachusetts State Standard Specifications for Highways and Bridges.

Burlington

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

The subdivision regulations state that the Planning Board prefers granite or precast concrete curbing.

Town of Burlington Rules and Regulations Governing the Subdivision of Land in Burlington, MA Section 10.5 (Adopted 1988, Amended 2002)

10.5 Curbing

The Planning Board prefers the use of granite curbing throughout subdivisions. As a second alternative, the Planning Board prefers the use of precast concrete curbing. At a minimum, sloped granite curbs shall be required at all intersection points of ways. Curved vertical or sloped granite curbing shall be provided for all curb line radii of fifty (50) feet or less. Vertical granite curb inlets shall be provided at the back of all catch basins.

Where bituminous concrete curbing is provided, it shall be properly placed so as to provide smooth transition at locations where there is alignment with vertical granite curbing reveals. All curbing shall be installed and prepared in accordance with Massachusetts DPW "Standard Specification for Highways and Bridges, 1973 ed." and as amended.
Amended March 17, 1994

Canton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous

concrete or granite)

Granite

Rules and Regulations of the Canton Planning Board Governing the Subdivision of Land in the Town of Canton, Massachusetts, Section 3.4.5 (Adopted 1998)

3.4.5 Cross Sections

3.4.5.1 Roadway cross-sections shall be in accordance with the Typical Roadway Sections in Figures 3-1 through 3-3.

Figures 3-1 and 3-3 show vertical granite curbs.

Rules and Regulations of the Canton Planning Board Governing the Subdivision of Land in the Town of Canton, Massachusetts, Section 3.4.11 (Adopted 1998)

3.4.11 Curbing

3.4.11.1 Vertical granite curbing, Type VA4 (Subsection M.9.04) shall be required along both sides of all roadways.

Carlisle

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Carlisle Rules and Regulations Governing the Subdivision of Land, Article III, Section 5(B)(5) Curbing, if used, shall be sloped granite with a minimum thickness of six inches (6") and shall not be less than eighteen inches (18") plus or minus one inch (1") in depth, provided, however, vertical granite shall be used at street intersections where the radius is fifty feet (50') or less. Curbing shall not be used around the interior of the island of a Cul-de-Sac.

It is important to note the following: Section 2(C)(4)"Curbing is required on all roadways exceeding three percent (3%) grade, except where alternate means of flow and erosion control, acceptable to the Board, is provided."

Carver

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Rules and Regulations Governing the Subdivision of the Land, Town of Carver (Adopted 1981, Amended 1991)

5.00 Design and Construction Standards

5.05 Berms

1. In all subdivisions, curbing shall be installed along each edge of the roadway on all streets and be "Cape Cod" berm design.
 2. The bituminous concrete berms shall consist of Class I Bituminous Concrete, Type I-1, in accordance with the details of design as shown on the plans and in accordance with Section 470, Class I Bituminous Concrete Berms of the Massachusetts Standard Specifications for Highways and Bridges.
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Chelmsford

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

The Land Use Ordinance of Chelmsford
MIDDLESEX COUNTY, MASSACHUSETTS
Chapter 202 SUBDIVISION OF LAND

ARTICLE III Design Standards and Improvements

§ 202-21. Curbing and berets.

[Amended 7-8-1981; 9-28-1994]

In some subdivisions, the Board may require infiltration trenches (see the required cross section detail 14) along the edge of asphalt pavement for lanes, minor streets, collector streets and business streets. In all cases sloped granite curbing shall be required. All granite curbing, where required, shall be sloped granite curbing comparable to Massachusetts Department of Public Works Specification M9.04.2, Type SB. When used on a radius of 20 feet or less, curb shall be cut with radial joints. Workmanship and method of setting shall conform to the specifications of the Massachusetts Department of Public Works. Where curbing is not required, Class I bituminous concrete berms shall be placed in accordance with Massachusetts Department of Public Works Specification 470.

Chelsea *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite City of Chelsea, Rules Governing the Subdivision of Land, Section IV, Design Standards, Subsection (B).
E. Curbs and Berms

1. Straight face granite curbing of six inches (6") in height shall be installed in all subdivisions. Granite curb shall be type V A.4 or V.B (Subsection M 9.04). In no case shall curb sections be less than six feet in length.

a. Street curbing shall generally have a reveal of six inches (6") and no less than four inch (4") reveal at high points and nine inch (9") reveal at catch basins after installation of the top course of bituminous concrete roadway pavement.

b. Sloped granite curbing may be allowed on cul-de-sacs, intersection radii, and any other areas as may be determined by the Planning Board.

c. A six foot (6) granite curb inlet shall be installed at each catch basin.

Clinton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Clinton Subdivision Control Rules and Regulations (Adopted 1973)

5.3. Curb and Curb Inlet

Type v B (Massachusetts Department of Public Works specification) granite curbing shall be installed as follows: on both sides of Major and Collector Streets and for the full radius plus at least eight (8) feet on each end at all street intersections, wherever grade exceeds four (4) percent, and at catchbasins. Curbing set on a radius of one hundred and sixty (160) feet or less shall be cut to the curve required. Minor Streets shall have continuous bituminous curbing on both sides for their full length.

Cohasset *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Cohasset Subdivision Rules and Regulations, Section VI(J) (Last Amended 2001).

J. CURBING

1. Granite curbing shall be MDPW Type VA-4. Curbing shall be set on a 6" gravel borrow base compacted to 95% maximum density. Curbing shall be set and held in place with a 6" depth lift of portland cement concrete on both sides of the curb.

2. Bituminous concrete berms shall be constructed to the dimensions shown on the Definitive Plans and in accordance with the typical sections. Berms and surface paving course shall be monolithic.

Concord *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous*

concrete or granite)

Bituminous

According to the Concord Subdivision Rules and Regulations, Section 6.9 Curbing.

"As a minimum, a continuous, low-profile, modified Cape Cod berm shall be provided as an integral part of all new streets. On cul-de-sac turnarounds and at intersections with collector or local streets, sloped granite curbing shall be required. Vertical granite curb shall be required at the back of catch basins, on grades over five (5) per cent, and at intersections with arterial streets."

On survey received from Concord on 4/22/05, the answer is marked:

"Varies, bituminous or granite"

Danvers

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

According to the Planning Board Rules and Regulations Governing the Subdivision of Land in Danvers, Massachusetts, Section V(D)(9)(adopted 1979), "[c]urbing and/or berm is required as follows: a. Bituminous concrete "Cape Cod" berm shall be used on streets as shown in Appendix E-5 and in accordance with Appendix B-1 to B-7 inclusive." According to Appendix B-6, for local residential roads, 2 foot cape cod berms are required.

Dedham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

3.4.11 Curbing
a Vertical granite curbing, Type VA4, conforming to the requirements of the Dedham Department of Public Works Design and Construction Standards is required along both sides of all streets
b Vertical granite curb having a radius of less than 100 feet shall be cut to a true radius.
c All curb and edging shall be set to provide a 6 inch reveal.
d Granite curbing that connects to an existing street that does not have curb or that has curb of a different type or shape shall have a sawcut tapered end piece providing a smooth transition.
e Granite curb inlets or throatstones shall be provided at all catchbasins.

Dighton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Dighton Rules and Regulations Governing the Subdivision of Land

"4540. Curbing and Berms.

Bituminous concrete berms shall be installed on both sides of all roadways in conformity with the "typical roadway cross- section," appended hereto, except where waived by the Board where open drainage systems are being relied upon, and except at intersections with state-numbered highways or collector streets, where sloped granite curbing will be required."

Douglas *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Douglas Rules and Regulations Governing the Subdivision of Land (Adopted 1975, Amended 1998)

SECTION V: REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION
B. Curbs and Berms

In instances where the Planning Board so requires, curbs and berms shall be installed in accordance with the following minimum requirements and the construction specifications enumerated herein.

Curbing shall be installed in accordance with the construction standards put forth in Standard Specifications for Highways, Bridges and Waterways by the Massachusetts Department of Public Works. The use of bituminous concrete berms shall be discouraged and "Cape Cod" type berms encouraged where granite curbs are not required. However, whenever bituminous concrete berms are permitted they shall be installed on top of the binder course of the pavement.

Curbs and berms shall be installed as follows on:

1. Principal Streets

Type VA-4 granite curbs as specified in Specifications for Highways, Bridges and Waterways shall be required on both sides of all roadways.

2. Secondary Streets

Type VA-4 granite curbs as specified in Standard Specifications for Highways, Bridges and Waterway's as amended shall be required under the following conditions:

- a. All finished grades over 5%;
- b. All curb inlets for catch basins;
- c. All street intersections on the curve and extending 6 feet beyond the tangent points; and
- d. On all inside curves wherever the interior angle is less than 110 degrees.

3. Residential Streets

Cape Code type or bituminous concrete berms shall be required on all finished grades over 5%. Type VA-4 granite curbs as specified for secondary streets above shall be required on:

- a. All curb inlets for catch basins;
 - b. All street intersections on the curve and extending 6 feet beyond tangent points; and
 - c. On all inside curves wherever the interior angle is less than 110 degrees.
-

Dover *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous According to the Town of Dover Code, Part III, Chapter 248, Article VI, Section 248-19(G), the material for berms are as follows: "Berms. Bituminous berms shall be Cape Cod type in conformance with Standard Construction Details. (See Appendix A.)"

Dracut *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Dracut Rules and Regulations Governing the Subdivision of Land

Section V, D. CURBS

Granite curbing shall be installed on both sides of all roads in conformity with the "Typical Cross Section" of the Design and Construction Standards, Town of Dracut, latest edition.

Dunstable *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite "V.A.5. Curbing
Curbing is required on both sides of all streets. Granite curbs shall be required and shall have a 6" minimum width at the top; 4" minimum at bottom and have a minimum depth of 17". Curbing shall be set on at least 6" of compacted bank gravel and in accordance with the cross-section shown in Figure 2."

- "Rules and Regulations Governing Subdivision of Land in Dunstable, Massachusetts, Revised February 2003"

Duxbury *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Planning Director Christine Stickney (10/27/04) said that the town uses Cape Cod berm in general (which is referenced in the regulations) and granite at the radius.

East Bridgewater *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of East Bridgewater Subdivision Rules and Regulations, Section 4(b)(4), chart (Last Amended 2001).

The chart lists a 1.5' cape cod berm for local, minor and secondary streets.

Easton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Easton Subdivision Rules and Regulations, Section 5.08 Curbing:
1. Vertical granite curbing shall be used for all streets. Slope face granite edging shall be used for median strips and islands only."

Essex *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite 7/27/04: Phone conversation with Joanne Jacobson, Planning Board Secretary (978) 768-7663 -- She said that if it is a subdivision which will have a real street, then curbing is required and it will usually consist of granite.

Section 7: General Requirements and Design Standards For All Subdivision Plans
7.02 Streets and Ways

6. Curbing

Curbing shall be installed as required by the Board, and may consist of granite, Portland cement or other materials, depending upon factors of safety, convenience and cost.

Curbs and gutters will be required when they are necessary for the maintenance of the pavement and the prevention of pavement edge raveling.

Curb and gutter may be eliminated along certain roadways when drainage is provided in swales which are designed to reduce the rate of run-

off, restore and/or supply needed water to vegetation in the street right-of-way.

Everett *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite 6/15/04 Phone conversation with Al Spaulding who answered that granite curbing is required.

Foxborough *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Foxborough Subdivision Rules and Regulations, Section 5.03(a) (Date Not Listed).

"SECTION 5.04 STREET CURBING & SIDEWALKS

A. Granite curbing shall be Installed on both sides of all roadways and rotary circles, and shall blend into the driveway entrances. It shall be set after the bituminous concrete base course has been set and prior to the placing of the wearing course.

1. The following types of curbing may be used within a subdivision as noted in Appendix B:

- a. Sloped granite edging Type SA.
- b. Vertical granite curb Type VA-4.

2. Transition curbs shall be used when change in type occur. (re. vertical granite to sloped granite or at granite curb inlets)."

Framingham *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Framingham
Subdivision Rules and Regulations (Ordinance.com)

Section VII. Design Standards And Specifications

B. Streets

5. Curbing

Granite curbing shall be installed in accordance with the construction specifications of the Department of Public Works on all sides of all streets including primary, residential subcollectors, and residential access streets, in all zoning districts. All granite curbing shall be vertical granite curb (VA-4). Granite curbing shall be installed prior to installation of finish course of bituminous concrete pavement.

Franklin *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Franklin Subdivision Rules and Regulations, Section 300.10 (Last Amended 1999).

"H. Curbing.

(1) Type. Curbing shall be placed the full length of all streets. The type shall be VA4 (Massachusetts Department of Public Works Specification M9.04.1) vertical granite where high-frequency parking is anticipated, such as where multifamily units are to be near the street or at drop-off points in nonresidential development. At all other locations, curbing shall be Type SB sawn (smooth) top slant granite (Massachusetts

Department of Public Works Specification M9.04.2).

(2) Slant granite.

(a) Slant granite curbing shall be of lengths determined by the Department of Public Works to be adequate to serve the situation (Massachusetts Department of Public Works Specification M9.04.2). It shall be set on a compacted gravel at some angle not less than forty five degrees (45o) and not greater than sixty degrees (60o). In addition it shall have a reveal of seven (7) inches plus or minus three quarters inches (3/4"). It shall be supported in place by blocks or undisturbed earth. The granite shall be set in a concrete base approximately six (6) inches square which shall abut against the binder course. The concrete shall be placed in front and under the granite during an initial pour. The concrete shall be placed in back and under the granite during a second pour. The top course of paving will cover the concrete and key the granite in place. Joints on the face and top of the granite curb shall be mortared."

Freetown *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Bituminous on minor and secondary streets; granite on major and primary streets.

"5. CURBS AND BERMS

- a) Bituminous cape cod berms and/or granite curbs shall be provided along all sides of the roadway.
- b) Berms shall be Class I Bituminous Concrete Cape Cod Berm conforming to Section 470, of the Standard Specifications.
- c) Granite curbing shall be installed at all curved (including gutterlines at angled intersections) intersections of existing and proposed streets within and at the exteriors of all subdivisions. Each curve shall be extended with at least six feet (6') of straight transition curbing at each end of the curved section of curb. (See "Typical Intersection Curve Layout" detail, See Appendix E) Granite curbing shall be Type VA4 (Section M 9.04.1).
- d) Granite curbing shall be installed to provide both a header and throat for catchbasins, (Referred to in Section IV, D,2, K).
- e) Granite curbing, not Cape Cod Berms, are required along all major and primary streets.
- f) The profile of the berms and curbs shall be per Appendix E."

-Rules and Regulations governing the subdivision of land in the Town of Freetown, Section IV.B

Survey received from Freetown on 6/10/05 marks that "granite required in reg's but sometimes waived."

Georgetown *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Georgetown, CHAPTER 365 SUBDIVISION REGULATIONS, ARTICLE VI Construction Section 365-50. Street construction standards and specifications.
K. A curb of vertical granite to a height of six (6) inches shall be placed on the pavement at both edges of the roadway before the second coat of bituminous concrete is put down. Curbing shall have a minimum width at the top of four (4) inches and a nominal depth of eighteen (18) inches. [Amended 4-26-1995]

Gloucester *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous

Gloucester Rules and Regulations Governing the Subdivision of Land (Adopted 1960, Amended 1998)

Section 4.3.5 Construction:

"Granite or Type I-1 bituminous concrete (machine installed) curbs shall be installed."

Grafton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Grafton Rules and Regulations Governing the Subdivision of Land, 1998

4.2.1 Granite Curb.

Unless otherwise specified by the Planning Board, granite curbs of the dimensions given for granite curbs (Section M.9.04.1) Type VA4 shall be provided in the following locations:

4.2.1.1 Streets in a non-residential subdivision, and all Major Streets: Along each edge of the roadway for the full length of the street.

4.2.1.2 All Other Streets

a) At intersections along the paving edge the distance of arcs of the curves plus a straight section of eight feet (8) at each end of said arcs.

b) Along each edge of the roadway where the grade exceeds two percent (2%)

c) Along each edge of the roadway on all curves with a radius of less than two hundred and fifty feet (250).

4.2.2 Bituminous Curb

Except where granite curbing has been required, the edges of a street shall be provided with a bituminous concrete low profile "Cape Cod" berm along both edges of the roadway for the full length of the roadway.

Groton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Groton Subdivision of Land, Chapter 346 (Adopted 1983, Amended 1990)

346-13. Other improvements.

D. Curbing. [Amended 11-3-1994]

(1) Collector street and minor street. Both sides of the roads shall have granite curbing with a minimum thickness of six inches and shall not be less than 18 inches plus or minus one inch in depth.(2) Lane. Both sides of the road shall have a bituminous Cape Cod berm, 12 inches wide with three-inch rise, except that, where necessitated for traffic control, drainage or maintenance, the Board may require vertical granite curbs.

Groveland

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Groveland Rules and Regulations Governing the Subdivision of Land (1998)

4.8 Curbing

4.8.1 Vertical and slope granite curbing shall be installed along both edges of all roadways in the subdivision.

4.8.2 Vertical granite curb shall be installed at all intersections and in locations where the road grade exceeds five (5%) percent.

4.8.3 Slope granite curb shall be installed at all other locations.

4.8.4 Granite curbing shall be of the following types as specified in the Mass Highway Specifications. M.904.1:

4.8.4.1 Vertical Granite Curb - Type VA3

4.8.4.2 Sloped Granite Curb - Type SA

Halifax

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Halifax, Subdivision Regulations, ARTICLE IV Required Improvements: Section 235-31. Streets.

B. Curbing or edging.

(1) Curbing or edging is required on both sides of all roadways and shall be one (1) of the types specified under Subsection B(2) below, except that granite or precast concrete curbing shall be need for:

(a) All headers for catch basins.

(b) All street intersections on the curve, and extending six (6) feet tangential from the point of tangency along the side of each roadway.

(2) Approved types of curbing or edging

(a) Sloped granite edging.

(b) Precast concrete edging.

(c) Bituminous concrete edging, Type A.

(3) Specifications for curbing or edging, workmanship and method of setting shall conform to the requirements of these rules and regulations and to the requirements of the Town of Halifax.

Hamilton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

SUBDIVISION REGULATIONS

Hamilton Planning Board

SECTION VI REQUIRED IMPROVEMENTS

E. Curbs and Sidewalks

Curbs and sidewalks will be required wherever, in the opinion of the Board, they are needed for the safety of pedestrians, as in the vicinity of schools or of other generators of pedestrian travel, or on streets adjoining an existing street already provided with a sidewalk.

1. Curbs. Granite curbs shall be installed on each side of the paved roadway. Materials, dimension and methods of installation shall conform to the Mass. Department of Public Works "Standard Specifications for Highways and Bridges", 1973 edition, as amended.

2. Shoulders. All roadways shall have shoulders of at least seven (7) feet in width on each side of the street and constructed with a three eighths (3/8) inch to the foot pitch toward the top of the berm or curb. The portion of this area, which is to constitute a grass plot or planting area, shall be loamed and graded with at least six (6) inches of loam or other good topsoil conducive to the growing of grass, rolled and seeded with lawn grass seed. The area outside the street lines of a development shall be sloped at the rate of not less than two to one and shall be loamed, seeded and rolled in the same manner as the shoulders.

3. Sidewalks, when required, shall not be less than five (5) feet in width, shall be constructed of a good binding gravel, six (6) inches in depth, and paved with two courses of bituminous concrete totaling two and one half (2 1/2) inches minimum thickness after compression (1 1/4 inch per course, finished).

Hanover

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Rules and Regulations Governing the Subdivision of Land in the Town of Hanover

SECTION V REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION

B. Curbs

1. Vertical granite curbs shall be installed on all streets except for cul-de-sac islands where granite edging shall be used. All curbing and edging shall be installed in conformance with Appendix A

2. Curbstones shall be installed on both sides of all curb openings.

Hanson

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

According to Hanson's subdivision regulations, any street with a grade over 6 percent uses granite curbing. Other subdivision streets could have either granite curbs or cape cod berms (bituminous).

THE RULES AND REGULATIONS OF HANSON PLANNING BOARD

SECTION 6. DESIGN STANDARDS

Section 7. Required Improvements

STREET CLASSIFICATION

6.5.4 Depending on the amount of traffic they will be expected to accommodate, the streets in town, except state highways, shall be classified as arterial, collector, local and minor. The classification of a proposed street shall be determined by the Planning Board. Stopping sight distances for all streets shall conform to standards for horizontal and vertical alignment and intersections given in the American Association of State Highway and Transportation Officials "A Policy on Geometric Design of Rural Highways" latest revised publication.

COLLECTOR STREETS

A. Collector streets shall include streets expected to accommodate traffic generated by one or more sub-divisions or neighborhoods, or streets connecting parts of the town or carrying industrial or commercial traffic but not serving as major thoroughfares. Collector streets shall have a right-of-way width of 50 feet, minimum pavement width of 32 feet, and a minimum sight distance of 200 feet.

LOCAL STREETS

B. Local streets shall include dead-end streets of over 200 feet in length and all streets not otherwise classified and shall have a right-of-way width of 40 feet, minimum pavement width of 26 feet, and a minimum sight distance of 150 feet.

MINOR STREETS

C. Minor streets shall include residential streets expected to carry only the traffic generated by the residences on such street and in the immediate proximity thereof and shall have a right-of-way width of 40 feet, minimum pavement width of 20 feet, and a minimum sight distance of 125 feet.

STREET GRADES

6.5.5 The minimum grade for all streets shall be 1.0% and the maximum grade shall be 6% for arterial and collector streets and 10% for all other streets. Where street grade at the approach to an intersection exceeds 3%, a levelling area shall be provided having grades not exceeding 1% for a distance of 50 feet from the nearer exterior line of the intersecting street.

CURBING

7.6

CURBING, GENERAL

7.6.1 Curbing is required on both sides of all roadways and shall be one of the types specified under subsection 7.6.2 as determined by the Planning Board except that Type VA4 granite curb shall be used on the following cases:

- a. All finished grades over 6%.
- b. All headers with transition section at each end for catch basins.
- c. All street intersections, along turning radii and extending 6 feet

APPROVED TYPE OF CURBING

7.6.2 Approved types of Curbing.

- 1. Sloped granite edge stone type SB (See detail plate 5)
- 2. Granite curbing type VA4 (See detail plate 6).
- 3. Bituminous concrete berm "Cape Cod Berm" (See detail Plate 7).

Harvard

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

None Researcher found no curbing requirement in the bylaws. According to Marie Nader, Planning Board Administrator, there is no specific curbing requirement in the bylaws. (11/2/04)

Code of the Town of Harvard, Chapter 130, Subdivision Control (Adopted 1970, Amended 1986)

Haverhill *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite City of Haverhill Rules and Regulations Governing the Subdivision of Land, 2000

Section V, 5.1 Streets

Curbing

1. In all subdivisions, curbing shall be installed along both sides of the complete roadway and along the entire cul-de-sac, where applicable. Curbing shall be vertical granite curb (type VA-1) with 7 inch reveal or sloped granite curbing (type SA) with 6 inch reveal. No other type of curbing is permitted.

2. When proposed curbed intersections involve one or more existing streets having a grassed shoulder, the curbing shall be placed within 5' of the edge of the roadway, and the pavement on the street or streets with such shoulder shall be widened to the full width of the roadway (thus meeting the curb) within a distance of 50' of the intersection tapering down to normal width within 75' thereof.

Hingham *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous According to the Rules and Regulations Governing the Subdivision of Land in the Town of Hingham, Section 4 Design Standards, Table I, Minimum Design Standards for Streets listed CAPE COD BERM (bituminous concrete) as the curbing requirement.

Holbrook *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Rules and Regulations Governing the Subdivision of Land Town of Holbrook, Section IV(D), (Adopted, 1954, Amended 1998; from ordinance.com as of August 2004)

D. Curbing

Standard Type VA-4 granite curbing with six (6) inch reveal, sloped granite face curbing or bituminous concrete curbing if determined by the Planning Board, shall be installed along both gutter lines of all ways for their entire lengths except that granite curbing shall be installed along said gutter lines under the following conditions:

1. All finished street grades over five percent;
2. All headers for catch basins (to be set back four inches from the edge of pavement);
3. All street intersections on the curve and extending six (6) feet tangential to the point of curvature and point of tangency along the sideline line of roadway at the intersection; and
4. Other specific locations as determined by the Board.
5. Bituminous concrete berms shall be installed on top of the base course of the pavement. Reinforced cement concrete or granite curbing shall have a cross-section of at least five (5) inches minimum width and thickness throughout and seventeen (17) inches minimum depth and shall be set on at least six inches of compacted bank gravel in accordance, with the cross-section. Straight-ended granite curb inlet stones shall be used in all instances.

Holden *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous "5. Curbing

a. Except as hereinafter provided, a bituminous concrete curb shall be placed at each edge of the traveled way. The machine made bituminous concrete berm shall be six (6) inches high from the surface of the finished roadway and of the shape specified in the typical road section. A tack coat of emulsion shall be applied to the road surface before the installation of the berm. The construction of the bituminous concrete berm shall be in conformance with the 1988 Edition of the M.D.P.W. Std. Specs., as amended or updated."

- Rules and Regulations Governing Subdivision of Land in Holden, VI.C.5

Holliston *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Holliston Planning Board Subdivision Rules and Regulations, Section 5.2.5.5: "Curbs.
a) Granite shall be required along all streets. Type VA-3 curbs shall be set at sixinch (6") finish reveal."

Hopedale *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous While subdivision rules make mention of bituminous within their "Street-Roadway Construction", researcher found no regulation within subdivision rules identifying curbing requirement.

Michael Tusino of the Building Inspector's Department stated (11/18/04) that the curbing is bituminous.

Hopkinton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous RULES AND REGULATIONS
RELATING TO THE SUBDIVISION OF LAND (Adopted May 8, 2000, Amended through June 16, 2003)

Section 8 Design Standards

8.2 Streets

8.2.2 Curbing

A. Granite Curb shall be required along all edges of pavement with radii of less than 100 feet.

B. Granite guttermouths shall be installed at all catch basin locations.

C. Modified Cape cod berm shall be required along all edges of pavement where radii are greater than 100 feet and at other locations not covered by A and B above.

Section 9 Construction Requirements

9.8 Curbing

9.8.1 Granite curbing and granite guttermouths as required by these specifications shall be installed prior to paving.

9.8.2 All granite curb stone shall be basically light gray in color, free from seams and other structural imperfections which would impair its structural integrity, and of a smooth splitting

appearance. Natural color variation characteristic of the deposit from which the curbing was obtained will be permitted.

9.8.3 All surfaces which are to be exposed shall be thoroughly cleaned, with all iron particles or rust removed by sand blasting or other satisfactory methods approved by the Board. All saw marks in excess of 1/8 inch shall be removed.

9.8.4 Granite guttermouth inlet stones shall conform to the geometry and dimensions as shown on the detail attached hereto. All curb inlets shall have 6-foot granite transition curbs on each side to transition the grade differential between the curb inlet and the bituminous concrete berm provided in normal roadway sections, as shown on the detail attached hereto.

Transition curb shall be quarry cut.

9.8.5 The top surface of stones shall be free from wind and shall be peen hammered or sawed to a true plane without projections or depressions greater than 1/8 inch. The front and back arris lines shall be pitched straight and true. The back face of the inlet stone for a distance of 3 inches down from the top, shall have no depressions or projections which would exceed a batter of 4/12.

9.8.6 The front face shall be at right angles to the planes of the top and ends, and shall be smooth quarry-split, free from drill holes, and without projections greater than 1 inch nor depressions greater than 2 inch measured from the vertical plane of the face through the arris or pitch line for a distance down from the top of 10 inches. For the remaining distance, depressions or projections shall not exceed 1 inch.

9.8.7 The ends shall be squared with the top for their entire depth finished such that future butt joints formed do not exceed 2 inch for the full width of the top and for 10 inches down on the face. The arris formed by the intersection of the plane of the end with the planes of the top and exposed faces shall have no variation greater than 1/8 inch from the planes of the top and exposed faces.

9.8.8 The guttermouth for inlet stones shall be cut in the front face of the stone to the geometry and dimensions as shown on the detail attached hereto.

9.8.9 Gravel borrow for bedding granite curb stones and its backing shall be furnished, placed and compacted in accordance with the provisions specified under Gravel Borrow (Sec.9.5.1.J).

9.8.10 Mortar used for bedding the inlet stones shall conform to the requirements specified under Section 9.5.1.E for catch basins.

9.8.11 All curb inlet stones shall be set in a full mortar bed on the supporting back walls of catch basins. Exposed surfaces of curb shall be kept clean and free from mortar and cement stains. The overhang on each side shall be sufficiently supported throughout by bedding in a thoroughly tamped gravel bed at least 6 inches in depth and 18 inches in width.

9.8.12 After the stones are set, the remaining trench shall be backfilled with gravel and thoroughly compacted to the required grade, care being taken so as not to disturb the setting.

Survey received 3/22/05 from Hopkinton:

In typical subdivision roads, what is the curbing requirement?

"Cape cod berm"

Hudson

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Hudson Rules and Regulations Governing the Subdivision of Land, 1993

5.6. Curbs, Berms and Guard Rails.

5.6.1. Bituminous concrete berms shall be MDP Type 3, and shall be provided along each side of the roadway, except that granite curbs of the same height and Type VA4 (Sub-section M 9.04.) shall be provided:

5.6.1.1. At intersections along the roadway the distance of the arcs of the curves plus a straight section at each end of eight (8) feet.

5.6.1.2. Along each edge of a roadway where the grade exceeds five (5) percent.

5.6.1.3. On the inner side of all curves with a radius less than two-hundred and fifty (250) feet.

5.6.3. In the event that the Planning Board waives curbs and berms, paved gutters shall be provided along each edge of the roadway where the grade exceeds three (3) percent.

5.6.4. The profile of the berm is subject to Planning Board approval.

5.6.5. 600 Guard rails shall be installed for safety at curves or filled areas as required by the Planning Board, in accordance with the Standard Specifications for steel beam guard rails.

Hull *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous TOWN OF HULL RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, 5.J (1988, Current 3/27/01)

J. Curbing

(1) Vertical granite curbing or 5000 psi, 28 day strength precast concrete curbing shall be installed along the edge of the roadway where, in the opinion of the Planning Board, such curbing is necessary to control surface runoff or prevent serious erosion, or for safety or other similar purposes.

(2) Where vertical granite curbing is installed, all curb inlets for catch basins shall be granite mouth curbing.

(3) Vertical, granite curbing shall conform to the Department's Specifications for Granite Curb.

(4) Except as otherwise required in this Section, bituminous concrete curbing (Cape Cod Berms), vertical granite, sloped granite, or precast concrete curbing (5000 psi, 23 day strength) shall be provided along both sides of the roadway. Where bituminous concrete curbing is provided the roadway subgrade construction shall be extended under the full width of the curbing (see Typical Roadway Cross-Sections, Figure 1) and the curbing shall be of monolithic construction with the binder and top courses of the roadway pavement. Where vertical granite or concrete curbing meets bituminous concrete curbing, suitable transitions shall be constructed.

Ipswich *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Ipswich Subdivision Rules and Regulations (Adopted 1993, Amended 1999)

6.9 CURBING:

As a minimum, a continuous low-profile, modified Cape Cod berm shall be provided as an integral part of all new streets, except for courts. Modified cape cod berm shall be required on courts at intersections and on grades over four (4) percent. On cul-de-sac turnarounds and at intersections with collector or local streets, sloped granite curbing shall be required. Sloped granite curbing shall be required where road grades are over two (2) percent but less than six (6) percent. Vertical granite curb shall be required at the back of catch basins, on grades over six (6) percent, and at the intersections with arterial streets, except that the Board may allow sloped granite curb in lieu of vertical granite curb at the back of catch basins or on grades over six (6) percent if the entire proposed street is being provided with sloped granite curb. [Amended 5-18-95]

Reference is made to details of "Typical Cross Sections, Curbing Construction" Figure II.

Kingston *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Kingston, RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND

SECTION 5.0. REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION

5.6. Granite Curbs, Granite Edging, Granite Curb Construction & Guard Rails.

5.6.1. Granite Curbs: Natural color variation characteristic of the deposit from which the curbing is obtained will be permitted. Sawed surfaces shall be thoroughly cleaned and any iron rust or iron particles or any saw mark in excess of 1/8 inch shall be removed. Stones shall be Type VB and have a minimum length of 36 inches, minimum width at the top of 5 inches and minimum width at the bottom of 3 1/2 inches over 2/3 of each stone length and depth of 15 to 17 inches. Stones used for closure pieces may be up to 1/3 shorter than the specified minimum length. Stones set on a radius of 100 feet or less shall be cut to the required curvature and, except for marking closures, shall be a minimum length of 54 inches on radius from 25 to 50 feet or less. At drainage inlets, a gutter mouth of at least 3 inches in depth and at least 2 feet in length shall be cut in the front of the stone. The front face shall be at right angles to the planes of the top and ends shall be smooth quarry split, free from drill

holes and with no projection of more than 1 inch and no depression of more than 1/2 inch measured from the vertical plane of the face of the arris or pitch line for the distance down from the top of 8 inches. For the remaining distance there shall be no projection or depression greater than 1 inch measured in the same manner. The ends of all stones shall be square with the planes of the top and face so that when the stones are placed end to end as closely as possible no space shall show in the joint at the top and face of more than 1/2 inch for the full width of the top and for eight (8) inches down on the face after which the end may break back not over eight (8) inches from the plane of the joint. The arris formed by the intersection of the plane of the joint with the planes of the top and exposed faces shall have no variation from the plane of the top and exposed faces greater than 1/8 inch. The finish and surface dimensions shall have a top surface free from wind, shall be peen hammered or sawed to an approximately true plane, and shall have no projections or depressions greater than 1/8 inch. The front and back arris lines shall be pitched straight and true and there shall be no projection on the back surface for 3 inches down from the top which would exceed a batter of 4 inches in 1 foot. (Amended March 11, 1996)

Lakeville *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous " 7. Curbs and Berms.

a) Bituminous concrete berms and curbs of six inches (6") in height shall be provided along each side of the roadway where there are sidewalks. All other roadways without sidewalks except where granite curbs shall be provided, shall have eighteen inch (18") flat berm, one (1) layer two and one-half inch (2 and 1/2") Bituminous concrete:

at intersections along the roadway the distance of the arcs of the curves plus a straight section at each end of eight feet (8'). Granite curb shall be type SB sloped edging. (Subsection M9.04)

along each edge of a roadway where the grade exceeds five percent (5%).

on the inner side of all curves with a radius less than two hundred and fifty feet (250'). The elevation of the curb shall be seven inches (7") higher than the gutter line.

b) In the event that the Planning Board waives curbs and berms, eighteen inch (18") flat berms as above shall be provided along each edge of the roadway where the grade exceeds three percent (3%).

c) The profile of the berm is subject to Planning Board approval. "

- Rules and Regulations Governing Subdivision of Land in the Town of Lakeville. IV.B.

Lancaster *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Lancaster Rules and Regulations Governing the Subdivision of Land

427. Berms and Curbs

Bituminous concrete berms shall be installed on both sides of all roadways in conformity with the Typical Cross Section appended hereto, except where waived by the Board where open drainage systems are being relied upon. [Amended 4/27/87]

Lawrence *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Researcher located the following answer in the zoning ordinance, not the subdivision rules, as referenced below.

City of Lawrence Zoning Ordinance, Section 28-29(e)(5). (Last Amended 2001).

(5) The improvements and amenities if required, are to be installed on the property at the expense of applicant and shall assist in the

establishment of a sound, urban environment. Such improvements shall include but not be limited to granite curbing, portland cement sidewalks, and street trees, where required."

Leicester *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Leicester Subdivision Rules and Regulations (Adopted 1995, last Amended 2003)

SECTION V. REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION:

J. CURBING:

Curbing is required lining both sides of all streets. All curbing shall be of Type I-1 Class 1 bituminous concrete modified Cape Cod berm formed by a berm machine and placed on a satisfactory base, except at granite curb inlets. Modified Cape Cod berm shall be as shown on the Bituminous Concrete Berm Modified Type "A" Detail included in these Rules and Regulations..."

Leominster *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous City of Leominster Rules and Regulations Governing the Subdivision of Land

4.3 Curbing and Shoulders

4.3.0 Curbing shall be installed along the edge of each roadway in all streets.

4.3.1 Bituminous concrete curbing shall conform to the specification of Type A curbing in Section 501 of the Massachusetts Department of Public Works Specifications for Highways, Bridges, and Waterways and shall be 12-15 inches wide at the bottom, four inches wide at the top, and six inches high.

4.3.2 At the discretion of the Board, curbing shall consist of Class I bituminous concrete, Type I-1, Cape Cod style berms except along the curve at all intersections and cul de sacs, driveway openings, and catchbasin inlets where standard granite curbing is required.

Granite curbing shall conform to the specification of Type VA curbing in Section 501 of the Massachusetts Department of Public Works Specifications for Highways, Bridges, and Waterways and shall be six inches wide by 18 inches high and shall be laid with a seven inch reveal.

4.3.4. Where the two types of curbing meet, the bituminous concrete curb shall be tapered up to meet the granite curbing, or the granite sloped back and tapered to meet the bituminous concrete berm.

Lexington *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Answer based on 6/24/04 email from Ms. McCall-Taylor -- "Cape Cod berm is the usual."

Town of Lexington, Chapter 175 Planning Board Development Regulations, Part 2 Subdivision Control, Article VIII, Required Improvements; Design Standards, 175-45. Streets and rights-of-way., E(1) (Enacted 1993, Current 2003)

8)Curbs and gutters. Curbing is required to provide for safety, stormwater management, and delineation and protection of the pavement edge and to prevent erosion. As a minimum, a continuous, low-profile, "Cape Cod" style berm, of either bituminous concrete or sloped granite, shall be provided as an integral part of each new street. A berm shall be 12 inches wide sloping down towards the roadway three inches vertical in each horizontal foot. On a cul-de-sac turnaround sloped granite curbing shall be provided.

(a)Vertical granite curbing shall be installed:

- [1]At the back of catch basins that are at low points;
- [2]On all sections of street with a grade greater than 5%;
- [3]At all corner roundings; and
- [4]On all arterial streets.

(b)The design, dimensions and installation of all granite or bituminous curbing shall be in accordance with the Standard Specifications and to

the satisfaction of the Town Engineer.

Lincoln *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Lincoln, Rules and Regulations Governing the Subdivision of Land, Section 7.5.9 Curbing, (2001).
7.5.9 CURBING

Where grades are in excess of 2% or where such protection is deemed necessary by the Board, curbing constructed of granite or bituminous concrete and sealed to the road pavement shall be constructed. Curbing shall be constructed according to the curbing cross sections in Exhibit B.

Littleton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Code of the Town of Littleton, Part II, Chapter 249, Article V, Section 249-73 (as amended 2003):
Curbs.

Curbing shall be installed on both sides of collector streets and on other streets for the full radius, plus at least three (3) feet on each end at all street intersections and wherever grade exceeds six percent (6%) and at catch basins, or as required by the Board. All curbing shall be slope cape cod berm except, with materials, workmanship and method of setting consistent with Massachusetts Highway Department Specification F-7 for Type SFA granite edging.

Lowell *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Lowell Subdivision of Land Regulations, Section V(A)(5):
"CURBING

Curbing is required on both sides of all streets. Granite curbs shall be required where, in the opinion of the Planning Board, such granite curbs are necessary to prevent erosion and to control water run off. In other instances, bituminous concrete tip curbing may be provided instead of granite. Paving and base construction shall be extended the full 12 inches under bituminous concrete curbing."

Survey received from Lowell 3/21/05:

"Granite, waivers for bituminous not uncommon"

Lunenburg *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Lunenburg Rules and Regulations Governing the Subdivision of Land

5.6. Curbs, Berms and Guard Rails

5.6.1. Bituminous concrete berms and curbs of six (6) inches in height and one (1) foot in width (right triangular cross section) shall be provided along each side of the roadway except that granite curbs of the same height and Type VA4 (sub section M 9.04.) shall be provided:

5.6.1.1. Along each edge of a roadway where the grade exceeds five (5) percent.

5.6.1.2. On the inner side of all curves with a radius less than two hundred and fifty (250) feet.

5.6.1.3. At intersections along the roadway the distance of the arcs of the curves plus a straight section at each end of eight (8) feet. The curbs shall be installed such that the exposed face will be at a slope of forty-five (45) degrees to the vertical.

5.6.2. In the event that the Planning Board waives curbs and berms, paved gutters shall be provided along each edge of the roadway where the grade exceeds three (3) percent.

5.6.3. The profile of the berm is subject to Planning Board approval.

5.6.4. 600 Guard rails shall be installed for safety at curves or filled areas as required by the Planning Board, in accordance with the Standard Specifications for steel beam guard rails.

Lynn *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous City of Lynn Subdivision Rules, SECTION VI DESIGN STANDARDS, A. STREETS.(Last amended 2001).

"Curbing shall be installed on all ways within a subdivision to contain surface run-off and to maintain pavement. Walk-off ramps shall be provided at street intersections and pedestrian crossings as designated by the Board. Walk-offs and driveway corners shall be provided with two (2) feet radius corners at the curb. Curbing material shall be provided in accordance with the following schedule.

a. All drain inlets, street segments having a grade steeper than six percent (6%) or more, and all corner roundings on the curve and-extending six (6) feet tangent to the point of curvature, shall have vertical granite curbs with a six (6) inch exposed face.

b. A type "A" machine formed bituminous concrete berm shall be provided on all ways less than six percent (6%) in conformity."

Lynnfield *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Lynnfield RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, 8.2.5 (Adopted 1977)

Bituminous concrete curbs shall be provided on all streets except that sloped granite curbs shall be provided on the radius of curves at all street intersections. 3/23/92

Malden *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite According to Michelle Romero, Malden recently changed their curbing requirement to granite. (6/04)

Manchester-by- *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

None Curbing is not required on minor streets, with the following exceptions:

Manchester-by-the-Sea RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, Section 7.9 (Last Amended 2001).

G. Curbing

1. Curbing shall be required to be installed on all Arterial streets and Collector streets. In addition, curbing shall be required in the following locations;
 - a. Along the entire perimeter of all cul-de-sac turnarounds.
 - b. Along all curves of street intersections.
 - c. All curves having a radius of sixty (60) feet or less at the street line or a central angle of thirty (30) degrees or more shall have the gutter line curbed with curbing both circular and straight to fit the curve, and the ends of the curve shall be extended by a straight section of curbing not less than five (5) feet long.
 - d. All sections of a street having a grade of five (5) percent or more shall have curbing. This curbing shall be continued from the ending of the five (5) percent grade to the location of the next set of catch basins on the downhill side of such grade.
 - e. Along any other street where, in the opinion of the Planning Board, curbs are necessary to handle run-off for that section of roadway or curbs are necessary for the maintenance of the pavement and the prevention of pavement edge ravelling.
2. Curbing shall be constructed of granite, sloped or block, unless in the opinion of the Planning Board, other material will be satisfactory. Slanted curbing shall be provided on sidewalks at pedestrian crosswalks. Curbing shall be sealed to the road pavement. "

Mansfield

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Mansfield Rules and Regulations Governing the Subdivision of Land

5.5 Curbs and Berms

5.5.1. Vertical granite curbing shall be provided along each side of the roadway throughout the subdivision. Granite curbing shall be Type VA4 (Subsection M9.04).

5.5.2. In instances where, in the opinion of the Planning Board, vertical granite curbing will not blend in properly with the existing roadway system, it may require cast concrete curbs as specified in Subsection M4.02.14, and granite curbing at the intersection along the roadway the distance of the arcs of the curbs plus a straight section at each end of eight feet (8') and on the inner sides of all curves with a radius less than one hundred and fifty feet (150'). Granite curb shall be Type VA4 (Subsection M9.04). A six foot (6') granite catch basin block shall be installed at each catch basin.

Marblehead

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Marblehead Subdivision Rules and Regulations, Section 258-20(F)(7)(a)(adopted 1997)

"Bituminous concrete curb (Type 2) or sloped granite edge per MDPW standards."

According to Rebecca Curran, Planner Town of Marblehead, (6/28/04) recently granite has been the most commonly used curbing material.

Marlborough

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

City of Marlborough Subdivision Rules and Regulations (Revised 2003)

Section V. Required Improvements for an Approved Subdivision (D) SIDEWALKS, CURBS AND GUTTERS

1. Unless otherwise specified by the Planning Board, the sidewalks shall extend the full length of each side of the street and shall be of the following minimum widths:

Along secondary streets - six feet (6') including curb;

Along major streets - six feet (6') including curb. (Amended 7/18/88)

2.700 Bituminous concrete sidewalks having a minimum thickness of two inches (2") after compression, shall be constructed on a six inch (6") gravel foundation to the required lines and grades in accordance with these specifications. The sidewalk shall be constructed with a shaped granite curbing or upright granite curbing as approved by the Commissioner of Public Works. (Amended 1/7/80 & 7/18/88)

3.700 If desired, Granolithic sidewalks shall be constructed as directed by the Engineer in conformity with this section of the "Standard Specifications".

Marshfield

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Marshfield Subdivision Rules and Regulations

5.2 Curbs

When vertical or slope block granite street curbing is required, it shall be in accordance with the standards set forth below, and all cul-de-sacs and curves with a radius of 60 feet or less shall be of vertical granite only. Cape Cod berm when specified shall be used throughout except that vertical granite curb inlets with appropriate inclined transition sections (of vertical granite) shall be provided at all catch basins. The curb inlet and catch basin installation shall conform to the typical curb inlet detail drawing.

5.2.1 Granite Curbing - General: Curbstone shall be of hard and durable granite, or a light color satisfactory to the Engineer, free from seams which impair its structural integrity, and of a good smooth splitting appearance. Granite shall come from approved quarries and, when tested, shall have a Los Angeles percentage of wear not more than 32. Test samples shall be hand broken.

5.2.2 Slope Granite Curbing

a. Dimensions:

The stones for the several types of slope curb shall be cut to the dimensions given in the following table:

Depth of Slant Face Thickness Length Type (Inches) (Inches) (Feet)

SB 12 3 in. to 6 in. 3' to 6'

*Minimum lengths do not allow to radial slope curb.

Maximum lengths of stones shall be as directed by the Engineer, when the curb is used on curves of one hundred (100) feet radius or less.

b. Finish:

Finish and surface dimensions for the several types of stone curb shall conform to the following requirements:

(i) Exposed face shall be smooth quarry split to an approximately true plan having no projections or depressions which will cause over one (1) inch to show between a two (2) foot straight edge and the face when the straight edge is placed as closely as possible on any part of the face. If projections on the face are more than that specified, they shall be dressed off. Drill holes will be permitted on the exposed face, but only along the bottom edge.

(ii) Arris line, top front, shall be pitched to a line which shall not show over one half (1/2) inch in any direction between the stone and a straight edge laid the full length of the stone.

(iii) Arris line, bottom front, shall be pitched so that not over one half (1/2) inch shall show between the stone and a straight edge, the full length of the stone, when viewed at right angles to the plane of the face.

(iv) Arris lines at ends shall be pitched with no variation from the plane of the face more than one quarter (1/4) of an inch.

(v) Ends shall be square to the plane of the face and so finished that when stones are placed end to end, as closely as possible, no space more than three quarters (3/4) of an inch shall show in the joint for the full depth of the face.

(vi) Tops and bottoms shall not be under the square more than four (4) inches or over the square at the back more than one (1) inch.

c. Mortar:

(i) Mortar for pointing joints shall be composed of equal parts of air entraining cement and sand with sufficient water to form a workable mixture. Materials shall conform to the requirements of ASTM C-91 and C-144.

(ii) Setting methods: Slope granite curb shall be set at line and grade required. Top line of curb shall be set straight and true allowing natural variations in depth of curb to occur at the bottom of the face. Spaces under the stones shall be filled with approved material and so tamped that the slope granite curb will bear and be completely supported throughout its entire length and width at the required line, grade and slope. Curbstones shall not fit closer to each other than one-quarter (1/4) of an inch, otherwise, they shall be fitted together as closely as possible.

(iii) Pointing joints: Joints shall be primed and caulked with a beak of Thiokol or approved equal. Joints shall be filled with mortar when necessary to provide adequate base for caulking.

(iv) Protection: The contractor shall protect slope granite curb and keep stones in first class condition until completion of the entire contract. Particular care shall be exercised to prevent any discoloration of exposed surfaces.

5.2.3 Vertical Granite Curbing:

a. Dimensions: The stones for several types of curb shall be cut to the dimensions given in the following table:

Type: VA

Width at Top: 5 inches

Depth: 17 to 19 inches

Minimum Length 6 Feet

Minimum Width at Bottom: 5 inches (for 2/3 length)

*Minimum lengths do not apply to radial curb and closures. Types VA-4 curbstones to be set on a radius of one hundred sixty (160) feet or less shall be out to the curve required, unless otherwise directed by the Engineer.

b. Finish: Finish and surface dimensions for the several types of curb shall conform to the following requirements: Type VB curb:

(i) Top surface of curbstones shall be sawed to an approximately true plane.

(ii) Exposed arris lines shall be pitched straight and true with no variation from a straight line greater than one-eighth (1/8) of an inch.

(iii) Back surfaces of curbstones shall have no projection for a distance of three (3) inches down from the top, which would exceed a batter of four (4) inches in twelve (12) inches.

(iv) Front face shall be at right angles to the plane of the top and shall be smooth quarry split. Drill holes in exposed part of face will not be permitted.

(v) Front face shall have no projections greater than three quarters (3/4) of an inch or depressions greater than one-half (1/2) inch measured from the vertical plane of the face through the top arris line for a distance down from the top of eight (8) inches. Remaining distance shall have no projections greater than one (1) inch measured in the same manner.

(vi) Ends of all stones shall be square with the planes of the top and face, and so finished that when stones are placed end to end as closely as possible, no space more than one-half (1/2) inch shall show in the joint for the full width of the top or down on the face for eight (8) inches. Remainder of end may break back not over eight (8) inches from the plan of the joint.

c. Mortar:

Mortar for pointing joints shall be composed of equal parts of air entraining cement and sand with sufficient water to form a workable mixture. The materials shall conform to the requirements of ASTM C-91 and C-144.

d. Setting Curbstones:

(i) Curb shall be set at line and grade required, and it shall project seven (7) inches above the shoulder grade or pavement, unless otherwise directed or called for on the plans.

(ii) Curbstones for Type VA-4 curb shall not fit closer to each other than one eighth (1/8) of an inch, otherwise they shall be fitted together as closely as possible.

e. Granite Curb Inlets:

(i) Granite for curb inlets shall meet the requirements of Section 5.2.1.

(ii) Curb inlets shall not be less than 5 feet, 11 inches, or more than 6 feet, 1 inch, in length, from 17 to 19 inches in depth; and match other curbing in width.

(iii) Finish of curb inlets shall meet the requirements of Section 5.2.3.

(iv) Mortar shall conform to Section 5.2.2.c.

(v) Pointing shall conform to Paragraph 5.2.2.c.(iii)

Maynard

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

According to the Town of Maynard Rules and Regulations Governing the Subdivision of Land, Section V(A)(5):

"Both sides of all roads shall have a bituminous Cape Cod berm, twelve inches (12") wide with a six inch (6") rise, to be installed simultaneously with the top layer, except that where necessitated for traffic control, the Board may require sloped granite curbs of Type SB, set in a concrete base, instead. (Reference Figure 3). Vertical or sloped granite curbing may be required by the Board for areas where sidewalks sustain a heavy amount of pedestrian traffic, or where, in the opinion of the Board, this type of curbing is otherwise necessitated for safety, economic, aesthetic, or performance reasons."

Medfield

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Land Subdivision Rules and Regulations of the Planning Board of the Town of Medfield, Massachusetts, Section 5.2.1.5 Curbing.

a. Curbing required shall be sloped granite curbing with appropriate transition pieces to the granite inlet stones as shown on Plate 9A.

b. Granite curbing on a radius connecting to an existing street edge which has no berm must have a tapered end piece.

Medford

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

SECTION 8 REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION

8.25 Curbing

Vertical granite edgestone shall be set on both sides of all streets throughout the Subdivision. It shall be set on both sides of all streets throughout the subdivision. It shall have a minimum cross section of six by eighteen (6 x 18) and shall be set in gravel true to grade with a seven (7) inch reveal. Vertical granite curb corners shall also be set at all driveways.

[City of Medford, RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND ~ Revised through September 1991] obtained from ordinance.com

Medway

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

The Land Use Ordinance of Medway
NORFOLK COUNTY, MASSACHUSETTS
LAND SUBDIVISION RULES AND REGULATIONS

4.2 Streets and Road-ways

4.2.7 Curbs and Berms.

4.2.7.1 Vertical Granite Curbing shall be installed at intersection roundings, cul-de-sac entrances, catch basins (including transitions) and curb/driveways openings. The curb shall be installed with concrete block on both sides. Bituminous concrete Cape Cod style berms of six inches (6") in height having a four inch (4") reveal and twelve inches (12") in width shall be provided along each side of the roadway where vertical granite curbing is not required.

Melrose

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

According to Denise Gaffey, Planner City of Melrose, (6/23/04) the curbing requirement is reinforced concrete.

Survey received from Melrose on 4/22/05 state: "The sub regs require adherence to the 'current standards.' Currently we require granite."

Mendon

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Mendon Rules and Regulations for Subdivision of Land

"5.2.9. Curb and Edging

5.2.9.1. Straight granite curbing shall be a minimum of four (4) foot lengths. It shall be set with a six (6) inch reveal. The nose of the granite shall be set in a concrete base approximately six (6) inches square which shall abut against the binder course. The top course of paving shall cover the concrete and key the granite in place. All joints shall be mortared and no greater than one (1) inch in width. [Amended 12/29/97]"

Merrimac

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous

concrete or granite)

Bituminous

Town of Merrimac Rules and Regulations Governing the Subdivision of Land

SECTION VI REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION

...

D. Pavement and Revetments

...

3. Curbing

Vertical granite curbing, shall be required on all Principal Streets. It shall have a minimum cross section of 6" x 18" and shall be set in gravel true to grade with a 7" reveal, All curves with radii less than 100' shall be of granite but to the approximate required radius, Secondary streets shall have a similar granite curbing at all intersections, driveways, catch basins, fire hydrants, and on all curves less than 100' radius. Secondary streets shall have bituminous berms, precast berms, or granite sloped between the required vertical granite curbs.

Survey received from Merrimac in August 2005 marked the answer as "granite".

Methuen

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

City of Methuen Subdivision Rules and Regulations

5.3.7 CURBS AND BERMS

- (1) Vertical faced granite curb, type VA-4 shall be installed on all principal roads.
 - (2) Sloped granite edging shall be installed on all secondary roads.
-

Middleborough

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Middleborough Rules and Regulations Governing the Subdivision of Land

SECTION IV DESIGN STANDARDS

B. STREETS AND ROADWAYS

7. CURB AND BERM

C. GENERAL REQUIREMENT

Monolithic Cape Cod Berms shall be blended new material and placed along both sides of the roadway. (see Schedule F).

Middleton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Middleton Subdivision Rules and Regulations, Appendix-Street Construction Standards, (Last Amended 2001).

"5. CURBING

Each and every street shall be built with curbing as follows:

- a. All intersections shall have slope-faced granite curbing placed at all radii. The curbing shall have a twelve (12) inch depth with a six (6) inch face four (4) inches thick and a minimum of three (3) feet in length.
- b. Granite inlets shall be placed at all Catch Basins.

c. All handicapped ramps shall have granite curbing and be constructed as shown in diagram D-1 and D-2.

d. All other curbing shall be Cape Cod Berm. The approximate dimensions shall be 1 1/2" inches X 4 inches X 12 inches. It shall be placed on top of the Finish Course."

Milford *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Milford Rules and Regulations Relating to Subdivision of Land, Effective 2002

ARTICLE VI REQUIRED IMPROVEMENTS

FOR AN APPROVED SUBDIVISION

J. GRANITE CURBS (Revised 7/19/65)

Granite curbing meeting Massachusetts DPW specifications for type VC curb, or N.E. Fletcher Company type VS 5 x 16, shall be installed in accordance with Massachusetts DPW specifications along both sides of the traveled way, except when waived by the Board. Granite curb inlets and curb corner blocks of matching shade and finish shall be furnished at catch basins and driveways, respectively. Curb inlets set on radius of 160 feet or less shall be cut to the curve required.

Millbury *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Rules and Regulations Governing the Subdivision of Land in Millbury (Adopted 1980, Amended 2001)

Section 7: Design Standards

7.02 Streets and Ways

7. Curbing

Curbing shall be required to be installed on all collector streets, minor or subcollector, and lanes or cul-de-sacs in suburban, residential, business and industrial districts.

a. Along the entire perimeter of all turn-arounds.

b. Along all curves of street intersections.

c. All curves having a radius of sixty (60) feet or less at the street line or a central angle of thirty (30) degrees or more shall have the gutter line curbed with curbing both circular and straight to fit the curve, and the ends of the curve shall be extended by a straight section of curbing not less than five (5) feet long.

d. All sections of a street having a grade of three (3) percent or more shall have curbing. This curbing shall be continued from the ending of the three (3) percent grade to the location of the next set of catch basins on the downhill side of such grade.

Along any other street where, in the opinion of the Planning Board, curbs are necessary to handle run-off for that section of roadway or curbs are necessary for the maintenance of the pavement and the prevention of pavement edge raveling.

Curbing shall be constructed of granite, unless, in the opinion of the Planning Board, other material will be satisfactory.

The use of so called "Cape Cod Berms" or "Rolled Curbing" will be allowed only when, in the opinion of the Planning Board, such use will satisfactorily handle the problem for which curbing is to be installed, i.e. lateral support for the pavement edge, to prevent water seepage and runoff and to contain pavement base materials.

Millis *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Michael Giampitro, building inspector, said (8/4/04) that for a typical subdivision road, the requirement is bituminous concrete.

SECTION 5 DESIGN AND CONSTRUCTION STANDARDS

5.3 Curbing:

Bituminous concrete curb shall conform to the material and construction methods as specified in Section 470 of the Standard Specifications and as indicated on Figures 1A, 1B, and 1C. It shall be installed along both edges of all roadways (except at driveways). The full arc length of curves at intersections shall, however, consist of granite curbs, the materials and construction methods of which shall be in accordance with Section 500 of the Standard Specifications.

[Town of Millis, LAND SUBDIVISION RULES AND REGULATIONS - current through 2001] obtained from ordinance.com

Millville *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Millville SUBDIVISION REGULATIONS
SECTION V CONSTRUCTION QUALIFICATIONS
B. Completion of Roadways
4) Curbing - Vertical 6" Granite curb, new or used, shall be furnished and installed as specified by State Department of Public Works, and pre-approved by the Planning Board or its designee.

Milton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Rules and Regulations of the Planning Board of the Town of Milton, Massachusetts Governing the Subdivision of Land and the Laying Out of Ways, Section 7.4.4.2 (Adopted 1966, Amended 2004)

7.4.4.2 Curbing. Curbs shall be installed in accordance with the following minimum requirements and the construction specifications enumerated herein. Curbing shall be installed in accordance with the construction standards set out in "Standard Specifications for Highways and Bridges" as amended. The profile of the curb is subject to Planning Board approval. The construction methods and material specifications shall conform to "Standard Specifications for Highways and Bridges" as amended. "Type VA granite curbs as specified in 'Standard Specifications for Highways and Bridges' as amended shall be required on both sides of all roadways including the extension of same five feet beyond the P.C. of the curve of existing streets that the new street or streets intersect."

Nahant *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Nahant RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, 4.04

4.04 Curbs

A. All subdivision roadways shall be continuously bordered by granite curbs except at the intersection of driveways.

B. Granite curbing shall be Type VA, measuring six (6) inches wide at the top by eighteen (18) inches in depth. Curved vertical granite curbing shall be provided for curve radii of fifty (50) feet or less. Vertical granite curb inlets shall be provided at the back of all catchbasins.

C. Curb cuts for driveways shall not exceed the maximum width established in the Nahant Zoning Bylaw. Curb cuts for handicap access shall be provided where and as required by the rules and regulations of the Massachusetts Disabilities Act,

D. Materials and construction methods shall comply with Standard Specification Section 501, dated 1988 as amended.

Natick

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Natick Planning Board Subdivision Rules and Regulations, Section V.G (Adopted 1963, from ordinance.com, August 2004)

G. Curbing

1. Granite

All curves at street intersections and all curves having a radius not greater than one hundred and twenty-five (125) feet shall have the gutter line curbed with new granite curbing. Curved curbing is to extend from the point of curvature to the point of tangency. A straight piece of granite curb six (6) feet long is to be placed at both ends of all such curves.

The type of curbing will be uniform on opposite sides of the street and the curve of lesser radius will determine the type of curbing to be used. Granite curbing will conform to State Specification VA-4.

The trench for setting the curb shall be excavated so that it shall be eighteen (18) inches wide and its sub-grade at least twenty-four (24) inches below the finished curbing grade. Upon this sub-grade a foundation is to be made consisting of clean coarse gravel thoroughly rammed so that it will be at least six (6) inches when compacted. Upon this foundation the curbing is to be laid, the joints made as close as possible and all spaces under the curb filled with gravel and tamped so that the curbing will bear throughout its entire length and be at the line and grade required.

The trench on each side of the curbing is then to be filled to the sub-grade of the roadway and the sidewalk respectively with clean coarse gravel laid in four (4) inch layers, each layer thoroughly rammed and tamped under and around the curbing and the joints carefully pointed up, front and back with mortar made of equal parts of Portland cement and clean sharp sand. Clean gravel is then to be rammed against and up to a point six (6) inches below the top of the curbing on the sidewalk side.

Standard granite curb inlets shall be installed at the back gutter lines of all catch-basins.

2. Asphalt

All other gutters not curbed with granite will be curbed with bituminous concrete curbing, laid with an extruding machine. The shape of the extruded curb is to be approved by the Chief Engineer prior to the start of curbing work. The contractor must protect the new work until the asphalt has taken its permanent set.

Any damaged curb must be removed and replaced prior to the acceptance of the Development.

Needham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Subdivision Regulations and Procedural Rules of the Planning Board, Town of Needham Massachusetts, Section 3.3.6 - 3.3.8 (1993)

3.3.6 Granite or reinforced concrete curbing in accordance with the Town specifications shall be installed at the edge of the pavement on all streets in Business, Industrial, Industrial Park or Apartment Districts; on all streets where the street sideline is laid out on a curve of sixty feet or less radius and at all catch basin inlets.

Within all subdivisions the Planning Board, at its discretion, shall require that one of the following conditions be met:

- (1) Granite or reinforced concrete curbing be installed at all corners and street intersections, or
- (2) Bituminous concrete berms be installed at the edge of pavement in a continuous manner on all streets.

3.3.7 Bituminous concrete berms, as shown on the Standard Cross-Section, may be required on slopes of more than 5%.

3.3.8 Granite or concrete bounds, at least four feet long, shall be set at all points of curvature, points of tangency and angle points in every street or other permanent marks acceptable to and approved by the Town Engineer shall be set within the subdivision. After installation of such bounds, the developer shall submit to the Town Engineer a written certification by a registered land surveyor stating that said bounds are located as shown on the subdivision plans recorded in the Norfolk Registry of Deeds or in the Land Court.

Newbury *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Newbury Chapter 117, Subdivision of Land (Adopted 1961, Amended 2000)

Section 36. Granite curbing.
Sloped granite curbing shall be installed as edging on all paved roadways, at the back of catch basins, at roadway intersection roundings, and in other specific locations as determined by the Board.

Newburyport *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite City of Newburyport Rules and Regulations Governing the Subdivision of Land

6.9 CURBING:
Granite curbing shall be provided for the entire length of all new streets. On cul-de-sac turnarounds and at intersections with lanes, collector, or local streets, sloped granite curbing shall be required. Sloped granite curbing shall be required where road grades are over two (2) percent but less than six (6) percent. Vertical granite curb shall be required at the back of catch basins, on grades over six (6) percent, and at the intersections with arterial streets except that the Board may allow sloped granite curb in lieu of vertical granite curb at the back of catch basins or on grades over six (6) percent if the entire proposed street is being provided with slope granite curb.
Reference is made to details of "Typical Cross Sections, Curbing Construction Figure II.

Newton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite According to Daryl Azure, office engineer, Newton has a granite requirement for curbing. (6/28/04)

Norfolk *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite RULES AND REGULATIONS FOR SUBDIVISION OF LAND AND SITE PLAN APPROVAL

SECTION 5.0 - REQUIRED IMPROVEMENTS FOR SUBDIVISIONS

5.2. Streets and Roadways

5.2.8. Slant Granite Curbing

Slant granite curbing shall be required on both sides of all traveled ways and shall be set after the binder course is placed and before the top course is placed. A dribble berm and/or temporary cape cod berm, as appropriate, shall be installed at the time of binder course installation and shall be continuously maintained in working order until the final course of bituminous concrete is installed. Materials and construction methods shall conform with the relevant provisions of M.H.D. Standard Specifications M9.04.2 and in accordance with the procedures described herein. Certificates of Compliance shall be required in accordance with Subsection 5.17.

5.2.9. Curb and Edging

5.2.9.1. Slant/sloped granite curbing shall be four-foot minimum lengths, except where shorter length is dictated by radius. It shall be set on a compacted gravel bedding at a forty-five-degree angle with an appropriate reveal. The nose of the granite shall be set in a concrete base approximately six (6) inches square which shall abut against the binder course. The top course of paving shall cover the concrete and key the granite in place. Joints shall be mortared. Installation of the slant granite curbing shall precede the installation of the bituminous concrete binder course.

5.2.9.2. Materials and construction methods shall conform with the relevant provisions of Section 501 of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

North Andover *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of North Andover Massachusetts Planning Board Rules and Regulations Governing the Subdivision of Land, Appendix 1(B) (November 2000, Revised October 2001)

"B. CURBING

Curbing shall be vertical granite curb Type VB and sloped granite edging Type SB conforming to MHD Standard Specifications Section M9.04.1 and M9.04.2, respectively. Granite curb inlets shall conform to Section M9.04.5"

North Attleboro *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of North Attleborough Rules and Regulations Governing the Subdivision of Land (Amended 2004)

5.3 Curb and Berm.

5.3.1 General.

a. Granite curb shall conform to the material and construction methods as specified in Section 500 of the Standard Specifications for Type VA-4 and as indicated on Figures 1, 2, 3 and 4.

b. Bituminous concrete berm shall conform to the material and construction methods as specified in Section 470 of the Standard Specifications as indicated on Figures 1, 2, 3 and 4. Upright machined berm shall be prohibited.

5.3.2 In Type I subdivisions on minor streets upright granite curb shall be installed at all street intersections and at entrances to cul-de-sacs along the full arc length of the edge of roadway plus a straight section at least six (6) feet long beyond the P.C. and P.T. Sloped granite curbing shall be installed along each edge of the remainder of the roadway (except at driveways) unless otherwise required by the Board.

5.3.3 In Type II subdivisions, upright granite curb shall be installed along each edge of the roadway (except at driveways) unless otherwise required by the Board.

5.3.4 All driveways shall be paved six (6) inches above the base coat of the roadway. Locations of and finished elevations of driveways shall be set as shown on the definitive plan. All driveways shall be graded at the gutter line to direct stormwater runoff emanating from the roadway onto the roadway and away from building lots, unless otherwise specified on the definitive plan.

5.3.5 Transition curbing shall be provided at all beginnings and ends of vertical granite curbing.

North Reading *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Subdivision Rules and Regulations Town of North Reading, Section 350-27 (Adopted 1944, from ordinance.com August 2004)

350-27. Curbs and berms.

[Amended 7-8-1986]

Vertical granite curbs shall be provided (six inches in height) throughout each subdivision. A six-foot granite catch basin curb inlet shall be installed at each catch basin

Northborough *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous*

concrete or granite)

Granite

Northborough Subdivision Rules and Regulations

B. Curbing.

- (1) Granite curbing and granite guttermouths as required by these specifications shall be installed prior to paving.
 - (2) All granite curbstones shall be basically light gray in color, free from seams and other structural imperfections which would impair its structural integrity, and of a smooth splitting appearance. Natural color variations characteristic of the deposit from which the curbing was obtained will be permitted.
 - (3) All surfaces which are to be exposed shall be thoroughly cleaned, with all iron particles or rust removed by sandblasting or other satisfactory methods approved by the Board. All saw marks in excess of one-eighth (1/8) inch shall be removed.
 - (4) Inlet stones shall conform to the geometry and dimensions as shown in the current issue of the Massachusetts Department of Public Works Standard Specifications for Highways and Bridges.
 - (5) The top surface of stones shall be free from wind and shall be peen hammered or sawed to a true plane without projections or depressions greater than one-eighth (1/8) inch. The front and back arris lines shall be pitched straight and true. The back face of the inlet stone, for a distance of three (3) inches down from the top, shall have no depressions or projections which would exceed a batter of four-twelfths (4/12).
 - (6) The front face shall be at right angles to the plans of the top and ends, and shall be smooth quarry-split, free from drill holes and without projections greater than one (1) inch nor depressions greater than one-half (1/2) inch measured from the vertical plan of the face through the arris or pitch line for a distance down from the top of ten (10) inches. For the remaining distance, depressions or projections shall not exceed one (1) inch.
 - (7) The ends shall be squared with the top for their entire depth finished such that future butt joints formed do not exceed one-half (1/2) inch for the full width of the top and for ten (10) inches down on the face. The arris formed by the intersection of the plane of the end with the planes of the top and exposed faces shall have no variation greater than one-eighth (1/8) inch from the planes of the top and exposed faces.
 - (8) The guttermouth for inlet stones shall be cut in the front face of the stone to the geometry and dimensions as shown in the current issue of the Massachusetts Department of Public Works Standard Specifications for Highways and Bridges.
 - (9) Gravel borrow for bedding granite curbstones and their backing shall be furnished, placed and compacted in accordance with the provisions specified under gravel borrow. (See § 190-57.)
 - (10) Mortar used for bedding the inlet stones shall conform to the requirements specified under catch basins.
 - (11) All curb inlet stones shall be set in a full mortar bed on the supporting back walls of catch basins. Exposed surfaces of curb shall be kept clean and free from mortar and cement stains. The overhang on each side shall be sufficiently supported throughout by bedding in a thoroughly tamped gravel bed at least six (6) inches in depth and eighteen (18) inches in width.
-

Northbridge

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Northbridge Chapter 222 Subdivision Rules and Regulations (Adopted 1956, Amended 1998)

Table 1
Street Design Standard
Type of Curb
Minor, Secondary and Major Roads = V

V = vertical face, granite

§ 222-27. Curbing.

- A. Vertical granite curbing shall be provided along each side of the roadway throughout the subdivision and along the full perimeter of all islands as shown on the definitive plan. Granite curbing shall also be used around all median islands, around all turnaround islands, and as headers for all catch basins. Granite curbing shall be Type VA4 and conform MHD specification M9.04.0 and 9.04.1 and in accordance with the requirements of Curb, Curb Inlets, Curb Corners, and Edging (MHD Section 501). Curbing design is subject to approval from the Department of Public Works.
 - B. Granite curbing shall be installed at intersections of subdivision streets and existing public ways as follows: the curbing shall extend along the full length of the curb radius and then extend beyond that point for a minimum of six feet.
 - C. When curbed intersections involve one or more streets having grassed shoulders, the curbing shall be placed at the edge of the roadway, and the pavement on the street or streets with such shoulders shall be widened to the full width of the roadway (thus meeting the curb) within 50 feet of the intersection, tapering down to normal width within 75 feet thereof.
-

Norton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Norton Rules and Regulations Governing the Subdivision of Land

ARTICLE V: DESIGN STANDARDS

5.3 Street Width and Grade

Except where otherwise required by the Planning Board due to special conditions, all street shall conform to the Typical Cross-Section (appendix B) and to the following design criteria:

Curb Material

Minor: sloped granite

Local: sloped granite

Major: sloped granite

Norwell

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Rules and Regulations of the Norwell Planning Board, Section 4.13:

"CURBING:

Curbing or Cape Cod berms shall be installed at such points as may be required by the Planning Board. Granite curbing shall be required at all street corners along the circumference of the roadway for the full length of the rounded curve plus a straight section at each end at least six feet (6') in length. Curbing may also be required on both sides of streets where the grade exceeds three (3) percent. Additional areas may require curbing if in the opinion of the Board it would contribute to the proper control of drainage, traffic or pedestrian safety. Driveway curb cuts shall be at least eight (8) feet wide and have a curb return at the roadway of three (3) feet in radius.

Granite curbing shall be installed at the edge of the pavement wherever the street sideline is laid out on a curve of sixty (60) feet or less radius and at all drain catch basin inlets as specified in the Appendix.

Granite curbing shall be cut to the following dimensions: minimum length 6 feet, width at top 6 inches, depth 17 to 19 inches; minimum width at bottom 4 inches; projection above pavement 7 inches."

Norwood

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

The Rules and Regulations Governing the Subdivision of Land in the Town of Norwood, Section 5.8(Adopted 1991, Amended 2002) states that, "granite curbing shall be installed along both sides of all streets within subdivisions in the locations indicated in Plates 1, 2, 3, and 4. A gravel base shall be provided as indicated in Plate 6.

Depressed and sloped curb at driveways and sidewalk ramps shall

be as indicated in Plates 8 and 9. Granite curb inlets at catch

basins shall be as indicated in Plate 5."

Paxton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Paxton Rules and Regulations Governing the Subdivision of Land (Adopted 1987, Amended 2001)

4.3 Curbs and Berms

4.3.1 Granite Curb Inlet

A granite curb inlet of the dimensions given for granite curb inlet (Section M.9.04.5) shall be placed at each catch basin. Each such granite curb shall be six feet (6') in length, from seventeen to nineteen inches (17" - 19") in depth and six inches (6") wide at the top and bottom. The granite

curb inlet shall be transitioned at each end where necessary to the adjoining bituminous curb by the use of a granite vertical to sloped transition piece.

4.3.2 Bituminous Curb

Except where granite curbing has been required, the edges of a street shall be provided with a bituminous concrete low profile "Cape Cod" berm along both edges of the roadway for the full length of the street.

Peabody *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND City of Peabody, Section V.E. (ordinance.com)

E. Curbs

1. Straight face granite curbing of five inches (5") in height shall be installed in all subdivisions. Granite curb shall be type V A.4 or VB (Subsection M 9.04). In no case shall curb sections be less than six feet (6') in length.

- a. A six foot (6') granite curb inlet shall be installed at each catch basin.

Pembroke *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Pembroke Rules and Regulations Governing the Subdivision of Land (Amended 2000)

SECTION V - REQUIRED IMPROVEMENTS FOR APPROVED SUBDIVISION

E. CURBING

1. General

Curbing is required along both sides of all roadways and shall be one of the following types:

- a. Granite Curb - Type VA-5
- b. Bituminous "Cape Cod"

Pepperell *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Pepperell Rules and Regulations Governing the Subdivision of Land

"Section 238-19. Curbing.

Curbing is required and shall be of a mountable design granite with a minimum of four-inch base and minimum six-inch top and shall be seventeen (17) inches in depth at the rear and set on a minimum of six (6) inches of compacted bank gravel. When such curbing passes a catch basin, a granite curb inlet shall be put in place at the sidewalk side of the catch basin, and granite curbing shall be installed in such a manner as to blend into the ends of the curb inlet. [Amended 1/10/00]"

Plainville *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Plainville Rules and Regulations Governing the Subdivision of Land, Adopted 1971

9.5 Curbing

Curbing shall be installed where required (see Table 1-Street Design Standards). Granite curbing shall conform to Standard Specifications, Type H.E. Fletcher Co. Type VS 5 x 16. Radius curbing shall be used on curves of 100 feet or less, except that curb inlets shall be five (5) feet long and shall be cut to the curve required on curves of 160 feet radius or less.

Plymouth

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Plymouth Rules and Regulations Governing the Subdivision of Land

STREETS

406 Curbing

1. Curbing is required on both sides of all roadways and shall be vertical granite or slope granite.

Specifications for curbing, workmanship and method of setting shall conform to the requirements of these Rules and Regulations, and to the requirements of the Town Highway Department.

Plympton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Plympton Rules and Regulations Governing the Subdivision of Land

Section 5, E

CURBING AND BERMS

1. General

Curbing is required on one side of the roadway as it abuts the sidewalk and shall be one of the types specified under subsection D* as determined by the Planning Board except that granite curb shall be used in the following cases:

- a. All finished grades over six (6) percent. Vertical Granite - Granite curbing will be required on both sides of the roadway in this case.
- b. All headers for catch basins: vertical granite
- c. All street intersections along turning radii and extending six (6) feet tangent along each side of each roadway at the intersection.
- d. Approved types of curbing:

1. Sloped granite curb (See detail plate 5)

2. Granite curbing type VA 4 (See detail plate 6)

e. Terminal curb section. A tapered terminal curb section of vertical granite curb construction having a minimum length of four (4) feet and a tapered section two (2) feet in length will be required as the first and last stones along each section of granite curbing and adjacent to each separately placed curb inlet.

2. Cape Cod Berms will be required on all cul de sacs and in other locations as specified by the Planning Board. Berms shall consist of Class I bituminous concrete, Type I-1, and shall conform to the requirements for either top course or dense mix. All berms to be placed over a suitable foundation for support. (See Detail Plate 5A)

*D. SIDEWALKS AND BIKEWAYS

1. General

Two (2) sidewalks shall be required for all minor, major, and secondary streets. Bikeways shall be considered as separate from sidewalks and should be located according to Planning Board recommendations. Where bikeways and sidewalks are adjacent, the minimum right-of-way shall be twenty-five (25) feet. The profile dimensions and location of separately located sidewalks and bikeways shall be subject to the approval of the Planning Board. The grade shall be at least one (1) inch above curb elevation. Sidewalks and bikeways shall be in accordance with either specification (a) or (b) below.

a. Four (4) inch thick cement concrete, reinforced with #4, 4"x 6" mesh, 3000 lb. concrete, wood float finished, laid on a base of at least six (6) inches of well compacted bank gravel. An expansion joint (3/4" open) shall be provided at least every twenty (20) feet dividing joints shall be scored into walk every four (4) feet. Base gravel material shall be in accordance with the specifications outlined above for street construction, provided that no stone shall have a dimension in excess of 2 1/2". It shall be thoroughly compacted, using a sidewalk roller weighing at least two (2) tons. (See detail plate 4A)

b. Bituminous Concrete: The foundation shall be eight (8) inches of bank gravel as specified in (a) above (material and compaction). The wearing surface shall be laid in two (2) courses, a 1 1/2" binder course and a 1" top course, the thickness to be measured after compaction. The material and application shall conform to the specifications for roadway surfacing. All edges of the walks shall be formed with wood screens that are securely anchored and left in place. (See detail plate 4A)

Princeton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Princeton Rules and Regulations Governing the Subdivision of Land (1996)

SECTION V. REQUIRED IMPROVEMENTS FOR AN APPROVED SUBDIVISION

E. Curbs and Berms

1. Bituminous concrete berms and curbs of six inches (6") in height shall be provided along each side of the roadway except that granite curbs of the same height and of type VA 4 (Subsection M9.04) shall be provided:

- a. At intersections along the roadway the distance of the arcs of the curves plus a straight section at each end of eight feet (8'), and
- b. On the inner side of all curves with a radius less than two hundred and fifty feet (250').

Quincy

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Dennis Harrington, Director of Planning, (8/17/04) said that there is a granite requirement.

Randolph

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Randolph Subdivision Rules and Regulations, Section 3.7.6.

3.7.6 Granite or concrete curbing shall be installed at the edge of the pavement wherever the street sideline is laid out on a curve of less than sixty feet radius and at all drain catch basin inlets in accordance with the Town specifications or as directed by the Board and shall include handicapped ramps as required by the Rules and Regulations of the State Architectural Barriers Board. Curbing shall not be required for curves on cul-de-sacs.

Survey received from Randolph on 3/24/05:

"Granite vert. face"

Raynham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Raynham Rules and Regulations Governing the Subdivision of Land (Adopted 1955, Amended 1999)

8.6 Curbing

1. Curbing shall be installed along each edge of all streets. Curbing shall be type SB-slope granite curbing and shall be set on a foundation of not less than twelve (12) inches of gravel free from foreign material, Mass spec. M9.04.1 Type VA3 (or its successor)
2. Standard upright granite curbing, M.D.P.W. V.A.-4 (or its successor) shall be installed at all intersections. (see Appendix IV).
3. Granite inlets shall be installed at all catch basins with curb throat inlets meeting Mass Spec M9.04.5 (or its successor) with 6 foot long transition stones on each end of inlet.
4. Granite curbing shall be installed on all streets.
5. The ends of curbing are to be flared down where the proposed curbing does not abut an existing curbing.
6. The curbing for wheelchair ramps shall be constructed at all intersections in accordance with the design standards of M.D.P.W. and Americans with Disabilities Act (ADA) requirements.

Reading *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Reading Subdivision Rules, Section 7.1.7. Curbing.

- a. Vertical granite curb shall be used throughout the subdivision. It shall be Type VA-4 as defined in the 1988 Commonwealth of Massachusetts Department of Public Works "Standard Specifications for Highways and Bridges."
 - b. Granite curb inlets shall be provided at all catch basins.
 - c. Granite curb corners (Type B) shall be provided at all driveways.
 - d. Granite transition curb shall be provided at all wheelchair ramps.
-

Rehoboth *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Survey received from Rehoboth on 5/11/05:

"Bituminous or Granite"

Rules and Regulations Governing the Subdivision of Land in the Town of Rehoboth (Adopted 1947, Amended 2001)

"603 Curbs and Beans

603.1 Curbs and berms may be required on both sides of all roadways. Type VA-4 Granite or Type VA concrete curbs as specified in Section F of "Standard Specifications for Highways and Bridges" - as amended shall be used under the following conditions:

- (1) All finished grades over 6%.
- (2) All headers for catch basins.
- (3) All street intersections on the curve and extending 6 feet tangential to the point of curvature and point of tangency along the side line of roadway at the intersection.

603.2 Curbing shall be installed in accordance with the construction standards put forth in section F 1.30 - F 1.34 of "Standard Specifications for Highways and Bridges" - as amended."

Revere *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Concrete City of Revere, Rules and Regulations Governing the Subdivision of Land, Appendix, Figure 1 and 2:

The answer is based on the Figure in the Appendix showing Minor streets with a bituminous curb. Principal streets have a granite curb.

Figure is posted on ordinance.com.

Survey received from Revere on 3/28/05: "Concrete"

D. Boundary Marks and Monuments

The Board shall not approve a Definitive Plan unless the plan includes the installation of monuments of stone or concrete at all intersections of streets with each other or tract boundary lines and at all lines of streets where there is a change in direction or curvature. Such monuments shall conform to the standard specifications of the Massachusetts Land Court and shall be set according to such specifications.

Rockland

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Rockland Subdivision Rules and Regulations, Section IV (d)(1)(Adopted 1990, Last Amended 2001).

"D. Completion of the Roadway

1. Curbing

Curbing shall be provided along both sides of the way and shall be either pre-cast concrete, or granite. Granite curb shall be provided at all street intersections along the curve between points of tangency. When a road in a subdivision intersects with an existing roadway that does not have curbing, a six (6) foot section of granite curbing, which slopes down to existing ground, will be provided on both sides of the intersection along the existing street. Pre-cast concrete curb shall conform to Section M4.02.14 of the Standard Specifications. Granite curb shall conform to material and construction methods of Section M9.04.1 for type VA4 curb of the Standard Specifications."

Rockport

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Three options available, subject to specification of the Department of Public Works.

Town of Rockport Rules and Regulations Governing the Subdivision of Land

"5.6 CURBING

Curbing is required lining both sides of all roadways and shall be one of three types:

- (a) rolled bituminous berm (to be used only at driveway entrances.)
- (b) vertical granite curb, Type VB-1
- (c) slope-edge granite

(ALL AS SHOWN ON PLATE 3)

Specifications for curbing, workmanship, and method or setting shall conform to the specification of the Department of Public Works. All curves having a radius of sixty (60) feet or less at the street line, and a central angle of forty-five (45) degrees or more, and which meet one or more tangents, shall have the gutter line curbed with circular granite curbing cut to fit the curve."

Rowley

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Rowley Rules and Regulations Governing the Subdivision of Land

5.7. Curbs

5.7.1. Unless otherwise specified by the Planning Board, granite curbs of the dimensions given for GRANITE CURB (Section M9.04.1) Type VA4 in the Standard Specifications shall be provided in the following locations, and shall be installed in accordance with the construction methods outlined under CURB, CURB INLETS, CURB CORNERS AND EDGING (Section 501).

5.7.1.1. Minor and Secondary Streets

- a) At intersections along the paving edge the distance of arcs of the curves plus a straight section at each end of eight (8) feet.

b) Along each edge of the roadway where the grade exceeds five (5) percent unless in the judgment of the Highway Surveyor the grade is such that a curb on one (1) side is sufficient.

c) Along each edge of the roadway on all curves with a radius of less than two hundred and fifty (250) feet.

5.7.1.2. Major streets and all streets in a non-residential subdivision. a) Along each edge of the roadway for the full length of the street.

5.7.2. Except where granite curbing has been required, the edges of all minor and secondary streets shall be provided with a bituminous concrete berm along both edges of the roadway for the full length of the roadway. Unless otherwise approved by the Planning Board on the Definitive Plan, the Bituminous Concrete Berm shall be Type A, installed in accordance with the requirements of CURB AND EDGING (Section 500) of the Standard Specifications and Figure 112.10 of the Construction Standards (see Section 5.1.2. above).

Salem *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite According to the City of Salem, Rules and Regulations Governing the Subdivision of Land, Section IV Design Standards, (A)(3), (2001), Right of Way Improvements Policy, there is a six inch granite requirement for curbing in a subdivision in excess of six lots.

Salisbury *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Salisbury Rules and Regulations Governing the Subdivision of Land

SECTION V DESIGN AND CONSTRUCTION STANDARDS

C. Curbing.

Curbing required in Section VI-C shall be either standard granite or precast concrete, at the election of the subdivider, except in Type III subdivisions where standard granite curbing shall be required.

Saugus *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite TOWN OF SAUGUS RULES AND REGULATIONS
GOVERNING THE SUBDIVISION OF LAND, Section 5.5(February 1998)

5.5 Curbing

The Planning Board requires the use of vertical granite curbing throughout subdivisions of more than two homes. At a minimum, sloped granite curbs shall be required at all intersection points of ways. Curved vertical or sloped granite curbing shall be provided for curve radii of fifty feet (50') or less. Vertical granite curb inlets shall be provided at the back of all catch basins when placed between granite curbing.

All curbing shall be installed and prepared in accordance with Massachusetts DPW "Standard Specification for Highways and Bridges, 1988 ed." and as amended.

Scituate *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Scituate Subdivision Rules and Regulations, Section 7.2.1(8)(as amended 2003):
Curbing

a. In Type II, Type III and Type IV subdivisions, vertical granite curbing shall be installed along each edge of

the roadway in all streets.

b. In Type I subdivisions, granite curbing shall be installed at intersections of all streets along the circumference of the roadway for the full length of the rounded curve plus a straight section at each end of at least six (6) feet in length.

A Cape Cod berm shall be provided wherever no curbing is provided.

According to Town of Scituate Subdivision Rules and Regulations, Section 2.0 (as amended 2003):

Subdivision, Type I: A subdivision in which the area and width at the building setback line of each lot equals or exceeds forty thousand (40,000) square feet and one hundred seventy-five (175) feet respectively, or where, in the opinion of the Board, the predominant lot area and average lot width equals or exceeds said amounts.

Subdivision, Type II: A subdivision in which the area and width of each lot equals or exceeds twenty thousand (20,000) square feet respectively, or where, in the opinion of the Board, the predominant lot area and average lot width equals or exceeds said amounts.

Subdivision, Type III: A subdivision in which the area and/or width of lots is less than for a Type II subdivision.

Subdivision, Type IV: A subdivision in which the area being subdivided is zoned for business, commercial and/or industrial purposes.

Seekonk

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Seekonk Rules and Regulations Governing the Subdivision of Land

SECTION VIII CONSTRUCTION OF WAYS AND INSTALLATION OF UTILITIES

8.6 Curbing

1. Curbing shall be installed along each edge of all streets. Bituminous concrete curbing shall be M.D.P.W. Type I-1 (machine installed; see Appendix III). Curbing shall be set at a profile grade and be set on a foundation of not less than twelve (12) inches of gravel free from foreign material.
2. Standard granite curbing, M.D.P.W. V.A-4 shall be installed at all intersections (see Appendix IV).
3. Granite or reinforced concrete inlets shall be installed at all catch basins.
4. Granite or precast concrete curbs shall be installed on all streets with slopes greater than six (6) percent, on all non-residential collector streets.
5. The Planning Board may approve poured on site concrete curb where conditions warrant a waiver.

Sharon

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

RULES AND REGULATIONS
GOVERNING THE SUBDIVISION OF LAND

SHARON, MASSACHUSETTS

4.2.7. Curb and Berm

4.2.7.1. General Requirements

Curbing shall be placed along both sides of the roadway. Granite Curbing Type VA4 Type VB with six inch (6") reveal is required, installed as per Massachusetts Department of Public Works Specification M9.04.1 B.. Curbing shall be placed after the binder course and before the finish course of bituminous concrete. See Schedule N.

Sherborn

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

According to Gino Carlucci, Town Planner in Sherborn, Sherborn uses a type of bituminous concrete called Cape Code Berm which is a sloped style. (6/21/01)

5.3.7. Curbs and Berms

- a. Sloped granite edging shall be installed at all street intersections on the curve and extending at least eight (8) feet beyond the tangent point. The method at installing the edging shall conform to the Standard Specifications.
 - b. Sloped granite edging segments at least eight (8) feet in length shall be installed at all catch basins so as to extend not less than four (4) feet in either direction from the catch basin center line.
 - c. Unless otherwise specified by the Board, the Cape Cod type berm as shown on the Typical Section, Subdivision Street (Schedule A) shall be installed along all streets where sloped granite edging is not required .
-

Shirley

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Shirley Rules and Regulations Governing the Subdivision of Land

4.9.4 Curbing

Both sides of all roads shall have a sloped granite curbing with 6 inches exposed at finish grade. This curbing will be installed after the binder course has been placed. All granite curbing shall be as addressed in section 500 (curbing and edging) Massachusetts Highway Department Standard Specifications for Highway and Bridges. The following sections shall be used in all installations: 501.20 General Description, 501.40 Materials, 501.610, 501.61, 501.62 Construction Methods. Where open swale drainage is employed, curbs may be waived.

Shrewsbury

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Shrewsbury Rules and Regulations Governing the Subdivision of Land (Adopted 1973, Amended 2002)

SECTION V REQUIRED IMPROVEMENTS AND CONSTRUCTION PROCEDURES FOR AN APPROVED SUBDIVISION
B. Street and Roadway

6. Granite curbing, type VB, shall be installed on both sides of the roadway in conformance with Massachusetts Department of Public Works Standard Specifications for Highways and Bridges.

Somerset

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous

concrete or granite)

Bituminous

Town of Somerset Rules and Regulations Governing the Subdivision of Land (Adopted 1954, Amended 1999)

7.1.5 TABLE OF STREET DESIGN

Curb requirements: Cape Cod berm for local and minor roads and vertical granite for collector roads.

Somerville

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Southborough

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Rules and Regulations Governing the Subdivision of Land in the Town of Southborough, Massachusetts, Section 244-22 (adopted 1986):

Curbs and berms.

A. Straight or radial granite curbing, Type VO or VB (see Standard Specifications) with a seven-inch initial reveal of exposed face above gutter shall be installed at street corner roundings and roadway curves as specified in the Table located at the end of these regulations at all catch basin curb inlets, and where the roadway grade exceeds six percent (6%), as specified in said Table.

B. Rolled bituminous curbing or Cape Cod berm shall be installed where required to minimize erosion and damage to grass plots; see the table located at the end of these regulations. Bituminous curbing shall extend twelve (12) inches beyond the roadway and shall slope down toward the gutter three (3) inches in twelve (12) inches. Other cross-sectional shapes may be authorized by the Board or the Superintendent of Highways.

Sterling

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Sterling Subdivision Rules and Regulations

4000. REQUIRED IMPROVEMENTS

4540. Curbing and Berms.

Bituminous concrete berms shall be installed on both sides of all roadways in conformity with the "typical roadway cross-section," appended hereto, except where waived by the Board where open drainage systems are being relied upon, and except at intersections with state-numbered highways or collector streets, where sloped granite curbing will be required.

Stoneham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Stoneham requires granite curbing on all of its subdivision roadways.

The Land Use Ordinance of Stoneham (Town of)
MIDDLESEX COUNTY, MASSACHUSETTS
CHAPTER 17 SUBDIVISION
ARTICLE II. APPROVAL OF SUBDIVISIONS

Sec. 17-6. General requirements.

(p) Curbing. V.A.4 18" x 6" granite curbing shall be required on both sides of all roads within the subdivision.

Stoughton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous According to William McDowell, assistant town engineer, Stoughton requires Cape Cod Berm and also requires granite in intersections. (6/28/04)

Stow *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Stow Subdivision Rules and Regulations, Section 8.6 (Last Amended 2001).

"8.6 Curbs

A continuous, low-profile, modified Cape Cod berm shall be provided as an integral part of all new streets as a minimum. The Board may require alternate curb materials depending on local conditions and the purpose of the curb.

8.6.1 Sloped granite curbs, type SA as defined in section M9.04.2 of the Mass. D.P.W. Standard Specifications for Highways and Bridges shall be required as follows: At the point of intersection with the existing road and at intersections along the roadway for the distance of the arcs of the curve plus a straight section at each end of at least eight feet

(8') in length, and surrounding street islands or chokers within streets including landscaped islands in cul-de-sac streets.

8.6.2 Reference is made to "Modified Cape Cod Berm", "Sloped Granite Curb" and "Vertical Granite Curb" details contained within the Appendix of these Rules. "

Sudbury *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite PLANNING BOARD
TOWN OF SUDBURY, MASSACHUSETTS
RULES AND REGULATIONS
Governing the Subdivision of Land
Adopted September 10, 1973
Latest Revision January 26, 1999

SECTION VI IMPROVEMENTS IN SUBDIVISIONS

O. Curbing and Guard Rails

1. Curbs: Approved granite curbing sealed to the road pavement shall be required around all cul-de-sacs and at all street corners along the circumference of the roadway for the full length of the rounded curve plus a straight section at each end of at least six (6) feet in length. Granite curbing shall also be required on both sides of the streets where the grade exceeds three percent (3%). Additional areas may require curbing if in the opinion of the Board it would contribute to the proper control of traffic, surface water flow, or to pedestrian safety. The Planning Board may waive the requirements for granite curbing in some areas and in its place require a flaring of the pavement. For dimensional details see the "Typical Street Cross-Section" plan in the Appendix of these Rules and Regulations.

Sutton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Sutton Subdivision Rules and Regulations (Amended 2004)

SECTION 5 REQUIRED IMPROVEMENTS FOR A NEW SUBDIVISION G. CURBING

1. Curbing shall be provided along each side of all roadways and shall be granite.

Swampscott *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Rules and Regulations Governing the Subdivision of Land in the Town of Swampscott, Section V(49)(63)

"Granite curbs and gutters shall be installed not closer than twenty-eight feet face to face. Curb and gutter shall be installed in conformity to standards of the Massachusetts Department of Public Works, Section F-1, Commonwealth of Massachusetts Department of Public-Works Specifications 1953, Type VA-1."

There is no other reference to curbing in the rules and regulations.

Swansea *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Swansea Subdivision Rules and Regulations

"6.202 Curbing

Curbing for residential minor streets shall be Cape Cod Berm. For residential principal streets, cluster subdivisions and commercial developments the curbing shall be granite (vertical or sloped) or concrete (precast or cast in place)."

Taunton *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous City of Taunton Rules and Regulations Governing the Subdivision of Land

406 CURBING AND EDGING

1) Curbing or edging is required on both sides of all roadways, and shall be one of the types specified under 2) Below, except that granite curbing shall be used for:

- A) All headers for catch basins;
- B) All street intersections on the curve, and extending six (6) feet tangential from the point of tangency along the side of each roadway.

2) Approved types of curbing or edging (See Appendix A, Plates 2,3,4,5,6 and 7)

A) Sloped granite edging is the approved edging on the sidewalk side and at intersection curve.

B) Bituminous concrete berm, (see Appendix A, Plate 3), is the approved edging where no sidewalk is proposed, except at intersection curves.

Under no circumstances will monolithic berm be accepted. The berm shall be constructed as a separate operation. Specifications for curbing or edging, workmanship and method of setting shall conform to the requirements of these rules and regulations, and to the requirements of the City of Taunton.

3) Curb openings for wheelchair ramps are required at all intersection radii in conformance with the Americans with Disabilities Act and Architectural Access Board regulations

Tewksbury

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Tewksbury Subdivision Rules and Regulations, Section 9.4 (Adopted 1998, Last Amended 2003).

"9.4 CURBS

9.4.1 A continuous, low-profile, Cape Cod berm shall be provided as an integral part of all new streets. The Board may require alternate curb materials depending on local conditions and the location and purpose of the curb."

Topsfield

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Topsfield Rules and Regulations Governing the Subdivision of Land, Section 5.3 Curbing

"Bituminous concrete berm shall conform to the materials and construction methods as specified in Section 470 of the Standard Specifications and as indicated on Plates 1 and 2. It shall be installed along both edges of all roadways in Type 11 subdivisions, except at driveways. The full arc length of curves at intersections shall, however, consist of granite curbs, the materials and construction methods of which shall be in accordance with Section 500 of the Standard Specifications. The Board may require that it also be installed along one or both sides of all roadways in Type I subdivisions if in the opinion of the Board, it is warranted by the character of the area and pedestrian use. It is recommended that "Cape Cod" style berm be installed where berms are required."

Townsend

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Townsend Rules and Regulations for Subdivision Control

§175-17. Construction standards for required improvements.

E. Curbing.

(1) All ways shall have the gutter lines for their entire length curbed with cement concrete, bituminous concrete or granite curbing to protect adjacent land from erosion, facilitate cleaning and prevent encroachment of vehicles. Bituminous concrete curbing shall be constructed and conform to the then current standard mould specifications for bituminous concrete curbing by the Superintendent of Highways. No deviation from such specifications shall be made without special and specific permission, in writing, of the Planning Board.

(2) The Planning Board may require the installation of cement concrete or granite curbing within a subdivision or any part thereof when in its opinion such type curbing is reasonably necessary to prevent damage thereto by snow removal equipment, or any other type of equipment or vehicles, for the public interest.

(3) Standard cement concrete or granite curb inlets shall be installed at the back gutter line of all catch basins, unless otherwise designated by the Town Highway Superintendent and Planning Board.

F. Curbing and curb inlet requirements shall conform to the standard specifications of the Highway Superintendent of the Town. Bituminous concrete curbing shall not be laid until the subbase has been inspected by the Superintendent of Highways or the Town Engineer or their designated representative.

Survey received from Townsend Planning Board on 5/20/05 marks: "varies"

Tyngsborough

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Tyngsborough Planning Board Subdivision Rules and Regulations (Approved 1987)

Section VII, 2. Curbing

Sloped granite curbing shall be installed in accordance with the construction specifications of the Planning Board's typical road cross section for residential and secondary roads. The curbing shall be of the vertical type for primary roads.

- a. Along the entire perimeter of all roadways.
 - b. The granite curbing shall be installed prior to installation of finish course of bituminous concrete pavement.
-

Upton

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Town of Upton Rules and Regulations Governing the Subdivision of Land (Adopted 1970, Amended 2000)

SECTION IV. DESIGN STANDARDS

B. Curbs and Gutters

5. Curbs shall be sloped granite curbing that is five inches [5"] by eighteen inches [18"].

Uxbridge

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

None

Town of Uxbridge, Rules and Regulations Governing Subdivision of Land SECTION 5 Street and Roadway Requirements and Specifications.

C. Street and Roadway Specifications

8. Curbing shall be required as specified by Planning Board.

Wakefield

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

According to Paul Reavis, Wakefield Town Planner, (7/1/04) the typical curbing is granite. This information was confirmed by Katie in the engineering department.

Walpole

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

Walpole Subdivision Rules and Regulations, Section V.7(Last Amended 2001).

"(b) In all subdivisions granite curb Type VA-4 shall be installed at intersections and at the entrances and exits or cul-de-sacs along the circumference of the roadway for the full length of the rounded curve plus a straight section at each end at least six (6) feet long. Granite curb Type VA-4 shall also be required along the full outside circumference of the roadway of all permanent cul-de-sacs."

Waltham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Granite

According to the Land Rules and Regulations of the Board of Survey and Planning of the City of Waltham, Section 5.8 (adopted 1997), curbing is required on both sides of all road ways and shall be vertical granite curb.

Type VB (5" x 18") as shown on the typical street sections in the appendix. Specifications for curbing, workmanship, and method of setting shall conform to the specifications of the Massachusetts Department of Public Works, All curves having a radius of one hundred (100) feet or less at the street line, and a central angle of forty five (45) degrees or more, and which meet one or more tangents, shall have the gutter line curbed with circular granite curbing cut to fit the curve.

Wayland

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

TOWN OF WAYLAND SUBDIVISION RULES AND REGULATIONS, 5.B.3

3) Curbs and Berms

Curbs and berms shall be installed in accordance with the following minimum requirements and the construction specifications enumerated herein.

Town of Wayland

Subdivision Regulations September 4, 2001

27

Curbing shall be installed in accordance with the construction standards put forth in "Standard Specifications for Highways and Bridges" -- as amended. Bituminous concrete berms shall be installed on top of the binder course of the pavement. The profile of the berm is subject to Planning Board approval. The construction methods and material specifications shall conform to "Standard Specifications for Highways and Bridges" -- as amended. The "Cape-Cod Type" berm shall be used where granite or bituminous berms are not required.

Primary Streets

Type VA-4 granite curbs as specified in "Standard Specifications for Highways and Bridges" -- as amended shall be required on both sides of all roadways.

Secondary Streets

Type VA-4 granite curbs as specified in "Standard Specifications for Highways and Bridges" -- as amended shall be required under the following conditions:

- a) all finished grades over 4%;
 - b) all curb inlets for catch basins;
 - c) all street intersections on the curve and extending 6 feet beyond the tangent points;
- and
- d) on all inside curves wherever the interior angle is less than 110 degrees.

Residential and Limited Residential Streets

Bituminous concrete berms shall be required on all finished grades over 5%. Type VA-4 granite curbs as specified for secondary streets above shall be required on:

- a) all curb inlets for catch basins;
 - b) on all street intersections on the curve and extending 6 feet beyond tangent points;
- and
- c) on all inside curves wherever the interior angle is less than 110 degrees.
-

Wellesley

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Wellesley Rules and Regulations Governing the Subdivision of Land in Wellesley, Section VII. F. (Adopted 1993)

F. Curbing

All ways within a subdivision shall have the gutter lines for their entire length curbed with bituminous concrete spill berm 2"-3" reveal installed in accordance with the requirements of the Board of Public Works;

the Planning Board shall require bituminous concrete curbing 4" (Cape Cod Type) or 6" reveal, where deemed necessary in order to protect the adjacent land from erosion, to facilitate cleaning, for traffic control, drainage control or to conform to abutting streets; when bituminous concrete curbing is specified it shall have polyester fiber added at the rate of 5 lbs. per ton;

the Planning Board shall require vertical granite curbing 6" X 18" at intersection roadway roundings, grades in excess of 6 percent and other areas subject to abuse from heavy traffic, trucks, and snow plows;

sloped granite curbing (4" X 12") shall be installed around cul-de-sac center landscaped islands.

Bituminous Concrete curbing shall not be laid until the sub-base has been inspected by the Town Engineer or designate.

Granite curb inlets conforming to the standards of the Board of Public Works shall be installed at the back gutter line of all catch basins, unless otherwise designated by the Planning Board and the Board of Public Works.

Wenham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

As listed in the Town of Wenham Rules and Regulations Governing the Subdivision of Land, Section 4.2 (Adopted 1984, Last Amended 2001)

"4.2. CURBS AND BERMS

4.2.1. Unless otherwise specified by the Planning Board granite curbs of the dimensions given for Granite Curbs (Section M9.04-1) Type VA4 shall be Provided according to Schedule F in the following locations:

4.2.1.1. Arterial streets and all streets in a non-residential subdivision.

4.2.1.1.1. Along each edge of the roadway for the full length of the street.

4.2.1.2. Collector and Local and Local Modified Streets

4.2.1.2.1. At intersections along the paving edge the distance of arcs of the curves plus a straight section of eight feet (8') at each end of said arcs.

4.2.1.2.2. Along each edge of the roadway where the grade exceeds two percent (2%) unless, in the judgement of the Superintendent of Streets, the terrain is such that one (1) side is sufficient.

4.2.1.2.3. Along each edge of the roadway on all curves with a radius of less than two hundred and fifty feet (250').

4.2.2. Except where granite curbing has been required, the edges of all Collector and Local Streets shall be provided with a bituminous concrete berm along both edges of the roadway for the full length of the roadway."

West Boylston

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

From West Boylston's Rules and Regulations Governing the Subdivision of Land, Section VII(D):

"CURBS

1. Curbing is required on both sides of all roadways with piped drainage systems and shall be one of the types specified by the Planning Board except that type VA43 granite curb shall be used in the following cases:

a. All finished grades over 6%.

b. All headers with transition section at each end for catch basins.

c. All, street intersections along turning radii and extending 6 feet tangent along each side of each roadway at the intersection.

2. Approved types of Curbing:

- a. Sloped granite edge stone type SB (see Plate 5).
- b. Granite curbing type VA4 (see Plate 5).
- c. Bituminous concrete berm "Modified Cape Cod Berm" (See Plate 7).

3. Terminal Curb: tapered terminal curb section of vertical granite curb construction having a minimum length of 4 feet and a tapered section 2 feet in length will be required as the first and last stones along each section of granite curbing and adjacent to each separately placed curb inlet."

West Bridgewater *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite

The Land Use Ordinance of West Bridgewater
PLYMOUTH COUNTY, MASSACHUSETTS
RULE AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND
SECTION 4.0 REQUIREMENTS
4.2. Streets and Roadways

4.2.7. Curb and Berm

4.2.7.1. General Requirement

Granite sloped curbs of the same height and of type VA-4 (Subsection M9.04) shall be provided with concrete front and rear.

4.2.7.2. Curb Cuts

- (a) Driveways in subdivisions containing one (1) and/or two (2) family dwellings only shall be at least ten feet (10') wide and shall have an opening of at least sixteen feet (16) at the gutter line.
- (b) Driveways for multiple dwellings and all non-residential uses shall be at least sixteen feet (16') wide and shall have an opening of at least twenty feet (20') at the gutter line.
- (c) Where rolled curbs are to be used, the driveway flare should have a three-foot (3) radius. Driveway cuts shall not be within sixty-five feet (65') of the intersection of the centerline of intersecting streets.
- (d) At all driveways the grade at the back of the sidewalk shall be six inches (6") higher than the grade at the gutter line.
- (e) At every curb step down there shall be a ramp three feet (3) wide adjacent to the granite curb section and meet ADA specifications.

West Newbury *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous

Town of West Newbury, RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND
SECTION 5.0. REQUIRED IMPROVEMENT FOR AN APPROVED SUBDIVISION 5.5. Curbs and Berms

5.5.1. Bituminous concrete berms and curbs of six (6) inches in height shall be provided along each side of the roadway except that granite curbs shall be provided:

5.5.1.1. At intersections along the roadway the distance of the arcs of the curves plus a straight section at each end of eight (8) feet. Granite curb shall be type VA4 (Subsection M9.04).

5.5.1.2. Along each edge of a roadway where the grade exceeds five (5) percent.

5.5.2. on the inner side of all curves with a radius less than two hundred and fifty (250) feet the elevation of the curb shall be seven (7) inches higher than the gutter line.

5.5.3. In the event that the Planning Board waives curbs and berms, paved gutters shall be provided along each edge of the roadway where the

grade exceeds three (3) percent.

5.5.4. The profile of the berm is subject to Planning Board approval.

Westborough *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite

Town of Westborough RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND SECTION V REQUIRED IMPROVEMENTS AND CONSTRUCTION PROCEDURES FOR AN APPROVED SUBDIVISION

C. Street and Roadway

7. Berms shall be granite vertical curbing for the entire length of the roadway unless otherwise approved by the Planning Board and Department of Public Works Manager. Granite curbs shall be in conformance with Massachusetts Department of Public Works Standard Specifications, Specification M9.04.1, Type VA4. At intersections with existing streets, granite curbing shall extend the distance of the arcs plus a straight section of eight (8) feet along the existing pavement. All curbing shall be finished to six (6") inches in height.

Westford *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite

Town of Westford Subdivision Rules and Regulation, Section 218.15 (f) (Adopted 1981, Last Amended 2004)

"F. Sloped granite edging is to be installed as shown in figure B, except in areas where curb radius is less than forty (40) feet (12.2 meters). [Added 6-2-97; Amended 6-5-00]"

Weston *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

None

Curbing is only required where the grade is more than 4%, and then it must be granite.

Town of Weston Planning Board Rules and Regulations Article IV, 4.02 (Adopted 2002, Amended 2002)

The traveled way shall be centered on the center line of the street and the paved surface thereof shall be not less than 24 feet in width. Along each side of the paved surface a four-foot wide shoulder shall be constructed at grade, as shown on Exhibit A. Granite edging, type VA-4, shall be installed at edges of pavements where the longitudinal slope of the street exceeds 4%, at street intersections and elsewhere as required by the Board. Each shoulder shall be graded with topsoil satisfactory to the Board to a depth of four (4) inches and shall be seeded either with a permanent grass mixture rolled, fertilized, watered, mowed and maintained until approved by Town Engineer or otherwise covered with a ground cover material satisfactory to the Board.

Town of Weston Planning Board Rules and Regulations Article IV, 4.11 (Adopted 2002, Amended 2002)

4.11 Pedestrian Easements

Easements for pedestrian ways will normally be required to provide convenient circulation or access to schools, playgrounds, shopping areas, churches, transportation, parks, conservation areas and/or other facilities, and shall consist of an easement at least 20 feet wide.

Westwood *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite

Westwood Subdivision Rules and Regulations, Section V. IMPROVEMENTS IN RESIDENTIAL SUBDIVISIONS, Subsection F (Revised 1998)

F. Curbing

"Standard granite vertical curbing (Type VA4.) shall be installed along each edge of the roadway in all streets."

Weymouth

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Rules and Regulations Governing the Subdivision of Land in the Town of Weymouth, Section 6.10:

6.10. Curbs

6.10.1. A bituminous concrete berm - Type "A", as defined in MDPWCS, commonly referred to as a "Cape Cod berm". shall be provided along each side of all minor streets except as noted in Section 6.10.3. below.

6.10.2. Cement concrete curbs of six (6) inches in height shall be provided along each side of all secondary and major streets except as noted in Section 6.10.3. below.

6.10.3. Granite curbs of six (6) inches in height and of type VA4, as defined in MDPWSS, Section M9, shall be provided on all roadways where any of the following conditions are present:

At intersections along the roadway the distance of the arcs of the curves plus a straight section at each end of eight feet (8').

On the side of all curves with a radius less than two hundred and fifty feet (250'), except the turnaround outer radius on a dead end street and around landscaped islands.

6.10.4 All cement concrete and granite curbs end with transition pieces to blend into the adjoining roadway edge.

6.10.5 Handicapped access for all curbs shall be in accord with the "Rules and Regulations" of the Commonwealth of Massachusetts Architectural Barriers Board and MDPWCS. This shall be coordinated with Section 6.9 Sidewalks, above.

Whitman

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Town of Whitman RULES AND REGULATIONS GOVERNING SUBDIVISION OF LAND
SECTION V REQUIRED IMPROVEMENTS

5.1 IMPROVEMENTS SPECIFICATIONS

5.1.8 Curbing - Straight-faced Granite Curbing is required on both sides of all Arterial and Collector roadways and shall be of the type specified under sub-section

5.1.9. Bituminous Concrete berms in combination with Straight-faced Granite Curbing is required on both sides of all Residential and Minor roadways and shall be of the type specified under sub-section 5.1.9. For Residential and Minor roadways, straight-faced Granite Curbing shall be required at all catch basins (including terminal sections at both sides), and at all roadway intersections (from point of curve to point of tangent)

5.1.9 Approved Type of Curbing a. Straight-faced Granite type VA4 in conformance with the latest edition of the Massachusetts Highway Department Standard Specifications for highways and Bridges Section M9.

b. Bituminous Concrete Cape Cod style berm. The berm shall be monolithically placed in-part with the binder pavement and completed with the top-course pavement. The berm shall provide for a four (4) inch reveal above the gutterline and have an 18" width.

5.1.10 Terminal Curb Section - A tapered terminal curb section of vertical granite curb construction having a minimum length of four (4) feet and a tapered section of two (2) feet in length will be required as the first and last stones along each section of granite curbing and adjacent to each separately placed Catch Basin curb inlet.

Wilmington *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous Town of Wilmington Rules and Regulations Governing the Subdivision of Land (Adopted 1975)

4.E.1

E. Curbs and Guard Rails

1. Bituminous concrete curbs of seven inches (7") in height shall be provided along each side of the roadway except that granite curbs of the same height and type VA4 (Subsection M9.04) shall be provided:

a. At intersections along the roadway the distance of the arcs of the curbs plus a straight section at each end of eight feet (8').

b. On the innerside of all curves with a radius less than two hundred and fifty feet (250'). On all grades over 3% to 3' beyond the downslope catch basin.

Winchester *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite Town of Winchester Subdivision Rules and Regulations, Section V, B.4 Streets (Adopted 1953, Amended 1988)

4. Curbs

In all subdivisions granite curbing shall be installed along the gutter line of both sides in all streets. On all curbs having a radius of eighty-five (85) feet or less at the street line, the gutter line shall be curbed with circular granite curbing, cut to fit the curve. On all curbs having a radius of more than eighty-five (85) feet, up to and including a radius of one hundred fifty (150) feet, the gutter line shall be curbed with straight sections of curbing not more than six (6) feet long. The ends of each curve shall be extended by a straight section of curbing not less than six (6) feet long.

Winthrop *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite According to Ernie Gauthier, Winthrop Building Inspector, (6/28/04) the curbing requirement is granite, but 99% of the curbing has been completed. It is unlikely that much more curbing will be done.

Woburn *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Granite According to the 2002 Woburn Planning Board Land and Subdivision Rules & Regulations, Section IV(G)(4)(a), the required curbing shall be "vertical granite Type VA-4 of the Massachusetts Department of Public Works Standards and Specifications M 9.04."

Worcester *In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)*

Bituminous "H. CURBING (ARTERIAL ROADWAYS)

Curbing is required on both sides of all arterial roadways and shall be vertical granite curb, Type VA-4 as shown in Typical Street Sections. (See Form C in the Appendix.) Specifications for curbing, workmanship and method of setting shall conform to the specifications of the Massachusetts Department of Public Works. All curves having a radius of sixty (60) feet or less at the street line, a central angle of forty-five (45) degrees or more and which meet one or more tangents shall have the gutter line curbed with circular granite curbing cut to fit the curve.

Berm (Residential Collector And Residential Roadways) Worcester standard berm shall be utilized for both residential collector and residential roadways."

- - Regulations Governing the Subdivision of Land. Section X - Required Improvements

Wrentham

In typical subdivision roads, what is the curbing requirement? (No curb, bituminous concrete or granite)

Bituminous

Wrentham Subdivision Rules and Regulations, Section 7.3:
"7.3 CURBING

7.31 Curbing shall be installed along each edge of the roadway in all streets as shown on the definitive plan.

7.32 Curbing required hereunder shall be either MDPW type 1-1 Bituminous Concrete Curbing (machine installed) or standard granite curbing, MDPW Type VA-4. On any horizontal curve having a radius less than 400 feet, granite curbing shall be required."
