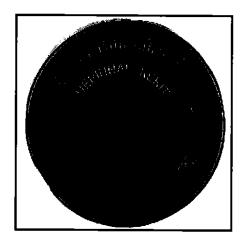
# **RULES & REGULATIONS**

# **GOVERNING**

# THE SUBDIVISION OF LAND



# TOWN OF WAREHAM, MASSACHUSETTS

**PLANNING BOARD** 

A TRUE COPY ATTEST

OWN CLERK

**March 2013** 

Originally Adopted on March 4, 1977

A PROPERCIONY
ACCUSATION OF STATE OF ST

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# Section I - General

# A. Authority

Under Article 34 of the Annual Town Meeting held on March 5, 1951, it was voted to establish a Planning Board consisting of five (5) members under the provisions of Massachusetts General Laws, Chapter 41, §81A to 81Y inclusive, with all Powers and Duties therein.

Under the authority vested in the Planning Board of the Town of Wareham by Massachusetts General Laws, Chapter 41, §81Q, said Board hereby adopts these Rules and Regulations Governing the Subdivision of Land in the Town of Wareham. Such Rules and Regulations shall be effective, as amended on and after March 14, 1977.

No plan will be accepted for recording by either the Plymouth County Registry of Deeds or the Land Court unless the plan has first either been approved as a subdivision or endorsed that it does not require such approval by the Planning Board.

No person shall make such a subdivision within the meaning of the Subdivision Control Law of any land within the Town of Wareham or proceed with the improvement or sale of lost in a subdivision or the construction of ways or the installation of municipal services therein, unless and until a Definitive Plan of such subdivision has been submitted to and approved by the Wareham Planning Board as hereinafter provided.

# B. Compliance

Subdivision plans shall conform to the rules and accepted principles of good planning and correct engineering. The Planning Board assumes that information submitted to it is true and correct unless there appears to be evidence to the contrary. The acquisition of necessary rights and the presentation of complete and correct information are the responsibility of the applicant and his/her representatives and the failure to do so, including the failure or the inability to attain all necessary permits, licenses, releases, easements, or rights-of-way may constitute a reason for disapproval or rescission of approval of a plan and for other actions provided for by law.

## C. Conveyance of Utilities

Before the Board will release a surety bond or cash deposit or in the case of a Covenant, issue a Certificate of Performance with respect to the entire subdivision or any lot thereof, the developer may execute an instrument transferring to the Town valid, unencumbered title to all sanitary sewers, fire alarm conduits, water mains and all appurtenances thereto constructed and installed in the entire subdivision or in connection with any lot thereof, whichever is applicable, and convey to the Town, without cost and free of all liens and encumbrances, perpetual rights and easements to construct, inspect, repair, renew, replace, operate and forever maintain such sanitary sewers, storm water drains, fire alarm conduits, water mains and all appurtenances thereof and to do all acts incidental thereto in, through and under the whole of streets in the subdivision and, if such sewers, storm water drains, fire alarm conduits and water mains have been constructed and installed in land easements, as shown on the definitive plan, and where no easements are shown, in, through and under a strip of land extending 10 feet in width on each side of the centerline of all such sewers, drains, fire alarm conduits and water mains.

The above shall not be construed to relieve the developer and his successors in title to a portion of land or street in the subdivision of responsibility to complete all construction, as required by the developer's covenants and agreements with the Town, and to thereafter maintain all streets and utilities in a satisfactory condition until they are accepted by the Town. The Town of Wareham does not automatically accept streets and assume maintenance responsibility upon release of a developer's bond.

Water mains shall not be conveyed to the Town, but to the applicable Water District, subject to the most recent By-Laws of the Onset or Wareham Fire District, whichever the case may be.

# D. Ownership of Ways or Easements

The subdivider shall retain title to the fee of each street, path, or easement in or appurtenant to the subdivision until conveyed to the Town of for at least three (3) years after completion of improvements, whichever is the lesser. Notation that this is to be done shall be placed of the definitive plan. This provision may be waived by the Planning Board for subdivisions where the public interest is served by retention of private ways and means of securing such retention and their maintenance have been agreed upon.

Security in an amount equal to at least 15% of the total cost of street construction shall be retained to ensure construction adequacy against hidden faults and shall not be released until the fee has been conveyed as indicated above or until three (3) years have lapsed since completion of improvements.

#### E. Definitions

Applicant:

Shall include an owner or his/her agent or representative or assigns.

Board:

Shall refer to the Wareham Planning Board.

Certified:

"Certified by (or endorsed by) a planning board", as applied to a plan or other instrument required or authorized by the Subdivision Control Law to be recorded, shall mean bearing a certification or endorsement signed by a majority of the members of the Planning Board or by its Chair or Clerk or any other person authorized by it to certify or endorse its approval or other action and named in a written statement to the Plymouth County Registry of Deeds and recorder of the Land Court,

signed by a majority of the Board.

Definitive Plan:

Shall mean a plan of a subdivision meeting the requirements of these Subdivision Rules and Regulations for submission, with appropriate and complete application, submitted to the Board for approval, to be recorded in the Plymouth County Registry of Deeds or filed with the Land Court when approved by the Board, all as distinguished from a preliminary

plan.

Drainage:

Shall mean the control of surface water within the tract of land to be

subdivided.

Driveway: An open space located on a lot that provides access to a garage or off-

street vehicle accommodation area serving four (4) or less dwelling units.

Lot: Shall mean an area of land in one (1) ownership with definite boundaries

used, or available for use, as the site of one (1) or more buildings.

Lot Frontage: The boundary of a lot coinciding with a street line if there are both rights

of access and potential vehicular access across that boundary.

Municipal Service: Shall mean public utilities furnished by the city or town in which a

subdivision is located, such as water, sewer, gas and electricity.

Preliminary Plan: Shall mean a plan of a proposed subdivision or re-subdivision of land

drawn on tracing paper, or a print thereof, showing (a) the subdivision name, boundaries, north point, date, scale, legend and title "Preliminary Plan"; (b) the names of the record owner and the applicant and the name of the designed, engineer or surveyor; (c) the names of all abutters, as determined from the most recent local tax list; (d) the existing and proposed lines of streets, ways, easements and any public areas within the subdivision in a general manner; (e) the proposed system of drainage, including adjacent existing natural waterways, in a general manner; (f) the approximate boundary lines of proposed lots, with approximate areas and dimensions; (g) the names, approximate location and widths of adjacent streets; (h) and the topography of the land in a general manner.

Recorded: Shall mean recorded in the Registry of Deeds of the county or district in

which the land in question is situated, except that, as affecting registered

land, it shall mean filed with the recorder of the Land Court.

Subdivision: Shall mean the division of a tract of land into two (2) or more lots and

shall include re-subdivision and, when appropriate to the context, shall relate to the process of subdivision or the land or territory subdivided; provided, however, that the division of a tract of land into two (2) or more lots shall not be deemed to constitute a subdivision within the meaning of the Subdivision Control Law if, at the time when it is made. every lot within the tract so divided has frontage on (a) a public way or a way which the Clerk of the Town certifies is maintained and used as a public way, or (b)a way shown on a plan theretofore approved and endorsed in accordance with the Subdivision Control Law, or (c) a way in existence when the Subdivision Control Law became effective in the town having, in the opinion of the Planning Board, sufficient width, suitable grades adequate construction to provide for the needs of vehicular traffic in relation to the proposed use of the land abutting thereon or served thereby and for the installation of municipal services to serve such land and the building erected or to be erected thereon. Such frontage shall be of at least such distance as is required by zoning for erection of a building on such lot. Conveyances or other instruments adding to, taking away from, or changing the size and shape of, lots in such a manner as not to leave any lot so affected without the frontage above set forth, or the division of a tract of land on which two (2) or more buildings were standing when the Subdivision Control Law went

into effect into separate lots on each of which one (1) of such buildings remains standing, shall not constitute a subdivision.

# F. Modification, Amendment or Rescission

The Planning Board, acting on its own motion or on the petition of any interested person, shall have the power to modify, amend, or rescind its approval of a subdivision plan, or to require a change in a plan as a condition of its retaining the status of an approved plan. All of the provisions of the Subdivision Control Law relating to the submission and approval of a plan of a subdivision shall, so far as apt, be applicable to the approval of the modification, amendment or rescission of such approval and to a plan which has been changed under this Section.

# G. Reference

For matters not covered by these Rules and Regulations, reference is made to Massachusetts General Laws, Chapter 41, §§ 81K to 81GG, inclusive.

# H. Severability

If any provision of these Rules and Regulations is found to be invalid or void, it shall not affect any other provision of these Rules and Regulations.

#### I. Variation

Strict compliance with the requirements of any section of these Rules and Regulations shall be submitted in writing to the Planning Board, properly voted on by said Board and, if granted, said waiver shall be issued in writing by the Planning Board.

#### J. Waiver

Requests for waivers from requirements of any section of these Rules and Regulations shall be submitted in writing to the Planning Board at the time of application and shall be properly voted on by the Board. If granted, said waiver(s) shall be issued in writing by the Planning Board.

# Section II - Approval Not Required Plans

## A. Criteria

Any owner of land located in the Town of Wareham who believes that a plan of said land does not constitute a subdivision, as defined herein, and thus does not require approval under the Subdivision Control Law and, who desires to record said plan with the Plymouth County Registry of Deeds or the Land Court, may submit said plan for endorsement by the Planning Board. The following standards must be met in order for a lot shown on said plan to be entitled to endorsement as a lot.

Planning Board approval is not required for a division of land when the lots shown on the plan have adequate access and frontage (as defined below) on:

- a) A public way; or
- b) A way that the Town Clerk certifies is maintained and used as a public way; or
- A way shown on a plan that was previously approved and endorsed in accordance with the Subdivision Control Law; or
- d) A way in existence prior to May 11, 1951, having in the opinion of the Planning Board, sufficient width, suitable grades and adequate construction to provide for the need of vehicular traffic in relation to the proposed use of the land abutting thereon or served thereby.

No plan shall be endorsed as not requiring approval under the Subdivision Control Law unless each building lot to be created has adequate access as intended under the Massachusetts General Laws, Subdivision Control Law, Chapter 41, §81M. Each building lot to be created shall have frontage of such distance as is required in the Zoning By-Laws at the time of plan submission. Such frontage shall provide both rights of access and potential vehicular access across that boundary.

#### B. Submission of Plans

- 1. The applicant shall file one(1) originally-signed Form A application, one (1) original site plan and six (6) contact prints of the original plan with the Planning Department with a properly executed Form A application conforming to the requirements of §II.C. and as specified on the Application either in person or by certified mail. All owners of any land included in such plan shall be co-applicants. The Planning Board may require a Deed or other acceptable verification of ownership. The required application fee (as set forth in the fee schedule provided in §VII of the Subdivision Rules and Regulations) and the Town Treasurer's Certification shall be included as part of the submission.
- 2. Once the application is considered complete by Planning Board staff, it shall be stamped with the date and time of "filing" by said Board and at such time shall be considered "filed". Incomplete applications shall be returned to the applicant with the application fee. Planning Board staff shall then file, by delivery, with the Town Clerk, a copy of the application bearing the Planning Department's stamp of receipt containing the aforementioned date and time.

#### C. Plan Contents

The plan submitted shall be suitable for recording with the Plymouth County Registry of Deeds. The plan shall contain the following information:

- 1. The title, "Approval Not Required Plan Drawn For (Name of Owner)";
- 2. Name of record owner(s) of land shown on the plan;
- 3. Date, scale and north arrow;
- 4. Name, signature and seal of surveyor who prepared the plan:
- 5. Zoning district, tax assessor's map and lot number(s) and the location of any zoning district boundaries that may be within the locus of the plan;
- 6. A locus at a scale of 1" = 2000', or sufficient to accurately identify where the property is located within the Town;
- 7. Name(s) of the present owner of the land and the name(s) of the abutter(s) as they appear on the most recent Assessor's records. If the applicant has knowledge of any changes subsequent to the most recent Assessor's records, he or she shall provide the name(s) of the present land owner(s) to the Planning Board;
- 8. Any remaining frontage of adjoining land in the same ownership as the subject parcel(s);
- 9. Any existing structures on adjoining land in the same ownership as the subject parcel;
- 10. Location of all man made structures and significant natural features on the subject parcel(s) and significant natural features including existing buildings and structures, stone walls, rock outcrops, steep slopes, delineation of wetland resource areas (as approved by the Conservation Commission), easements, rights of way, water courses, drains, streets, ways, scenic roads, major trees (12-inch diameter or larger) and such other references known to the applicant to sufficiently identify any existing impediments to access upon the land. A topographic plan, at two (2)-foot contours, shall be provided where slopes exceeding 15% will impede access upon the land between the street and the proposed location of the structure or house.
- 11. Boundary lines, dimensions, bearings, distances and areas of all lots to which the plan relates;
- Delineation of all streets and ways, both sides, indicating the width of pavement with a statement of whether or not all streets and ways shown or referred to are public or private ways, indicating the same as to each street or way so shown:
- 13. Notice of any decision by the Zoning Board of Appeals, including but not limited to variances and exceptions or special permits pertaining to the land or any buildings thereon;
- 14. The statement "Approval Under the Subdivision Control Law Not Required" together with sufficient space for the signatures of the required number of Board members and the date of endorsement;
- 15. The following notes shall appear on the plan:

This endorsement of the Planning Board should not be construed to be a determination of conformance with zoning regulations for all lots affected.

This endorsement of the Planning Board should not be construed to be a determination of conformance with the Wareham Town By-Laws in accordance with Division VI, Article I and its implementing wetlands protection regulations

as well as Massachusetts Wetlands Protection Act, M.G.L. Ch. 131, §40 and its implementing regulations, 310 CMR 10.00 for all lots affected.

This endorsement of the Planning Board should not be construed to be a determination of conformance with the Zoning By-Law relative to Irregularly-Shaped Lots, Upland Area, Lot Width, Open Space and Lot Coverage in accordance with Article 6, §615; Article 6, §612; Article 10; Article 6, §620 for all lots affected.

This endorsement of the Planning Board should not be construed to be a determination of conformance with the Earth Removal Regulations in accordance with Division IV, Article III of the Town By-Laws for all lots affected.

16. On any plan wherein the Board deems it necessary or consistent with the purpose and intent of these Rules and Regulations or wherein additional information is necessary for the Board to make a determination of "Approval Not Required", such additional information as the Board may so request.

# D. Endorsement of Approval Not Required Plan

- 1. If the Board determines that the plan does not require approval under the Subdivision Control Law, the Board shall forthwith and without a public hearing endorse the plan within 21 days upon submission of the plan. The original mylar plan shall be returned to the applicant upon endorsement and the Board shall retain two (2) copies of the endorsed plan for its records.
- 2. If the Board determines that, in its opinion, the plan requires approval under the Subdivision Control Law, it shall give written notice of its determination to the Town Clerk and the applicant within 21 days of submission of the plan stating the reason for said denial. The applicant then has the option of filing a preliminary or definitive subdivision plan with the Planning Board.
- 3. If the Board fails to act upon a plan submitted under this section or fails to notify the Town Clerk and the applicant of its action within 21 days upon submission of the plan, it shall be deemed to have determined that approval under the Subdivision Control Law is not required and it shall forthwith make such endorsement on said plan; and on its failure to do so forthwith, the Town Clerk shall issue a certificate to the same effect.
- 4. Any plan on which the endorsement of the Board has been so noted shall be recorded with the Plymouth County Registry of Deeds or the Land Court, within six (6) months after date of endorsement. Any plan not so recorded shall be deemed to have said endorsement withdrawn and cancelled effective six (6) months after expiration of date of endorsement.

# Section III - Approval Not Required Plans

#### A. Purpose

A preliminary plan of any residential subdivision may be submitted to the Planning Board for discussion and approval, modification or disapproval. Submission of a preliminary plan is strongly recommended to provide for detailed review of the layout and features of the proposed subdivision by the Planning Board and other Town boards and to minimize the need for major changes of the definitive plan. As of April 7, 1987, all proposed non-residential subdivisions are *REQUIRED* to submit a preliminary plan.

# B. Submission of Preliminary Plan

Any person who swishes to file a preliminary plan shall submit a complete and accurate application form and all plans and information as herein required by these Rules and Regulations to the Planning Board at a regularly-scheduled meeting or by registered mail in care of the Town Clerk.

The applicant shall file:

- 1. A properly executed copy of Form B that shall include the following with the Town Clerk:
  - a. The date on which the plan was submitted to the Planning Board;
  - b. A description of the land to which the plan is related sufficient for identification;
  - c. The name and address of the owner of the land;
- 2. With the Planning Board:
  - a. Two (2) properly executed copies of Form B;
  - b. Ten (10) contact prints of the original preliminary plan;
  - c. Filing fee See Section VII
- 3. With the Board of Health:
  - a. One (1) copy of the preliminary plan.

An application is deemed *NOT* submitted if it does not comply with the requirements of Section III-B and Section III-C of these Rules and Regulations.

# C. Plan Contents

The preliminary plan shall be drawn on tracing paper or other reproducible substance and should show sufficient information about the subdivision to forma a clear basis for discussion of its problems, if any, and for the preparation of the definitive plan. Such information shall show at least the following:

- 1. The title, "Preliminary Plan of (Name of Subdivision)";
- 2. Date, scale, north point, tax assessor's map and lot number(s) and, if appropriate, a legend to explain any graphic representation or symbol(s) on the plan;
- 3. The names of the record owner and the applicant;
- 4. The name(s) of the designer, engineer or surveyor who prepared the plan;
- 5. The name(s) of all abutters, as determined from the most recent local tax list:
- 6. The existing and proposed lines of streets, ways, easements and any public areas within the subdivision in a general manner;

- 7. The proposed system of drainage including adjacent existing natural waterways in a general manner;
- 8. The approximate boundary lines, dimensions and areas of proposed lots;
- 9. The names, approximate location and width(s) of adjacent streets;
- 10. The topography of the land in a general manner;
- 11. The location of and distance to the nearest public water and sewer utility services.

# D. Review by Other Boards or Departments

Once the preliminary plan has been properly submitted and accepted, the Planning Board shall send a copy of the preliminary plan to the following:

- 1. The Conservation Commission for review as to the general affect of the proposed subdivision on wetlands;
- 2. Municipal Maintenance Department for general design review of proposed street, utilities and drainage;
- 3. The Chief of the respective Fire District for review of proposed access to individual lots;
- 4. The Sewer Commissioners for general design review of proposed sewer system;
- 5. The Water Department for review of proposed water mains;
- 6. The Building Commissioner;
- The Town Planner.

Failure of any board or department to submit a written report with recommendations within 20 days after receipt of the Planning Board's letter requesting its input shall mean it has no problem with the plan unless an extension is requested.

The Board of Health files its own report stating whether it approves, approves with modifications or disapproves the plan in accordance with Massachusetts General Laws, Chapter 41, Section 81S. Failure of the Board of Health to report in writing within 45 days after the date of submittal shall deemed its approval of the plan.

# E. Decision of the Planning Board

Within 45 days after the submission of the preliminary plan, the Board shall notify the applicant and the Town Clerk whether said plan has been approved, approved with modifications or disapproved. Such tentative approval does not constitute approval of a subdivision, but does facilitate the procedure in securing final approval of the definitive plan. For all non-residential subdivisions, the Planning Board shall determine street classification and minimum width of the right-of-way at the preliminary plan stage.

No Registrar of Deeds shall record a preliminary plan.

# Section IV - Definitive Plan

#### A. Submission of Definitive Subdivision Plan

Any person who wishes to file a definitive subdivision plan shall submit a complete and accurate application form and all plans and information as required herein by these Rules and Regulations to the Planning Board at a regularly scheduled meeting or by registered mail in care of the Town Clerk. If so mailed, the date of mailing shall be the date of submission of the plan.

The applicant shall file:

- 1. A properly executed copy of Form C that shall include the following with the Town Clerk:
  - a. The date on which the plan was submitted to the Planning Board;
  - b. A description of the land to which the plan is related sufficient for identification;
  - c. The name and address of the owner of the land.
- 2. With the Planning Board:
  - a. Two (2) properly executed copies of Form C;
  - b. Twelve (12) contact prints of the definitive plan;
  - c. Two (2) copies of a list of abutters to be certified by the Board of Assessors indicating all owners of land abutting the definitive plan locus, together with the address of each as determined from the most recent tax list;
  - d. Two (2) copies of the deed(s) of the property to be subdivided;
  - e. Filing fee See Section VII
- 3. With the Board of Health:
  - a. A copy of the definitive plan.

An application is deemed NOT submitted if it does not comply with the requirements of Section III-A and Section III-B of these Rules and Regulations.

## B. Plan Contents

The definitive plan shall be prepared by a Registered Engineer or Registered Land Surveyor and shall be clearly and legibly drawn in black India ink upon mylar. The plan shall be at a scale of one (1) inch equals 40 feet (1"=40") or such other scale as the Board may accept to show details clearly and adequately. The contact prints are to be dark-line on white background and sheet sizes shall not exceed 24" x 36", but shall be a minimum of 8.5" x 11". If multiple sheets are required to adequately detail a large subdivision, they shall be accompanied by an index sheet showing the entire subdivision. The definitive plan shall be suitable for recording with the Plymouth County Registry of Deeds and shall contain at least the following:

- 1. The title: "Subdivision Plan of (Subdivision Name)";
- 2. The date, scale, north point, tax assessor's map and lot number(s) and, if appropriate, legend to explain any graphic representations or symbols on the plan;
- 3. The name and address of the present owner(s) and applicant(s);
- 4. The name, address and seal of the Registered Professional Engineer or Registered Land Surveyor who prepared the plan;
- 5. The names of all abutters as they appear in the most recent tax list, including property owners on the opposite side of any streets abutting the subdivision locus;

- 6. Book and page deed reference(s) of the property to be subdivided;
- 7. A note referring to which lots will be served by either Town water supply, private wells, municipal sewer or private septic systems and the location of the nearest existing public water and sewer utility services;
- 8. A locus plan at the scale of one (1) inch equals two-thousand (2,000) feet (1"=2,000") showing the boundaries of the proposed subdivision, location of proposed streets and relation to adjoining properties within a radius of ¼ mile;
- 9. The zoning district, including any overlay district, of the land shown on the plan;
- 10. The location of all wetlands protected under 310 CMR 10.00 Wetlands Protection. If protected wetlands are to be filled, the plan shall show the area (in square feet) to be filled and, if required by the Wetlands Protection Act, the location and area (in square feet) of replacement wetlands;
- 11. Sufficient data to readily determine the location, direction and length of every street, way, easement, lot and boundary line and to establish those lines on the ground. The areas of all lots shall be shown and all lots shall be numbered. All bearings are to be referred to Massachusetts Prime Meridian if reference points are within a reasonable distance;
- 12. The location, names and present widths of streets bounding, approaching or within reasonable proximity of the subdivision;
- 13. Location of all permanent monuments, properly identified as to whether existing or proposed and the location of temporary stakes to enable the Planning Board to find and appraise features of the subdivision plan in the field;
- 14. Proposed street names in pencil, until approved by the Planning Board;
- 15. Notation, as required by Section 1-D, Ownership of Ways or Easements;
- 16. Any public or common areas within the subdivision;
- 17. Location of all abutting land owned by the applicant not presently being subdivided:
- 18. A suitable bracket to record the action of the Planning Board and the signatures of the members of the Board.
- 19. A suitable bracket for the Town Clerk's signature, along with the statement, "I hereby certify that 20 days have elapsed since the Notice of Approval from the Planning Board was received and recorded and no Notice of Appeal has been filed in this office".
- 20. A list of all requested waivers from the literal requirements of these Rules and Regulations.

Items 1 through 20 shall generally be located on the first sheet of the definitive plan. Items 21 through 28 shall be submitted on additional sheets of the same size and material as the first sheet and each additional sheet shall bear a title block and signature block as required in Section IV.B.1, 2 and 4. Items 21 through 28 need not be each on a separate sheet unless the Planning Board deems this necessary for clarity.

- 21. Contour Plan showing existing and proposed topography at two (2)-foot intervals related to an existing permanent benchmark;
- 22. Utility Plan showing in plan and profile, but not limited to, the size and location of existing and proposed water and sewer lines, hydrants, electric lines, telephone lines, gas mains, fire alarm system, cable television line and storm drains and any easements pertinent thereto;

- Drainage Plan showing existing and proposed streets, lots, two foot (2') contours and other pertinent data; the drainage limits and acreage of the area tributary to each stormwater inlet and culvert; location and type of inlets proposed; location, size, length, invert elevations and slope of proposed drains and culverts; structural details of inlets, manholes, pipes, headwalls and all other drainage structures required to complete the plan shall be attached; an estimate of the present rate and volume of runoff as well as an estimate of the rate and volume of runoff that would occur after completion of the proposed subdivision shall be submitted along with supporting data on 8.5" x 11" sheets. In calculating the runoff and drainage requirements, consideration shall be given to the impact of septic systems on the ability of the soil to absorb any additional stormwater as well as any upstream runoff that may impact on the subdivision;
- 24. Street Plans and Profiles at a horizontal scale of one (1) inch equals 40 feet (1"=40") and a vertical scale of one (1) inch equals four (4) feet (1"=4") or such other scale as the Planning Board may approve. The following information shall be included:
  - a. The exterior lines of the proposed way(s) with sufficient data to determine location, direction and length;
  - b. The existing centerline profile shall be shown as a fine, continuous line. The existing centerline profile for intersecting streets shall be shown for at least 100 feet of each side of the intersection of street centerlines. The proposed right sideline shall be shown as a dashed black line and the left sideline shall be shown as black dots. Elevations shown shall be based on U.S.G.S. datum;
  - c. The proposed centerline profile shall be shown as a heavy continuous line with elevations based on U.S.G.S. datum shown every 50 feet (50') and every 25 feet (25') on vertical curves;
  - d. The road centerline stationing shall be shown.
- 25. A typical section showing proposed roadway construction at a scale of one (1) inch equals 10 feet (1"=10") shall be provided with the profile plan (See Appendix 5)
- 26. Street Lights and a Tree Plan shall be provided for the area within the proposed street right-of-way to show the following:
  - a. Existing trees to be preserved within the right-of-way;
  - b. Any proposed street trees;
  - c. Existing and proposed street lights.
- 27. If the Planning Board determines that erosion due to development activity will be excessive or significant to wetlands, streams, ponds or other water bodies, the developer shall submit a Soil Erosion and Sedimentation Control Plan. This Plan shall consist of a drawing certified by a Registered Civil Engineer identifying appropriate control measures and their locations.
- 28. If necessary in order to determine compliance with these *Rules and Regulations*, the Planning Board may require further engineering or environmental analysis to be prepared at the expense of the applicant, employing professionals approved by the Planning Board.

# C. Performance Guarantee

Prior to endorsement of the Approval of a Definitive Plan, the Planning Board shall require that the construction of the ways, the installation of municipal services and the performance of other applicable provisions of Sections V and VI in accordance with the these Rules and Regulations be secured by one (1), or in part by one (1) and in part by another, of the methods described in the following clauses which method or combination of methods may be selected and, from time to time, varied by the applicant:

- 1. By a proper bond that is sufficient, in the opinion of the Planning Board, to secure performance of the construction of ways and the installation of municipal services required for lots in the subdivision shown on the plan. The Planning Board may require that the applicant specify the time within which such construction shall be completed.
- 2. By a deposit of money or negotiable securities sufficient, in the opinion of the Planning Board, to secure performance of the construction of ways and the installation of municipal services required for lots in the subdivision shown on the plan. The Planning Board may require that the applicant specify the time within which such construction shall be completed.
- 3. By a covenant executed and duly recorded by the owner of record, running with the land, whereby such ways and services shall be provided to service any lot before such lot may be built upon or conveyed, other than by mortgage deed, provided that a mortgagee that acquired title to the mortgaged premises by foreclosure or otherwise and any succeeding owner of such premises or part thereof, may sell any such lot, subject to that portion of the covenant that provides that no lot shall be built upon until such ways and services have been provided to serve such lot and provided further that nothing herein shall be deemed to prohibit a conveyance by a single deed, subject to such covenant, of either the entire parcel of land shown on the subdivision plan or of all lots not previously released by the Planning Board. A deed of any part of the subdivision in violation hereof shall be voidable by the grantee prior to the release of the covenant but no later than three (3) years from the date of such deed.
- 4. By an agreement delivered to the Planning Board and executed after the recording of a first mortgage covering the premises shown on the plan or a portion thereof given as security for advances to be made to the applicant by the lender, which agreement shall be executed by the applicant and the lender and shall provide for the retention of the lender of funds sufficient, in the opinion of the Planning Board, and otherwise due the applicant, to secure the construction of ways and the installation of municipal services. Said agreement shall also provide for a schedule of disbursements that may be made to the applicant upon completion of various stages of the work and shall further provide that, in the event the work is not completed within the time set forth by the applicant, any funds remaining undisbursed shall be available for completion.

Any covenant given under the preceding paragraph and any condition required by the Board of Health shall be either inscribed on the plan or contained in a separate document and referred to on the plan.

The penal sum of any such bond held under clause #1 or any deposit held under clause #2 or any amount of funds retained pursuant to an agreement under clause #4 shall bear a direct and reasonable relationship to the expected cost including the effects of inflation, necessary to complete the subject work. Such amount(s) shall, from time to time, be reduced so that the

amount bonded, deposited or retained continues to reflect the actual expected cost of work remaining to be completed.

Upon the completion of the construction of ways and the installation of municipal services in accordance with Sections V and VI of these Rules and Regulations, security for the performance of which was given by bond, deposit or covenant with respect to any lot, the applicant shall send by registered mail to the Town Clerk and the Planning Board a written statement that the said construction or installation in connection with which such bond, deposit or covenant was given has been completed in accordance with Sections V and VI. Such statement shall contain the address of the applicant. If the Planning Board determines that said construction or installation has been completed, it shall release the interest of the Town in such bond and return the bond or the deposit to the person that furnished the same or release the covenant by appropriate instrument; duly acknowledged, which mat be recorded.

Such bond, deposit, covenant or agreement shall be contingent on the completion of such ways, services and other provisions of Sections V and VI of these Rules and Regulations within 24 months from the date of approval of the Definitive Plan.

The construction of all ways and the installation of all municipal services shall be completed in accordance with the applicable Rules and Regulations contained herein within 24 months from the date of approval of the plan. Failure to so complete shall automatically rescind approval of the plan.

# D. Review by the Board of Health

When a Definitive Plan of a subdivision is submitted to the Planning Board, a copy thereof shall also be filed with the Board of Health. The Board of Health, within 45 days after the plan is filed, shall report to the Planning Board; in writing, approval or disapproval of said plan and in the event of disapproval, will make specific findings as to which; if any, of the lots shown on such plan cannot be used for building sites without injury to the public health and include such specific findings and the reasons therefore in such a report and, where possible, will make recommendations for the adjustments thereof provided; however, if a municipal sewer system will service the proposed subdivision, then failure of the Board of Health to make such a report within 45 days after the plan is filed with its office shall be deemed approval of the Board of Health. The Board of Health shall send a copy of such report; if any, to the applicant that submitted said plan.

If the report of the Board of Health shall so require, the approval by the Planning Board shall be on the condition that no building or structure shall be built or placed upon the areas designated without the consent of the Board of Health.

# E. Notification and Public Hearing

No action may be taken by the Planning Board on a Definitive Plan until a public hearing on such Definitive Plan has been held. Notice of date, time and place of hearing and the subject matter sufficient for identification shall be given by:

- 1. The Planning Board, at the expense of the applicant, by advertising in a newspaper of general circulation in the Town in each of two (2) successive weeks. The fee for advertising shall be paid directly by the applicant to the advertiser. The first publication shall be not less than 14 days before the date of the public hearing. The Planning Board shall mail a copy of the advertisement to the applicant;
- 2. The applicant, by preparing notices to abutters by Certified Mail Return Receipt Requested. Return receipts are to be addressed to the applicant. The applicant must

present the return receipts to the Planning Board and they must match the list of abutters certified by the Board of Assessors prior to the public hearing.

# F. Approval, Modification or Disapproval of Plan

After the public hearing as provided in M.G.L., Chapter 41, § 81T and after the report of the Board of Health or the lapse of 45 days without such report, the Planning Board shall approve, modify and approve or disapprove plans as follows:

## 1. Non-Residential Subdivisions

Final approval, modification or disapproval of a Definitive Plan for a non-residential subdivision shall be within 90 days after such submission or such further time as may be agreed upon at the written request of the applicant. Notice of such extension of time shall be filed forthwith by the Planning Board with the Town Clerk.

## 2. Residential Subdivisions

- a. Final approval, modification or disapproval of a Definitive Plan for a residential subdivision where a Preliminary Plan has been duly submitted shall be within 90 days after such submission or such further time as may be agreed upon at the written request of the applicant. Notice of such extension of time shall be filed forthwith by the Planning Board with the Town Clerk;
- b. Final approval, modification or disapproval of a Definitive Plan for a residential subdivision where a Preliminary Plan has NOT been duly submitted shall be within 135 days after submission or such further time as may be agreed upon at the written request of the applicant. Notice of such extension of time shall be filed forthwith by the Planning Board with the Town Clerk.

In the event of disapproval, the Planning Board shall state in detail wherein the plan does not conform to these Rules and Regulations or to the recommendations of the Board of Health and shall revoke its disapproval and approve a plan which; as amended, conforms to such Rules and Regulations or recommendations. The Planning Board shall file a certificate of its action with the Town Clerk, a copy of which shall be recorded by him/her in a book kept for that purpose and shall send notice of such action by registered mail, postage prepaid, to the applicant at the address stated on the application.

Final approval, if granted, shall be endorsed on the original drawing of the Definitive Plan by the signatures of a majority of the Planning Board, but not until the statutory 20-day appeal period has elapsed following the filing of the Planning Board's *Certificate of Approval* with the Town Clerk and said Clerk has notified the Planning Board that no appeal has been filed. If appeal has been made, said endorsement shall be made after the entry of a final decree of the court sustaining the approval of such plan.

#### G. Recording

The applicant shall file the approved Definitive Plan and covenant; if any, with the Plymouth County Registry of Dees and shall notify the Planning Board; in writing, presenting evidence of the recording of the plan and covenant. The applicant shall deliver to the Planning Board three (3) copies of the approved and recorded Definitive Plan. The Planning Board shall withhold release of any lots in the subdivision until such time as copies of the recorded plan have been delivered to the Planning Department.

## H. Inspection

Prior to the commencement of construction, the applicant shall deliver to the Director of Municipal Maintenance and to the Town Engineer a complete set of the approved and signed plans including road profiled and construction details together with a copy of the Certificate of Approval and Road Covenant and, in the absence of a covenant, proof of other road construction security that has been approved by the Planning Board.

Inspection of construction by the Director of Municipal Maintenance and/or the Town Engineer is required for completion of the streets and utilities installed therein together with any adjacent easements for all subdivisions approved by the Planning Board. The applicant is responsible for requesting and attaining inspections by first notifying the Director of Municipal Maintenance and the Town Engineer of his/her intent to commence work.

The applicant shall attain and use Form N to keep a record of inspections and to secure the signature of the inspector(s) at the appropriate time in the construction process. Should an inspection not be performed due to the failure of the applicant to arrange for an inspection with the Director of Municipal Maintenance or Town Engineer in a timely manner, the applicant will be required to uncover the improvements and make appropriate arrangements for an inspection. No work will be accepted that has been covered prior to inspection or that does not meet the requirements of these Rules and Regulations.

At a minimum, inspections are required at the following times during the construction process:

#### 1. First Inspection:

After the roadway has been cleared and grubbed and drainage, sewer and water lines have been installed but prior to backfilling. More than one (1) inspection may be required to facilitate the construction process and to ensure that all work has been approved.

## 2. Second Inspection:

During the placement of the first layer of gravel and again when the final layer of gravel is being compacted and fine-graded in preparation for paving.

# 3. Third Inspection:

After pavement has been placed, the shoulders are loamed and seeded, the monumentation is set, the street sign(s) are in place and final cleanup has been completed. The entire area, including any disturbed areas outside the street limits must be cleaned so as to leave a neat and orderly appearance free from debris and other objectionable materials. All disturbed areas shall be dressed in accordance with the approved plan.

Upon final inspection, a completed Form N shall be submitted to the Planning Board by the applicant. No lots, not previously released in accordance with Section IV.C, Performance Guarantee, shall be released until the Form N has been submitted and approved by the Planning Board.

# Section V - Design Standards

#### A. General

The proposed subdivision shall be so designated as to protect the health, safety, convenience and welfare of the occupants of the subdivision and the Town of Wareham. The design shall:

- 1. Reduce, to the extent reasonably possible, the following:
  - a. Volume of cut and fill:
  - b. Area over which existing vegetation will be disturbed, especially if within 100 feet of a river, pond or other body of water;
  - c. Number of mature trees removed:
  - d. Disturbance of natural drainage patterns or increase in peak rates of stormwater transport from the site;
  - e. Disturbance of important wildlife habitats and scenic or historic environs;
  - f. Visual prominence of man-made elements not necessary for safety or orientation;
  - g. The impact to abutting neighborhood.
- 2. Increase to the extent reasonably possible, the following:
  - a. Visual prominence of natural features of the landscape;
  - b. Vistas and water views from public ways.

# B. Drainage

# 1. Design

Design of the drainage system shall, to the extent practicable, conform to the natural contours and drainage patterns of the site. To the maximum extent feasible, storm water shall be recharged to the ground on-site rather than piped off the site. Connection to any existing public drainage systems will be permitted only if, in the opinion of the Director of Municipal Maintenance or Town Engineer, the existing system has adequate capacity to receive the additional storm water runoff. An estimate of both the rate and volume of runoff prior to and after development shall be submitted along with supporting data. The drainage system shall be designed so that peak run-off and stream flows at the boundaries of the development in a 20-year frequency storm and culverts shall be based on a 50-year frequency storm with consideration given to damage avoidance for a 100-year storm. In any case, the drainage system shall be designed so that abutting properties and ways are not adversely affected by run-off water generated by the development. The applicant's engineer shall so certify the above and the certification shall appear on the plan. Whenever practicable, the drainage system shall coordinate with and connect to the drainage system on surrounding properties or streets.

The Planning Board will not approve any design or component that, in its opinion, does not meet the standards of engineering practice, will not function without frequent maintenance or is unsuited to the character of the subdivision.

Lot boundaries shall be made to coincide with natural drainage ways and shall avoid the creation of lots that can be built upon only by altering such drainage ways. Lots shall be prepared and graded in such a manner that development of one shall not cause detrimental drainage on another.

If a provision is necessary to carry drainage to or across a lot, an easement or drainage right-of-way of a minimum width of 20 feet shall be provided. The Planning Board may require the applicant to furnish evidence that adequate provision has been made for the proper drainage of surface and underground waters from any lot or lots. Storm water shall not discharge over land across lot lines.

#### Storm Water

Storm water management shall be guided by the standards set forth in Appendix 7.

#### C. Streets

#### Classification:

Subdivision streets shall be classified for the purpose of establishing the applicable design and construction standards according to the definitions below. The Planning Board shall determine the classification in all doubtful cases.

- a. Residential Minor Street A street whose sole function is to provide access to abutting properties. It serves or is designated to serve no more than nine (9) dwelling units or nine (9) single-family lots.
- b. <u>Residential Local Street</u> A street whose sole function is to provide access to abutting properties. It serves or is designated to serve at least 10 but no more than 25 dwelling units or single-family lots.
- c. Residential Standard Street A street that is not intended for, nor does it have the potential for use by through traffic; rather, it will be used solely for access to lots located entirely within the subdivision. In the opinion of the Planning Board, said Standard Street will not serve a substantial amount of traffic.
- d. Residential Collector Street A street that will be used to carry traffic not only from lots located within the subdivision, but will also be used to carry through traffic from other parts of town. In the opinion of the Planning Board, the potential exists for such streets to serve a substantial amount of traffic.

Once a classification has been determined and approved by the Planning Board, no additional dwelling units or single-family lots can be created with legal frontage on said street classification or its extension unless and until the road is redesigned and improved in accordance with the minimum standards heretofore prescribed for the various categories of residential streets. For all non-residential subdivisions, the street classification will be determined by the Planning Board at the Preliminary Plan submission.

## 2. Location and Alignment:

- a. All streets in the subdivision shall be designed so that, in the opinion of the Planning Board, they will provide safe vehicular travel;
- b. Provision satisfactory to the Planning Board shall be made for the proper projection of streets or for access to adjoining property that has the potential to be subdivided;
- c. Street jogs with centerline offsets of less than 125 feet shall be avoided:
- d. The minimum centerline radii of curved streets shall be 100 feet. Greater radii may be required for principal streets;

- e. Streets shall be laid out so as to intersect as nearly as possible at right angles. No street shall intersect any other street at less than 60 degrees;
- f. Property lines at street intersections shall be rounded or cut back to provide for a curb radius of not less than 30 feet. A greater radius may be required for major street intersections.

#### 3. Street Width:

a. The minimum width of the right-of-way shall be as follows:

| Residential Minor Street     | 40 feet |
|------------------------------|---------|
| Residential Local Street     | 40 feet |
| Residential Standard Street  | 50 feet |
| Residential Collector Street | 50 feet |

- b. Greater widths of streets' rights-of way may be required by the Planning Board when deemed necessary;
- c. For all non-residential subdivisions, the street right-of-way width will be determined by the Planning Board at the time of submission.

#### 4. Street Grade:

Grades of streets shall not be less than .75%. Grades shall not be more than 6% for principal streets or more than 12% for secondary streets.

#### 5. Dead-End Streets:

- a. Dead-end streets shall not be longer than 1,000 feet unless, in the opinion of the Planning Board, a greater length is necessitated by topography or other locus conditions:
- b. Dead-end streets shall be provided at the closed end with a turn around having an outside roadway diameter of at least 100 feet and a property line diameter of at least 120 feet.

#### D. Lots

Lot frontage and area shall conform to the regulations of the Zoning By-Laws for the Town of Wareham.

#### E. Easements

- 1. Easements for utilities or any like purpose across lots, if necessary, shall be at least 20 feet in width.
- 2. Where a subdivision is traversed by a water course, drainage way, channel or stream, the Planning Board may require that there be provided a storm water easement or drainage right-of-way of adequate width to conform substantially to the line of such water course, drainage way, channel or stream and to provide for construction or other necessary purposes.

# F. Open Space

Before approval of a plan the Planning Board may also, in proper cases, require that the plan show a park or parks suitably located for playground or recreation purposes or for providing light an air or access to shores or beaches. The park or parks shall not be unreasonable in area in relation to the land to be subdivided and to the perspective uses of such land. The Planning Board may, by appropriate endorsement on the plan, require that no building be erected upon such park or parks without its approval for a period of not more than three (3) years.

# G. Protection of Natural Features

Water courses, marshes and like natural features shall be protected in accordance with the recommendations of the Wareham Conservation Commission. The attention of the applicant is directed to the provisions of M.G.L., Chapter 130, §105, "Coastal Wetland Act".

# Section VI - Required Improvements for an Approved Subdivision

## A. Drainage

Sizes, spacing and materials of drainage installations shall be determined by a registered professional engineer after first making a hydrologic study of the area being subdivided and shall be subject to the Planning Board's approval. Catch basins shall be spaced along both sides of a street at approximately 400-foot intervals and located at all low points and corners at street intersections. All basins shall be connected by proper pipe not less than 12 inches inside diameter so as to provide a proper means for storm water runoff from the streets and area being drained. Leaching basins shall not be used expect in areas where adverse conditions warrant them (such as draining large parking areas or streets subject to heavy traffic or other sources of pollutants) and then only upon approval by the Director of Municipal Maintenance and Town Engineer.

## B. Utilities

- 1. Sewer pipes and necessary related equipment such as manholes and connecting 'y's" shall be constructed in conformance with the regulations of the Board of Sewer Commissioners and inspections shall be made by the Town Engineer and the Director of Municipal Maintenance.
- 2. Water pipes and related equipment, such as hydrants and main shut-off valves, shall be constructed to serve all lots on each street in the subdivision in conformity with specifications of the Water Commissioners of the Wareham or Onset Fire Districts.
- 3. All utilities within a subdivision shall be placed underground. All utility lines shall be shown in plan and profile in the Definitive Plan as required by Section IV.B. Connections for all utilities from the main structures to the exterior line of the way shall be constructed for each lot whether or not there is a building thereon.
- 4. All subdivisions that are located within 1,500 feet of public sewer and/or water utilities shall be required to connect to such utility or utilities with infrastructure that is sufficiently sized to serve the needs of the proposed subdivision.

# C. Street and Roadway Construction

1. Roadway pavement shall be constructed for the full length of all streets within the subdivision at the following widths (greater roadway pavement widths may be required by the Planning Board when deemed necessary):

| Residential Minor Street     | 18 feet |
|------------------------------|---------|
| Residential Local Street     | 20 feet |
| Residential Standard Street  | 22 feet |
| Residential Collector Street | 24 feet |

- 2. For all non-residential subdivisions, the roadway pavement width will be determined by the Planning Board at the Preliminary Plan submission.
- 3. The entire area of each street or way shall be cleared of all stumps, brush, roots, boulders and like material and all trees not intended for preservation, if deemed necessary by the Planning Board.

- 4. All loam and other yielding materials shall be removed from the roadway and shoulder area of each street or way and replaced with suitable material.
- 5. Shoulders of three (3) feet in width shall be constructed on each side of the roadway and three (3) inches in height above the gutter line. Shoulders five (5) feet in width shall be constructed where substantial fills are made and highway guard is required or where sidewalks are installed. Shoulders shall be loomed and seeded.
- 6. All roads shall have two (2) six (6)-inch courses of gravel and two (2) courses of Class I bituminous concrete Type 1-2. The first course of gravel shall be six (6) inches thick and contain no stones greater than six (6) inches in diameter. The second course of gravel shall be six (6) inches of binding gravel containing no stones larger than two (2) inches in diameter. Each course shall be compacted by being rolled by a 10-ton roller or equivalent machinery. The final course of gravel shall be properly graded by an approved grader and brought to the true line and grade as shown on the typical section in Appendix 5 and approved profiles. The first course of bituminous concrete shall consist of 1 ¾ inches of binder and the second course shall consist of 1 ¼ inches of top-wearing surface. The dates for placing bituminous concrete shall be the dates before November 15<sup>th</sup> and after May 15<sup>th</sup>.
- 7. A typical street section is shown in Appendix 5.

# D. Street Lights

Street lights shall be installed at each intersection to conform to the standard established by the Town and may be required at such other intervals as specified by the Board.

# E. Street Signs

- 1. The developer shall furnish and erect necessary street signs to designate the name of each street in the development. Said signs are to conform to those used by the Town with Planning Board approval.
- Street names shall be approved by the Planning Board to prevent duplication and to
  provide names in keeping with the character of the Town. Signs shall be placed at every
  intersection.
- 3. The subdivision plan shall include a lot number in accordance with the provisions of Division II, Article I, House Numbering By-Law of the Town of Wareham.

#### F. Street Trees

Street trees not less than 12 feet in height and of a species approved by the Tree Warden shall be planted on each side of every street in the subdivision wherever, in the opinion of the Planning Board, existing woodlands or suitable individual trees are not retained.

#### G. Sidewalks

Sidewalks of not less than five (5) feet in width shall be constructed on at least one (1) side of Residential Minor and Residential Local Streets and on both sides of Residential Standard and Residential Collector Streets.

Sidewalks shall be separated from the roadway edge by a border of no less than three (3) feet to increase pedestrian safety. Sidewalk width shall be increased and pedestrian ramps constructed to provide access for the elderly or handicapped when, in the opinion of the Planning Board, the volume or nature of pedestrian traffic justify such installation.

Sidewalks shall be constructed in conformance with the specifications of the Director of Municipal Maintenance and the Town Engineer (See Appendix 6).

# H. Curbs

A curb of pre-cast concrete or granite shall be constructed on both sides of the street in conformance with the specifications of the Director of Municipal Maintenance and the Town Engineer. Cape Cod molded bituminous or bituminous berms satisfactory to the Planning Board may be installed where, in the judgment of the Planning Board, because of grades, curves or traffic, their installation is justified.

#### I. Monuments

Monuments shall be installed at all street intersections, at all points of change in direction or curvature of streets and all other points where, in the opinion of the Planning Board, permanent monuments are necessary. Such monuments shall conform to the standard specifications of the Town Engineer and shall be set according to such specifications. The monuments shall be 5" x 5" x 36" steel reinforced concrete.

# J. Brush and Slash

All brush and slash must be removed from the borders of streets in conformance with the Forest Fire Warden's Regulations.

## K. Fire Alarms

The applicant shall install a fire alarm circuit within the subdivision including at least one (1) fire alarm box for each 500 feet of street or portion thereof. Materials and location of boxes shall be as directed by the Fire Chief of the district where the development is located and shall be as established by the National Fire Protection Association.

# L. Grounds

In subdivisions involving multiple dwellings or apartments, the construction of driveways, parking areas, recreation areas and landscaping of grounds shall be completed in a manner satisfactory to the Planning Board before applying for occupancy permits.

# Section VII – Filing Fees

# A. Approval Not Required Plans

\$150.00 per plan sheet plus \$50.00 for each newly-created lot.

# B. Preliminary Plan

\$500.00 plus \$100.00 per lot \$70 advertising

## C. Definitive Plan

\$750.00 plus \$75 per lot plus \$1.000 per linear foot of roadway if a Preliminary Plan was submitted.
\$70 advertising

\$1,500 plus \$50 per lot plus \$1.00 per linear foot of roadway if a Preliminary Plan was not submitted.
\$70 advertising

#### D. Covenant Release

\$100.00 per request if release involves posting of other security for incomplete roads.

No charge if road system is complete and satisfactory report filed of final construction inspection.

#### E. Review Fees

Where specific conditions arising from the land or the nature of the proposal necessitates the assistance of planning, engineering, legal, traffic, soil, hydrologic or other consultants, the Planning Board mat engage such consultant services to assist the Board in analyzing the project to ensure compliance with all relevant laws, by-laws, regulations, best management practices and good design principles. In these instances, the Planning Board will require the applicant to pay a review fee consisting of the reasonable costs to be incurred by the Board for these services. The provisions for this language are contained in M.G.L. Chapter 44, §53G and were adopted at the October 21, 2002 Town Meeting.

Funds received by the Board pursuant to this section shall be deposited with the Town Treasurer, who shall establish a special individual account for this purpose. Expenditures from this special account may be made at the direction of the Board. Expenditures from this account shall be made only in connection with the review of a specific project or projects for which a review fee has been or will be collected from the applicant. Failure by an applicant to pay all review fees shall be grounds for denial of the application or permit.

Review fees may only be spent for services rendered in connection with the specific project for which they were collected. At the completion of the Planning Board's review of a project, any excess amount of funds remaining in the account attributable to that project, including any interest accrued, shall be repaid to the applicant(s) or the applicant's successor(s). The applicant must submit a written request for these funds. Upon request, a final report for said account shall

be made available to the applicant(s) or the applicant's successor(s) in interest. For the purpose of this regulation, any person or entity claiming to be an applicant's successor in interest shall provide the Board with the proper documentation establishing such succession in interest.

Any applicant may take an administrative appeal from the selection of the outside consultant to the Board of Selectmen, provided that such appeal is taken within 14 days of notification of the Planning Board's appointment of the consultant. The grounds for such an appeal shall be limited to the claim(s) that the selected consultant has a conflict of interest or does not possess the minimum required qualifications as may be set by the Planning Board. The minimum qualifications shall consist of a licensed professional in a related field. The required time limit for action upon an application by the Planning Board shall be extended by the duration of the administrative appeal. In the event that no decision is made by the Board of Selectmen within 30 days following the filing of the appeal, the selection mad by the Planning Board shall stand.

# F. Construction Observation / Inspection Fee

The Town's Engineer shall observe and inspect the construction of required underground infrastructure and required public improvements that are not within the purview of the Building Inspector. The applicant shall pay a construction observation / inspection fee prior to the issuance of a building permit. This fee shall not be a fixed amount and will vary with the costs incurred. This fee shall be the reasonable costs to be incurred to observe and inspect the construction of the proposed improvements and shall be based on an estimate provided by the Town's Engineer. Failure by the applicant to pay the appropriate fee for construction observation / inspection services will result in the applicant's inability to attain any building permits. Failure to pay these fees within 30 days of the filing of the Definitive Plan (Form C) decision may result in the rescission of the Definitive Plan approval by the Planning Board.

# G. Other Costs and Expenses

All expenses for professional services, ancillary report reviews, supplemental studies, advertising, publication of notices, postage and mailings and all other expenses in connection to the proposed subdivision including without limitation sampling and/or testing, shall be borne by the applicant. Re-inspection fees shall be the reasonable costs to be incurred to observe and inspect the construction of the proposed improvements and shall be based on an estimate provided by the Town's Engineer.

# Section VIII - Forms and Documents

Form A: Application for Endorsement of Plan Believed Not to Require Approval

Form B: Application for Approval of Preliminary Plan

Form C: Application for Approval of Definitive Plan

Form N: Control Form for Processing Road Construction and Inspections

Typical Residential Collector Street with Sidewalks

Typical Concrete Sidewalk

Stormwater Management Standards

# Form A

Application for Endorsement of Plan Believed Not to Require Approval (ANR)

# FORM A

# APPLICATION FOR ENDORSEMENT OF PLAN BELIEVED NOT TO REQUIRE APPROVAL

| , 20  |
|---|
| To The Planning Board of the City/Town of   |
| The undersigned wishes to record the accompanying plan and requests a determination and endorsement by said Board that approval by it under the Subdivision Control Law is not required. The undersigned believes that such approval is not required for the following reasons: (Circle as appropriate.)  |
| 1. The accompanying plan is not a subdivision because the plan does not show a division of land.  |
| 2. The division of the tract of land shown on the accompanying plan is not a subdivision because every lot shown on the plan has frontage of at least such distance as is presently required by the zoning bylaw/ordinance under Section which requires feet for erection of a building on such lot; and every lot shown on the plan has such frontage on:            |
| a public way or way which the City or Town Clerk certifies is maintained and used as a public way, namely, or   |
| b. a way shown on a plan theretofore approved and endorsed in accordance with the subdivision control law, namely   |
| and subject to the following conditions; or   |
| c. a private way in existence on, the date when the subdivision control law became effective in the city/town of,   |
| having, in the opinion of the Planning Board, sufficient width, suitable grades, and adequate construction to provide for the needs of vehicular traffic in relation to the proposed use of the land abutting thereon or served thereby, and for the installation of municipal services to serve such land and the buildings erected or to be erected thereon, namely |
| The division of the tract of land shown on the accompanying plan is not a "subdivision" because it shows a proposed conveyance/other instrument, namely which adds to/takes away from/changes the size and shape of, lots in such a manner so that no lot affected is left without frontage as required by the  |
| zoning bylaw/ordinance under Section, which requires feet.  |
| The division of the tract of land shown on the accompanying plan is not a subdivision because two or more buildings, specifically   |
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|   |

APPLICANT'S NAME - PLEASE PRINT

· -----

·" \*}

|            | <del></del>   |   |
|------------|---|---|
| · <u>.</u> | The owner's title to the land is derived under, 20, and, 20, and, 20, and | r deed from, dated recorded in, Registry of or Land Court Certificate of Title No |
|            | Received by City/Town Clerk:  | Applicant's signatureApplicant's address  |
|            | Time  |   |
|            | Signature   | Applicant's phone #   |
|            | Treasurers office:  |   |
|            |   |   |
|            | •   |   |
| •          |   |   |

# Form A / ANR Checklist

The plan shall be suitable for recording (24" x 36") by the Plymouth County Registry of Deeds (Seven (7) additional copies reduced on ledge-sized paper shall accompany the submission) and shall include the following:

| 1.  |             | The title, "Approval Not Required Plan Drawn For (Name of Owner)";   |
|-----|-------------|--|
| 2.  |             | Name of record owner(s) of land shown on the plan;   |
| 3.  |             | Date, scale and north arrow;   |
| 4.  |             | Name, signature and seal of surveyor who prepared the plan;  |
| 5.  |             | Zoning district, tax assessor's map and lot number(s) and the location of any zoning district boundaries that may be within the locus of the plan;   |
| 6.  | <del></del> | A locus at a scale of $1" = 2000$ ', or sufficient to accurately identify where the property is located within the Town;   |
| 7.  | <del></del> | Name(s) of the present owner of the land and the name(s) of the abutter(s) as they appear on the most recent Assessor's records. If the applicant has knowledge of any changes subsequent to the most recent Assessor's records, he or she shall provide the name(s) of the present land owner(s) to the Planning Board;   |
| 8.  |             | Any remaining frontage of adjoining land in the same ownership as the subject parcel(s);   |
| 9.  |             | Any existing structures on adjoining land in the same ownership as the subject parcel;   |
| 10. |             | Location of all man made structures and significant natural features on the subject parcel(s) and significant natural features including existing buildings and structures, stone walls, rock outcrops, steep slopes, delineation of wetland resource areas (as approved by the Conservation Commission), easements, rights of way, water courses, drains, streets, ways, scenic roads, major trees (12-inch diameter or larger) and such other references known to the applicant to sufficiently identify any existing impediments to access upon the land. A topographic plan, at two (2)-foot contours, shall be provided where slopes exceeding 15% will impede access upon the land between the street and the proposed location of the structure or house; |
| 1.  |             | Boundary lines, dimensions, bearings, distances and areas of all lots to which the plan relates;   |

| 12 | Delineation of all streets and ways, both sides, indicating the width of pavement with a statement of whether or not all streets and ways shown or referred to are public or private ways, indicating the same as to each street or way so shown;   |
|----|---|
| 13 | Notice of any decision by the Zoning Board of Appeals, including but not limited to variances and exceptions or special permits pertaining to the land or any buildings thereon;  |
| 14 | The statement "Approval Under the Subdivision Control Law Not Required" together with sufficient space for the signatures of the required number of Board members and the date of endorsement;  |
| 15 | The following notes shall appear on the plan:   |
|    | This endorsement of the Planning Board should not be construed to be a determination of conformance with zoning regulations for all lots affected.  |
|    | This endorsement of the Planning Board should not be construed to be a determination of conformance with the Wareham Town By-Laws in accordance with Division VI, Article I and its implementing wetlands protection regulations as well as Massachusetts Wetlands Protection Act, M.G.L. Ch. 131, §40 and its implementing regulations, 310 CMR 10.00 for all lots affected. |
|    | This endorsement of the Planning Board should not be construed to be a determination of conformance with the Zoning By-Law relative to Irregularly-Shaped Lots, Upland Area, Lot Width, Open Space and Lot Coverage in accordance with Article 6, §615; Article 6, §612; Article 10; Article 6, §620 for all lots affected.   |
|    | This endorsement of the Planning Board should not be construed to be a determination of conformance with the Earth Removal Regulations in accordance with Division IV, Article III of the Town By-Laws for all lots affected.   |
| 16 | On any plan wherein the Board deems it necessary or consistent with the purpose and intent of these Rules and Regulations or wherein additional information is necessary for the Board to make a determination of "Approval Not Required", such additional information as the Board may so request.   |

# PLANNING BOARD TAX VERIFICATION FORM

| This verifies that              | (name of appl                        | icant) is up-to-    |
|---------------------------------|--------------------------------------|---------------------|
| date on the taxes for the prope | erty(ies) he/she owns in Wareham.    | If the applicant is |
| not the current owner of the p  | roperty that the application address | ses, the current    |
| owner                           | (name of property owner) is up       | -to-date on taxes   |
| on all properties he/she owns   | in the Town of Wareham.              | ,                   |
| John Foster, Tax Collector      | <del></del>                          |                     |

# Form B

Application for Approval of Preliminary Plan

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#### FORM B

## APPLICATION FOR APPROVAL OF A PRELIMINARY PLAN

|   | vn of   |
|---|---|
| proposed subdivision shown on a plan                                    | as defined under Chapter 41, Section 81-L, for approval of a entitled:  |
| Ву  | dated ,   |
| and described as follows:   |   |
| said plan as a Preliminary subdivision                                  | age of tract, number of plan in accordance with the Rules and Regulations of the goard and makes application to the Board for approval of |
| said plan.  |   |
| terry   |   |
|   | derived from  |
|   |   |
| by deed dated<br>District Registry of Deeds Book                        | and recorded in the, registered in the  |
| by deed dated<br>District Registry of Deeds Book                        | and recorded in the, registered in the  |
| by deed dated<br>District Registry of Deeds Book                        | and recorded in the, registered in the  |
| by deed dated District Registry of Deeds Book  Certificate of Title No  | and recorded in the, registered in the, Registry District of the Land Court,  |
| by deed dated District Registry of Deeds Book  Certificate of Title No. | and recorded in the, registered in the  |
| by deed dated   | and recorded in the, registered in the  |
| by deed dated   | and recorded in the, Page, registered in the Registry District of the Land Court,  Applicant's signature Applicant's address              |
| by deed dated   | and recorded in the, registered in the  |
| by deed dated   | and recorded in the, registered in the  |
| by deed dated   | and recorded in the, registered in the  |
| by deed dated   | and recorded in the, registered in the  |

Massachusetts Federation of Planning and Appeals Boards 1972 (Revised 1980, 1983, 1988)

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#### FORM B/PRELIMINARY PLAN CHECKLIST

The Preliminary Plan shall be drawn on appropriate, reducible paper and should exhibit the following information by which to form a clear basis for discussion and for the preparation of a Definitive Plan:

| 1.  | The title, "Preliminary Plan of (name of subdivision)";  |
|-----|--|
| 2.  | Date, scale, North arrow, Assessor's Map(s) and Lot(s) number(s) and a legend to explain any graphic representation or symbols on the plan;        |
| 3.  | The names, addresses and telephone numbers of the owner(s) of record and applicant(s);   |
| 4.  | The names of the designer, engineer and/or surveyor who prepared the plan;   |
| 5.  | The names of all abutters, as determined form the most recent local tax list;  |
| 6.  | The existing and proposed lines of streets, ways, easements and any public areas within the subdivision;   |
| 7.  | The proposed drainage system, including adjacent existing natural waterways;   |
| 8.  | The approximate boundary lines, dimensions, and areas of proposed lots;  |
| 9.  | The names, locations, and widths of adjacent streets;  |
| 10. | The general topography of the land;  |
| 11. | Location and distance to nearest public water and sewer utility services;  |
| 12. | A locus map at 1"=2000' and an aerial map exhibiting the general area surrounding the subject property (approximately ½ mile surrounding the site) |

This application constitutes the applicant's willingness to work under the Town of Wareham's Subdivision Rules and Regulations. Any errors or omissions from this checklist or the Subdivision Regulations may result in the application not being placed on a Planning Board agenda or a denial of this Form B/Preliminary Plan.

### RECORD OF PLANNING BOARD PROCEEDINGS AND DECISIONS

Name of Subdivision or Project:

| APPLICATION:                        | FORM A                             | FORM B                           | FORM C                  | <u>-</u>      |
|-------------------------------------|------------------------------------|----------------------------------|-------------------------|---------------|
| •                                   | SITE PLAN RE                       | VIEW                             | OTHER                   |               |
| DATE SUBMITT                        | ED:                                | ·                                |                         |               |
| DATE DECISION                       | IS DUE:                            |                                  |                         |               |
| DATE OF PUBLI                       | C HEARING(S):                      |                                  |                         |               |
| DECISION DATE                       | <b>:</b>                           |                                  |                         |               |
| DATE DECISION                       | SENT TO TOWN (                     | CLERK:                           |                         |               |
| DATE APPEALS I                      | PERIOD BEGINS                      | ENDS _                           |                         |               |
| PLANNING BOAF<br>recusal form sho   | RD DECISIONS: (yould accompany dec | es or no or abstentior<br>cision | ) if abstaining, approp | riate         |
| A. Journ                            | G. Barrett                         | _Mary Davey Morley _             | Charles Klueber         | <del></del> - |
| FORM D:                             | G. Barrett                         | _Mary Davey Morley               | Charles Klueber _       |               |
| M. Baptiste<br>A. Slavin            | G. Barrett                         | Mary Davey Morley_               | Charles Klueber         |               |
| Site Plan:<br>M. Baptiste           | G. Barrett                         | Mary Davey Morley_               | Charles Klueber _       |               |
| からしまれ<br>COMMENTS OR S<br>DECISION: | TIPULATIONS ON                     |                                  |                         |               |
|                                     |                                    |                                  |                         | <u>.</u>      |
| TREET NAME PR                       | OPOSED AND ACC                     | EPTED:                           | **                      |               |

| Conditions |      |      |   |   |
|------------|------|------|---|---|
| for:       | <br> |      |   |   |
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# PLANNING BOARD TAX VERIFICATION FORM

| This verifies that                   | (name of applica                  | nt) is up-to-    |
|--------------------------------------|-----------------------------------|------------------|
| date on the taxes for the property(  | ies) he/she owns in Wareham. If   | the applicant is |
| not the current owner of the prope   |                                   |                  |
| owner                                | (name of property owner) is up-to | -date on taxes   |
| on all properties he/she owns in the | ne Town of Wareham.               |                  |
|                                      | ·                                 |                  |
| •                                    |                                   |                  |
|                                      |                                   | •                |
| John Foster, Tax Collector           | •                                 |                  |

# Form C

Application for Approval of Definitive Plan

#### FORM C

# APPLICATION FOR APPROVAL OF DEFINITIVE SUBDIVISION PLAN

| To the Planning Board of the (City/Town) of  The undersigned, being the applicant as defined under Chapter 41, Section 81-L, for an a proposed subdivision shown on a plan entitled  by and described as follows: located number of lots proposed hereby submits said plan as a DEFINITIVE plan in accordance with the Rules and Reguling the for approval of said plan.  The undersigned's title to said land is derived from  by deed dated District Registry of Deeds Book Page registered in the District Registry of Deeds Book Registry District of the Land Court, Certificate of Title No.  Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo encumbrances except for the following:  Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo and approved (with modifications) ( ) (disapprove on 20 and approved (with modifications) ( ) (disapproved on 20 and approved (with modifications) ( ) (disapproved on 20 and approved (with modificat | 1                |
|--|------------------|
| a proposed subdivision shown on a plan entitled  |                  |
| and described as follows: located  |                  |
| hereby submits said plan as a DEFINITIVE plan in accordance with the Rules and Regultor approval of said plan.  The undersigned's title to said land is derived from   | . 20             |
| Planning Board and makes application to the plan approval of said plan.  The undersigned's title to said land is derived from  by deed dated   |                  |
| Planning Board and makes application to the for approval of said plan.  The undersigned's title to said land is derived from   |                  |
| The undersigned's title to said land is derived from   | ations           |
| by deed dated  | ne Hoai          |
| District Registry of Deeds Book, Page, registered in the   |                  |
| Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo on   |                  |
| Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo on, 20 and approved (with modifications) ( ) (disapproved on, 20  The undersigned hereby applies for the approval of said DEFINITIVE plan by the Board, in that the plan conforms to the Board's Rules and Regulations.  Received by City/Town Clerk: Applicant's signature  Applicant's address  Applicant's phone #  Owner's signature and address if not the applicant or applicant or applicant's authorization if not the owner.  |                  |
| Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo on, 20 and approved (with modifications) ( ) (disapproved on, 20 and approved (with modifications) ( ) (disapproved on, 20 and approved (with modifications) ( ) (disapproved on, 20 and approved (with modifications) ( ) (disapproved on, 20 and approved (with modifications) ( ) (disapproved on, 20   | <del>-,-</del> - |
| Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo on, 20 and approved (with modifications) ( ) (disapproved on, 20  The undersigned hereby applies for the approval of said DEFINITIVE plan by the Board, in that the plan conforms to the Board's Rules and Regulations.  Received by City/Town Clerk: Applicant's signature  Applicant's address  Applicant's phone #  Owner's signature and address if not the applicant or applicant's authorization if not the owner.   | free c           |
| Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo  |                  |
| Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Bo  |                  |
| The undersigned hereby applies for the approval of said DEFINITIVE plan by the Board, in the plan conforms to the Board's Rules and Regulations.  Received by City/Town Clerk:  Applicant's signature  Applicant's address  Applicant's phone #  Owner's signature and address if not the applicant or applicant or applicant's authorization if not the owner   |                  |
| The undersigned hereby applies for the approval of said DEFINITIVE plan by the Board, in the plan conforms to the Board's Rules and Regulations.  Received by City/Town Clerk:  Applicant's signature  Applicant's address  Applicant's phone #  Owner's signature and address if not the applicant or applicant or applicant's authorization if not the owner   |                  |
| The undersigned hereby applies for the approval of said DEFINITIVE plan by the Board, in the plan conforms to the Board's Rules and Regulations.  Received by City/Town Clerk:  Applicant's signature  Applicant's address  Applicant's phone #  Owner's signature and address if not the applicant or applicant or applicant's authorization if not the owner   | pard or          |
| The undersigned hereby applies for the approval of said DEFINITIVE plan by the Board, in the plan conforms to the Board's Rules and Regulations.  Received by City/Town Clerk:  Applicant's signature  Applicant's address  Applicant's phone #  Owner's signature and address if not the applicant or applicant's authorization if not the owner  Received by Board of Health   | ed) (            |
| Applicant's signature  | cu) (            |
| Applicant's signature  | _                |
| Applicant's signature  | n belief         |
| Applicant's address  Applicant's address  Applicant's phone #  Owner's signature and address if not the applicant or applicant's authorization if not the owner  Applicant or applicant or applicant's authorization if not the owner  |                  |
| Applicant's phone #  |                  |
| Applicant's phone # Owner's signature and address if not the applicant or applicant's authorization if not the owner  Date:  Date:  applicant or applicant's authorization if not the owner  |                  |
| Applicant's phone #  |                  |
| gnature  |                  |
| gnature Date: applicant or applicant's authorization if not the owner signature and address if not the applicant or applicant's authorization if not the owner signature and address if not the applicant or applicant's authorization if not the owner signature and address if not the applicant or applicant if not the owner signature and address if not the applicant or applicant or applicant if not the owner signature and address if not the applicant or applicant if not the owner signature and address if not the applicant or              | <del></del>      |
| if not the owner  te  applicant or applicant's authorization if not the owner  |                  |
| eceived by Board of Health   |                  |
| ile  |                  |
| ne   |                  |
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| mature   |                  |
| eck-list of items to be submitted with application.  |                  |
| to be submitted with application.  |                  |
| — Form C application   |                  |
| - Application fee:   |                  |
| Amount submitted s   |                  |
| — Uriginal Plan: # shoots  |                  |
| Copies of Plan: # copies   |                  |
| Engineering calculations   |                  |

### Town of Wareham Street Name Application Form

| Applicant                  |  |                                 |                  | plication Date:             |                |
|----------------------------|--|---------------------------------|------------------|-----------------------------|----------------|
| • C                        | heck with Planning Board or Bo                                       | ard of Selectmen                | to determine ava | ailability of street names. |                |
| Fo                         | rm B, or Form C.   | - от <del>ельо</del> г эповія О | e anomitted with | a completed application for | rForm A        |
| • No                       | ote: Use this form for any new st                                    | reet name reques                | ls for public OR | private ways.               |                |
| To the Pl                  | anning Board:  |                                 |                  |                             |                |
| The under                  | signed applicant requests t  | he Board'e an                   | arount of the    | 2.11.                       | •              |
| ٠,                         | LE -pag program  | עט וואטונפ אטיפ                 | a hian entitle   | d,                          |                |
| <del></del>                |  |                                 | a pian chune     | u                           | · · · · ·      |
|                            |  |                                 |                  |                             |                |
| Proposed                   | Street name(s):  |                                 | Alternative      | name(s):                    |                |
|                            |  |                                 |                  | <u> </u>                    |                |
|                            |  |                                 |                  |                             |                |
|                            |  | ·                               |                  | <del></del>                 |                |
|                            | <del></del>  | <del></del> -                   | <del></del>      | <del></del>                 |                |
|                            |  |                                 |                  |                             | <del></del>    |
|                            | Applican   | f's Signature                   |                  | •                           |                |
|                            | rr   | Address:                        | <del></del>      |                             | <del>,</del> . |
|                            |  | 11001055,                       |                  | <del></del>                 | <del></del>    |
|                            |  |                                 |                  | <u> </u>                    |                |
| The Planning proposed stre | • •  | nents on this a                 |                  | approval of the above       |                |
|                            | (4)  | nents on this a                 | pplication for   | approval of the above       |                |
|                            |  | nents on this a                 | pplication for   | approval of the above       |                |
|                            |  | nents on this a                 | pplication for   | approval of the above       |                |
|                            | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit              | your comments to the Plan  | nents on this a                 | pplication for   | approval of the above       |                |
| Please submit Approved Nat | your comments to the Planne(s):                                      | nents on this a                 | epplication for  | approval of the above       |                |
| Please submit Approved Nat | your comments to the Plan  me(s):  d Signatures:  Board of Selectmen | nents on this a                 | efore:A          | approval of the above       |                |
| Please submit              | your comments to the Planne(s):                                      | nents on this a                 | efore:A          | approval of the above       |                |

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## FORM C/DEFINITIVE PLAN CHECKLIST

#### PLAN CONTENTS:

The Definitive Plan shall be prepared by a registered engineer or registered land surveyor and shall be clearly and legibly drawn in black ink upon mylar suitable for registering at the Plymouth County Registry of Deeds (24"X36"). The plan shall be at a scale of one inch equals 40 feet (1"+40") or such other scale that the board may accept, to show details in a clear and adequate fashion. In addition, 10 copies of reduced plans on ledger-size paper (11"X17") shall accompany the Definitive Plan submission. At a minimum, the plan shall contain the following information:

|      | 1 The title, "Subdivision Plan of (name of subdivision)";  |
|------|--|
|      | Date, scale, North arrow, Assessor's Map(s) and Lot(s) number(s) and a legend to explain any graphic representation or symbols on the plan;  |
| 3    | The names, addresses and telephone numbers of the owner(s) of record and applicant(s);   |
| 4.   | rue names of the designer, engineer and/or surveyor who prepared the plan:   |
| 5.   | The names of all abutters, as determined form the most recent local tax list, including property owners on the opposite side of any street abutting the subdivision;   |
| · 6. | Book and page deed references of the property to be subdivided;  |
| 7.   | A note referring to which lost will be served by either Town Water Supply, private wells, municipal seer or private septic systems and the location of the nearest existing public water and sewer utility services;   |
| 8.   | A locus map at 1"=2000', exhibiting the boundaries of the proposed subdivision, location of proposed streets and relation to adjoining properties within a radius of one quarter mile and an aerial map exhibiting the general area surrounding the subject property (approximately ½ surrounding the site); |
| 9.   | The zoning district, including any overlay district, of the land shown on the plan;  |
| 10.  | The location of all wetlands protected under CMR 10.00 Wetlands Protection. If protected Wetlands are to be filled or altered, an approval from the Wareham Conservation Commission must accompany this definitive application;  |
| 11.  | Sufficient data to readily determine the location, direction and length of every street, way, easement, lot and boundary line and to establish those lines on the ground. The areas of all lots shall be shown and all lots shall be numbered. All bearings are to be  |

referred to Massachusetts Prime Meridien if reference points are within a reasonable distance; 12. The location and present widths of streets bounding, approaching or within a reasonable proximity of the subdivision (500'); 13. The location of all permanent monuments, properly identified as to whether existing or proposed; location of temporary stakes to enable the Planning Board to find and appraise features of the subdivision plan; 14. Proposed street names with approval of the Town's 911 system; 15. Any public or common areas within the subdivision: 16. The location of all abutting land owned by the applicant not presently being subdivided; A suitable block to record the action and signatures of the Planning Board; 17. A suitable block for the Town Clerk's signature along with the statement "I hereby 18. certify that 20 days have elapsed since the notice of approval from the Planning Board was received and recorded, and no notice of appeal has been filed in this office"; - 19. A listing of all requested waivers from the literal requirements of these Rules and Regulations; 20. A contour plan showing existing and proposed topography at 2' intervals related to an existing permanent benchmark; 21. \_\_ Utility plan showing in plan and profile, but not limited to, the size and location of existing and proposed water and sewer lines, hydrants, electric lines, telephone lines, gas lines, fire alarm systems, cable television lines, storm drains and any easements pertinent thereto: A drainage plan shall be prepared showing existing and proposed streets, lots, 2' contours and other pertinent data; the drainage limits and acreage of the area tributary to each stormwater inlet and culvert; location and type of inlets proposed; location, size, length, invert elevations, slope of proposed drains and culverts; structural details of inlets, manholes, pipe, headwalls and all other drainage structures required to complete the plan; a. an estimate of the present rate and volume of run-off, as well as an estimate of the rate and volume of run-off that would occur after completion of the proposed subdivision, shall both be submitted along with supporting data. In calculating the run-off and drainage requirements, consideration shall be given to the impact of septic systems on the ability of the soil to absorb any additional stormwater, as well as any upgradient run-off which may impact on the subdivision.

23. Street plans and profiles at a horizontal scale of one inch equals forty feet (1"=40") and a vertical scale as the Planning Board may approve. The following information shall be included: a. exterior lines of the right of way with sufficient data to determine their location direction and length; b. existing centerline profile to be shown as a fine continuous line. Existing centerline profile for intersecting streets to be shown for at least 10', each side of the intersection of street centerlines. Proposed right sideline shall be shown as a dashed black line, left sideline as black dots. Elevations shall be based on USGS datum; c. proposed centerline profile to be a heavy continuous line with elevations based on USGS datum shown every 50', every 25' on vertical curves: d. road centerline stationing. -24. a typical section showing proposed roadway construction at a scale of one inch equals ten feet (1"=10") shall be provided with the profile plan (see typical section in appendix). 25. street lights and tree planting plan shall be provided for the area within the proposed street right of way. The plan shall be superimposed on the contour plan ans shall show the following: a. existing trees to be preserved within the right of way; b. any proposed street trees: c. existing and proposed street lights. 26. if the Planning Board determines that erosion due to development activity will be excessive or significant to wetlands, streams, ponds or other water bodies, the developer shall submit a soil erosion and sedimentation control plan. This plan shall consist of a drawing certified by a registered civil engineer, identifying appropriate control measures and their locations; 27. if necessary, to determine compliance with these rules and regulations, the Board may require further engineering or environmental analysis to be prepared at the expense of the applicant, employing professionals approved by the Board.

This application constitutes the applicant's willingness to work under the Town of Wareham's Subdivision Rules and Regulations. Any errors or omissions from this checklist of the Subdivision Regulations may result in the application not being placed on a Planning Board agenda or a denial of this definitive plan.

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# RECORD OF PLANNING BOARD PROCEEDINGS AND DECISIONS Town of Wareham Planning Board

| APPLICATION:                | FORM A                   | FC             | ORM B                | _ FORM C_       |
|-----------------------------|--------------------------|----------------|----------------------|-----------------|
|                             | SITE PLAN                | REVIEW         | OTHER                | R               |
| DATE SUBMITTE               | D:                       | <del></del>    |                      |                 |
| DATE DECISION I             |                          |                |                      |                 |
| OATE OF PUBLIC              |                          |                |                      |                 |
| ECISION DATE:_              |                          |                |                      |                 |
| ATE DECISION S              |                          |                |                      |                 |
| ATE APPEALS P               |                          |                |                      |                 |
| LANNING BOAR                | D DECISIONS any decision | (yes, no or ab | stention) if abstain | ing, appropriat |
| orm A:<br>[. Baptiste c     | . Klueber                | G. Barrett     | M. Morley            | A. Slavir       |
| orm B:<br>. Baptistec       | . Klueber                | G. Barrett     | ,<br>M. Morley       | A. Slavin       |
| orm C:<br>. Baptistec       |                          |                |                      |                 |
|                             |                          |                |                      |                 |
|                             | . Klueber                | G. Barrett     | M. Morley            | A. Slavin       |
| . Baptiste c  OMMENTS OR ST | . Klueber                | <u>ON</u>      | M. Morley            |                 |

# PLANNING BOARD TAX VERIFICATION FORM

| This verifies that              | (name of applicant) is up-to-                        |
|---------------------------------|--|
| date on the taxes for the prope | rty(ies) he/she owns in Wareham. If the applicant is |
| not the current owner of the pr | roperty that the application addresses, the current  |
| owner                           | (name of property owner) is up-to-date on taxes      |
| on all properties he/she owns i | n the Town of Wareham.                               |
|                                 |  |
|                                 |  |
| John Foster, Tax Collector      | <del></del>  |

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# Form F

Covenant

#### FORM F

#### COVENANT

#### Town of Wareham, Massachusetts

| proval of a definitive plan of a subdivision of land entitled:  py:, dated:  wned by:  pocated:   |
|---|
| oy:, dated:wned by:   |
| wned by:  |
| wned by:  |
| 55  |
| nosted:   |
| - VALUE I   |
| nowingproposed residential lots and open space lots. The signed has requested the Planning board to approve such plan without requiring a performance   |
| ONSIDERATION of said Planning Board of Wareham in the County of Plymouth ving said plan without requiring a performance bond, the undersigned hereby covenants and with the Inhabitants of the Town of Wareham as follows:  |
| That the undersigned is the owner in fee simple absolute of all the land included in the subdivision and that there are no mortgages of record or otherwise on any of the land.   |
| That the undersigned will not sell or convey any lot in the subdivision or erect or place any permanent building on any lot until the construction of ways and installation of municipal services necessary to adequately serve such lot has been completed in accordance with the covenants, conditions, agreements, terms and provisions as specified in the following: |
| The Application for Approval of Definitive Plan (Form C).   |
| The Subdivision Control Law and the Planning Board's Rules and Regulations governing this subdivision.  |
| The Certificate of Approval and the conditions of approval specified therein, issued by the Planning Board, dated   |
| The definitive plan as approved and as qualified by the Certificate of Approval.  |
| Other document(s) specifying construction to be completed, namely:  |
|   |
|   |

- 3. That this covenant shall be binding upon the executors, administrators, devisees, heirs, successors and assigns of the undersigned and shall constitute a covenant running with the land included in the subdivision and shall operate as restrictions upon the land.
- 4. That particular lots within the subdivision shall be released from the foregoing by the Planning Board and enumerating the specific lots to be released.
- 5. That nothing herein shall be deemed to prohibit a conveyance by a single deed subject to this covenant, of either the entire parcel of land shown on the subdivision plan or of all lots not previously released by the Planning Board.
- 6. That the undersigned agrees to record this covenant with the Plymouth County Registry of Deeds forthwith, or to pay the necessary recording fee to the said Planning Board in the event the Planning Board shall record this agreement. Reference to this covenant shall be entered upon the definitive subdivision plan as approved.
- 7. A deed of any part of the subdivision in violation of the covenant shall be voidable by the grantee prior to the release of the covenant, but not later than three (3) years from the date of such deed as provided in Section 81-U, Chapter 41, M.G.L.
- 8. That this covenant shall be executed before endorsement of approval of the definitive plan by the Planning Board and shall take effect upon the endorsement of approval.
- 9. Upon final completion of the construction of ways and installation of municipal services as specified herein, on or before \_\_\_\_\_\_\_\_ the Planning Board shall release this convenant by an appropriate instrument, duly acknowledged. Failure to complete construction and installation within the time specified herein or such later date as may be specified by vote of the Planning Board with a written concurrence of the applicant shall result in automatic rescission of the approval of the plan. Upon performance of this convenant with respect to any lot, the Planning Board may release such lot from this convenant by an appropriate instrument duly recorded.
- 10. Nothing herein shall prohibit the applicant from varying the method of securing the construction of ways and installation of municipal services from time to time or from securing by one, or in part by one and in part by another, of the methods described in M.G.L. Chapter 41, Section 81-U, as long as such security is sufficient in the opinion of the Planning Board to secure performance of the construction and installation.

| Deeds, Book, Page                     | orded in <u>Plymouth County</u> Registr<br>, or registered in | y of |
|---------------------------------------|---|------|
| Land Registry as Document No          | , and noted on certificate of title no                        |      |
| in Registration Book                  | , Page  |      |
| The present holder of a mortgage upo  |   |      |
| The mortgage is dated                 | and recorded in   |      |
| Land Registry as Document No          | and noted on certificate of title no                          |      |
| in Registration Book                  | page The mortgagee agrees to hold t                           | ho   |
| mortgage subject to the covenants set | public The mortgagee agrees to note in                        | 3110 |

| and further agrees that the mortgage shall be   |  |
|---|--|
| hereby agrees that such interest as I, we, may  | , spouse of the undersigned applicant have in the premises shall be subject to the necessary releases all rights of tenancy by the dower     |
| IN WITNESS WHEREOF we have hereunto of, 20:   | set our hands and seals this   |
| OWNER:  | · <del></del>  |
| Ву:   |  |
|   |  |
|   |  |
|   | Acceptance by a Majority of the Planning Board of Wareham.   |
| Planning Board representative Owner or owners Spouse of the owner Mortgagee             |  |
| COMMONWEALTH  | HOF MASSACHUSETTS  |
| proved to me through satisfactory evidence <u>Oriver's License</u> to be the person who | e of identification, which was a Massachusetts se name is signed on the preceding or attached te) (she) signed it voluntarily for its stated |
|   |  |
|   | Signature of Notary Public Name:   |
| · · · · · · · · · · · · · · · · · · ·   | My commission expires  |

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# Form N

Control Form for Processing Road Construction and Inspections

#### FORM N

# CONTROL FORM FOR PROCESSING SUBDIVISION PLAN AND CONSTRUCTION

| SUBDIVISION PLAN ENTITLED:        |                                       |
|-----------------------------------|---------------------------------------|
| LAND LOCATED:                     |                                       |
| BY:                               |                                       |
| APPLICANT:                        | ADDRESS:                              |
| PHONE:                            |                                       |
|                                   | <del>_</del>                          |
| DATE OF PRELIMINARY PLAN          |                                       |
| DATE OF PRELIMINARY PLAN SUBMISS  | SION (PS)                             |
| PRELIMINARY PLAN APPROVAL DATE    | (PS+45)                               |
| DATE OF DEFINITIVE PLAN           |                                       |
| SUBMISSION DATE(S)                |                                       |
| CHECK: REC'D FORMS REC'           | DPLANS REC'D                          |
| DATE OF DEFINITIVE PLAN SUBMISSIO | N TO BOARD OF HEALTH (SH)             |
| DATE RECEIVED BOARD OF HEALTH R   | EPORT (SH + 45)                       |
| DATE OF PLAN SUBMISSION TO OTHER  | BOARDS AND AGENCIES                   |
| BOARD:                            |                                       |
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| <del></del>                       | <del></del>                           |
| DATE RECEIVED REPORTS FROM OTHE   | R BOARDS AND AGENCIES:                |
| BOARD:                            | · · · · · · · · · · · · · · · · · · · |
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#### INSPECTIONS

| DATE        | TYPE  | SIGNATURE OF INSPECTOR WHEN INSPECTION COMPLETED |
|-------------|---|--|
|             | Clearing, grubbing & Excavation Drainage system | <u> </u>   |
|             | Water system                                    |  |
|             | Sewer system                                    |  |
| <del></del> | Underground utilities                           | · · · · · · · · · · · · · · · · · · ·            |
| 3<br>4      | Backfill, fill, & rough grading Gravel base     |  |
| 5           | Compaction testing                              |  |
| 6           | Bituminous Concrete                             |  |
|             | Binder Course/curbs/berms                       | S  |
| 7<br>8      | Surface Course                                  | ·  |
|             | Loam & seed                                     |  |
|             | Street trees                                    |  |
|             | Road signs                                      |  |
|             | Street lights                                   |  |
|             | Fire hydrants                                   |  |
|             | Fire alarm system                               |  |
|             | Other   |  |
| 9           | Bounds  |  |
| 10          | Final inspection                                |  |
|             | Final clean-up                                  |  |

# **Typical Residential Collector Street with Sidewalks**

## And

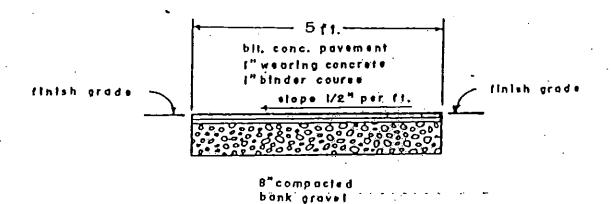
**Typical Concrete Sidewalk** 

50' R.O.W

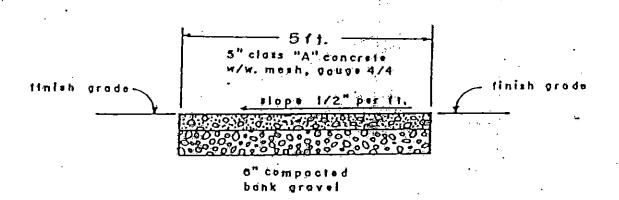
TYPICAL RESIDENTIAL COLLECTOR STREET WITH SIDEWALKS

Not to Scale

Λ-



TYPICAL BITUMINOÚS CONCRETE SIDEWALK SECTION



TYPICAL CONCRETE SIDEWALK SECTION

**Stormwater Management Standards** 

# **CHAPTER 1: Stormwater Management Standards**

## Stormwater Management Policy

#### Purpose

The goal of the Stormwater Management Policy is to improve water quality and address water quantity problems by the implementation of performance standards for stormwater management. Urban runoff and discharges from stormwater outfalls are the single largest source responsible for water quality problems in the Commonwealth's rivers, lakes, ponds, and marine waters. The Stormwater Management Standards establish clear and consistent guidelines for stormwater management in Massachusetts. The Standards are designed for use under multiple statutory and regulatory authorities of the Department of Environmental Protection, including the Wetlands Protection Act, as amended by the Rivers Protection Act, and the Clean Waters Act.

Stormwater discharges occur as rainfall and snow melt carries pollutants to surface and groundwater. New and existing development increases impervious surfaces, which alters natural drainage features, increases peak discharge rates and volumes, and reduces recharge to maintain wetlands and baseflows in streams. Development also results in corresponding increases in the concentration and types of pollutant loadings, including nutrients, solids, metals, salt, pathogens, pesticides, and hydrocarbons. Best Management Practices (BMPs) reduce or prevent pollutants from reaching water bodies and control the quantity of runoff from a site. The Stormwater Management Standards address both water quality (pollutants) and water quantity (flood control) problems by establishing the level of required controls through the use of BMPs.

The Stormwater Management Standards are intended to be applied during routine project review by issuing authorities under the Wetlands Protection Act. Use of the standards should prevent or minimize adverse environmental impacts due to unmanaged stormwater while limiting undue costs and recognizing site constraints. Applicants should submit the one-page form developed by DEP which presents in a simple and concise format how the Stormwater Management Standards have been met. The form will allow commissions and the Department easy access to the stormwater management components of the project, and should simplify the review process for the applicant.

### Regulatory Authority

The basic approach to implement the Stormwater Management Standards is to rely on review by conservation commissions or the Department under the Wetlands Protection Act for new development and on the Department's authority under the state Clean Waters Act for remediation of existing discharges. The Standards support existing legal authority, serving as the

Department's interpretation of its existing regulations<sup>1</sup>.

For new development and redevelopment, conservation commissions or the Department should regulate stormwater through an Order of Conditions whenever jurisdiction is established under the Wetlands Protection Act. Unmanaged and untreated stormwater will alter resource areas and require conditions to meet certain performance standards and to protect the interests of the Act. The Guidance for Implementation of the Rivers Protection Act requires projects to manage stormwater according to these Standards.<sup>2</sup>

The regulations contain explicit jurisdiction over point source discharges, including stormwater. In the absence of an NPDES permit entitled to a presumption, local conservation commissions or the Department should comply with 310 CMR 10.05(6) which instructs issuing authorities to impose conditions on the quality and quantity of discharges from either closed or open channel point sources to protect the interests of the Act provided the point source is within a resource area or the buffer zone. Even if the source of the stormwater discharge originates outside jurisdictional areas, issuing authorities should ensure that the Standards are met at the point of discharge, provided the discharge is within geographic jurisdiction. In addition, by placing limitations on the quantity of the discharge from any point sources, commissions and the Department can ensure that the stormwater generated from future developments cannot simply be routed through existing drainage outfall pipes.

To address existing discharges, the Department will use watershed assessments and remedial action under its Clean Waters Act authority. Existing discharges include municipal storm sewer systems and drainage structures from developed areas with point sources to wetlands or water bodies.

#### <sup>1</sup>Applicable Regulations and Requirements

Administered by conservation commissions and the Department:

310 CMR 10.00 (Wetlands Protection Act)

Rivers Protection Act Amendments to the Wetlands Protection Act

Administered by the Department of Environmental Protection:

314 CMR 9.00 (401 Water Quality Certification)

314 CMR 3.00 (Surface Water Discharge Permit Program)

314 CMR 4.00 (Surface Water Quality Standards)

314 CMR 5.00 (Groundwater Discharge Permit Program)

314 CMR 6.00 (Ground Water Quality Standards)

401 Certification Conditions of EPA General Permits

<sup>2</sup>The performance standards also apply under the set back and BMP requirements for stormwater management in DEP's 401 Water Quality Certification program (314 CMR 9.06) and the state certification requirements for EPA's General and Multi-Sector Permits for Stormwater Discharges.

<sup>3</sup>Under 310 CMR 10.03, the effluent limits of an NPDES permit are presumed to protect the interests of the Act; this refers to individual rather than general permits. EPA has issued very few individual NPDES permits for stormwater discharges.

<sup>4</sup>For example, a developer proposes an overflow pipe within the buffer zone from a detention basin that is outside the riverfront area. The issuing authority can insist that the standards are met at the overflow pipe but cannot prescribe the BMP, such as the detention basin, used to achieve the standards. In order to evaluate whether the standards can be met, the issuing authority may require information about structures and practices beyond the riverfront area provided it is directly related to the discharge.

Massachusetts has regulations under the state Clean Waters Act specifying when a state surface water discharge permit for stormwater is required. Discharges that meet the Stormwater Management Standards do not need permits. Discharges that do not meet the Standards may be identified during water quality sampling conducted in each basin as part of the watershed assessment and planning process. The Department will promote voluntary compliance wherever possible. In some cases, DEP may designate a discharge as a significant contributor of pollutants which requires a permit or use enforcement mechanisms to achieve remediation of stormwater-impaired waterways.

#### **Applicability**

The Stormwater Management Standards apply to industrial, commercial, institutional, residential subdivision, and roadway projects, including site preparation, construction, redevelopment, and on-going operation.

The Stormwater Management Standards do not apply to:5

- (1) Single-family house projects;
- (2) Residential subdivisions with four or fewer lots, provided any discharge will not affect a critical area; or
- (3) Emergency repairs to roads or their drainage systems.

The Stormwater Management Standards apply to the extent practicable to:

- (1) Residential subdivisions with four or fewer lots with a discharge potentially affecting a critical area; and
- (2) Five to nine residential lots, provided any discharge will not affect a critical area.

BMPs for compliance "to the extent practicable" must, at a minimum, include: extended detention pond, water quality swale, dry well (rooftop runoff only), sand and organic filter, and/or pretreatment devices. Project proponents must demonstrate that they are implementing the highest practicable level of stormwater treatment. Critical areas are Outstanding Resource Waters (ORWs), shellfish beds, swimming beaches, cold water fisheries, and recharge areas for public water supplies.

The Stormwater Management Standards apply to five to nine lot residential subdivisions with discharges potentially affecting critical areas and any subdivision of 10 or more lots, as well as other activities. Residential development that is part of a phased development project does not qualify for the exemption. These thresholds do not preclude these activities from meeting applicable state regulatory requirements not directly related to the stormwater discharge.

For projects of any size, direct discharges of untreated stormwater from pipes to wetlands or waters are not allowed. Erosion and sedimentation control during construction must be provided.

#### "Stormwater Management Standards 1997 1998 1998

The Department will presume that projects meeting the Stormwater Management Standards satisfy regulatory requirements. When one or more of the Standards cannot be met, an applicant may demonstrate that an equivalent level of environmental protection will be provided.

- 1. No new stormwater conveyances (e.g., outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.
- Stormwater management systems must be designed so that post-development peak discharge rates do not exceed pre-development peak discharge rates.
- 3. Loss of annual recharge to groundwater should be minimized through the use of infiltration measures to the maximum extent practicable. The annual recharge from the post-development site should approximate the annual recharge from the pre-development or existing site conditions, based on soil types.<sup>6</sup>
- 4. For new development, stormwater management systems must be designed to remove 80% of the average annual load (post-development conditions) of Total Suspended Solids (TSS). It is presumed that this standard is met when:
  - (a) Suitable nonstructural practices for source control and pollution prevention are implemented;
  - (b) Stormwater management best management practices (BMPs) are sized to capture the prescribed runoff volume; and
  - (c) Stormwater management BMPs are maintained as designed.
- 5. Stormwater discharges from areas with higher potential pollutant loads require the use of specific stormwater management BMPs (see chart on page 1-8). The use of infiltration practices without pretreatment is prohibited.
- 6. Stormwater discharges to critical areas must utilize certain stormwater management BMPs approved for critical areas (see list on page 1-8). Critical areas are Outstanding Resource Waters (ORWs), shellfish beds, swimming beaches, cold water fisheries and recharge areas for public water supplies.
- 7. Redevelopment of previously developed sites must meet the Stormwater Management Standards to the maximum extent practicable. However, if it is not practicable to meet all the Standards, new (retrofitted or expanded) stormwater management systems must be designed to improve existing conditions.

<sup>&</sup>lt;sup>6</sup> To the extent practicable" means the applicant has made all reasonable efforts to meet the standards, including evaluation of alternative BMP designs and their locations.

- 8. Erosion and sediment controls must be implemented to prevent impacts during construction or land disturbance activities.
- 9. All stormwater management systems must have an operation and maintenance plan to ensure that systems function as designed.

### Explanation of Standards

## Untreated Stormwater (Standard 1)

Treated stormwater is defined to be stormwater that meets the requirements in Standards 2 through 9. Rooftop runoff, except from certain metal roofs, generally should be considered uncontaminated for the purposes of these Standards and therefore can be infiltrated directly without treatment.

## Post-Development Peak Discharge Rates (Standard 2)

To meet Standard 2, controls must be developed for the 2-year and the 10-year 24-hour storm events. The 100-year 24-hour storm event must be evaluated to demonstrate that there will not be increased flooding impacts offsite.

Measurement of peak discharge rates must be calculated using the point of discharge or the downgradient property boundary. The topography of the site may require evaluation at more than one location if flow leaves the property in more than one direction. An applicant may demonstrate that a feature beyond the property boundary (e.g. culvert) is more appropriate as a design point.

Discharges to waters subject to tidal action do not need to maintain predevelopment peak discharge rates. All other Standards must be met.

### Recharge to Groundwater (Standard 3)

The prescribed stormwater runoff volume to be recharged to groundwater should be determined using the existing site (pre-development) soil conditions (from a U.S. Natural Resources Conservation Service (NRCS, formerly SCS) County Soils Survey, onsite soil evaluation, or other geologic information) and these rates:

| Hydrologic Group | Volume to Recharge (x Total Impervious Area) |
|------------------|--|
| Α                | 0.40 inches of runoff                        |
| В                | 0.25 inches of runoff                        |
| С .              | 0.10 inches of runoff                        |
| D                | waived                                       |

Different recharge values may be used, provided the proponent makes a clear showing demonstrating that the recharge rate differs from the listed values based upon soils, precipitation, and evapotranspiration.

#### Water Quality (Standards 4-6)

The runoff volume to be treated for water quality is based on the following:

- (1) For discharges to critical areas, the volume to be treated is calculated as 1.0 inch of runoff times the total impervious area of the post-development project site.
- (2) For all other discharges, volume to be treated is calculated as 0.5 inches of runoff times the total impervious area of the post-development project site.

Using the impervious area as the basis for calculating stormwater runoff promotes the use of straight-forward volume calculations. The total impervious area of a site is determined based on final project site plans, not on pre-existing site conditions. Roof runoff (except from certain metal roofs) may be infiltrated, and any infiltrated volume may be subtracted from the total runoff volume.

#### Removal of 80% TSS (Standard 4)

BMPs must be selected so that a total of 80% TSS removal is provided by one or more BMPs as shown on the following chart. Use the column showing design rates for the projected removal rate, unless there is a demonstration that a higher or lower figure within the column showing the range of average TSS should be used. BMPs not listed below should be evaluated based on data on removal efficiencies provided by the applicant. The 80% TSS removal requirement<sup>7</sup> applies to post-development conditions after the site is stabilized. Monitoring should not be required.<sup>8</sup>

<sup>&</sup>lt;sup>7</sup>Total suspended solids was selected as the target pollutant constituent for a removal standard because of its widespread contribution to water quality and aquatic habitat degradation, because many other pollutant constituents including heavy metals, bacteria, and organic chemicals sorb to sediment particles, and because the available data sets for BMP removal efficiency reveal that TSS has been the most frequently and consistently sampled constituent.

<sup>\*</sup>Issuing authorities may impose sampling or monitoring requirements when developers propose alternative stormwater management techniques or in unusual circumstances where deemed necessary to protect sensitive ecological receptors or public health.

# TSS Removal Rates (adapted from Schueler, 1996 & EPA, 1993)

| <del></del>                         | <del></del> - |  |   |  |
|-------------------------------------|---------------|--|---|--|
| , BMP List                          | Design Rate   | Range of Average<br>TSS Removal<br>Rates | Brief Design Requirements   |  |
| Extended Detention Pond             | 70%           | 60-80%                                   | Sediment forebay  |  |
| Wet Pond (a)                        | 70%           | 60-80%                                   | Sediment forebay.   |  |
| Constructed Wetland (b)             | 80%           | 65-80%                                   | Designed to infiltrate or retain.   |  |
| Water Quality Swale                 | 70%           | 60-80%                                   | Designed to infiltrate or retain.   |  |
| Infiltration Trench                 | 80%           | 75-80%                                   | Pretreatment critical.  |  |
| Infiltration Basin                  | 80%           | 75-80%<br>(predicted)                    | Pretreatment critical.  |  |
| Dry Well                            | 80%           | 80% (predicted)                          | Rooftop runoff<br>(uncontaminated only)                                       |  |
| Sand Filter (c)                     | 80%           | 80%                                      | Pretreatment  |  |
| Organic Filter (d)                  | 80%           | 80%+                                     | Pretreatment  |  |
| Water Quality Inlet                 | 25%           | 15-35% w/<br>cleanout                    | Off-line only; 0.1" minimum Water<br>Quality Volume (WQV) storage             |  |
| Sediment Trap (Forebay)             | 25%           | 25% w/ cleanout                          | Storm flows for 2 year event must not cause erosion; 0.1" minimum WQV storage |  |
| Drainage Channel                    | 25%           | 25%                                      | Check dams; non-erosive for 2 yr.   |  |
| Deep Sump and Hooded Catch<br>Basin | 25%           | 25% w/ cleanout                          | Deep sump general rule = 4 x pipe diameter or 4.0' for pipes 18" or less.     |  |
| Street Sweeping                     | 10%           | 10%                                      | Discretionary non-structural credit, mus<br>be part of approved plan.         |  |

#### Notes:

- (a) Includes wet extended detention ponds, wet ponds, multiple pond designs.
- (b) Includes shallow marsh, extended detention wetlands, pocket wetland, and pond/wetland designs.
- (c) Includes surface, underground, pocket, and perimeter designs.
- (d) Includes compost, peat/sand, and bio/filtration designs.

Land Uses with Higher Potential Pollutant Loads (Standard 5)

Residential, office, and institutional development and roads normally will not yield high potential pollutant loads. However, certain land uses generate higher concentrations of pollutants than found in typical runoff, based

on existing data. Source reduction is recommended. These areas are subject to the requirement of Standard 5:

- (1) Stormwater discharges associated with Standard Industrial Classifications [NPDES stormwater permit program requirements apply].
- (2) Auto salvage yards (auto recycler facilities)
- (3) Auto fueling facilities (gas stations)
- (4) Fleet storage areas (cars, buses, trucks, public works)
- (5) Vehicle service, maintenance and equipment cleaning areas
- (6) Commercial parking lots with high intensity use. Such areas typically include fast-food restaurants, convenience stores, high-turnover [chain] restaurants, shopping centers and supermarkets.
- (7) Road salt storage and loading areas (if exposed to rainfall)
- (8) Commercial nurseries
- (9) Flat metal (galvanized metal or copper) rooftops of industrial facilities
- (10) Outdoor storage and loading/unloading areas of hazardous substances
- (11) SARA 312 generators (if materials or containers are exposed to rainfall)
- (12) Marinas (service, repainting, and hull maintenance areas)

Required within areas with higher potential pollutant loads:

- (1) Source reduction (pollution prevention, snow management); and
- (2) Pretreatment (water quality inlets, sediment traps, drainage channels, water quality swales, and/or deep sump catch basins).

Prohibited within areas of higher potential pollutant loads if also a critical area:

- (1) Infiltration trenches;
- (2) Infiltration basins; or
- (3) Dry wells.

Restrictions apply to certain BMPs:

Sand or organic filters, detention basins, wet ponds, or constructed wetlands may be used only if sealed or lined.

#### Critical Areas (Standard 6)

BMPs approved for use near critical areas, designed to treat 1.0 inch of runoff times the total impervious surface of the post-development project site, are generally limited to:

Extended detention basins

Wet ponds

Constructed wetlands

Water quality swales

Sand filters

Organic filters

Infiltration basins

Infiltration trenches

Deep sump and hooded catch basins (used with other BMPs)