



TOWN OF BRISTOL, RHODE ISLAND

PLANNING BOARD MEETING

Planning Board Meeting Agenda

Thursday, March 14, 2024 at 7:00 PM

Bristol Town Hall, 10 Court Street, Bristol, RI 02809

- A. Pledge of Allegiance
- B. Approval of Minutes - February 8, 2024
- C. Old Business

C1. Proposed Amendments to Subdivision & Development Review Regulations - Public Hearing continued from February meeting - Review and Possible Action on draft amendments - Proposed amendments required due to changes in state law which became effective on January 1, 2024, which is the proposed (retroactive) date of these amendments.

The amendments include the following changes:

- Definitions of various project categories including major and minor land development projects and subdivisions; associated changes to application and review process for these projects;
- Development Plan Review process changes;
- Unified development review for projects requiring zoning relief as well as approval by the Planning Board;
- Revised procedures for appeals;
- Modified procedures for public notice of applications;
- Technical Review Committee composition and appointment.

- D. New Business

D1. Major Land Development: Master Plan Phase - Application for an Adaptive Re-use/Unified Development of the former Oliver School Public Hearing and possible action on Master Plan proposal to convert the former school into 11 apartments and waiver for application fee. Property located at 151 State Street,

Assessor's Plat 18, Lot 42, Zone: Residential R-6. Waiver requested for application fee. Owner/Applicant: State Street 151, LLC, President: Louis Cabral, 304 Church Pond Drive, Tiverton, RI 02878

D2. **68 Magnolia Street Minor Subdivision Preliminary Phase/Unified Development** Public Hearing and possible action on Preliminary Phase and requested Dimensional Variance for a minor subdivision to re-divide merged lots and create two lots as follows: one lot with existing dwelling to contain 9,600 square feet of land and one vacant lot to contain 6,000 square feet of land. A dimensional variance is also requested for the side yard setback from the existing dwelling to the proposed new lot line. The property is zoned R-6, Assessor's Plat 23, Lots 185, 189, 192. Owner/Applicant: Magnolia Improvements, LLC, 243 Narragansett Park Dr., Rumford, RI 02916

D3. **Blithewold's Master Plan Renewal** - Review and possible action on the request for a 5-year renewal of the previous Master Plan with a minor modification to convert a former residential use on the property to a museum use at 111 Ferry Road. Owner/Applicant: Blithewold Mansion, Gardens & Arboretum, 101 Ferry Road, Brsitol, RI. Plat 165, Lot 7.

E. Adjourn

Date: March 5, 2024

Posted by: mbw



Town of Bristol, Rhode Island

Department of Community Development

10 Court Street
Bristol, RI 02809
bristolri.gov
401-253-7000

March 8, 2024

TO: Planning Board
FROM: Diane M. Williamson, Administrative Officer
RE: **Draft Subdivision and Development Review Regulations**

The draft Subdivision and Development Review Regulations are provided for your review and hopefully adoption at the March 14, 2024 meeting.

The Town Council reviewed same and did not have any comments.

All of the edits and “clean up” to the checklists as requested by the Planning Board at the last meeting have been completed along with edits to the text from the Solicitor’s review on the process.

The Conservation Commission reviewed the list of tree species and provided their recommendations to the list of street trees and recommended the inclusion of the RIDEM recommended Urban Street Trees list which is now included as Appendix H. The text has also been amended to add soil testing to the Landscape Architect requirements.

It is also noted that the Speaker of the House at the General Assembly introduced 15 proposed Land Use updates yesterday, so as we have previously discussed, these regulations will most likely be updated again in the near future as a result of these new laws or to address any other updates needed from this round of edits.

Please let me know if you have any questions as you read through the draft. I had to turn off the track changes because the document was becoming somewhat unreadable with all the edits so this is a clean copy. I would be happy to review any specific section if you have questions.

Thank you.

Town of Bristol Rhode Island

Subdivision & Development Review Regulations



Adopted by the
Planning Board

September 27, 1995
Amended September 8, 2009
Amended May 9, 2017
Amended March 14, 2024

TABLE OF CONTENTS

	Page
ARTICLE 1 - PURPOSES AND GENERAL STATEMENTS	
Section 1.1 General Purposes.....	1
1.2 Consistency with the Comprehensive Plan, Zoning Ordinance & State Enabling	2
ARTICLE 2 - APPLICABILITY OF REGULATIONS AND CLASSIFICATION OF SUBDIVISIONS AND DEVELOPMENTS	
Section 2.1 Applicability of Regulations - Subdivisions	3
2.2 Applicability of Regulations - Land Development Project and Development Plan Review	4
2.3 Classification of Subdivisions	5
ARTICLE 3 - APPLICATION PROCEDURES AND REQUIREMENTS, ADMINISTRATIVE SUBDIVISIONS	
Section 3.1 Administrative Subdivisions	6
ARTICLE 4 - APPLICATION PROCEDURES AND REQUIREMENTS, MINOR SUBDIVISIONS	
Section 4.1 Submission Requirements	10
4.2 Certification.....	10
4.3 Technical Review Committee	10
4.4 Review Process	11
4.5 Expiration of Approval.....	12
ARTICLE 4.1 – APPLICATION PROCEDURES AND REQUIREMENTS, DEVELOPMENT PLAN REVIEW	
ARTICLE 5 - APPLICATION PROCEDURES AND REQUIREMENTS, MAJOR LAND DEVELOPMENT PROJECTS AND MAJOR SUBDIVISIONS	
Section 5.1 Review Stages	13
5.2 Pre-Application	13
5.3 Master Plan.....	14
5.4 Preliminary Plan.....	16
5.5 Final Plan	18

ARTICLE 6 - POWERS OF THE PLANNING BOARD

Section 6.1 Dedication of Land for Public Purposes.....	20
6.2 Fees in lieu of Dedication of Land for Public Purposes.....	20
6.3 Mitigation of Negative Impacts.....	22
6.4 Restricted Accounts	22
6.5 Performance and Maintenance Guarantees	22
6.6 Impact Statements	24
6.7 Approval and Acceptance of Improvements	26
6.8 Waivers and Modifications	27

**ARTICLE 7 - ADMINISTRATION AND ENFORCEMENT
OF REGULATIONS**

Section 7.1 Administrative Officer	28
7.2 Certification and Time Periods	29
7.3 Pre-Application Meetings and Concept Review	29
7.4 Technical Review Committee	30
7.5 Administrative Fees.....	31
7.6 Violations and Penalties.....	34

ARTICLE 8 - PROCEDURES OF THE PLANNING BOARD

Section 8.1 Composition of the Board	35
8.2 Publication and Availability of Regulations	35
8.3 Records of the Board.....	36
8.4 Meetings and Votes.....	36
8.5 Public Hearings.....	37
8.6 Required Findings	40
8.7 Waiver, Modification, Reinstatement and Extension.....	41
8.8 Signing and Recording of Plats and Plans	43
8.9 Changes to Recorded Plats and Plans	43
8.10 Precedence of Approvals with other Local Permitting Authorities	44
8.11 Appeal of Planning Board Action	45
8.12 Appeal of Board of Appeals to Superior Court.....	47
8.13 Unified Development Review	

**ARTICLE 9 - ADOPTION, AMENDMENT AND APPEAL
OF REGULATIONS**

Section 9.1 Authority to Adopt	49
9.2 Procedure for Adoption and Amendment	49
9.3 Public Hearing and Notice Requirements	49
9.4 Appeals to Superior Court.....	51
9.5 Pending Applications	52
9.6 Severability.....	53
9.7 Effective Date.....	53

	Page
ARTICLE 10 - DEFINITIONS	
Section 10.1 Terms Defined.....	54
APPENDIX A - PRE-APPLICATION CONFERENCE AND CONCEPT REVIEW	
Application and Checklist.....	62
APPENDIX B - ADMINISTRATIVE SUBDIVISION	
Application and checklist.....	67
APPENDIX C - MINOR SUBDIVISION	
Application and checklist.....	71
APPENDIX D - MAJOR SUBDIVISION AND LAND DEVELOPMENT	
Application and Checklist.....	80
APPENDIX E - DEVELOPMENT PLAN REVIEW	
Application and Checklist.....	91
APPENDIX F - DESIGN AND CONSTRUCTION STANDARD	
Section F.1 General Provisions - Standards for Review.....	100
F.2 Public Improvements and Design Standards.....	106
F.3 General Construction Standards.....	125
F.4 Street Construction Standards.....	127
F.5 Surface and Subsurface Storm Drainage Structures and Facilities Construction Standards.....	133
APPENDIX G – METACOM AVENUE OVERLAY ZONE DESIGN GUIDELINES	
Part 1 Context.....	137
2 Site Design / Layout.....	138
3 Architecture.....	140
4 Lighting.....	142
5 Landscaping.....	144
6 Design & Regulation Review Procedure.....	145
APPENDIX H – SUGGESTED URBAN STREET TREES	
FIGURE I - TYPICAL SECTION	
Local Residential Street.....	147

ARTICLE 1

PURPOSES AND GENERAL STATEMENTS

1.1 GENERAL PURPOSES

In accordance with the Rhode Island General Law Section 45-23-30, the purpose of these Regulations is to establish procedural and substantive provisions for the subdivision and development of land that will, consistent with the provisions of the Comprehensive Community Plan and the Zoning Ordinance, accomplish the following purposes:

- A. Provide for the orderly, thorough and expeditious review and approval of land developments and subdivisions;
- B. Promote high quality and appropriate design and construction of subdivisions and land development projects;
- C. Promote the protection of the existing natural and built environment and the mitigation of all significant negative impacts of any proposed development on the existing environment;
- D. Promote subdivision and land development designs which are well-integrated into the surrounding neighborhoods with regard to natural and built features, and which concentrate development in areas which can best support intensive use because of natural characteristics and existing infrastructure;
- E. Encourage design and improvement standards to reflect the intent of the Bristol Comprehensive Plan with regard to the physical character of the various neighborhoods and planning areas of the Town;
- F. Promote thorough technical review of all proposed land developments and subdivisions by appropriate local officials;
- G. Encourage Town requirements for dedications of public land, impact mitigation, and payment-in-lieu thereof, to be based on clear documentation of needs and to be fairly applied and administered;
- H. Guide land development and subdivision review with an emphasis on siting improvements to allow for the maximum protection of critical landscapes and resources, as they relate to Bristol's historic and cultural values;

- I. Continue the Town's historic policy of providing public access to the water; and,
- J. Encourage the establishment and consistent application of procedures for local record-keeping on all matters of land development and subdivision review, approval and construction.
- K. Promote sustainable development practices through the use of design standards that encourage and accommodate alternative transportation, pedestrians connectivity, and energy efficiency.

1.2 CONSISTENCY WITH THE COMPREHENSIVE PLAN, ZONING ORDINANCE AND STATE ENABLING

In the instance of uncertainty in the construction or application of any Section of these regulations, they shall be construed in a manner that will further the implementation of, and not be contrary to, the goals and policies and applicable elements of the Bristol Comprehensive Plan and of the Bristol Zoning Ordinance. Furthermore, these regulations shall be construed in a manner that is consistent with the legislative findings, intents, and purposes of Sections 45-23-25 through 45-23-74 of the Land Development and Subdivision Review Enabling Act of 1992, as amended.

ARTICLE 2

APPLICABILITY OF REGULATIONS AND CLASSIFICATION OF SUBDIVISIONS AND DEVELOPMENTS

2.1 APPLICABILITY OF REGULATIONS - SUBDIVISION

These Development Review Regulations ("Regulations") shall apply to any adjustment, alteration or change of any existing lot line, and to the creation of any new lot lines, including, but not limited to, the following:

A. Adjustment of Existing Lot Line

Any adjustment to existing lot lines of a recorded lot by any means shall be considered a subdivision and subject to these Regulations, even if no new lot is created.

B. Division or Subdivision

The division or subdivision, of a lot, tract or parcel of land into two or more lots, tracts, or parcels shall be considered a subdivision and subject to these Regulations.

C. Leasing

The division of land for purposes of leasing for a term of more than ten (10) years shall be considered a subdivision and subject to these regulations.

2.2 APPLICABILITY OF REGULATIONS - LAND DEVELOPMENT PROJECT AND DEVELOPMENT PLAN REVIEW

These regulations shall also apply to any Land Development Project ("LDP") or Development Plan Review ("DPR") set forth in the Zoning Ordinance. The term "Development Project" shall hereinafter be used to apply generally to both LDP's and DPR's. Development Projects shall include, but not be limited to, the following:

A. Land Development Projects (LDP)

The development of any Land Development Project (LDP), pursuant to Article VIII of the Bristol Zoning Ordinance shall be subject to these Regulations as a Major or Minor Land Development Review, as appropriate.

B. Development Plan Review (DPR)

Development Plan Review (DPR) shall be required for certain uses identified in Article VI of the Bristol Zoning Ordinance, prior to development or expansion of such uses. Development Plan review procedures are set forth in Article 4.1 of these regulations.

2.3 CLASSIFICATION OF SUBDIVISIONS

All subdivisions shall be classified according to criteria set forth below. The term "subdivision" shall hereinafter be used to apply generally to all three classes of subdivisions.

A. Administrative Subdivision

An Administrative Subdivision shall include only divisions, mergers, mergers and division and adjustment of existing lot lines, and only when no additional lots for development are created. A lot for development, as defined in Article 10, shall not include any lot which is to be donated to or acquired by the Town, the Rhode Island Department of Environmental Management, or any recognized conservation organization, provided that such lot shall be conveyed with appropriate access and deed restrictions forbidding any development thereon. In any case where the land is not conveyed to the Town, a restriction enforceable by the Town shall be recorded providing that the land shall be kept in the authorized condition(s) and not be built upon or developed for accessory uses such as parking or roadway.

B. Minor Subdivision

A Minor Subdivision shall include only a subdivision creating nine (9) or fewer buildable lots. Minor Subdivisions shall be further classified as follows:

(1) Minor Subdivision – Zoning Relief Required

Applications that require zoning relief that qualifies only as a modification as set forth in the Zoning Ordinance shall proceed by filing an application under this chapter and a request for a modification to the zoning enforcement officer. If such modification is granted, the application shall then proceed to be reviewed by the administrative officer as set forth in Article 4. If the modification is denied or an objection is received, such application shall proceed under unified development plan review pursuant to Section 8.13.

Applications that require relief from the Zoning Ordinance in the form of a variance or special-use permit, shall be reviewed by the planning board under unified development plan review pursuant Section 8.13, and a request for review shall accompany the preliminary plan application.

Any application involving a street creation or extension shall be reviewed by the planning board and require a public hearing.

(2) Minor Subdivision – Street Creation or Extension

Any application involving a street creation or extension shall be reviewed by the planning board and require a public hearing.

(3) Minor Subdivision – Other Applications

The administrative officer shall review and grant, grant with conditions, or deny all

other applications and may grant waivers of design standards as set forth in Sec. 4.2.

C. Major Subdivision

A Major Subdivision shall include any subdivision creating ten (10) or more buildable lots.

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ARTICLE 3

APPLICATION PROCEDURES AND REQUIREMENTS, ADMINISTRATIVE SUBDIVISIONS

3.1 ADMINISTRATIVE SUBDIVISIONS

A. Submission Requirements

Any applicant requesting approval of a proposed Administrative Subdivision, as defined in these Regulations, shall submit to the Administrative Officer the items and plans as provided in Appendix B of these Regulations.

B. Required Design and Construction Standards

Any proposed Administrative Subdivision shall meet the design and construction requirements as provided in Appendix F of these Regulations.

C. Certification

The application shall be certified in writing as complete or incomplete by the Administrative Officer within a fifteen (15) day period from the date of its submission. In the event such certification of the application is not made within the time specified, the application shall be deemed complete for purposes of commencing the review period.

D. Review Process

(1) Administrative Officer

Within fifteen (15) days of certification of completeness, the Administrative Officer shall review the application and approve, deny or refer it to the Planning Board with recommendations. The Administrative Officer shall report all actions to the Planning Board at its next regular meeting, to be made part of the record.

(a) Approval in Writing

Any approval of an administrative subdivision shall be evidenced by a written decision which shall be filed and posted in the office of the Town Clerk.

(b) No Action

If no action is taken by the Administrative Officer within the fifteen (15) days, the application shall be deemed to be referred to the Planning Board and placed on the agenda of the next regular Planning Board meeting.

(c) Denial

Denial of an application by the Administrative Officer shall not be appealable and shall require the plan to be submitted as a Minor Subdivision application.

E. Review By Planning Board

If referred to the Planning Board, either by the Administrative Officer or by default, the Board shall consider the application and the recommendations of the Administrative Officer, if any, and shall either approve, approve with conditions, or deny the application within sixty-five (65) days of certification of completeness. Denial of an Administrative Subdivision by the Planning Board shall be an appealable action.

F. Failure To Act

Failure of the Planning Board to act within the period prescribed shall constitute approval of the Administrative Subdivision plan and a certificate of the Administrative Officer as to the failure of the Planning Board or Administrative Officer to act within the required time and the resulting approval shall be issued on request of the applicant.

G. Expiration of Approval

Approval of an Administrative Subdivision shall expire ninety (90) days from the date of approval unless within such period a plat in conformity with such approval is submitted for signature and recording as specified in Section 8.

ARTICLE 4

APPLICATION PROCEDURES AND REQUIREMENTS, MINOR SUBDIVISIONS

4.1.1 Minor land development and minor subdivision review.

Minor plan review consists of two (2) stages, preliminary and final; provided, that unless otherwise set forth in this section, if a street creation or extension is involved, or a request for variances and/or special-use permits are submitted pursuant to a unified development application, a public hearing is required by the planning board.

4.2. Application types.

1. Applications requesting relief from the zoning ordinance.
 - i. Applications under this section which require relief which qualifies only as a modification shall proceed by filing an application under this chapter and a request for a modification to the zoning enforcement officer. If such modification is granted the application shall then proceed to be reviewed by the administrative officer pursuant to the applicable requirements of this section. If the modification is denied or an objection is received, such application shall proceed under unified development plan review.
 - ii. Applications under this section which require relief from the literal provisions of the zoning ordinance in the form of a variance or special use permit, shall be reviewed by the planning board under unified development plan review, and a request for review shall accompany the preliminary plan application.
 - iii. Any application involving a street creation or extension shall be reviewed by the planning board and require a public hearing.
2. Other applications. The administrative officer shall review and grant, grant with conditions or deny all other applications under this section and may grant waivers of design standards as set forth in the local regulations and zoning ordinance. The administrative officer may utilize the technical review committee for initial review and recommendation. The administrative officer may grant waivers of any design standards except the following: design standards set forth in F.1.C.2, Land unsuitable for development; F.1.I, Drainage; L., Erosion and sediment control; Surface and subsurface storm drainage structures and facilities construction standards; Appendix G, Part III-3.1, Building mass & scale.
- b. Submission requirements. Any applicant requesting approval of a proposed minor subdivision or minor land development, as defined in this chapter, shall submit to the administrative officer the items required by the applicable checklist.
- c. Certification. For each applicable stage of review, the application shall be certified, in writing, complete or incomplete by the administrative officer within twenty-five (25) days of the submission so long as a completed checklist of the requirements for submission are provided as part of the submission. If no street creation or extension is required, and/or unified development review is not requested, and a completed checklist of the requirements for submission are provided as part of the submission, such application shall be certified, in writing, complete or incomplete by the administrative officer within

fifteen (15) days. The running of the time period set forth in this section will be deemed stopped upon the issuance of a certificate of incompleteness of the application by the administrative officer and will recommence upon the resubmission of a corrected application by the applicant. However, in no event will the administrative officer be required to certify a corrected submission as complete or incomplete less than ten (10) days after its resubmission.

- d. Decision on preliminary plan. If no street creation or extension or unified development review is required, the administrative officer will approve, deny, or approve with conditions, the preliminary plan within sixty-five (65) days of certification of completeness, or within any further time that is agreed to by the applicant and the board. If a street extension or creation is required, and/or the application is reviewed under the unified development plan review, the planning board will hold a public hearing prior to approval according to the requirements in Section 8.5 and will approve, deny, or approve with conditions, the preliminary plan within ninety-five (95) days of certification of completeness, or within any specified time that is agreed to by the applicant and the board, according to the requirements of §§ 45-23-60 and 45-23-63].
 - a. Failure to act. Failure of the planning board or administrative officer to act within the period prescribed constitutes approval of the preliminary plan and a certificate of the administrative officer as to the failure to act within the required time and the resulting approval will be issued on request of the applicant.
 - b. Re-assignment to major review. The planning board may re-assign a proposed minor project to major review only when the planning board is unable to make the positive findings required in by § 45-23-60].
 - c. Final plan. Final plans shall be reviewed and approved by the administrative officer. The officer will report their actions, in writing to the planning board at its next regular meeting, to be made part of the record. The administrative officer shall approve, deny, approve with conditions, or refer the application to the planning board based upon a finding that there is a major change within twenty-five (25) days of the certificate of completeness.
 - d. Modifications and changes to plans.

Minor changes to the plans approved at any stage may be approved administratively, by the administrative officer. The changes may be authorized without additional public hearings, at the discretion of the administrative officer. All changes shall be made part of the permanent record of the project application. This provision does not prohibit the administrative officer from requesting recommendation from either the technical review committee or the permitting authority. Denial of the proposed change(s) shall be referred to the applicable permitting authority for review as a major change. Minor changes are defined by Section 8.9.D of these Regulations.

Major changes to the plans approved at any stage may be approved only by the applicable permitting authority and must follow the same review and hearing process required for approval of preliminary plans, which shall include a public hearing if originally required as part of the application. Major changes are defined by Section 8.9.C of these Regulations.

The administrative officer shall notify the applicant in writing within fourteen (14) days of submission of the final plan application if the administrative officer determines the change to be a major change.

- a. Appeal. Decisions under this section shall be considered an appealable decision pursuant to § 45-23-71.
- b. Expiration of approvals. Approvals of a minor land-development or subdivision plan expires one year from the date of approval unless, within that period, a plat or plan, in conformity with approval, and as defined in this act, is submitted for signature and recording as specified in § 45-23-64. Validity may be extended for a longer period, for cause shown, if requested by the application in writing, and approved by the planning board.

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ARTICLE 4.1

APPLICATION PROCEDURES AND REQUIREMENTS, DEVELOPMENT PLAN REVIEW

Development Plan Review ("DPR"), as set forth in Article VI of the Bristol Zoning Ordinance, shall be conducted pursuant to the procedures and time periods set forth below. The permitting authority for development plan review shall be the Planning Board. Development plan review consists of two review processes, administrative and formal.

1. Administrative development plan review consists of one stage of review and the authorized permitting authority is the Planning Board. Residential uses that require development plan review shall be reviewed under this framework. **The administrative officer may refer these applications to the Technical Review Committee.**
2. Formal development plan review consists of the preliminary stage and final stage of review. The authorized permitting authority is the Planning Board. Non-residential uses that require development plan review shall be reviewed under this framework. The TRC shall review all such applications on an advisory basis, prior to review by the Planning Board.
3. The administrative officer may combine the stages of review for formal development plan review, providing that the submission requirements of both stages of review are met by the applicant to the satisfaction of the administrative officer.

Waivers

- a. Requirements for development plan approval may be waived where there is a change in use or occupancy and no extensive construction of improvements is sought. The waiver may be granted only by a decision by the Planning Board, finding that the use will not affect existing drainage, circulation, relationship of buildings to each other, landscaping, buffering, lighting and other considerations of development plan approval, and that the existing facilities do not require upgraded or additional site improvements.
- b. The application for a waiver of development plan approval review shall include documentation on prior use of the site, the proposed use, and its impact.
- c. The Planning Board may grant waivers of any design standards except the following: **design standards set forth in F.1.C.2, Land unsuitable for development; F.1.I, Drainage; L., Erosion and sediment control; Surface and subsurface storm drainage structures and facilities construction standards; Appendix G, Part III-3.1, Building mass & scale.**

Applications requesting relief from the zoning ordinance.

1. Applications under this article which require relief which qualifies only as a modification shall proceed by filing an application and a request for a modification to the zoning enforcement officer. If such modification is granted the application shall then proceed to be reviewed by the Planning Board. If the modification is denied or an objection is received as set forth in Sec. 28-152, such application shall proceed under unified development review and be reviewed by the Planning Board.
2. Applications under this section which require relief from the literal provisions of the zoning ordinance in the form of a variance or special use permit, shall be reviewed by the Planning Board under unified development review, and a request for review shall accompany the preliminary plan application.

Submission requirements.

- a. Any applicant requesting approval of a proposed development under this chapter, shall submit to the administrative officer the items required by the applicable checklist.
- b. Requests for relief from the literal requirements of the zoning ordinance and/or for the issuance of special-use permits or use variances related to projects qualifying for development plan review shall be submitted and reviewed under unified development review.

Certification.

- a. The application shall be certified, in writing, complete or incomplete by the administrative officer within twenty-five (25) days. If no street creation or extension is required, and/or unified development review is not required, the application shall be certified complete or incomplete by the administrative officer within fifteen (15) days.
- b. The running of the time period set forth in this section will be deemed stopped upon the issuance of a written certificate of incompleteness of the application by the administrative officer and will recommence upon the resubmission of a corrected application by the applicant. However, in no event will the administrative officer be required to certify a corrected submission as complete or incomplete less than ten (10) days after its resubmission.
- c. If the administrative officer certifies the application as incomplete, the officer shall set forth in writing with specificity the missing or incomplete items.

Application review and decision.

- a. Administrative development plan review. An application shall be approved, denied, or approved with conditions within twenty-five (25) days of the certificate of completeness or within any further time that is agreed to in writing by the applicant and Planning Board.

- b. Formal development plan review.
1. The Technical Review Committee shall review applications subject to formal development plan review and provide an advisory recommendation to the Planning Board.
 2. Preliminary plan. Unless the application is reviewed under unified development review, the Planning Board will approve, deny, or approve with conditions, the preliminary plan within sixty-five (65) days of certification of completeness, or within any further time that is agreed to by the applicant and the permitting authority.
 3. Final Plan. For formal development plan approval, the permitting authority shall delegate final plan review and approval to the administrative officer. The officer will report its actions in writing to the Planning Board at its next regular meeting, to be made part of the record. Final plan shall be approved or denied within forty-five (45) days after the certification of completeness, or within a further amount of time that may be consented to by the applicant, in writing.
- c. Failure to act. Failure of the permitting authority to act within the period prescribed constitutes approval of the preliminary plan and a certificate of the administrative officer as to the failure to act within the required time and the resulting approval shall be issued on request of the application.
- d. Vested rights. Approval of development plan review shall expire two (2) years from the date of approval unless, within that period, a plat or plan, in conformity with approval, and as defined in this act, is submitted for signature and recording. Validity may be extended for an additional period upon application to the administrative officer or permitting authority, whichever entity approved the application, upon a showing of good cause.
- e. Modifications and changes to plans.
1. Minor changes to the plans approved at any stage may be approved administratively, by the administrative officer, whereupon final plan approval may be issued. The changes may be authorized without an additional planning board meeting, at the discretion of the administrative officer. All changes shall be made part of the permanent record of the project application. This provision does not prohibit the administrative officer from requesting recommendation from either the technical review committee or the Planning Board. A minor change shall be hereby defined as any change that does not substantially impact the proposed development plan or any of the neighboring properties and that meets all of the following criteria:
 - (1) There is no increase in the number of lots or dwelling units.
 - (2) There is no change to any dimension of the plan, including building envelopes, exceeding twenty five percent (25%).

- (3) There is no change to the type of street or driveway.
 - (4) There is no change required to any public infrastructure.
2. Denial of the proposed change(s) shall be referred to the Planning Board for review as a major change.
 3. Major changes to the plans approved at any stage may be approved only by the permitting authority and must follow the same review and hearing process required for approval of preliminary plans, which shall include a public hearing. A major change shall hereby be defined as any change that does not qualify as a minor change as described herein.
 4. The administrative officer shall notify the applicant in writing within fourteen (14) days of submission of the final plan application if the administrative officer determines that there has been a major change to the approved plans.
- f. Appeal. A decision under this section shall be considered an appealable decision.

Design Standards.

Standards for design of development for applications subject to development plan review are provided in Appendix F of these regulations.

ARTICLE 5

APPLICATION PROCEDURES AND REQUIREMENTS, MAJOR LAND DEVELOPMENT PROJECTS AND MAJOR SUBDIVISIONS

5.1 Major land development and major subdivision review.

A. Stages of review. Major land development and major subdivision review consists of three stages of review, master plan, preliminary plan and final plan, following the pre-application meeting(s). Also required is a public hearing at the master plan stage of review or, if combined at the first stage of review.

B. The administrative officer may combine review stages and to modify, but only the Planning Board may waive submission requirements pursuant to § 45-23-62. Review stages may be combined only after the administrative officer determines that all necessary requirements have been met by the applicant or that the Planning Board has waived any submission requirements not included by the applicant.

C. Master plan review.

1. Submission requirements.

- i. The applicant shall first submit to the administrative officer the items required by the checklist for master plans.
- ii. Requirements for the master plan and supporting material for this phase of review include, but are not limited to: information on the natural and built features of the surrounding neighborhood, existing natural and man-made conditions of the development site, including topographic features, the freshwater wetland and coastal zone boundaries, the floodplains, as well as the proposed design concept, proposed public improvements and dedications, tentative construction phasing; and potential neighborhood impacts, as required by the checklist.

iii. Initial comments will be solicited from:

1. Local agencies including, but not limited to, the planning department, the department of public works, fire and police departments, the conservation and recreation commissions;
2. Adjacent communities;
3. State agencies, as appropriate, including the departments of environmental management and transportation and the coastal resources management council; and
4. Federal agencies, as appropriate. The administrative officer shall coordinate

review and comments by local officials, adjacent communities, and state and federal agencies.

- iv. Applications requesting relief from the zoning ordinance.
 1. Applications under this chapter which require relief which qualifies only as a modification as set forth in the Zoning Ordinance shall proceed by filing a master plan application under this section and a request for a modification to the zoning enforcement officer. If such modification is granted, the application shall then proceed to be reviewed by the planning board pursuant to the applicable requirements of this section. If the modification is denied or an objection is received, such application shall proceed under unified development plan review pursuant to Sec. 8.13.
 2. Applications under this section which require relief from the literal provisions of the zoning ordinance in the form of a variance or special use permit, shall be reviewed by the Planning Board under unified development plan review pursuant to Sec. 8.13.
2. Certification. The application must be certified, in writing, complete or incomplete by the administrative officer within twenty-five (25) days of the submission, so long as a completed checklist of requirements are provided with the submission. The running of the time period set forth herein will be deemed stopped upon the issuance of a certificate of incompleteness of the application by the administrative officer and will recommence upon the resubmission of a corrected application by the applicant. However, in no event will the administrative officer be required to certify a corrected submission as complete or incomplete less than ten (10) days after its resubmission.
3. Technical review committee. The technical review committee shall review the application prior to the first Planning Board meeting and shall comment and make recommendations to the Planning Board.
4. Public hearing.
 - i. A public hearing shall be held prior to the Planning Board decision on the master plan. If the master plan and preliminary plan review stages are being combined, a public hearing shall be held during the combined stage of review.
 - ii. Notice for the public hearing is required with notice in accordance with Sec. 8.5.
 - iii. At the public hearing, the applicant will present the proposed development project. The Planning Board must allow oral and written comments from the general public. All public comments are to be made part of the public record of the project application.
5. Decision. The Planning Board shall, within ninety (90) days of certification of completeness, or within a further amount of time that may be consented to by the applicant through the submission of a written waiver, approve of the master plan as submitted,

approve with changes and/or conditions, or deny the application, according to the requirements of §§ 45-23-60 and 45-23-63].

6. Failure to act. Failure of the Planning Board to act within the prescribed period constitutes approval of the master plan, and a certificate of the administrative officer as to the failure of the planning board to act within the required time and the resulting approval will be issued on request of the applicant.
7. Vesting.
 - i. The approved master plan is vested for a period of two (2) years, with the right to extend for two (2), one-year extensions upon written request by the applicant, who must appear before the Planning Board for the annual review. Thereafter, vesting may be extended for a longer period, for good cause shown, if requested by the applicant, in writing, and approved by the Planning Board. Master plan vesting includes the zoning requirements, conceptual layout, and all conditions shown on the approved master plan drawings and supporting materials.
 - ii. The initial four (4) year vesting for the approved master plan constitutes the vested rights for the development as required in RIGL § 45-24-44.

D. Preliminary plan review.

1. Submission requirements.
 - i. The applicant shall first submit to the administrative officer the items required by the checklist for preliminary plans.
 - ii. Requirements for the preliminary plan and supporting materials for this phase of the review include, but are not limited to: engineering plans depicting the existing site conditions, engineering plans depicting the proposed development project, and a perimeter survey, as included on the checklist.
 - iii. At the preliminary plan review phase, the administrative officer shall solicit final, written comments and/or approvals of the department of public works, the town solicitor, other local government departments, commissions, or authorities as appropriate.
 - iv. Prior to approval of the preliminary plan, copies of all legal documents describing the property, proposed easements, and rights-of-way.
 - v. Prior to approval of the preliminary plan, an applicant must submit all permits required by state or federal agencies, including permits related to freshwater wetlands, the coastal zone, floodplains, preliminary suitability for individual septic disposal systems, public water systems, and connections to state roads. For a state permit from the Rhode Island department of transportation, a letter evidencing the issuance of such a permit upon the submission of a bond and insurance is sufficient, but such actual permit shall be required prior to the issuance of a building permit.

- vi. If the applicant is requesting alteration of any variances and/or special-use permits granted by the Planning Board at the master plan stage of review pursuant to adopted unified development review provisions, and/or any new variances and/or special-use permits, such requests and all supporting documentation shall be included as part of the preliminary plan application materials, pursuant to § 45-23-50.1.
2. Certification. The application will be certified as complete or incomplete by the administrative officer within twenty-five (25) days so long as a completed checklist of requirements are provided with the submission. The running of the time period set forth herein will be deemed stopped upon the issuance of a certificate of incompleteness of the application by the administrative officer and will recommence upon the resubmission of a corrected application by the applicant. However, in no event shall the administrative officer be required to certify a corrected submission as complete or incomplete less than ten (10) days after its resubmission.
3. Technical review committee. The technical review committee shall review the application prior to the first planning board meeting and shall comment and make recommendations to the planning board.
4. Public notice. Prior to the first Planning Board meeting on the preliminary plan, public notice shall be sent to abutters only at least fourteen (14) days before the hearing.
5. Public improvement guarantees. Proposed arrangements for completion of the required public improvements, including construction schedule and/or financial guarantees, shall be reviewed and approved by the planning board at preliminary plan approval.
6. Decision. A complete application for a major subdivision or development plan shall be approved, approved with conditions, or denied, in accordance with the requirements of RIGL §§ 45-23-60 and 45-23-63, within ninety (90) days of the date when it is certified complete, or within a further amount of time that may be consented to by the developer through the submission of a written waiver. Provided that, the timeframe for decision is automatically extended if evidence of state permits has not been provided, or otherwise waived in accordance with this section.
7. Failure to act. Failure of the Planning Board to act within the prescribed period constitutes approval of the preliminary plan and a certificate of the administrative officer as to the failure of the Planning Board to act within the required time and the resulting approval shall be issued on request of the applicant.
8. Vesting. The approved preliminary plan is vested for a period of two (2) years with the right to extend for two (2), one-year extensions upon written request by the applicant, who must appear before the Planning Board for each annual review and provide proof of valid state or federal permits as applicable. Thereafter, vesting may be extended for a longer period, for good cause shown, if requested, in writing by the applicant, and approved by the Planning Board. The vesting for the preliminary plan approval includes all general and specific conditions shown on the approved preliminary plan drawings and supporting material.

E. Final plan.

1. Submission requirements.
 - i. The applicant shall submit to the administrative officer the items required by the checklist for the final plan, as well as all material required by the planning board when the application was given preliminary approval.
 - ii. Arrangements for completion of the required public improvements, including construction schedule and/or financial guarantees.
 - iii. Certification by the tax collector that all property taxes are current.
 - iv. For phased projects, the final plan for phases following the first phase, shall be accompanied by copies of as-built drawings not previously submitted of all existing public improvements for prior phases.
2. Certification. The application for final plan approval shall be certified complete or incomplete by the administrative officer in writing, within fifteen (15) days, so long as a completed checklist of requirements are provided with the submission. This time period may be extended to twenty-five (25) days by written notice from the administrative officer to the applicant where the final plans contain changes to or elements not included in the preliminary plan approval. The running of the time period set forth herein shall be deemed stopped upon the issuance of a certificate of incompleteness of the application by the administrative officer and shall recommence upon the resubmission of a corrected application by the applicant. However, in no event shall the administrative officer be required to certify a corrected submission as complete or incomplete less than ten (10) days after its resubmission. If the administrative officer certifies the application as complete and does not require submission to the Planning Board, the final plan shall be considered approved.
3. Decision. The administrative officer, or, if referred to it, the Planning Board, shall review, grant, grant with conditions or deny final plan approval. A decision shall be issued within forty-five (45) days after the certification of completeness, or within a further amount of time that may be consented to by the applicant, approve or deny the final plan as submitted.
4. Failure to act. Failure of the administrative officer or, if referred to it, the Planning Board, to act within the prescribed period constitutes approval of the final plan and a certificate of the administrative officer as to the failure of the to act within the required time and the resulting approval shall be issued on request of the applicant.
5. Expiration of approval. The final approval of a major subdivision or land development project expires one year from the date of approval with the right to extend for one year upon written request by the applicant, who must appear before the Planning Board for the annual review, unless, within that period, the plat or plan has been submitted for signature and recording, Thereafter, the Planning Board may, for good cause shown, extend the period for recording.

6. Acceptance of public improvements. Signature and recording constitute the acceptance by the municipality of any street or other public improvement or other land intended for dedication. Final plan approval shall not impose any duty upon the municipality to maintain or improve those dedicated areas until the Town Council accepts the completed public improvements as constructed in compliance with the final plans.
7. Validity of recorded plans. The approved final plan, once recorded, remains valid as the approved plan for the site unless and until an amendment to the plan is approved, or a new plan is approved by the Planning Board.

F. Modifications and changes to plans.

1. Minor changes to the plans approved at any stage may be approved administratively, by the administrative officer. The changes may be authorized without an additional Planning Board meeting, to the extent applicable, at the discretion of the administrative officer. All changes shall be made part of the permanent record of the project application. This provision does not prohibit the administrative officer from requesting recommendation from either the technical review committee or the Planning Board. Denial of the proposed change(s) shall be referred to the Planning Board for review as a major change. Minor changes are defined by Section 8.9.D of these Regulations.
2. Major changes to the plans approved at any stage may be approved only by the Planning Board and must include a public hearing. Major changes are defined by Section 8.9.C of these Regulations.
3. The administrative officer shall notify the applicant in writing within fourteen (14) days of submission of the final plan application if the administrative officer determines the change to be a major change of the approved plans.

G. Appeal. Decisions under this section shall be considered an appealable decision pursuant to § 45-23-71.

ARTICLE 6

POWERS OF THE PLANNING BOARD

6.1 DEDICATION OF LAND FOR PUBLIC PURPOSES

Where land within a proposed subdivision or development project is deemed to be of unique natural character or is identified in the Bristol Comprehensive Community Plan, or where the proposed subdivision or development project is of sufficient size so as to warrant consideration of the provision of open space to serve residents of the subdivision or development project, the Board may require the dedication of a portion of the land area of the subdivision or development project, or other public improvements, for such purposes. The Board shall make such determination prior to granting preliminary approval, or prior to granting final approval where no preliminary approval is required. The intended use of the land so dedicated shall be so stamped on the final plat plan.

A. Requirements

Prior to the Board requiring the dedication of such land, the following requirements shall be met and set forth as findings by the Board in its approval.

(1) Character

All required public improvements must reflect the character defined for that neighborhood or district by the Comprehensive Plan.

(2) Need

The need for all dedications of land to the public or for payments-in-lieu of such dedications must be clearly documented in the adopted plans of the Town, such as the Comprehensive Plan, Zoning Ordinance or the Capital Budget.

(3) Documentation

No dedications of land to the public or payments-in-lieu of dedications may be required until the need for such are identified and documented by the Board, the land proposed for dedication is determined through specific findings to be appropriate for the proposed use.

6.2 FEES IN LIEU OF DEDICATION OF LAND FOR PUBLIC PURPOSES

A. Applicability and Determination

This section shall only be applicable to fees in lieu of dedication of land for public purposes, as set forth in Section 6.1 above. This section shall not apply to any fees in lieu of required off-site improvements or in lieu of mitigation of negative impacts, which fees shall be determined by the

estimated costs of such improvements or mitigation activities. It shall be the sole decision of the Board as to whether a fee in lieu of dedication of land for public purposes would be beneficial to the goals of the Town, as documented pursuant to Section 6.1.

B. Formula

Where a fee is required by the Planning Board to be paid in lieu of land dedication, the amount of such fee shall be based on the following formula:

Fee in-lieu of dedication	= Fair Market Value of Land Per Acre (1)	X Land Need (2)	X Maximum Final Number of Dwelling Units (3)	X Persons per Dwelling Unit (4)
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(1) Fair market value of land in the parcel being subdivided at the time of application for final approval which is suitable for use as development, open space, conservation, or park and recreation facilities; but, not including surface water areas. See subsection 6.2.C below.

(2) Land need shall mean the Town's actual need for open space and recreation land as stated in the adopted Comprehensive Plan. This shall be expressed in acres per 1,000 of population based on the Comprehensive Plan. The 1990 Town-wide need is 3.4 acres per 1,000.

(3) Maximum final number of dwelling units in all phases of the development project or subdivision.

(4) The figure of 2.66 persons per household from the 1990 Census shall be used unless the applicant can demonstrate, to the approval of the Planning Board, that the projected number of persons in the development project or subdivision will be less.

Example for illustrative purposes only:

$$\frac{\$150,000}{\text{acre}} \times \frac{3.4 \text{ acres}}{1,000 \text{ pop.}} \times \frac{10 \text{ units}}{\text{dev.}} \times \frac{2.66 \text{ persons}}{\text{dwelling unit}} = \$13,566$$

C. Fair Market Value

Fair market value of the land, assuming that the subdivision has been granted, shall be determined at the time of filing of the final plan in accordance with one of the following:

- (1) As determined by the Bristol Tax Assessor from recorded sales within the last twenty-four months;

(2) If the applicant objects to such amount of evaluation as determined in A above, the Planning Board shall obtain an appraisal of the fair market value by an independent appraiser licensed by the State of Rhode Island. The cost of the appraisal shall be assessed to the applicant with the fee being paid prior to final approval of the plat; or

(3) The Planning Board and applicant may agree as to the fair market value.

6.3 MITIGATION OF NEGATIVE IMPACTS

The Board shall have the power to require dedications of land, the construction of improvements, including off-site improvements, or other activities (collectively referred to as "mitigating activity"); in order to mitigate negative impacts of a subdivision or development project. The Board shall also have the power to require a fee in lieu of such mitigating activity. The fee shall be determined by the estimated costs of such mitigating activity. All such mitigating activity, or payments-in-lieu thereof, shall be for mitigation of identified negative impacts of proposed projects and must meet the requirements set forth in Section 6.1 above. Furthermore, the significant negative impacts of the proposed development on the existing conditions must be clearly documented. Any mitigating activity, or fee in lieu thereof, required as a condition of approval must be related in kind and degree to the identified impact.

6.4 RESTRICTED ACCOUNTS

All payment-in-lieu of dedication or construction to mitigate the impacts of the proposed development shall be kept in restricted accounts and shall only be spent on the mitigation of the identified impacts for which it is required.

6.5 PERFORMANCE AND MAINTENANCE GUARANTEES

For any subdivision or development requiring public improvements, the applicant shall have the option of completing all such improvements (including inspection thereof) prior to final plan approval. If all required public improvements are not completed prior to Final Plan Approval, then the Board shall require performance guarantees as set forth herein. The Board may also require maintenance guarantees to be provided for a one (1) year period subsequent to completion, inspection and acceptance of the improvement(s), unless there are extenuating circumstances that require a longer period, such as seasonal delay in planting or paving. The Board may require maintenance guarantees for drainage systems to be held for a period of five (5) years to insure that the system is operating as designed. The Board may also require the applicant to calculate the annual maintenance costs for drainage systems and to pay said costs for a period of up to 15 years to the Town to compensate for annual maintenance of the system by the Town or its contractor. The procedures for setting, maintaining and releasing such guarantees shall be as follows:

A. Security

As a condition precedent to the endorsement of approval of the final plan, the applicant shall file a certified check, bank book, or certificate of deposit, in the sole name of the Town, in an amount determined by the Board. This amount shall be based on the retail cost of all improvements to be constructed or maintained. The Board may fix the guarantee in a reasonable amount, not to exceed 20%, in excess of the estimated costs to anticipate for economic or construction conditions. In the case of subdivision or developments which are being approved and constructed in phases, the Board shall specify improvement guarantee requirements related to each particular phase, including additional amounts to account for inflation over the time required for all phases to be completed and/or maintained. All funds shall be verified by the Board before being accepted. The release of said funds shall be conditioned on the faithful completion of all required improvements, or the successful maintenance of any improvements subject to maintenance guarantees, within the time period set forth in the decision of the Board, and the payment of all invoices issued by the Board to cover the cost of the subdivision or development project inspections.

B. Inspection and Report

During construction and upon completion of the required improvements, the applicant shall notify the Administrative Officer who shall direct a Planning Board Engineer to conduct a detailed inspection of the completed work. Upon determining that the improvements have been completed in a satisfactory manner, the Administrative Officer shall prepare a final written report and shall transmit said report to the Board, which shall initiate appropriate action to release the guarantee.

C. Extension of Time

If, due to circumstances beyond the control of the applicant, the required improvements are not completed within the prescribed time period, the Board may grant a time extension of no more than one year at a time. During such extension, the guarantees shall remain in full force. The Board may require the extension of guarantees for a period of up to one (1) year after completion of improvements to assure the proper performance of the improvements under all conditions of weather and use.

D. Default.

The Planning Board shall hold the applicant in default of a guarantee should one or more of the following occur:

- (1) Failure to meet all specifications for construction of required improvements to the land;
- (2) Failure to properly notify the Administrative Officer of the beginning and completion of all phases of construction of required improvements to the land;

- (3) Failure to protect existing improvements and/or properly repair such improvements should damage occur during construction of the subdivision or development project;
- (4) Failure to clean debris from the site and adjacent areas upon completion of construction within the subdivision or development project; or
- (5) Failure to complete required improvements to the land within the time prescribed or within any extension granted by the Board.

E. Authority of Board to Take Action

Upon notification of default by the Administrative Officer, the Board shall notify the applicant and order the applicant to show cause why the Board should not take action against the guarantee. If the Board in its sole discretion determines that the default has not been cured within the time set by the Board, then the Board shall withdraw or cash in that portion of the security necessary to correct the deficiencies for which the applicant is deemed to be in default, and the Board shall cause the required improvements to be completed in a satisfactory manner. In the event of a default posing an immediate danger to health, safety or welfare of the Town or its residents, the Administrative Officer shall act immediately to remove or abate such danger, and the Board may seek reimbursement through the guarantee.

F. Partial Release of Performance Guarantee

When an applicant, who has posted a performance guarantee in the amount of all of the required improvements, has completed all improvements except 1) the surface course of pavement; 2) landscaping; 3) lighting; 4) as-built record plan; and, 5) if applicable septic systems; then, the applicant may request a 50% release in the performance guarantee. Said release will only be considered if the following conditions are met: A) all improvements that have been completed have been inspected by and approved by the Planning Board Engineer; B) all invoices of the Planning Board for the project are reimbursed by the applicant; and, C) the remainder of the improvements must be completed with 12 months from the date that the Board approves the release of the 50%. For phased projects, no release shall be considered for any phase until all public improvements are completed for all phases or until the application has completed all but the above list of improvements for all phases. A maintenance guarantee in accordance with this section shall also apply.

6.6 IMPACT STATEMENTS

In certain instances, an impact statement shall be required, at the expense of the applicant. Where an impact statement is required, the applicant may choose the person or company to prepare such statement subject to the prior approval of the Board. Where the Board is given discretion to require an impact statement, it shall only be done pursuant to a vote of the Board with findings setting forth the need for such statement. Such impact statements shall include, but are not limited to, the following:

A. Environmental

In accordance with R.I.G.L. 45-23-60(3), in order to make a positive finding that there will be no significant negative environmental impacts, the Planning Board may require that an environmental impact statement be prepared by the applicant of any subdivision or development project. Any application for a Major or Minor residential subdivision, a nonresidential subdivision, or a Major Land Development shall include a narrative describing the proposed project's major elements, potential significant impacts on the surrounding neighborhood and/or community and the means by which these identified impacts shall be mitigated by the project design or otherwise.

(1) The planning board shall have the authority to require the applicant to prepare an Environmental Impact Study (EIS) to assess the potential short and long term effects of the proposed subdivision or land development project under any of the following conditions:

- a. If all or part of the property that is the subject of the application includes land identified by any or all of following agencies; the Bristol planning board, the Bristol conservation commission, the Rhode Island Natural Heritage Program, the Rhode Island Historic Preservation and Heritage Commission, the Nature Conservancy, the RI Department of Environmental Management, the U.S. Geological Survey, the U.S. Environmental Protection Agency, as unique natural areas or areas of critical and/or environmental concern; or
- b. The planning board finds that there is reasonable expectation that the proposed subdivision or land development project may have a negative environmental impact on natural systems located on the property or adjacent to the property that is the subject of the application or upon nearby properties or natural systems.

(2) The board shall make findings of fact in writing and shall identify the environmental resources found to be potentially threatened. The board's findings shall be made a part of the record of the application

(3) An EIS required under this section shall be prepared by a qualified professional(s) and shall include research and documentation describing and assessing short and long-term cumulative environmental impacts, which may include but not be limited to impacts upon:

- (a) Freshwater wetlands;
- (b) Flooding and drainage;
- (c) Noise and air quality;
- (d) Solid waste generation;
- (e) Historic/archaeologic areas;
- (f) Traffic/road capacity;
- (g) Hydric soils;
- (h) Forests and agricultural lands;
- (i) Unique vegetation, significant trees, and important scenic or designed landscapes;
- (j) Natural heritage sites;
- (k) Wildlife and wildlife habitat;

- (l) Groundwater quality and quantity;
- (m) Surface water quality, streams and rivers; and
- (n) coastal resources and features.

(4) If an EIS is required, the applicant shall be so informed at the preliminary stage for a minor subdivision, or the master plan stage for a major subdivision or major land development and shall be advised as to the specific issues that the EIS must address.

(5) For any subdivision or land development project for which an EIS is required, the board shall have the authority to impose conditions on approval, including but not limited to off-site improvements, that, based on the findings and analysis of the EIS, are reasonably necessary to minimize adverse impacts that the development may have on the natural environment.

(6) All Environmental Impact Studies shall be referred to the conservation commission and other appropriate town boards, commissions, or other local, state or federal, agencies for their review and comment prior to planning board approval of the preliminary plan.

(7) The planning board may waive the requirement for an EIS if the development plans include LID Site Design strategies and innovative stormwater management techniques including total site impervious cover be 10 percent or less and total site disturbance of 20 percent or less.

(8) If in the opinion of the planning board, impacts identified in the EIS cannot be adequately mitigated so as to achieve compliance with each of the requirements specified in section 8.6, the planning board shall have the authority to deny approval of the proposed development design.

B. Fiscal

In accordance with R.I.G.L. 45-23-60(1), a fiscal impact statement, detailing the estimated cost of providing services to the proposed development and the estimated revenue to be derived from taxes and other fees, shall be required of all major land development projects and of all major subdivisions of twenty (20) lots or more. A fiscal impact statement may be required of any DPR applicant, in accordance with the parameters set forth herein.

6.7 APPROVAL AND ACCEPTANCE OF PUBLIC IMPROVEMENTS

Approval of a plat by the Planning Board shall be deemed the acceptance by the public of any street or other open space offered therein for dedication. Notwithstanding the acceptance of any land, street, or facility offered for dedication, such acceptance shall not impose any duty or responsibility upon the Town of Bristol to maintain or improve any dedicated streets, areas, or facilities until the Town Council shall have specifically authorized maintenance or improvement under procedures established by State Law or Town Ordinance governing public expenditures for such purposes. The above shall be stated on

all approved final plat plans. For any plat containing a public street or public open space, as part of the final approval process (where the public improvements have already been completed) or as part of the release of the final performance and/or maintenance guarantee, the Planning Board shall recommend in writing to the Town Council to accept the street or open space for maintenance.

6.8 WAIVERS AND MODIFICATIONS

Pursuant to the procedures set forth in Article 8 of these Regulations, the Board shall have the power to grant such waivers and/or modifications from the requirements for subdivision or development project approval as may be reasonable and within the general purposes and intents of the provisions for these Regulations. Neither the Administrative Officer nor the TRC may grant waivers, and a public hearing or public information meeting (See sections 8.5 and 8.7) shall be required before any waiver may be granted. The only grounds for such waivers and/or modifications shall be where the literal enforcement of one (1) or more provisions of these Regulations is impracticable and will exact undue hardship because of peculiar conditions pertaining to the land in question or where such waiver and/or modification is in the best interest of good planning practice and/or design as evidenced by consistency with the Comprehensive Plan and Zoning Ordinance.

ARTICLE 7

ADMINISTRATION AND ENFORCEMENT OF REGULATIONS

7.1 ADMINISTRATIVE OFFICER

Local administration of these Regulations shall be under the direction of the Administrative Officer, who shall oversee and coordinate the review, approval, recording and enforcement provisions of these Regulations, and who shall be under the supervision of the Board.

A. Appointment and Qualifications

The Director of Community Development of the Town, or his/her designee shall be the Administrative Officer under these Regulations, and shall have the following minimum qualifications: (a) a master's degree in planning and at least two years experience working in land use planning; or (b) a bachelor's degree in planning and at least five years experience working in land use planning. The Administrative Officer shall be required to attend any training for administrative officers provided by or sponsored by the Rhode Island Department of Administration, Division of Planning, or as otherwise directed by the Planning Board.

B. Technical Review Committee Chairman

The Administrative Officer shall serve as the Chairman of the Technical Review Committee.

C. Coordination of Reviews

The Administrative Officer shall be responsible for coordinating reviews of proposed subdivision or development projects with adjacent municipalities as is necessary to be consistent with applicable federal, state and local laws and as directed by the Board.

D. Enforcement

Enforcement of these Regulations shall be under the direction of the Administrative Officer who shall report to the Board. The Administrative Officer shall be responsible for coordinating the enforcement efforts of the Zoning Enforcement Officer, the Building Inspector, the Planning Board Engineers, the Director of the Department of Public Works, and other local officials responsible for the enforcement or carrying out of discrete elements of these Regulations.

7.2 CERTIFICATION AND TIME PERIODS

A. Classification

The Administrative Officer shall advise the applicant as to which approvals are required and the appropriate board for hearing an application for a subdivision or development project.

B. Certification of A Complete Application

An application shall be complete for purposes of commencing the applicable time period for action when so certified in writing by the Administrative Officer. In the event such certification of the application is not made within the time specified in this chapter for the type of plan, the application shall be deemed complete for purposes of commencing the review period unless the application lacks information required for such applications as specified in the local regulations and the Administrative Officer has notified the applicant, in writing, of the deficiencies in the application.

C. Correction of Information

Notwithstanding Subsection B above, the Board may subsequently require correction of any information found to be in error and submission of additional information specified in the regulations but not required by the Administrative Officer prior to certification, as is necessary to make an informed decision.

D. Postponement

Where the review is postponed with the consent of the applicant, pending further information or revision of information, the time period for review shall be stayed and shall resume when the Administrative Officer or the Board determines that the required application information is complete. All such postponements, including the consent of the applicant, shall be documented in writing.

7.3 PRE-APPLICATION MEETINGS AND CONCEPT REVIEW

One or more pre-application meetings shall be held for all major subdivision or major LDP applications. Upon request of either the Town or the applicant, a pre-application meeting shall be held for any other application, including one for DPR.

A. Purpose

Pre-application meetings shall allow the applicant to meet with appropriate officials, boards and/or commissions, staff, and, where appropriate, state agencies, for advice as to the required steps in the approvals process, the pertinent local plans, ordinances, regulations, rules and procedures and standards which may bear upon the proposed subdivision or development project.

B. Informal Concept Plan Review

At the pre-application stage the applicant may also request the Board or the Technical Review Committee for an informal concept plan review for a subdivision or development project. The purpose of the concept plan review is also to provide Board and/or Committee input in the formative stages of subdivision or development project concept design.

C. Advance Materials Submission

Applicants seeking a pre-application meeting or an informal concept review shall submit general, conceptual materials in advance of the meeting(s) as requested by municipal officials. In order to encourage pre-application meetings and informal concept reviews, no application fee shall be charged.

D. Non-Binding

Pre-application meetings shall aim to encourage information sharing and discussion of project concepts among the participants. All pre-application discussions are intended for the guidance of the applicant and shall not be considered approval or disapproval of a project or its elements.

E. Subsequent Filing of Application

Provided that at least one (1) preapplication meeting has been held for major land development or subdivision application or sixty (60) days has elapsed from the filing of the preapplication submission and no preapplication meeting has been scheduled to occur with said sixty (60) days, nothing shall be deemed to preclude an applicant from thereafter filing and proceeding with an application for a land development or subdivision project in accordance with Section 7.2.

7.4 TECHNICAL REVIEW COMMITTEE

A. Composition

The Planning Board shall establish and oversee a Technical Review Committee (TRC), which shall be composed of the following permanent members: the Administrative Officer, the Zoning Enforcement Officer, and the Public Works Director or his/her designee. It shall also consist of the following rotating members: Planning Board Engineer who is assigned to the subdivision or development project, and the Planning Board Member(s) (regular or alternate) who is assigned by the Chairman as the Duty Member for the subdivision or development project. When the project is within the jurisdiction of the Zoning Board or the Historic District Commission, the TRC shall include the Chairman of the Zoning Board and/or the Chairman of the Historic District Commission or their designee.

The composition of the TRC for Major Land Development Projects and Development Plan Review projects shall include an architect and a landscape architect, registered in the State of Rhode Island to assist the TRC in evaluating specific complex or contextually sensitive

submissions. If the Planning Board or TRC as the case may be, finds that the existing conditions and proposed changes will not be such that a more detailed level of review are needed, the architect and/or landscape architect may not be required. The Planning Board Engineer, architect and/or landscape architect shall be selected by the Town as a consultant with the fee for same paid for by the applicant per Section 7.5C.

B. Duty Member of Planning Board

The Chairman of the Planning Board shall assign one Regular or Alternate Member of the Board to each subdivision or development project. Such member shall be designated as the Duty Member for that particular subdivision or development project. The Chairman shall have the authority to assign or reassign the Duty Member for good cause.

C. Assistance to TRC

The TRC shall have the authority to seek assistance from all officials and departments of the Town and from state and federal agencies.

D. Reports, Findings and Recommendations of the TRC

Reports of the TRC to the Board shall be in writing and kept as part of the permanent documentation on the development application. In no case shall the recommendation of the TRC be binding on the Board in its activities or decisions. All reports of the TRC shall be made available to the applicant prior to the meeting of the Board at which the reports are first considered.

7.5 ADMINISTRATIVE FEES

A. Application Fees

The applicant shall be required to pay a fee at the time of application for each stage of review (i.e. Master Plan, Preliminary and Final), for all subdivisions and development projects. Such fees shall be reviewed annually by the Board and revised as appropriate. The fees are as follows:

- | | |
|---|---------------|
| (1) Pre-application Meeting (any subdivision or development project): | \$0 |
| (2) Administrative Subdivision: | \$100 |
| (3) Minor Subdivision without street: | \$100 per lot |
| (4) Minor Subdivision with street: | \$200 per lot |
| (5) Major Subdivision: | \$250 per lot |
| (6) Development Plan Review (DPR) by TRC: | \$500 |

(7) Special Meeting of the Board without Public Hearing:	\$500
(8) Special Meeting of the Board with Public Hearing:	\$750
(9) Extension of Time:	\$300
(10) Reinstatement of Application:	\$750
(11) Unified development review:	\$300
(12) Any Land Development Project (LDP), or Development Plan Review (DPR) by the Planning Board:	<u>The sum of:</u>
Residential:	\$250 per proposed lot or per proposed unit
Nonresidential:	\$0.20 per square foot of GFA, not to exceed \$500.

B. Engineering Fees

The applicant will also be required to reimburse the Planning Board for the cost of review and inspection by the Planning Board Engineer based on the proposal and invoice from the contracted engineer. Review fees shall be paid by the applicant prior to each stage of review in order for the application to be certified complete. Should actual inspection fees exceed the amount collected, the applicant shall reimburse the Town prior to the issuance of a final approval or certificate of occupancy. The Administrative Officer shall provide notice to the applicant as to the need for additional fees should they be insufficient.

Preapplication Conference:

No engineering review fee.
Should applicant agree that engineering review is desirable, reimbursement of contracted engineer invoice will be required.

Subdivision/Land Development:

Review Fee: Based upon proposal received from Planning Board Engineer.

Inspection Fee payable when improvements begin (either at the Preliminary or the Final review stage):

3% of the cost of public improvements up to \$149,999;

2.50% of the cost of public improvements between \$150,000 to \$299,999;
2.25% of the cost of public improvements \$300,000 and above.

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Development Plan Review:

Review Fee: Based upon proposal received from Planning Board Engineer.

Inspection Fee (Payable at the Preliminary review stage):

3% of the cost of public improvements up to \$149,999;

2.50% of the cost of public improvements between \$150,000 to \$299,999;

2.25% of the cost of public improvements \$300,000 and above.

C. Other Fees

As set forth herein, the Board shall have the power to require various information and studies from an applicant, provided that the proper findings of fact have been made. Such items include, but are not limited to: an environmental impact study, a market analysis, a traffic study, a soils analysis or a drainage study. Any such item shall be paid for by the applicant.

The Planning Board shall also impose a project review fee on those applications which require in the judgment and sole discretion of the Planning board, analyses or review on behalf of the Board by outside consultants due to the size, scale or complexity of a proposed project, the project's potential impacts and/or because the town lacks the necessary expertise to perform the review work related to the permit or approval. In hiring outside consultants, the board may engage, including but not limited to, engineers, planners, landscape architects, architects, geo-technical experts, hydrology experts, or other appropriate firms, persons or professionals able to assist the board in its review of the proposal or application and to ensure compliance with all relevant laws, ordinances, and regulations as well as with the formulation of reasonable measures to assess and/or mitigate identified impacts. Such assistance may include, but shall not be limited to, analyzing and application, review of information submitted by an applicant, design review of applications to determine consistency with the town's design standards (Metacom Avenue) and objectives including those referenced in the comprehensive plan, examining the adequacy and reasonable alternatives of measures to mitigate potential impacts, monitoring or inspecting a project or site for compliance with the board's decisions or regulations, or inspection a project during construction or implementation, or such other similar technical assistance as the planning board may require. The review fee shall be paid prior to commencement of the review based upon a cost proposal prepared by the selected consultant.

7.6 VIOLATIONS AND PENALTIES

A. Violations

The failure to comply with these Regulations or any of the terms or conditions of an approval (whether Master Plan, Preliminary or Final) issued by the Board, shall be a violation of these Regulations. The violation of any terms or conditions of any action imposed by the Board or of any other agency or officer charged in these Regulations with enforcement of any of the provisions shall also be a violation of these Regulations. Violation of the regulations shall also include any action related to the transfer or sale of land in unapproved subdivision or development projects. Any owner, or agent of the owner, who transfers, sells or negotiates to sell any land by reference to or exhibition of, or by other use, a plat of the subdivision or development project before the plat has been approved by the Board and recorded in the municipal land evidence records, shall be in violation of the local regulations and subject to the penalties described below.

B. Penalties - Fine

The Administrative Officer, in consultation with the Town Solicitor, shall be empowered to levy a fine for any violation as defined herein. The Administrative Officer shall ordinarily issue a notice of violation and order the violator to correct the violation within a reasonable time, with such time to be indicated on the notice. However, in cases of willful violation or danger to public health, safety or welfare, the Administrative Officer may levy a fine immediately. For any violation, the Administrative Officer may request the opinion of the Board as to the proper penalty. The penalty for violation shall reasonably relate to the seriousness of the offense, and shall not exceed five hundred dollars (\$500) for each violation, and each day of existence of any violation shall be deemed to be a separate offense. Any such fine shall inure to the Town. The Administrative Officer shall report any fines levied to the Board at its next meeting and shall file a copy of such report in the record of any subdivision or development project so fined. Any fine may be appealed to the appropriate division of the Rhode Island District Court.

C. Penalties - Injunction

The Town, through its Town Solicitor, may also cause suit to be brought in the Supreme Court or Superior Court, in the name of the Town, to restrain the violation of, or to compel compliance with, the provisions of these Regulations. The Town may consolidate an action for injunctive relief and/or fines under these Regulations or other local ordinance in the Superior Court for Providence and Bristol Counties.

ARTICLE 8

PROCEDURES OF THE PLANNING BOARD

8.1 COMPOSITION OF BOARD

A. Appointment and Removal

The Board shall consist of five (5) members and two (2) alternate members, appointed by the Town Council, with the qualification and for the terms as set forth in the Bristol Home Rule Charter. Any member of the Board may be removed from office by the Town Council for due cause, following a public hearing, pursuant to R.I.G.L. 45-22-3, as amended. Due cause shall include, but not be limited to, failure to attend three (3) consecutive meetings of the Board.

B. Organization

The Board shall organize annually by electing from its membership a chairman, a vice chairman, and a secretary. The Board may adopt any procedural rules deemed necessary to the discharge of its duties.

C. Cooperative Agreements and Technical Assistance

The Board may, subject to the limit of funds appropriated to it, enter into cooperative agreements with any other city or town, state, regional, or federal agencies or private organizations to undertake studies deemed to be in the best interest of the Town, including cooperative agreements with cities or towns in neighboring states where problems of common interest are deemed to exist. The Board may accept or engage technical or clerical assistance, including the hiring of one or more Planning Board Engineers or assistance from other public agencies or private organizations, subject to the limit of funds appropriated to it.

8.2 PUBLICATION AND AVAILABILITY OF REGULATIONS

Printed copies of these Regulations shall be available to the general public and shall be revised to include all amendments. Any appendices shall also be available. A reasonable charge may be made for copies. Upon publication of these Regulations and any amendments thereto, the Town shall send a copy to the Rhode Island Department of Administration's Division of Planning and to the State Law Library.

8.3 RECORDS OF THE BOARD

A. Public Availability

All records of the Board proceedings and decisions shall be written and kept permanently available for public review. Completed applications and related materials shall also be available for public review. Copies of any document or plan may be purchased for a fee not to exceed the actual cost including research time, pursuant to Chapter 2 of Title 38 of the General Laws of Rhode Island. No commercial use may be made of such records. (See R.I.G.L. 38-2-6.)

B. Contents

All final written comments to the Board from the administrative officer, municipal departments, the technical review committee, state and federal agencies, and local commissions shall also be part of the permanent record of the development application.

8.4 MEETINGS AND VOTES

A. Qualified Immunity

Participation in a Board meeting or other proceedings by any party shall not be a cause for civil action or liability except for acts not in good faith, intentional misconduct, knowing violation of law, transactions where there is an improper personal benefit, or malicious, wanton, or willful misconduct.

B. Quorum and Votes

A quorum of the Board shall be at least four (4) members, at least three (3) of whom shall be regular members. All votes of the Board shall be made part of the permanent record and shall show the members present and their votes. A decision by the Board to approve any development project or subdivision application shall require the affirmative vote of at least three (3) members, regular or alternate, of the Board, this being a majority of the current Board membership. Provided however, that when one or more regular members have recused themselves in writing due to a conflict of interest, a quorum may consist of two (2) regular members and two (2) alternate members, and any vote by such quorum to approve an application shall require four (4) votes in the affirmative. A denial of an application shall always require a separate vote with appropriate findings.

C. Decisions

All written decisions of the Board shall be recorded in the land evidence records within thirty-five (35) days after the Board votes. A copy of the recorded decision shall be mailed within one business day of recording, by any method that provides a confirmation of receipt, to the applicant and to any objector who has filed a written request for notice with the Administrative Officer.

D. Alternate Members

As set forth in Section 8.1, the Board shall include two alternate members. They shall be designated as the first (1st) and second (2nd) alternate members. These alternate members shall sit and shall actively participate in hearings. The first (1st) alternate shall vote if a member of the Board is unable to serve at a hearing and the second (2nd) shall vote if two (2) members of the Board are unable to serve at a hearing. In the absence of the first (1st) alternate member, the second (2nd) alternate member shall serve in the position of the first (1st) alternate.

E. Regular and Special Meetings

The Board shall hold a regular meeting at least once each month, except for the month of August. The Board may hold special meetings at the direction of the chairman. If such meeting is held at the specific request of an applicant, such applicant shall pay a fee as set forth in Article 7 to cover the expense of noticing and holding such meeting. However, such fee shall be refunded if the quorum requirement for the Board is not met.

F. Conflict of Interest

As soon as any conflict of interest for a member occurs or is revealed, that member shall immediately recuse himself or herself, and shall not sit as an active member and shall take no part in the conduct of the meeting or hearing on such matter. The member shall notify the chairman in writing (or notify the vice chairman if the conflict is for the chairman), and the member shall also notify the Rhode Island Ethics Commission in writing as required by law.

8.5 PUBLIC HEARINGS

A. Public Hearing

A public hearing shall be required for a major subdivision or major land development project or where a street extension or creation requires a public hearing for a minor subdivision or minor land development project or for a unified development.

(1) Purpose

The purpose of a public hearing is to provide the applicant with an opportunity to present the application to the public, and to provide the public with an opportunity to inform the Board of concerns relating only to the proposed subdivision or development project.

(2) Part of the Record

At the public hearing the applicant shall present the proposed development project. The Board shall allow oral and written comments from the general public. All public comments shall be made part of the public record of the project application.

(3) Notice: How Provided

Public notice of the hearing shall be given at least fourteen (14) days prior to the date of the hearing in a newspaper of local circulation within the Town following the municipality's usual and customary practices for this kind of advertising. The same notice shall be posted in the town clerk's office and one other municipal building and the municipality must make the notice accessible on its municipal home page of its website at least fourteen (14) days prior to the hearing. Notice shall be sent to the applicant and to each owner within the notice area as set forth in Section 8.5.C below, by first class mail, not less than ten (10) days prior to the date of the hearing. Notice shall also be sent to any individual or entity holding a recorded conservation or preservation restriction on the property that is the subject of the application at least fourteen (14) days prior to the hearing. For any notice sent by first-class mail, the sender of the notice shall submit a notarized affidavit to attest to such mailing.

B. Notice Requirements For Public Hearing

(1) Content of Notice

The notice shall provide the time and place of hearing or meeting, and shall include the street address of the subject property, or if no street address is available, the distance from the nearest existing intersection in tenths (1/10's) of a mile. The notice shall also provide a brief description of the extent of the subdivision or development project, and if any waiver or modification is required, shall describe the waiver or modification.

(2) Notice Area

Notice shall be sent by the Town to the applicant and to:

- (a) all owners of real property whose property is located within two hundred (200) feet of the perimeter of the subject property, if all of the subject property is located in the D, W, LB, or R-6 Zones, or
- (b) all owners of real property whose property is located within three hundred (300) feet of the perimeter of the subject property, if any part of the subject property is located in any zone other than the zones set forth in Subsection "a" above.
- (c) the Town of Warren Planning Board and the Touisset Point Water Trust, referring to the wells of the Touisset Point Water Trust, if the subject property is

located within two thousand feet (2,000') of such wells. Such notice must be sent at least two (2) weeks prior to the hearing or meeting.

(d) the administrative officer of an adjacent town if (1) the notice area extends into the adjacent town, or (2) the development site extends into the adjacent town, or (3) if the Administrative Officer determines that there is a potential for significant negative impact on the adjacent town.

(e) the Kickemuit River Council when subject property is located within the watershed of the Kickemuit River.

(3) Notice cost

The cost of all such notice, including any additional fees for special meetings, shall be borne by the applicant.

8.6 REQUIRED FINDINGS

For all subdivision or development project applications, the approving authority, whether Administrative Officer or Board, shall address each of the general purposes stated in Article 1 of these Regulations and R.I.G.L. Section 45-23-30, and shall make positive findings on each of the following provisions as they apply to the application under review, as part of the proposed project's record prior to approval. Where all findings are positive, approval may not be withheld by the Board. The requirement to address the purposes of these Regulations and make written findings on each of the following provisions shall also apply in the case of a vote to deny an application.

A. Consistency

The proposed development is consistent with the comprehensive community plan and/or has satisfactorily addressed the issues where there may be inconsistencies;

B. Compliance with Zoning Ordinance

The proposed development is in compliance with the standards and provisions of the Town's zoning ordinance;

C. Environmental Impact

There will be no significant negative environmental impacts from the proposed development as shown on the final plan, with all required conditions for approval;

D. Buildable Lot

The subdivision or development project, as proposed, will not result in the creation of individual lots with such physical constraints to development that building on those lots according to

pertinent regulations and building standards would be impracticable. (See definition of Buildable lot). Lots with such physical constraints to development may be created only if identified as permanent open space or permanently reserved for a public purpose on the approved, recorded plans; and

E. Street Access

All proposed development projects and all subdivision lots shall have adequate and permanent physical access to a public street. Lot frontage on a public street without physical access shall not be considered compliance with this requirement.

8.7 WAIVER, MODIFICATION, REINSTATEMENT AND EXTENSION

A. Waiver and/or Modification of Requirements

The Board shall have the power to grant such waivers and/or modifications from the requirements for development project and subdivision approval as may be reasonable and within the general purposes and intents of the provisions for local regulations. The only grounds for such waivers and/or modifications shall be where the literal enforcement of one (1) or more provisions of the regulations is impracticable and will exact undue hardship because of peculiar conditions pertaining to the land in question or where such waiver and/or modification is in the best interest of good planning practice and/or design as evidenced by consistency with the Town's Comprehensive Plan and Zoning Ordinance.

B. Waiver of Development Plan Approval (DPR)

The Board may waive requirements for DPR approval where there is a change in use or occupancy and no extensive construction of improvements is sought. The waiver may be granted only by a decision by the Board finding that the use will not significantly affect existing drainage, circulation, relationship of buildings to each other, landscaping, buffering, lighting and other considerations of development plan approval, and that the existing facilities do not require upgraded or additional site improvements. The application for a waiver of DPR shall include documentation, as required by the Board, on prior use of the site, the proposed use, and its impact.

C. Required Procedure for any Waiver or Modification

The Board may approve, approve with conditions, or deny the request for either a waiver or modification. No waiver or modification may be granted without first being heard as part of either a public information meeting or public hearing as set forth in Section 8.5. The notice for such public information meeting or public hearing shall include a description of the proposed waiver or modification.

D. Reinstatement

When the deadlines set in these Regulations or in conditions of approval are exceeded, the subdivision or development approval is deemed to have expired and shall be rendered invalid. The approval may be reinstated by the Board, upon written application, under the following conditions:

(1) Good Cause - Burden on Applicant

The Applicant shall have no guarantee of reinstatement and shall bear the burden of proof to show that said applicant has proceeded with due diligence and that:

- (a) The subdivision or development is consistent with the Comprehensive Plan, and the Comprehensive Plan has not changed substantially since the time of the original application as it would apply to this subdivision or development.
- (b) These Regulations, the Zoning Ordinance, and all applicable state and federal regulations are substantially the same as they were at the time of original application, as they would apply to this subdivision or development.
- (c) The Zoning Map designation for the subdivision or development has not changed substantially since the time of original application.
- (d) No substantial change to the physical conditions of the subdivision or development or the neighboring property has occurred since the time of original application.

(2) Procedure and Stage of Review

The request for reinstatement shall be in writing, and the Board shall make written findings of fact in approving or denying such request. If reinstated, the applicant shall proceed from the stage previous to where expiration occurred. For example, if preliminary approval had been granted and then expired, then the applicant shall reapply for preliminary approval. If, and only if, reinstatement is granted for a stage of approval, then all previous stages of approval shall automatically be reinstated.

(3) Vesting

There shall be no vesting for any subdivision or development the deadline for which has expired, unless reinstatement is granted, in which case the date of reinstatement shall toll the beginning of any vesting time period.

E. Extension

Prior to expiration of any deadline set forth in these Regulations or in any approval of the Board, an applicant may request an extension thereof in writing. The applicant shall demonstrate to the Board that the factors set forth in subsections D.(1)(a) through D.(1)(d) above have been met. No extension shall be granted for a period of more than one (1) year.

8.8 SIGNING AND RECORDING OF PLATS AND PLANS

A. Signing

All approved final plans and plats for development project and subdivision projects shall be signed by the appropriate Board official with the date of approval. Plans and plats for major development projects and subdivisions shall be signed by the Board chairperson or the secretary of the Board attesting to the approval by the Board. All minor land development or subdivision plans and plats, administrative subdivision plans or plats, or DPR plans, shall be signed by the Board chairperson or secretary or the Board's designated agent.

B. Recording

Upon signature, all plans and plats shall be submitted to the administrative officer prior to recording and filing in the appropriate municipal departments. The material to be recorded for all plans and plats shall include all pertinent plans with notes thereon concerning all the essential aspects of the approved project design, the implementation schedule, special conditions placed on the development by the Town, permits and agreements with state and federal reviewing agencies, and other information as required by the Board.

C. Permanent Records

Other parts of the applications record for subdivisions and development projects, including all meeting records, approved master plan and preliminary plans, site analyses, impact analyses, all legal agreements, records of the public hearing and the entire final approval set of drawings shall be kept permanently by the municipal departments responsible for implementation and enforcement.

D. Emergency Services Notification

The Administrative Officer shall notify the statewide "911" emergency authority and the local police and fire authorities servicing the new plat with the information required by each of the authorities.

8.9 CHANGES TO RECORDED PLATS AND PLANS

A. Amendment Required For All Changes

For all changes to the approved plans of development or subdivision, an amendment of the final plan is required prior to the issuance of any building permit. Any changes approved in the final plan shall be recorded as amendments to the final plan in accordance with the procedure established for recording of plats in Section 8.8.

B. Minor Changes

Minor changes, as defined in subsection "D" below, to a subdivision or development project plan may be approved by the Administrative Officer, whereupon a permit may be issued. Such changes may be authorized without additional public hearings at the discretion of the Administrative Officer. All such changes shall be made part of the permanent record of the project application. This provision shall not prohibit the Administrative Officer from requesting a recommendation from the Board. Denial of the proposed change(s) shall be referred to the Board for review as a major change.

C. Major Changes

Major changes, which are hereby defined as any changes other than minor changes as defined in subsection "D" below, to a subdivision or development project plan may be approved only by the Board and must follow the same review and public hearing process required for preliminary approval of the type (minor subdivision or LDP, major subdivision or LDP, DPR by the Technical Review Committee, or DPR by the Board) of the subdivision or development project which is proposed to be changed.

D. Definition of Minor Changes

A minor changes is hereby defined as any change that does not substantially impact the proposed subdivision or development project or any of the neighboring properties and that meets all of the following criteria:

- (1) There is no increase the number of lots or dwelling units.
- (2) There is no change to any dimension of the plan, including building envelopes, exceeding twenty five percent (25%).
- (3) There is no change to the type of street or driveway.
- (4) There is no change required to any public infrastructure.

8.10 PRECEDENCE OF APPROVALS WITH OTHER LOCAL PERMITTING AUTHORITIES

A. Zoning Board

(1) Variance

Where an applicant requires both a variance from the zoning ordinance and Planning Board approval, and the application is not undergoing unified development review, the applicant shall first obtain an advisory recommendation from the Planning Board, as well as conditional Planning Board approval for the first approval stage for the proposed project, which may be simultaneous, then obtain conditional

Zoning Board relief, and then return to the Planning Board for subsequent required approval(s).

(2) Special Use Permit

Where an applicant requires both a special-use permit under the local zoning ordinance and Planning Board approval, and the application is not undergoing unified development review, the applicant shall first obtain an advisory recommendation from the Planning Board, as well as conditional Planning Board approval for the first approval stage for the proposed project, which may be simultaneous, then obtain a conditional special use permit from the Zoning Board, and then return to the Planning Board for subsequent required approval(s).

B. Town council

Where an applicant requires both Planning Board approval and council approval for a zoning ordinance or zoning map change, the applicant shall first obtain an advisory recommendation on the zoning change from the Planning Board, as well as conditional Planning Board approval for the first approval stage for the proposed project, which may be simultaneous, then obtain a conditional zoning change from the council, and then return to the Planning Board for subsequent required approval(s).

8.11 APPEAL FROM DECISION OF ADMINISTRATIVE OFFICER

A. Decisions by the administrative officer approving or denying projects pursuant to RIGL §§ 45-23-38 or 45-23-50 shall not be subject to this section and shall proceed directly to Superior Court as set forth in RIGL §45-23-71.

1. An appeal to the board of appeal from a decision or action of the administrative officer may be taken by an aggrieved party to the extent provided in RIGL §45-23-66. The appeal must be taken within twenty (20) days after the decision has been recorded in the town's land evidence records and posted in the office of the town clerk.
2. The appeal shall be in writing and state clearly and unambiguously the issue or decision that is being appealed, the reason for the appeal, and the relief sought. The appeal shall either be sent by certified mail, with a return receipt requested, or be hand-delivered to the board of appeal. The town clerk shall accept delivery of an appeal on behalf of the board of appeal.
3. Upon receipt of an appeal, the board of appeal shall require the administrative officer to immediately transmit to the board of appeal, all papers, documents and plans, or a certified copy thereof, constituting the record of the action which is being appealed.

B. Stay. An appeal stays all proceedings in furtherance of the action being appealed.

C. Hearing

1. The board of appeal shall hold a hearing on the appeal within forty-five (45) days of the receipt of the appeal, give public notice of the hearing, as well as due notice to the parties of interest. At the hearing the parties may appear in person, or be represented by an agent or attorney. The board shall render a decision within ten (10) days of the close of the public hearing. The cost of any notice

required for the hearing shall be borne by the applicant.

2. The board of appeal shall only hear appeals of the actions of an administrative officer at a meeting called especially for the purpose of hearing the appeals and which has been so advertised.
3. The hearing, which may be held on the same date and at the same place as a meeting of the zoning board of review, must be held as a separate meeting from any zoning board of review meeting. Separate minutes and records of votes as required by RIGL §45-23-70(d) shall be maintained by the board of appeal.

D. Standards of Review.

1. In instances of the board of appeal's review of an administrative officer's decision, the board of appeal shall not substitute its own judgment for that of the administrative officer but must consider the issue upon the findings and record of the administrative officer. The board of appeal shall not reverse a decision of the administrative officer except on a finding of prejudicial procedural error, clear error, or lack of support by the weight of the evidence in the record.
2. The concurring vote of three (3) of the five (5) members of the board of appeal sitting at a hearing, is necessary to reverse any decision of the administrative officer.
3. In the instance where the board of appeal overturns a decision of the administrative officer, the proposed project application is remanded to the administrative officer, at the stage of processing from which the appeal was taken, for further proceedings before the administrative officer and/or for the final disposition, which shall be consistent with the board of appeal's decision.
4. The board of appeal shall keep complete records of all proceedings including a record of all votes taken, and shall put all decisions on appeals in writing. The board of appeal shall include in the written record the reasons for each decision.

8.12 APPEALS TO SUPERIOR COURT

- a. An aggrieved party may appeal a decision of the board of appeal, a decision of an administrative officer made pursuant to RIGL §§ 45-23-38 or §45-23-50 where authorized to approve or deny an application, a decision of the technical review committee, where authorized to approve or deny an application, or a decision of the planning board, to the Superior Court for Providence and Bristol Counties by filing a complaint stating the reasons of for the appeal within twenty (20) days after the decision has been recorded and posted in the office of the town clerk. Recommendations by any public body or officer under this chapter are not appealable under this section. The authorized permitting authority shall file the original documents acted upon by it and constituting the record of the case appealed from, or certified copies of the original documents, together with any other facts that may be pertinent, with the clerk of the court within thirty (30) days after being served with a copy of the complaint. When the complaint is filed by someone other than the original applicant or appellant, the original applicant or appellant and the planning board shall be made parties to the proceedings. No responsive pleading is required for an appeal filed pursuant to this section. The appeal does not stay proceedings upon the decision appealed from, but the court may, in its discretion, grant a stay on appropriate terms and make any other orders that it deems necessary for an equitable disposition of the appeal.
- b. Appeals from a decision granting or denying approval of a final plan shall be limited to elements of the approval or disapproval not contained in the decision reached by the planning board at the preliminary stage; providing that, a public hearing has been held on the plan, if required pursuant to this chapter.

- c. The review shall be conducted by the superior court without a jury. The court shall consider the record of the hearing before the planning board and, if it appears to the court that additional evidence is necessary for the proper disposition of the matter, it may allow any party to the appeal to present evidence in open court, which evidence, along with the report, shall constitute the record upon which the determination of the court shall be made.
- d. The court shall not substitute its judgment for that of the planning board as to the weight of the evidence on questions of fact. The court may affirm the decision of the board of appeal or remand the case for further proceedings, or may reverse or modify the decision if substantial rights of the appellant have been prejudiced because of findings, inferences, conclusions or decisions which are:
 1. In violation of constitutional, statutory, ordinance or planning board regulations provisions;
 2. In excess of the authority granted to the planning board by statute or ordinance;
 3. Made upon unlawful procedure;
 4. Affected by other error of law;
 5. Clearly erroneous in view of the reliable, probative, and substantial evidence of the whole record;
or
 6. Arbitrary or capricious or characterized by abuse of discretion or clearly unwarranted exercise of discretion.

8.13 UNIFIED DEVELOPMENT REVIEW

- a. Review of projects submitted under this section shall adhere to the procedures, timeframes and standards of the underlying category of the project as set forth in these regulations, but shall also include the following procedures:
 1. Minor subdivisions and land-development projects. Except for dimensional relief granted by modification, requests for variances and/or for the issuance of special-use permits related to minor subdivisions and land-development projects shall be submitted as part of the application materials for the preliminary plan stage of review or if combined, for the first stage of reviews. A public hearing on the application, including any variance and special-use permit requests that meets the requirements of subsection [(5)] of this section shall be held prior to consideration of the preliminary plan by the planning board. The planning board shall conditionally approve or deny the request(s) for the variance(s) and/or special-use permit(s) before considering the preliminary plan application for the minor subdivision or land-development project. Approval of the variance(s) and/or special-use permit(s) shall be conditioned on approval of the final plan of the minor subdivision or land-development project.
 2. Development plan review. Except for dimensional relief granted by modification, requests for relief from the literal requirements of the zoning ordinance and/or for the issuance of special-use permits related to development plan review projects shall be submitted as part of the application materials for first stage of review. A public hearing on the application, including any variance and special-use permit requests that meets the requirements of subsection [(5)] of this section shall be held prior to consideration of the preliminary plan by the planning board; see RIGL §45-23-

50(d)(1)(ii). The planning board shall conditionally approve or deny the request(s) for the variance(s) and/or special-use permit(s) before considering the preliminary plan application for the development plan review project. Approval of the variance(s) and/or special-use permit(s) shall be conditioned on approval of the final stage of review of the development plan review project.

3. Major subdivisions and land-development projects.

i. Master plan. Except for dimensional relief granted by modification, requests for variances for relief from the literal requirements of the zoning ordinance and/or for the issuance of a special-use permit related to major subdivisions and land-development projects shall be submitted as part of the application materials for the master plan stage of review, or if combined, the first stage of review. A public hearing on the application, including any variance and special-use permit requests that meets the requirements of subsection (e) of this section, shall be held prior to consideration of the master plan by the planning board. The planning board shall conditionally approve or deny the requests for the variance(s) and/or special-use permit(s) before considering the master plan application for the major subdivision or land-development project. Approval of the variance(s) and/or special-use permit(s) shall be conditioned on approval of the final plan of the major subdivision or land-development project.

ii. Preliminary plan. During the preliminary plan stage of review, applicants shall have the ability to request alteration of any variance(s) and/or special-use permit(s) granted by the planning board during the master plan stage of review, and/or to request new variance(s) and/or special-use permit(s), based on the outcomes of the more detailed planning and design necessary for the preliminary plan. If necessary, the applicant shall submit such requests and all supporting documentation along with the preliminary plan application materials. If the applicant requests new or additional zoning relief at this stage a public hearing on the application, that meets the requirements of subsection [(5)] of this section, shall be held prior to consideration of the preliminary plan by the planning board. The planning board shall conditionally approve, amend, or deny the requests for alteration(s), new variance(s) and/or new special-use permit(s), before considering the preliminary plan application for the major subdivision or land-development project. Approval of the alteration(s), new variance(s), and/or new special-use permit(s) shall be conditioned on approval of the final plan of the major subdivision or land-development project. If the planning board denies the request for alteration(s), new variance(s), and/or new special-use permit(s), the planning board shall have the option of remanding the application back to the master plan stage of review. Alternatively, if the planning board denies the request for alteration(s), new variance(s), and/or new special-use permit(s), the applicant may consent to an extension of the applicable decision deadline so that additional information can be provided and reviewed by the planning board.

4. Decision. The time periods by which the planning board must approve or deny applications for variances and special-use permits under the unified development review provisions of the local regulations shall be the same as the time periods by which the board must make a decision on the applicable review stage of the category of project under review.

5. Unless otherwise provided in this chapter all under this section shall require a single public hearing, held pursuant to subsection [(a)(1)] of this section. The public hearing must meet the following requirements:
 - i. Public hearing notice shall adhere to the requirements found in RIGL §45-23-42(b).
 - ii. The notice area for notice of the public hearing shall be as set forth in Sec. 8.5, and notice of the public hearing shall be sent by the administrative officer to the administrative officer of an adjacent municipality if: (1) the notice area extends into the adjacent municipality; or (2) the development site extends into the adjacent municipality; or (3) there is a potential for significant negative impact on the adjacent municipality. Additional notice within watersheds shall also be sent as required in RIGL §45-23-53(b) and (c).
 - iii. Public notice shall indicate that dimensional variance(s), use variance(s) and/or special-use permit(s) are to be considered for the subdivision and/or land-development project.
 - iv. The cost of all public notice is to be borne by the applicant.
6. The time periods by which the permitting authority must approve, approve with conditions or deny requests for variances and special-use permits under the unified development review provisions of a zoning ordinance shall be the same as the time periods by which the planning board must make a decision on the applicable review stage of the underlying type of project under review.
7. The expirations period of an approval of a variance or special use permit granted under this section shall be the same as those set forth in the statute for the underlying type of project under review.
8. Decisions under this section, including requests for the variance(s) and/or special-use permits that are denied by the planning board may be appealed pursuant to RIGL § 45-23-71.

ARTICLE 9

ADOPTION, AMENDMENT AND APPEAL OF REGULATIONS

9.1 AUTHORITY TO ADOPT

The Planning Board is empowered by Ordinance Number 1983-11, §2, of the Town of Bristol, adopted by the Bristol Town Council on August 31, 1983, and by RIGL 45-23-51, to adopt, modify, and amend rules and regulations governing and restricting the platting or subdivision or development of land within the Town.

9.2 PROCEDURE FOR ADOPTION AND AMENDMENT

The Planning Board shall consider any amendments to these Regulations. Provisions of these Regulations and appendices shall be set forth in text and may incorporate maps and other technical and graphic material. These Regulations, and all the amendments thereto, shall be consistent with all provisions of the Rhode Island Development Review Act of 1992 (Chapter 23 of Title 45 of the General Laws of Rhode Island, as amended), the Rhode Island Zoning Enabling Act of 1991 (Chapter 24 of Title 45 of the General Law of Rhode Island, as amended), as well as the Bristol Comprehensive Plan and the Bristol Zoning Ordinance.

A. Receiving Officer

Other than for proposals originated by the Planning Board, the Administrative Officer shall be the officer to receive a proposal for amendment to these Regulations. Upon receipt of such proposal, the Administrative Officer shall refer such proposal to the Planning Board for study.

B. Referral to Town Council

In addition to the notice and hearing requirements set forth in Section 9.3, any amendment to these Regulations shall be referred to the Town Council within thirty (30) days of adoption for their for advice and comment. s which shall be advisory to the Planning Board.

9.3 PUBLIC HEARING AND NOTICE REQUIREMENTS

A. Public Hearing

No local regulations shall be adopted, repealed, or amended until after a public hearing has been held upon the question before the Planning Board. At this hearing opportunity shall be given to all persons interested to be heard upon the matter of the proposed regulations. The proposal may be altered or amended prior to the close of the public hearing without further advertising, as a result of further study or because of the views expressed at the public hearing. However, any such alteration or amendment must be presented for comment in the course of said hearing.

B. Newspaper Notice

The Planning Board shall first give notice of the public hearing by publication of notice in a newspaper of local circulation within the Town at least once each week for three (3) successive weeks prior to the date of the hearing, which may include the week in which the hearing is to be held. The same notice shall be posted in the town clerk's office and one other municipal building and the town shall make the notice accessible on its municipal home page of its website at least fourteen (14) days prior to the hearing.

C. Notice Contents

All notices, whether newspaper, posted, or mailed, shall:

- (1) Specify the place of said hearing and the date and time of its commencement;
- (2) Indicate that adoption, amendment or repeal of local regulations is under consideration;
- (3) Contain a statement of the proposed amendments to the regulations that may be printed once in its entirety, or may summarize or describe the matter under consideration;
- (4) Advise those interested where and when a copy of the matter under consideration may be obtained or examined and copied; and
- (5) State that the proposals shown thereon may be altered or amended prior to the close of the public hearing without further advertising, as a result of further study or because of the views expressed at the public hearing. Any such alteration or amendment must be presented for comment in the course of said hearing.

D. Mail Notice

Notice of the public hearing, which may be a copy of the newspaper notice, shall also be sent, at least two (2) weeks prior to the hearing, by first class mail to:

- (1) The Associate Director of the Division of Planning of the Rhode Island Department of Administration, and
- (2) The Town of Warren Planning Board and the Touisset Point Water Trust, referring to the wells of the Touisset Point Water Trust that are located within two thousand feet (2,000') of the boundary of the Town of Bristol.

E. Defects

No defect in the form of any notice under this section shall render any regulations invalid, unless such defect is found to be intentional or misleading.

9.4 APPEALS TO SUPERIOR COURT

A. Time Period, Standing and Stay

An appeal of an enactment of or an amendment to these Regulations may be taken to the Superior Court for Providence and Bristol Counties by filing a complaint, as set forth herein, within thirty (30) days after such enactment, or amendment has become effective. The appeal may be taken by any legal resident or landowner of the Town or by any association of residents or landowners of the Town. The appeal shall not stay the enforcement of these Regulations, as enacted or amended, but the court may, in its discretion, grant a stay on appropriate terms, which may include the filing of a bond, and make such other orders as it deems necessary for an equitable disposition of the appeal. Pursuant to R.I.G.L. 45-23-73, the court shall, at the request of either party, advance the case, so that the matter shall be afforded precedence on the calendar and shall thereupon be heard and determined with as little delay as possible.

B. Grounds for Appeal

The complaint shall set forth with specificity the area or areas in which the enactment or amendment is not consistent with the Comprehensive Planning Act, R.I.G.L. 45-22.2-1 *et. seq.*; the Zoning Enabling Act of 1991, R.I.G.L. 45-24-27 *et. seq.*; the Bristol Comprehensive Plan; or the Bristol Zoning Ordinance.

C. Review by Court

The review shall be conducted by the court without a jury. The court shall consider whether the enactment or amendment of the local regulations is consistent with the Comprehensive Planning Act, the Zoning Enabling Act of 1991, the Development Review Act of 1992, the Comprehensive Plan, and the Zoning Ordinance. If the enactment or amendment is not consistent, then the court shall invalidate the enactment or the amendment, or those parts of such enactment or amendment which are not consistent. The court shall not revise the local regulations to be consistent, but may suggest appropriate language as part of the court decision.

D. Attorneys Fees

The court may in its discretion, upon motion of the parties or on its own motion, award reasonable attorney's fees to any party to an appeal as set forth herein, including a municipality.

9.5 PENDING APPLICATIONS

A. Final Plan Recorded

Any subdivision or development project which has had its final plan legally recorded shall not have its final plan be subject to these Regulations, unless the applicant fails to meet a required deadline or seeks to make a change in the subdivision or development project.

B. Final Approval Received

Any subdivision or development project which has received final approval shall be subject to the regulations under which it was adopted for ninety (90) days from the effective date of these Regulations (the "Effective Date"). If the final plan is not recorded within ninety (90) days of the Effective Date, such subdivision or development project shall be subject to these Regulations as to procedure; but shall remain subject to the regulations under which it was adopted, as to substance, for one (1) year from the Effective Date.

C. Preliminary Approval Received

Any subdivision or development project which has received preliminary approval shall be subject to these Regulations as to procedure as of the Effective Date. However, such subdivision or development project shall be subject to the regulations under which it was adopted, as to substance, for one (1) year from the Effective Date. If final approval is not received within one (1) year of the Effective Date, such subdivision or development project shall be subject to these Regulations as to both substance and procedure.

D. Phased Approval Received

Notwithstanding subsections A, B, and C above, any subdivision or development project which has received final approval for multiple phases shall be subject to these Regulations as to procedure as of the Effective Date. However, each phase of the subdivision or development project shall be subject to the regulations under which it was adopted, as to substance, until such time as such phase was scheduled to be completed as set forth in the Planning Board decision. If no such time was specified, then it shall be for a period of three (3) years from the Effective Date.

E. Option

At the option of the applicant, any subdivision or development project which would otherwise be subject to prior regulations, for either substance or procedure, may be transferred to review under these Regulations.

9.6 SEVERABILITY

If any provision of these Regulations or of any rule, decision or determination made thereunder, or the application thereof to any person, agency or circumstances, is held invalid by a court of competent jurisdiction, the remainder of the Regulation, rule, decision, or determination and the application of such provisions to other persons, agencies, or circumstances shall not be affected thereby. The invalidity of any section or sections of these Regulations shall not affect the validity of the remainder of these Regulations.

9.7 EFFECTIVE DATE

These Regulations shall become effective upon passage by the Planning Board as of September 27, 1995, and as amended through March 14, 2024.

ARTICLE 10

DEFINITIONS

10.1 TERMS DEFINED

Where words or terms used in these Regulations are defined in the Zoning Ordinance, they shall have the meanings stated therein. In addition, the following words shall have the following meanings.

Administrative Officer. The municipal official(s) designated by the local regulations to administer the land development and subdivision regulations to review and approve qualified applications and/or coordinate with local boards and commissions, municipal staff, and state agencies as set forth herein. The administrative officer may be a member, or the chair, of the planning board, an employee of the municipal planning or zoning departments, or an appointed official of the municipality. See § 45-23-55.

Administrative Subdivision. Subdivision of existing lots that yields no additional lots for development, and involves no creation or extension of streets. This subdivision only involves division, mergers, mergers and division, or adjustments of boundaries of existing lots. The process by which an administrative officer or municipal planning board or commission reviews any subdivision qualifying for this review is set forth in § 45-23-37.

Aggrieved Party. An aggrieved party, for purposes of these Regulations, shall be:

- (a) Any person or persons or entity or entities who can demonstrate that their property will be injured by a decision of any officer or agency responsible for administering the Subdivision and Development Review Regulations of the Town; or,
- (b) Anyone requiring notice pursuant to these Regulations.

Applicant. Any person, firm, partnership, corporation or other legal entity holding title to real estate which is subject to these regulations and who applies to the Planning Board for a decision under these regulations.

Bioretention. A water quality practice that utilizes vegetation and soils to treat urban stormwater runoff by collecting it in shallow depressions, before filtering through an engineered bioretention planting soil media.

Board of Appeal. The local review authority for appeals of actions of the administrative officer, which shall be the local zoning board of review constituted as the board of appeal. See § 45-23-57.

Buildable lot. A lot where construction for the use(s) permitted on the site under the local zoning ordinance is considered practicable by the planning board, considering the physical constraints to development of the site as well as the requirements of the pertinent federal, state and local regulations.

Buffer. Land which is maintained in either a natural or landscaped state, and is used to screen and/or mitigate the impacts of development on surrounding areas, properties, or rights-of-way.

Certificate of completeness. A notice issued by the administrative officer informing an applicant that the application is complete and meets the requirements of the municipality's regulations and that the applicant may proceed with the review process.

Concept plan. A drawing with accompanying information showing the basic elements of a proposed land development plan or subdivision as used for pre-application meetings and early discussions, and classification of the project within the approval process.

Consistency with the comprehensive plan. A requirement of all local land use regulations which means that all such regulations and subsequent actions shall be in accordance with the public policies arrived at through detailed study and analysis and adopted by the Town as the Comprehensive Community Plan as specified in Section 45-22.2-3 of the Rhode Island General Laws.

Days. Calendar days.

Dedication, fee-in-lieu-of. Payments of cash which are authorized in these Regulations when requirements for mandatory dedication of land are not met because of physical conditions of the site or other reasons

Design Standards. Standards that set forth specific improvement requirements.

Design Storm. Precipitation event for which the capacity of a best management practice is sized and designed. Design storms are expressed in terms of Type III, 24-hour events (i.e., 1-year, 10-year, and 100-year storms).

Detention. The temporary storage of storm runoff in a BMP with the goals of controlling peak discharge rates.

Detention Structure. A structure constructed for the purpose of temporary storage of surface runoff and gradual release of stored water at controlled rates.

Development Plan Review (DPR).

Design or site plan review of a development of a permitted use. A municipality may utilize development plan review under limited circumstances to encourage development to comply with design and/or performance standards of the community under specific and objective guidelines, for developments including, but not limited to:

- (i) A change in use at the property where no extensive construction of improvements is sought;
- (ii) An adaptive reuse project located in a commercial zone where no extensive exterior construction of improvements is sought;
- (iii) An adaptive reuse project located in a residential zone which results in less than nine (9) residential units;
- (iv) Development in a designated urban or growth center;
- (v) Institutional development design review for educational or hospital facilities; or
- (vi) Development in a historic district.

Development Project. Collectively refers to Development Plan Review and Land Development Project.

Disturbed Area. An area in which the natural vegetative soil cover has been removed or altered and, therefore, is susceptible to erosion.

Division of land. A subdivision.

Drainage System. A system for the removal of water from land by drains, grading, or other appropriate means. These techniques may include runoff controls to minimize erosion and sedimentation during and

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after construction or development, the means for preserving surface and groundwater, and the prevention and/or alleviation of flooding.

Easement. A grant of one or more of the property rights by the owner to, or for the use by, the public or another person or entity.

Environmental constraints. Natural features, resources, or land characteristics that are sensitive to change and may require conservation measures or the application of special development techniques to prevent degradation of the site, or may require limited development, or in certain instances, may preclude development. See also “physical constraints to development”.

Erosion. 1. The wearing away of the land surface by running water, wind, ice, or other geological agents, including such processes as gravitational creep. 2. Detachment and movement of soil or rock fragments by water, wind, ice or gravity.

Erosion and Sediment Control (ESC). A device placed, constructed on, or applied to the landscape that prevents or curbs the detachment of soil, its movement, and/or deposition.

Final plan. The final stage of land development and subdivision review.

Final plat. The final drawings(s) of all or a portion of a subdivision to be recorded after approval by the Planning Board and any accompanying material as described in these Regulations and/or required by the Planning Board.

Flag lot. A lot not meeting minimum frontage requirements, with the bulk of the property lying to the rear of other lots, and where access to the public road is by a narrow strip of land.

Governing body. The body of the local government, generally the Town Council, having the power to adopt ordinances and accept public dedications.

Groundwater Recharge. The process by which water that seeps into the ground, eventually replenishing groundwater aquifers and surface waters such as lakes, streams, and the oceans. This process helps maintain water flow in streams and wetlands and preserves water table levels that support drinking water supplies.

Groundwater Recharge Volume (Re_v) - The post-development design recharge volume (i.e., on a storm event basis) required to minimize the loss of annual pre-development groundwater recharge. The Re_v is determined as a function of annual pre-development recharge for site-specific soils or surficial materials, average annual rainfall volume, and amount of impervious cover on a site.

Impervious Cover. Those surfaces that cannot effectively infiltrate rainfall consisting of surfaces such as building rooftops, pavement, sidewalks, driveways, compacted gravel (e.g., driveways and parking lots).

Improvement. Any natural or built item which becomes part of, is placed upon, or is affixed to, real estate.

Improvement guarantee. A security instrument accepted by the Town to ensure that all improvements, facilities, or work required by the land development and subdivision regulations, or required by the municipality as a condition of approval, will be completed in compliance with the approved plans and specifications of a development.

Infill. A development site that meets all of the following: the site is currently predominately pervious (less than 10,000 sf of existing impervious cover); it is surrounded (on at least three sides) by existing development (not including roadways); the site is served by a network of existing infrastructure and does not require the extension of utility lines or new public road construction to serve the property; and the site is one (1) acre or less where the existing land use is commercial, industrial, institutional, governmental, recreational, or multifamily residential.

Infiltration Practices. Stormwater treatment practices designed to capture stormwater runoff and infiltrate it into the ground over a period of days.

Infiltration Rate (f_c). The rate at which stormwater percolates into the subsoil measured in inches per hour.

Land Development Project (LDP). A project in which one or more lots, tracts, or parcels of land or a portion thereof are developed or redeveloped as a coordinated site for one or more uses, units, or structures, including but not limited to, planned development or cluster development for residential commercial, institutional, recreational, open space, or mixed uses.

Limit of Disturbance. Line delineating the boundary of the area to be disturbed during a development or redevelopment project. Area outside this boundary shall not be touched.

Low Impact Development (LID). Low impact development is a site planning and design strategy intended to maintain or replicate predevelopment hydrology through the use of site planning, source control, and small-scale practices integrated throughout the site to prevent, infiltrate and manage runoff as close to its source as possible.

Lot for development. A lot which is legally suitable for development not including any lot which is to be donated to the Town, the Rhode Island Department of Environmental Management, or any recognized conservation organization provided that such lot shall be conveyed with appropriate access and deed restrictions forbidding any development thereon.

Maintenance guarantee. Any security instrument which may be required and accepted by the Town to ensure that necessary improvements will function as required for a specific period of time.

Major land development plan. A land development project which exceeds the thresholds for a minor land development project as set forth in this section.

Major subdivision. A subdivision creating ten (10) or more buildable lots.

Master plan. An overall plan for a proposed project site outlining general, rather than detailed, development intentions. It describes the basic parameters of a major development proposal, rather than giving full engineering details. Required in major land development or major subdivision review only. It is the first formal review step of the major land development or major subdivision process and the step in the process in which the public hearing is held (see §45-23-39).

Minor land development project. A land development project involving any one of the following:

- H. Seven thousand five hundred (7,500) gross square feet of floor area of new commercial, manufacturing or industrial development; or less, or
- I. An expansion of up to fifty percent (50%) of existing floor area or up to ten thousand (10,000) square feet for commercial, manufacturing, or industrial structures; or
- J. Mixed-use development consisting of up to six (6) dwelling units and two thousand five hundred (2,500) gross square feet of commercial space or less.
- K. Multi-family residential or residential condominium development of nine (9) units or less.
- L. Change in use at the property where no extensive construction of improvements are sought.
- M. An adaptive reuse project of up to twenty-five thousand (25,000) square feet of gross floor area located in a commercial zone where no extensive exterior construction of improvements is sought.
- N. An adaptive reuse project located in a residential zone which results in less than nine (9) residential units.

Minor subdivision. A subdivision of land creating nine (9) or fewer buildable lots.

Modification of requirements. See Sections 6.8 and 8.7 of these regulations.

Parcel. A lot, or contiguous group of lots in single ownership or under single control and usually considered a unit for purposes of development. Also referred to as a tract.

Parking area or lot. All that portion of a development that is used by vehicles, the total area used for vehicular access, circulation, parking, loading and unloading.

Peak Discharge Rate. The maximum instantaneous rate of flow during a storm, usually in reference to a specific design storm event.

Performance guarantee. Any security instrument which may be required and accepted by the Town to ensure that necessary improvements are installed as required.

Phased development. Development, usually for large-scale projects, where construction of public and/or private improvements proceeds by section(s) subsequent to approval of a master plan for the entire site.

Physical constraints to development. Characteristics of a site or area, either natural or man-made, which present significant difficulties to construction of the uses permitted on that site, or would require extraordinary construction methods.

Planning Board. The official planning agency of the Town of Bristol.

Planned Development. A “land development project”, as defined herein, and developed according to plan as a single entity and containing one or more structures and/or use with appurtenant common areas.

Plat. A drawing or drawings of a land development or subdivision plan showing the location, boundaries, and lot lines of individual properties, as well as other necessary information as specified in the local regulations.

Pre-application conference. An initial meeting between developers and municipal representatives which affords developers the opportunity to present their proposals informally and to receive comments and directions from the municipal officials and others.

Preliminary plan. A required stage of land development and subdivision which generally requires engineered drawings. See § 45-23-39.

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Public improvement. Any street or other roadway, sidewalk, pedestrian way, tree, lawn, off-street parking area, drainage feature, or other facility for which the local government or other governmental entity either is presently responsible or will ultimately assume the responsibility for maintenance and operation upon municipal acceptance.

Public hearing. A meeting of the planning board preceded by a notice, open to the public, and at which the public shall be heard.

Redevelopment. Any construction, alteration, or improvement that disturbs a total of 10,000 square feet or more of existing impervious area where the existing land use is commercial, industrial, institutional, governmental, recreational, or multifamily residential. Building demolition is included as an activity defined as “redevelopment”, but building renovation is not. Similarly, removing of roadway materials down to the erodible soil surface is an activity defined as “redevelopment,” but simply resurfacing of a roadway surface is not. Pavement excavation and patching that is incidental to the primary project purpose, such as replacement of a collapsed storm drain, is not classified as redevelopment. In general, the requirements in this manual do not apply to projects or portions of projects when the total existing impervious area disturbed is less than 10,000 square feet. However, specific regulatory programs may impose additional requirements. Any creation of new impervious area over portions of the site that are currently pervious is required to comply fully with the requirements of this manual, with the exception of infill projects.

Retention. The amount of precipitation on a drainage area that does not escape as runoff. It is the difference between total precipitation and total runoff.

Runoff. the water from rain, snowmelt, or irrigation that flows over the land surface and is not absorbed into the ground, instead flowing into surface waters or land depressions.

Stormwater. Water consisting of precipitation runoff or snowmelt.

Storm water detention. A provision for storage of storm water runoff and the controlled release of such runoff during and after a flood or storm.

Storm water retention. A provision for storage of storm water runoff.

Street. A public or private thoroughfare used, or intended to be used, for passage or travel by motor vehicles. Streets are further classified by the functions they perform.

Street, access to. An adequate and permanent way of entering a lot. All lots of record shall have access to a public street for all vehicles normally associated with the uses permitted for that lot.

Street, alley. A public or private thoroughfare primarily designed to serve as secondary access to the side or rear of those properties whose principal frontage is on some other street.

Street, cul-de-sac. A local street with only one outlet and having an appropriate vehicular turnaround, either temporary or permanent, at the closed end.

Street, limited access highway. A freeway or expressway providing for through traffic. Owners or occupants of abutting property on lands and other persons have no legal right to access, except at such points and in such manner as may be determined by the public authority having jurisdiction over the highway.

Street, private. A thoroughfare established as a separate tract for the benefit of multiple, adjacent properties and meeting specific, municipal improvement standards. This definition shall not apply to driveways.

Street, public. All public property reserved or dedicated for street traffic.

Street, stub. A portion of a street reserved to provide access to future development, which may provide for utility connections.

Street classification. A method of roadway organization which identifies a street hierarchy according to function within a road system, that is, types of vehicles served and anticipated volumes, for the purposes of promoting safety, efficient land use and the design character of neighborhoods and districts. Local classifications shall use the following as major categories:

- (a) **Arterial.** A major street that serves as an avenue for the circulation of traffic into, out of, or around the municipality and carries high volumes of traffic.
- (b) **Collector.** A street whose principal function is to carry traffic between local streets and arterial streets but that may also provide direct access to abutting properties.
- (c) **Local.** Streets whose primary function is to provide access to abutting properties.

Subdivider. Any person who (1) having an interest in land, causes it, directly or indirectly, to be divided into a subdivision or who (2) directly or indirectly sells, leases, or develops, or offers to sell, lease, or develop, or advertises to sell, lease, or develop, any interest, lot, parcel, site, unit, or plat in a subdivision, or who (3) engages directly or through an agent in the business of selling, leasing, developing, or offering for sale, lease, or development a subdivision or any interest, lot, parcel, site, unit, or plat in a subdivision.

Subdivision. The division of a lot, tract or parcel of land into two or more lots, tracts, or parcels or any adjustment to existing lot lines is considered a subdivision.

Technical review committee (TRC). A committee appointed by the Planning Board for the purposes of: reviewing, commenting, and making recommendations to the Planning Board with respect to approval of land development and subdivision applications; and, conducting development plan reviews. See Section 7.4.

Temporary improvement. Improvements built and maintained by a developer during construction of a development project and prior to release of the improvement guarantee, but not intended to be permanent.

Vested rights. The right to initiate or continue the development of an approved project for a specified period of time, under the regulations that were in effect at the time of approval, even if, after the approval, the regulations change prior to the completion of the project.

Waiver of requirements. See Sections 6.8 and 8.7 of these regulations.

APPENDIX A**PREAPPLICATION CONFERENCE AND CONCEPT REVIEW***APPLICATION AND CHECKLIST FOR:*

Administrative Subdivision (Optional by Town or Applicant)

Minor Subdivision (Optional by Town or Applicant)

Major Subdivision and Land Development (Required)

Development Plan Review (Optional by Town or Applicant)

**APPLICATION FORM AND SUBMISSION CHECKLIST FOR
PREAPPLICATION CONFERENCE AND CONCEPT REVIEW**

Preapplication Conference - An initial meeting between developers and the Town which affords developers the opportunity to present their proposals informally and to receive comments and directions from the Town and other agencies.

Concept Plan - A drawing with accompanying information showing the basic elements of a proposed land development plan or subdivision as used for pre-application meeting and early discussions, and classification of the project within the approval process.

The following completed application form and Items A, B, and C from the attached checklist shall be submitted to the Administrative Officer for a meeting with the Technical Review Committee (TRC).

Date of Submission _____ TRC Meeting Date _____

APPLICATION FORM

1. Name, address, and telephone number of the property owner: _____

2. Name, address and telephone number of the applicant (If different from owner, a written, notarized confirmation from the property owner authorizing the applicant to make this submission shall also be submitted): _____

3. Assessor's plat and lot number(s): _____

4. Zoning district(s), including any special Town or State overlay districts (i.e. Historic District, CRMC Jurisdiction, etc.): _____

5. Area of the parcel: _____

6. Proposed number of buildable lots, dwellings or other proposed improvements: _____

7. Name and owner of existing streets or rights-of-way adjacent to the parcel:

A list showing the names and addresses of all abutting and adjacent property owners shall be attached to this application.

Signature of Owner/Applicant _____ Date _____

Notarized:

Subscribed and sworn to before me this _____ day of _____, 20__.

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**SUBMISSION CHECKLIST
PREAPPLICATION CONFERENCE AND CONCEPT REVIEW**

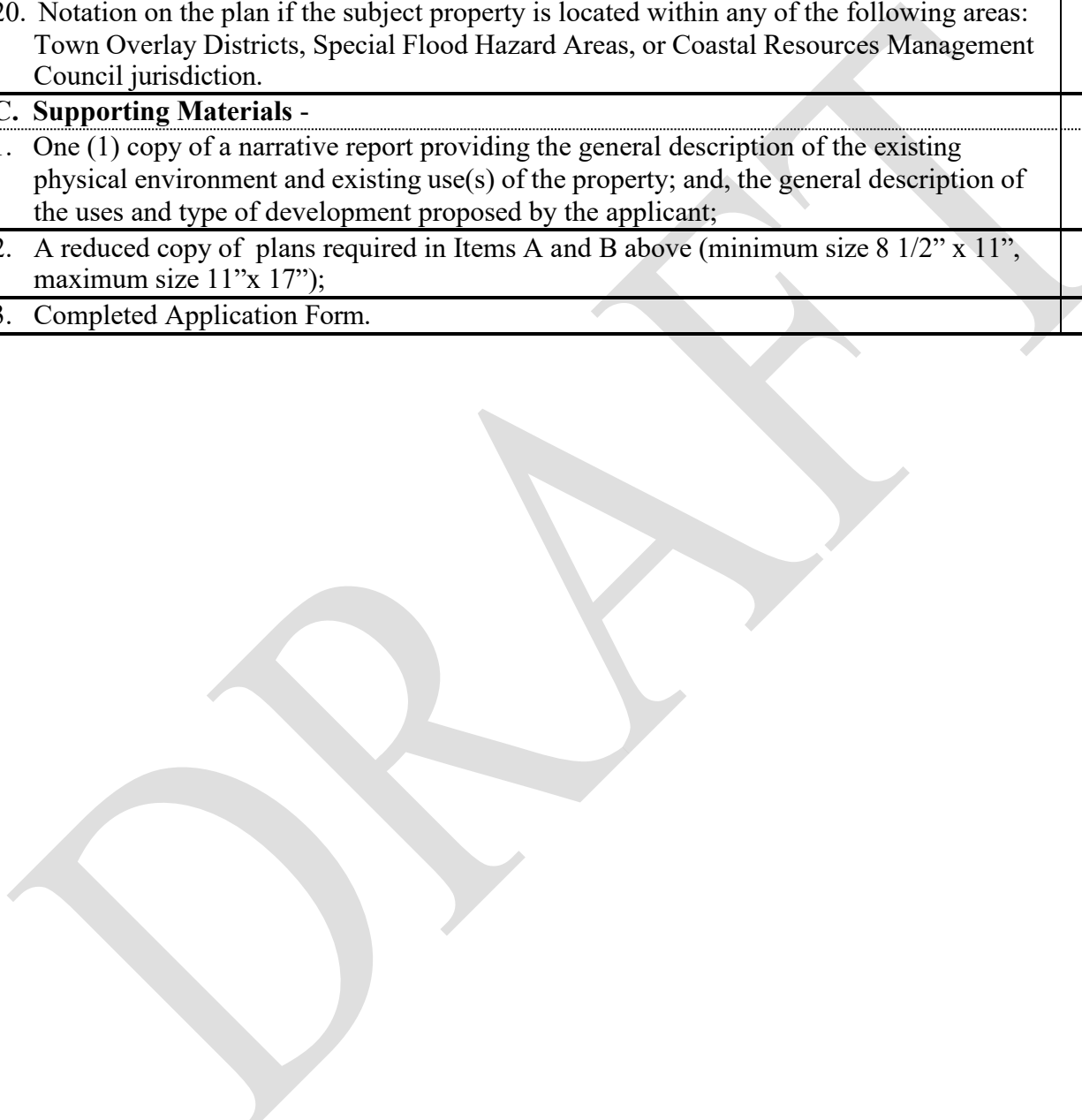
Date &
Initials of
Reviewer

A. Plan of Existing Conditions - Five (5) blueline or photocopies of the subject property no larger than 24" x 36" as it currently exists including locations and dimensions of existing lots if the proposed subdivision constitutes a replat or if the development consists of several lots and all natural features such as existing contours at five (5) foot intervals.	
B. Concept Plans - Five (5) blueline or photocopies no larger than 24" x 36" of the concept plan for the development showing, at a minimum, the following information:	
1. Name of proposed subdivision or development;	
2. Name and address of the property owner and applicant;	
3. Name, address, and telephone number of preparer;	
4. Date plan prepared, with revision date(s) (if any):	
5. Graphic scale and north arrow;	
6. Assessor's Plat and lot number(s) of the subject property;	
7. Zoning district(s) of the subject property. If more than one district, zoning boundary lines must be shown;	
8. Perimeter boundary lines of the entire tract under the applicant's ownership;	
9. Area of the subject property and proposed number of buildable lots, dwellings or other proposed improvements;	
10. Location, names, and pavement and right-of-way widths of existing streets adjacent to the subject property;	
11. Names of abutting property owners and property owners immediately across any adjacent streets;	
12. Location and dimension of existing easements and rights-of-way adjacent to or within the subject property, if any;	
13. Notation of existing ground cover and approximate location of wooded areas (if any);	
14. Approximate location of wetlands, watercourses or coastal features, and other significant natural or manmade features (i.e. stonewalls) within and immediately adjacent to the subdivision parcel, if any;	
15. Location and approximate size of existing buildings on or immediately adjacent to the subject property, if any; including, historic designation, if applicable;	
16. Proposed improvements including streets, lots, lot lines with approximate lot areas and dimensions and building envelopes;	
17. A notation of the existing on-site utilities (gas, water, sewer, electric), if any;	
18. Proposed connections with existing water supply and sanitary sewer systems, or a notation that wells and ISDS are proposed;	
19. Provisions for collecting and discharging stormwater;	

SUBMISSION CHECKLIST, CONT.

Date &
Initials of
Reviewer

20. Notation on the plan if the subject property is located within any of the following areas: Town Overlay Districts, Special Flood Hazard Areas, or Coastal Resources Management Council jurisdiction.	
C. Supporting Materials -	
1. One (1) copy of a narrative report providing the general description of the existing physical environment and existing use(s) of the property; and, the general description of the uses and type of development proposed by the applicant;	
2. A reduced copy of plans required in Items A and B above (minimum size 8 1/2" x 11", maximum size 11"x 17");	
3. Completed Application Form.	



APPENDIX B
ADMINISTRATIVE SUBDIVISION APPLICATION AND CHECKLIST

DRAFT

APPLICATION FORM AND SUBMISSION CHECKLIST FOR ADMINISTRATIVE SUBDIVISION

Administrative Subdivision - Re-subdivision of existing lots which yields no additional lots for development and involves no creation or extension of streets. Such re-subdivision shall only involve divisions, mergers, mergers and division, or adjustments of boundaries of existing lots.

The following completed application form and Items A, B, and C from the attached checklist shall be submitted to the Administrative Officer.

APPLICATION FORM

- 1. Name, address and telephone number of the property owner: _____

- 2. Name, address and telephone number of the applicant, if different from owner: (A written, notarized confirmation from property owner authorizing the applicant to make the submission shall also be submitted): _____

- 3. Assessor's plat and lot number(s) of the land being re-subdivided: _____
- 4. Zoning district(s) of the land being re-subdivided: _____
- 5. Flood Zone Designation: _____
- 6. A list showing the names and addresses of all abutting and adjacent property owners shall be attached to this application.

Signature of Owner/Applicant: _____ Date _____

Notarized:

Subscribed and sworn to before me this ___ day of _____, 20__.

NOTARY PUBLIC

**SUBMISSION CHECKLIST
ADMINISTRATIVE SUBDIVISION**

Date &
Initials of
Reviewer

NOTE: All plan sheets must include Title Block as well as items B 1-7 below.	
A. Plan of Existing Conditions - Five (5) 18" x 24" blueline or photocopies of a plan showing the entire tract under the applicant's ownership as it currently exists, including existing location and dimensions of lots, easements and rights-of-way and all natural and man-made features, if required;	
B. Subdivision Plans - Two (2) blueline copies of the re-subdivision plan shall be submitted (minimum size 8 1/2" x 11", maximum size 24" x 36"). Upon approval, one (1) reproducible mylar*, three (3) additional blueline copies, and one electronic AutoCAD file of all plans shall be submitted. Plan and survey standards shall meet the criteria set in the handbook entitled <u>Procedural and Technical Standards for the Practice of Land Surveying in the State of Rhode Island and Providence Plantations</u> , effective April 1, 1994, as amended. Measurement standards for surveys shall meet the minimum standards for Class I Surveys. The subdivision plans shall show the following:	
1. Name and address of property owner or applicant;	
2. Name, address, and telephone number of preparer;	
3. Assessor's Plat and Lot Numbers;	
4. Zoning District of the land; if more than one district, the zoning boundary must also be shown;	
5. Date of plan preparation, with revision date(s)(if any);	
6. Graphic scale (1"=40' or larger) and north arrow;	
7. Legend showing all symbols;	
8. Names of abutting property owners and property owners immediately across any adjacent streets;	
9. Existing property lines shown as dotted lines;	
10. Proposed property lines shown as solid lines;	
11. Existing and proposed areas of the parcels being re-subdivided, including dimensions of lot lines and angles of lots;	
12. Location of all existing and proposed monuments, if any (documentation that all proposed bounds have been set shall be provided prior to plan recording);	
13. Approximate location of wooded areas, surface waters, and wetlands (if any) and other natural features including a reference to the flood zone;	
14. Location, size and use of existing buildings, structures, and improvements with a notation of the historic designation, if applicable;	
15. Location of all existing utilities; including, but not limited to wells and individual sewage disposal systems which have been abandoned with a notation as such;	
16. Location, width and names of existing public and private streets within or immediately adjacent to the parcel being re-subdivided, including easements and rights-of-way (if any);	

SUBMISSION CHECKLIST, CONT.

	Date & Initials of Reviewer
17. Location Map;	
18. Certification (stamp and signature) of a Registered Land Surveyor that the plan is correct;	
19. A 2" x 4" space in the lower right corner for the Planning Board stamp and the signature of the Planning Board Chair or Designee.	
C. Additional Items:	
1. One (1) reduced copy of all plans required in Items A and B above, (minimum size 8 1/2" x 11", maximum size of 11" x 17");	
2. Application fee;	
3. Zoning Enforcement Officer Letter of Determination, that the proposed re-subdivision will not create any nonconformities;	
4. Certificate from the Tax Collector showing that all property taxes, sewer assessments and sewer use fees due on the land are current;	
5. A copy of all deed restrictions and covenants applicable to the property being re-subdivided, if any;	
6. A copy of the most recent deed or attorney's certificate certifying title including any and all restrictions or other liens or encumbrances on said property;	
7. Completed Application Form.	

* Mylar plans shall be on polyester film, single matte with a thickness of 3 mils (.003 inches), and must have an opacity so as to allow consistent computer scanning. All plans shall be prepared using a compatible ink with excellent cohesiveness which will produce a permanent bond and result in a plan with long term durability. All signatures must be in black India ink or its equal.

APPENDIX C
MINOR SUBDIVISION APPLICATION AND CHECKLIST

DRAFT

**APPLICATION FORM AND SUBMISSION CHECKLIST FOR
MINOR SUBDIVISIONS AND MINOR LAND DEVELOPMENTS**

The following completed application form together with the appropriate materials for either a preliminary or a final application, as indicated on the attached checklist, shall be submitted to the Administrative Officer.

APPLICATION FORM

Type of Application: Preliminary _____ Final: _____

- 1. Name of proposed subdivision/land development: _____
- 2. Name, address and telephone number of property owner: _____

- 3. Name, address of applicant, if different from owner: (A written, notarized confirmation from property owner authorizing the applicant to make the submission shall also be submitted): _____

- 4. Plat and lot number(s) of the parcel being subdivided/developed: _____
- 5. Area of the subdivision/development parcel(s): _____
- 6. Zoning District(s), including any special Town or State overlay districts (i.e. Historic District, CRMC Jurisdiction, etc): _____

Signed by Owner/Applicant: _____ Date _____

Notarized:

Subscribed and sworn to before me this _____ day of _____, 20__.

NOTARY PUBLIC

MINOR SUBDIVISION OR LAND DEVELOPMENT APPLICATION AND CHECKLIST

Name of proposed subdivision/development: _____

Applicant Name and Address: _____

Phone Number: _____

Email: _____

Date of Application: _____

Plat and Lot Number(s) of the land being subdivided/developed: _____

Date Received / Initials

A COPY OF ALL PLANS AND SUPPORTING DOCUMENTS SHALL BE SUBMITTED IN DIGITAL FORM (PDF). APPLICATIONS WILL NOT BE CONSIDERED SUBMITTED FOR REVIEW OF COMPLETENESS UNTIL BOTH DIGITAL AND PAPER SUBMISSIONS ARE RECEIVED.

INSTRUCTIONS

Five (5) Copies of the application package including all plans and supporting documents shall be provided along with a Digital Form (PDF) of the entire application package. Each sheet shall be a minimum size of 8 1/2x 11" and a maximum of 24" x 36" and at a scale of 1"=40' with a sufficient number of sheets to clearly show all of the information required. Upon final approval one reproducible mylar, three (3) copies, and one electronic AutoCAD file of all plans shall be submitted. A reduced copy (11x17) shall be submitted for each plan.

All plans required by this checklist shall show the following information (as applicable). The shaded boxes within the checklist indicate an item is **not** required at a particular stage of review. If any checklist items are marked as not applicable (NA) please provide an explanation as to why the item is not applicable in the space provided at the end of the checklist. A separate sheet may be attached.

For the LOCATION column please provide the location of the specific checklist item. This can be a plan sheet number or the name of the supporting document and page. All revisions in response to comments shall include a written statement indicating the response.

Review Codes are for administrative use only and are to be entered by the Administrative Officer.

Please check the applicable stage of review for the submission

Project Type:	<input type="checkbox"/> Minor Subdivision	Stage of Review:	<input type="checkbox"/> Preliminary Plan (PR)
	<input type="checkbox"/> Minor Land Development		<input type="checkbox"/> Final Plan (F)

A. FORMS AND DOCUMENTS

A	PR	F	REQUIRED FORMS AND DOCUMENTS	REVIEW CODE
1.			Project Review Application Checklist	
2.			A notarized letter from the property owner(s) stating that the applicant has been granted the authority to proceed with the application with the owner(s) permission and consent	
3.			Proposal Narrative	
4.			Completed Application Checklist	

B. GENERAL INFORMATION (to be provided on all plan sheets)

B	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			Title Block with Name of the proposed project, Plat and Lot Numbers of the subject property, Address of the subject property, Name and Address of the Owner/Applicant Name of the proposed subdivision/land development project		
2.			Name, address, phone, and stamp(s) of the RI Registered Engineer and/or RI Registered Land Surveyor responsible for the plans		
3.			Date of plan preparation and all revision date(s), if any		
4.			True north arrow and graphic scale		
5.			Plan legend (all items displayed on site plans shall be symbolized in a legend)		
6.			Relevant references to deeds and recorded plans		
7.			List of sheets contained within the plan set		
8.			Notation of any permits and/or agreements obtained from or made with State and Federal agencies, including permit number if applicable		
9.			Names, addresses and Plat/Lot identified of abutting and adjacent property owners		
10.			Names and addresses of adjoining communities or agencies requiring notification under these regulations		

C. EXISTING CONDITIONS PLAN(S) – Show the entire tract of the subject property and all lots owned by the owner/applicant as it currently exists

C	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			A general location map showing the relationship of the parcel to the area within a half-mile radius, provide an aerial photograph or satellite image clearly depicting the subject parcel		
2.			Certification by a RI Registered Land Surveyor that a perimeter survey of the land being developed has been performed and meets a Class I standard for property lines and a Class III standard for topographic and existing conditions information		
3.			Zoning District Dimensional Regulations of the subject parcel		
4.			Density calculations based upon the exclusion of unsuitable land from the total land area of the subject parcel, include the total		

C	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
			acreage, the acreage of unsuitable land and the resulting total number of units allowed by right		
5.			Dimensions and total area of the subject parcel, and location and dimensions of existing property lines, type of easements and rights-of-way within or adjacent to the subject parcel		
6.			Existing contours at intervals at a minimum of two (2) feet		
7.			Base flood elevation data; use the North American Vertical Datum of 1988 (NAVD 88)		
8.			Boundaries and notation of the soil types classifications for the entire area of the subdivision parcel(s)		
9.			Location of soil contaminants present on the subject parcel, if any		
10.			Location of Phase III Remediation Plan area, if required by RIDEM		
11.			Location of wetlands, watercourses or coastal features within and adjacent to the parcel(s), including buffer areas as defined by RIDEM for wetlands		
12.			If no wetlands or coastal features are depicted within the plan set, an affidavit signed by a qualified professional stating that there are no freshwater wetlands and/or buffer areas within the subdivision/development parcel(s)		
13.			Notation of existing ground cover with approximate location of wooded areas and areas of active agricultural use including the location of any trees over 10" caliper.		
14.			Identification of areas containing prime agricultural soils and farmland soils of statewide importance, or if no such soils are present on the site, a notation indicating such		
15.			Determination if the proposed development or subdivision lies within any area designated by the town or state for purposes of environmental protection or natural or cultural resource protection, such as: <ul style="list-style-type: none"> a. Natural Heritage Areas, as defined by RIDEM b. The area(s) under the jurisdiction of any Special Area Management Plan (SAMP) of RI CRMC c. A Groundwater Protection Overlay District d. Wellhead Protection Area e. Groundwater Recharge Area f. Areas within a TMDL watershed, as identified by RIDEM g. National Register of Historic Places h. Bristol Local Historic District i. OWTS Critical Resource Area, as defined by RIDEM j. A Drinking Water Supply Watershed, as defined by RIDEM k. Silver Creek Watershed in Town of Bristol l. Tanyard Brook Watershed in Town of Bristol 		
16.			Location of known existing easements and rights-of-way within or adjacent to the subdivision/development parcel(s), including streets, driveways, farm roads, woods roads, and/or trails that have been in public use		
17.			Location, width, classification, and names of existing public, private, and paper streets within and adjacent to the subdivision/development parcel(s)		

C	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
18.			Location, size, and use/type of all existing buildings or significant above-ground structures, including stone walls, on the subdivision/development parcel(s)		
19.			Location and size of existing buildings or significant above-ground structures on parcels immediately adjacent to the subdivision/development parcel(s)		
20.			Location, size, and type of all known, existing above and below ground utilities, including sewer, OWTS, wells, water, gas, electric, stormwater drainage and communications or telecommunications infrastructure, as may be present on the site or within the right of way along the property frontage		
21.			Location of any unique and/or historic features within or adjacent to the subdivision/development parcel(s), including stone walls, historic cemeteries and access, or, if none, a notation indicating such		
22.			Accurate location of any unique natural features present on the site, including but not limited to significant specimen trees, or if none, a notation indicating such		
23.			Relevant references to deeds and recorded plans		

D. PROPOSED CONDITIONS PLAN(S) Show all items on existing conditions plan as well as the following:

D	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			Location, size, and use/type of proposed buildings and structures, including proposed number of residential units per building, if applicable, and include all accessory structures and total lot coverage		
2.			Proposed buildings and other site improvements for a commercial or industrial development, include building setback lines and lot coverage		
3.			Proposed lots with lot numbers, with dimensions and areas indicated, include all interior lot lines, building setback lines and street lines with dimensions indicated and drawn so as to distinguish them from existing lot lines		
4.			Zoning Data Table to show the existing zoning requirements and proposed conditions		
5.			Boundaries and total area of any land classified as “unsuitable for development” as defined in the Regulations		
6.			Proposed connection with existing public water supply and sewer system or on-site wells and sewage disposal		
7.			If proposed, plan and profile design information for any extension of public or private utility infrastructure		
8.			Measures to minimize impacts to the natural topography of the site using the Low Impact Development (LID) Site Planning & Design Guidance Manual		
9.			Any proposed on- and /or off-site improvements including streets, access drives, loading areas, parking areas, sidewalks, and bicycle paths, include profiles and typical cross-sections		
10.			Proposed location, size, and type of all above ground and underground utilities servicing the property, including wastewater, water, gas, electric, stormwater drainage and communications or		

D	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
			telecommunications infrastructure, as may be required for site development		
11.			If future development is to be serviced by an On-Site Wastewater Treatment System(s), soil evaluations in the relative location where each system is proposed, which have been performed by a licensed RI soil evaluator and witnessed by RIDEM		
12.			Location and dimensions of proposed easements and rights-of-way within the development parcel(s), or those to be acquired adjacent to the development parcel(s) as maybe necessary		
13.			Location, dimension, monumentation, and proposed use of any area(s) proposed to be set aside as open space, or drainage or conveyed to the Town for public purposes, if any		
14.			Proposed phasing, including depiction of which structures and on- and off-site improvements are to be installed in which phase, if applicable		
15.			Limits of disturbance/work relative to on-and off-site improvements and infrastructure installation		
16.			Grading plan(s) to show contours at sufficient detail (2-foot intervals) for all on and off-site street construction, drainage facilities, and individual house lots, certified by a RI registered Professional Engineer for final plans		
17.			Stormwater management plan(s), to show accurate designs and details of proposed stormwater management and water quality infrastructure, including type, location, drainage calculations, extension of existing lines, and configuration, and operations and management plan prepared by a Registered Professional Engineer		
18.			Landscape plan(s), maintenance plan and tree preservation plan, to show all significant proposed clearing of land, removal of existing vegetation, re-vegetation, landscaping on street rights-of-way, and within common areas, and landscape installation details and related notations, signed by a licensed Landscape Architect for final plans		
19.			Location of proposed permanent bounds (document that all proposed bounds have been set shall be provided prior to plan recording)		
20.			Any revisions to the proposed conditions required by the Preliminary Plan approval		
21.			Certification by a RI Registered Land Surveyor that a survey of all perimeter lot lines and interior lot lines and street lines of the land being developed has been performed and meets a Class I standard for property lines and a Class III standard for topographic and existing conditions information		
22.			Certification by a RI Registered Professional Engineer that the Proposed Conditions Plan is correct		
23.			Notation of any special conditions/documents received as required by the Preliminary Plan approval		

E. PROJECTS WITH STREETS/ROADWAYS

If your project proposes to extend or create a roadway, please complete this section. If your project does not propose to extend or create a roadway, you may skip this section.

E	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			Street plans (minimum scale of 1"=40' horizontal with profiles (minimum 1"=4' vertical) indicating the street center line, curblines, and the existing elevations of the ground at the street center line, location and size of proposed sewer lines, water lines and other underground utilities; and, street cross sections showing width of right-of-way, roadway; and, sidewalks. Plan must include street names and hydrant locations approved by the Fire Chief. Plan must include proposed street light locations.		
2.			Street typical cross-sections and paved (impervious) areas such as parking and loading areas, curb cuts, including all pedestrian facilities.		
3.			Stormwater management plan(s), and drainage calculations to show accurate designs and details of proposed stormwater management and water quality infrastructure, including type, location, drainage calculations, extension of existing lines, and configuration, including an operations and management plan prepared by a Registered Professional Engineer		
4.			Landscape plan(s), maintenance plan and tree preservation plan, to show all significant proposed clearing of land, removal of existing vegetation, re-vegetation, landscaping on street rights-of-way, and within common areas, and landscape installation details and related notations, signed by a licensed Landscape Architect in accordance with Appendix F		
5.			Construction Cost Estimate for all improvements		
6.			Soil Erosion and Sediment Control Plan		
7.			If any Streets, Areas or Facilities are to be dedicated to the Town of Bristol, the Final Plan shall include a Statement that such dedication shall not impose any duty or responsibility upon the Town of Bristol to maintain or improve any dedicated streets, areas or facilities until specifically authorized by the Town Council Per Section 6.7 of these regulations.		

F. SUPPORTING MATERIALS

F	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			Renderings, elevations or photographs as may be requested to illustrate the visual impact of the proposal for subdivision/development		
2.			Copies of an aerial photograph or satellite image vicinity map drawn to a measurable scale as necessary to show the relationship of the subject parcel(s) to the area within a half-mile radius, identifying the locations of all streets, zoning district boundaries, schools, parks, fire stations, and other significant public facilities		
3.			A written statement indicating any proposed zoning relief or waivers or modifications from the regulations, if any		
4.			Determination letter from the Zoning Official on the requested zoning waivers or modifications		
5.			Copy of the Deed/Title to the subject parcel		
6.			Copies of any RIDEM stormwater or other general construction permits that are required, or an affidavit, signed by a qualified professional stating that no RIDEM stormwater or construction permits are required.		
7.			Written report of Phase I Environmental Site Assessment, if any		
8.			Phase II Environmental Site Assessment, written report if indicated, if any		
9.			For subdivisions/developments proposing service by OWTS(s), copies of an On-Site Wastewater Treatment System permit issued by RIDEM confirming soil suitability or OWTS permits for individual lots.		
10.			Written report and approval from RIDEM of an Environmental Site Assessment Phase III (Remediation Plan) if required		
11.			Copies of a narrative report or written statement including: <ul style="list-style-type: none"> a. A general description of the existing physical environment and existing use(s) of the property; b. A general description of the use(s) and type(s) of subdivision/development proposed; c. A general statement and supporting maps and/or graphics that illustrates the approach utilized in designing the proposed subdivision/development, including consideration of existing conditions and significant site features; d. An estimate of the approximate population of the proposed subdivision/development, if any; e. An estimate of the number of school-aged children to be housed in the proposed subdivision/development, if any. f. A general analysis of soil types and suitability for the subdivision/development proposed; 		

F	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
			proposed to be dedicated to the Town for open space purposes, if any, in a form acceptable to the Administrative Officer and reflective of any conditions of the Preliminary Plan approval		
21.			Copies of an estimate of the cost of installation of all on- and off-site improvements, including landscaping, prepared by a Registered Professional Engineer		
22.			Written approval (assent agreement) from the RI Coastal Resources Management Council of the proposed development or subdivision if the subject parcel has coastal shoreline, including any required off-site construction		
23.			For subdivisions/developments with freshwater wetlands present on the parcel(s), copies of either: <ul style="list-style-type: none"> a. An RIDEM wetlands permit, if required pursuant to RIDEM rules and regulations; or b. A letter of non-jurisdiction from RIDEM 		
24.			For subdivisions/developments proposing service by public water, copies of a written statement from the Bristol County Water Authority that the proposed plan, with plan revision date indicated, has been reviewed and which provides: <ul style="list-style-type: none"> a. Confirmation that water service is available; b. Approval of connection to the existing water main as depicted on the plan; and, If extension is proposed, approval from the company or district of the extension of the water main as depicted on the plan		
25.			For subdivisions/developments proposing service by public sewer, copies of a written statement from the Bristol Water Pollution Control Department that the proposed plan, with plan revision date indicated, has been reviewed and which provides: <ul style="list-style-type: none"> a. Confirmation that sewer service is available; b. Approval of connection to the existing sewer main as depicted on the plan; and If extension is proposed, approval of extension of the sewer main as depicted on the plan		
26.			For subdivisions/developments proposing new physical access to a State right-of-way a letter evidencing the issuance of such a permit upon the submission of a bond and insurance ¹		
27.			Traffic study performed by a RI Licensed Engineer (as applicable), if required		
28.			Location, type, intensity and direction of illumination of all outdoor lighting fixtures.		
29.			Signage including location, size, design and illumination.		
30.			Proposed residential density and square footage of non residential use. Floor plans to scale for each building including the use of floor space, number of units, number of bedrooms and square footage of each unit and building elevations showing exterior building design, materials, colors and height (for land developments and adaptive re-use)		

F	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
31.			Plans for trash and recycling, and transformer locations (for land developments)		
32.			Low Impact Development (LID) Site Planning and Design Strategies and Checklist from the RI Stormwater Design and Installation Standards Manual. Stormwater designs to meet RI Stormwater Manual Minimum Standards.		
33.			A plan with new street address numbers and new assessor's plat and lot numbers signed by the Tax Assessor.		

G. FEES

G	PR	F		Received?
1.			Application Fee	
2.			Engineering Review Fee	
3.			Advertising Reimbursement Fee (if applicable)	
4.			Final Plat Recording and Mapping Fees	
5.			Performance Guarantee (if applicable)	
6.			Engineering Inspection Fee	
7.			Maintenance Guarantee (if applicable)	
8.			Receipt that all other fees to outside agencies have been paid (if applicable)	

Applicant Comments on Required Items: (attach separate sheet if needed)
Reviewer Comments on Required Items:

Signature of Applicant: _____

Signature of Professional Land Surveyor /Engineer: _____ Registration No. _____

Signature of Professional Land Surveyor /Engineer: _____ Registration No. _____

Signature of Reviewer: _____ Date of Review: _____

DRAFT

APPENDIX D
MAJOR SUBDIVISION AND MAJOR LAND DEVELOPMENT
APPLICATION AND CHECKLIST

DRAFT

APPLICATION FORM AND SUBMISSION CHECKLIST FOR MAJOR LAND DEVELOPMENTS AND MAJOR SUBDIVISIONS

The completed application form together with the appropriate materials as indicated on the checklist shall be submitted to the Administrative Officer.

APPLICATION FORM

Type of Application: Please check one:

- Master Plan**
- Preliminary**
- Final**

1. Name of proposed subdivision/development: _____
2. Name, address and telephone number of property owner (if the owner of record is a corporation, the name and address of the president and secretary): _____

3. Name and address and telephone number of applicant, if different from owner: (A written, notarized confirmation from property owner authorizing the applicant to make the submission shall also be submitted): _____

4. Plat and lot number(s) of the parcel being subdivided/developed: _____
5. Area of the subdivision/development parcel(s): _____
6. Zoning District: _____

Signed by Owner/Applicant: _____ Date _____

Notarized:

Subscribed and sworn to before me this _____ day of _____, 20__.

NOTARY PUBLIC

MAJOR SUBDIVISION OR MAJOR LAND DEVELOPMENT CHECKLIST

Name of proposed subdivision/development: _____

Applicant Name and Address: _____

Phone Number: _____

Email: _____

Date of Application: _____

Plat and Lot Number(s) of the land being subdivided/developed: _____

<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Date Received / Initials
--

A COPY OF ALL PLANS AND SUPPORTING DOCUMENTS SHALL BE SUBMITTED IN DIGITAL FORM (PDF). APPLICATIONS WILL NOT BE CONSIDERED SUBMITTED FOR REVIEW OF COMPLETENESS UNTIL BOTH DIGITAL AND PAPER SUBMISSIONS ARE RECEIVED.

INSTRUCTIONS

Five Copies of the application package including all plans and supporting documents shall be provided along with a Digital Form (PDF) of the entire application package. Each plan sheet shall be a minimum size of 8 1/2x 11” and a maximum of 24” x 36” and at a scale of 1”=40’ with a sufficient number of sheets to clearly show all of the information required. Upon final approval one reproducible mylar, three (3) paper copies, and one electronic AutoCAD file of all plans shall be submitted. A reduced copy (11x17) shall also be provided for each plan.

All plans required by this checklist shall show the following information (as applicable). The shaded boxes within the checklist indicate an item is **not** required at a particular stage of review. If any checklist items are marked as not applicable (NA) please provide an explanation as to why the item is not applicable in the space provided at the end of the checklist, attached additional sheets as needed.

For items required at the pre-application and master plan stage of review, conceptual design and approximate locations of required checklist items is acceptable. For items required at the preliminary and final stage of review, engineered design and proposed final locations of required checklist items shall be provided, with certification by registered Professional Engineer where required. The Administrative Officer can provide further guidance on specific checklist items.

For the LOCATION column please provide the location of the specific checklist item. This can be a plan sheet number or the name of the supporting document and page. All revisions in response to comments shall include a written statement with reply.

Review Codes are for administrative use only and are to be entered by the Administrative Officer.

Please check the applicable stage of review for the submission

Project Type: <input type="checkbox"/> Major Subdivision <input type="checkbox"/> Major Land Development	Stage of Review: <input type="checkbox"/> Master Plan (M) <input type="checkbox"/> Preliminary Plan (PR) <input type="checkbox"/> Final Plan (F)
---	--

A. FORMS AND DOCUMENTS

A	M	PR	F	REQUIRED FORMS AND DOCUMENTS	REVIEW CODE
1.				Completed Application Form	
2.				A notarized letter from the property owner(s) stating that the applicant has been granted the authority to proceed with the application with the owner(s) permission and consent	
3.				Narrative describing the application	
4.				Completed Project Review Application Checklist	

B. GENERAL INFORMATION (to be provided on plan sheets)

B	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.				Title Block with Name of the proposed project, Plat and Lot numbers of the subject property, address of the subject property, name and address of owner/applicant		
2.				Name, address, phone, and stamp(s) of the RI Registered Engineer and/or RI Registered Land Surveyor responsible for the plans		
3.				Date of plan preparation and all revision date(s), if any		
4.				True north arrow and graphic scale		
5.				Site plan legend (all items displayed on site plans shall be symbolized in a legend)		
6.				Relevant references to deeds and recorded plans		
7.				List of sheets contained within the plan set		
8.				Notation of any permits and/or agreements obtained from or made with State and Federal agencies, including permit number if applicable		
9.				Names, addresses and Plat/Lot identified of abutting property owners and property within 200' of the parcel(s)		
10.				Names and address of any agencies or adjacent communities requiring notification under these regulations		

C. EXISTING CONDITIONS PLAN(S) Show the entire tract of the subject property and all lots owned by the owner/applicant as it currently exists

C	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.				A general location map showing the relationship of the subdivision/development parcel(s) of the area within a half-mile radius		
2.				Certification by a RI Registered Land Surveyor that a perimeter study of the land being developed has been performed and meets a Class I standard for property lines and a Class III standard for topographic and existing conditions information		
3.				Location of known existing easements and rights-of-way within or adjacent to the subdivision/development parcel(s)		

C	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
4.				Location of any existing street, driveways, farm roads, woods roads, and/or trails that have been in public use (pedestrian, equestrian, bicycle, etc.) within and adjacent to the subdivision/development parcel(s)		
5.				Zoning district(s) of the land being subdivided/developed, with zoning boundary lines shown if there is more than one district		
6.				Density calculations based upon the exclusion of unsuitable land from the total land area of the subdivision/development parcel(s), include the total acreage, the acreage of unsuitable land and the resulting total number of units allowed by right		
7.				Dimensions and total area of the subdivision/development parcel(s), and location and dimensions of existing property lines, type of easements and rights-of-way within or adjacent to the subdivision/development parcel(s)		
8.				Existing contours at intervals at a minimum of two (2) feet		
9.				Base flood elevation data; use the North American Vertical Datum of 1988 (NAVD 88)		
10.				Boundaries and notation of the soil types classifications for the entire area of the subdivision parcel(s) Identification of areas containing prime agricultural soils and farmland soils of statewide importance, or if no such soils are present on the site, a notation indicating such		
11.				Location of soil contaminants present on the subject parcel, if any		
12.				Identification of any geologic formations on the proposed parcel(s), including rock outcroppings, cliffs, coastal features, etc.		
13.				Location of wetlands, watercourses or coastal features within and adjacent to the parcel(s), including buffer areas as defined by RIDEM for wetlands		
14.				Location of wooded areas and areas of active agricultural use		
15.				Boundaries of applicable watersheds for the parcel(s)		
16.				Location, size, and use/type of all existing buildings or significant above-ground structures, including stone walls		
17.				Location and size of existing buildings or significant above-ground structures, including stone walls, on parcels immediately adjacent to the subdivision/development parcel(s)		
18.				Location, size, and type of all known, existing above and below ground utilities, including sewer, water, gas, electric, stormwater drainage and communications or telecommunications infrastructure, as may be present on the site or within the right of way along the property frontage		

C	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
19.				Location of any significant natural or cultural features, include historic cemeteries and access, within or adjacent to the parcel(s)		
20.				<p>Notation indicating that the subdivision/development parcel(s) (or existing structures) are located or not located within the following areas of special concern:</p> <ul style="list-style-type: none"> a. Natural Heritage Areas, as defined by RIDEM b. The area(s) under the jurisdiction of any Special Area Management Plan (SAMP) of RI CRMC c. A Groundwater Protection Overlay District d. A Wellhead Protection Area e. Groundwater Recharge Area f. Areas within a TMDL watershed, as identified by RIDEM g. A Drinking Water Supply Watershed, as defined by RIDEM h. OWTS Critical Resource Area, as defined by RIDEM i. National Register of Historic Places j. Bristol Historic District k. Tanyard Brook Watershed in Bristol l. Silver Creek Watershed in Bristol 		
21.				Location and size of trees with a caliper of ten (10) inches or greater that are within the area proposed for disturbance or alteration		

D. PROPOSED CONDITIONS PLAN(S) Show all items on Existing Conditions Plan as well as the following:

D	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.				Boundaries and total area of any land classified as “unsuitable for development” as defined in the Regulations		
2.				Proposed number of buildable lots		
3.				Proposed easements and rights-of-way within the subdivision parcel(s)		
4.				Proposed lot lines, with accurate dimensions and lot areas and lot numbers, drawn so as to distinguish them from existing property lines		
5.				Proposed structures and all accessory structures with dimensions or area indicated and total lot coverage, including proposed number of residential units per building, if applicable		
6.				Zoning District Dimensional Regulations of the subdivision/development parcel(s) and a Zoning Data table with the required zoning dimensions and those for the proposed project		
7.				Proposed structure(s) and other site improvements with dimensions or area indicated for a multi-family, commercial or industrial subdivision/development and total lot coverage		
8.				Proposed streets, if any, with accurate areas and dimensions		

D	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
9.				Any proposed on- and/or off-site improvements including streets, access drives, loading areas, parking areas, sidewalks, pedestrian areas, and bicycle parking and/or paths		
10.				Traffic plan; include vehicular access sites showing the dimensions and location of roads, driveways, curb cuts, radii, parking as well as other off-site traffic improvements		
11.				Designated trash collection and recycling collection area(s)		
12.				Certification by a RI Registered Land Surveyor that a perimeter study of the land being developed has been performed and meets a Class I standard for property lines and a Class III standard for topographic and existing conditions information		
13.				Location and dimensions of proposed easements and rights-of-way within the subdivision/development parcel(s), or those to be acquired adjacent to the subdivision/development parcel(s) as maybe necessary		
14.				Proposed location, size, and type of all above ground and underground utilities servicing the property, including wastewater, water, gas, electric, transformers, stormwater drainage, hydrants, and communications or telecommunications infrastructure, as may be required for site development		
15.				Proposals, if any, for connection with existing sanitary sewer systems, or a notation that OWTS is proposed		
16.				The locations and design details of any OWTS proposed for use within the subdivision/development, if any		
17.				If future subdivision/development is to be serviced by an OWTS, soil evaluations in the relative location where each system is proposed, which have been performed by a licensed RI soil evaluator and witnessed by RIDEM		
18.				Proposals, if any, for connection with existing water supply systems, or if future subdivision/development is to be serviced by on-site wells, notation of such		
19.				Concept designs for stormwater management and water quality infrastructure		
20.				Designs of proposed stormwater management infrastructure, including type, location, and configuration, prepared by a Registered Professional Engineer for preliminary and final plans		
21.				Proposed phasing, including depiction of which structures and on- and off-site improvements are to be installed in which phase, if applicable		
22.				Location, dimensions, types, and area of any land proposed to be set aside as open space or to be conveyed to the Town for public purposes		
23.				Locations and types of proposed survey and open space monumentation, if any. (Documentation that all proposed bounds have been set shall be provided prior to recording final plan)		
24.				Limits of disturbance/work relative to on-and off-site improvements and infrastructure installation		

D	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
25.				Proposed grading plan(s) to show contours at sufficient detail (2-foot intervals) for all on and off-site street construction, drainage facilities, and individual house lots, stamped by a licensed Professional Engineer for final plans		
26.				Landscape plan(s), by a Landscape Architect, to show all significant proposed clearing of land, removal of existing vegetation, re-vegetation, landscaping on street rights-of-way, and within common areas, and landscape installation details and related notations, in accordance with Appendix F		
27.				Notation of any special conditions as required by the Preliminary Plan approval		
28.				Proposed measures to minimize impacts to the natural topography of the site using the Low Impact subdivision (LID) Site Planning & Design Guidance Manual		
29.				Final construction plans including plans and any additional improvements as required as a condition of preliminary plan		
30.				For phased projects, as-built drawings for the previous phase		
31.						
32.						

E. SUPPORTING MATERIALS

E	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.				Copies of an aerial photograph or satellite image vicinity map drawn to a measurable scale as necessary to show the relationship of the subdivision/development parcel(s) to the area within a half-mile radius, identifying the locations of all streets, zoning district boundaries, schools, parks, fire stations, and other significant public facilities		
2.				Renderings, elevations or photographs as may be needed to illustrate the visual impact of a proposed multi-family, commercial or industrial subdivision/development		
3.				A narrative report or written statement including: <ul style="list-style-type: none"> a. A general description of the existing physical environment and existing use(s) of the property; b. A general description of the use(s) and type(s) of subdivision/development proposed; c. A general statement and supporting maps and/or graphics that illustrates the approach utilized in designing the proposed subdivision/development, including consideration of existing conditions and significant site features; d. An estimate of the approximate population of the proposed subdivision/development, if any e. An estimate of the number of school-aged children to be housed in the proposed subdivision/development, if any. 		

E	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
				<ul style="list-style-type: none"> f. A general analysis of soil types and suitability for the development proposed; g. A general viewshed analysis, showing the location and extent of significant views both from and within the proposed subdivision/development parcel(s), as well as anticipated views into the property from adjacent public or private streets and properties; h. A statement of the potential fiscal impacts of the subdivision/development on the Town of Bristol expenses and revenues (See Section 6.6B) 		
4.				A written, signed statement indicating the specific sections of the Regulations from which waiver and/or modification is requested; or a written signed statement indicating that no waivers and/or modifications are being requested		
5.				A written signed statement indicating any specific zoning variances or modifications requested or a statement that no variances or zoning modifications are being requested.		
6.				A statement from the Zoning Officer confirming the variances requested or modifications requested.		
7.				<p>For subdivisions with freshwater wetlands present on the subdivision parcel(s), copies of either:</p> <ul style="list-style-type: none"> a. An RIDEM wetlands permit, if required pursuant to RIDEM rules and regulations; or b. A letter of non-jurisdiction from RIDEM 		
8.				If no freshwater wetlands and/or wetland buffers are depicted within the plan set, copies of an affidavit signed by a qualified professional stating that there are no freshwater wetlands and/or buffer areas within the subdivision/development parcel(s)		
9.				<p>Either, copies of:</p> <ul style="list-style-type: none"> a. An affidavit signed by a qualified professional stating that there are no coastal features and/or buffer areas adjacent to or within the subdivision/development parcel(s); or b. A Preliminary Determination, including coastal feature verification, from the Coastal Resources Management Council 		
10.				<p>For subdivisions/developments proposing service by public water, copies of a written statement from the Bristol County Water Authority that the proposed plan, with plan revision date indicated, has been reviewed and which provides:</p> <ul style="list-style-type: none"> c. Confirmation that water service is available; d. Approval of connection to the existing water main as depicted on the plan; and, <p>If extension is proposed, approval from BCWA of the extension of the water main as depicted on the plan</p>		

E	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
18.				"Tax Certificate" from the Tax Collector showing that all taxes due on the parcel being subdivided have been paid to date and there are no outstanding municipal liens of the parcel		
19.				Written confirmation and/or permits from any additional required federal, state, or local agencies		
20.				Soil Erosion Sediment Control Plan		
21.				Written report of Phase I Environmental Site Assessment and Phase II, if indicated		
22.				Written report and approval from RIDEM of an Environmental Site Assessment Phase III (Remediation Plan) if required		
23.				Draft (at preliminary) or final (at final) copies of all legal documents; legal description of property, proposed easement and rights-of-way, dedications, restrictions or other required legal documents including but not limited to covenants or Homeowners Association, Stormwater Management Plan, Landscaping Maintenance Plan, a deed conveying open space or offer of street dedication		
24.				Final copies of an irrevocable offer to convey to the Town all public streets and/or other public improvements, accompanied by a metes and bounds description		
25.				For subdivisions/developments proposing new physical access to a State right-of-way a letter evidencing the issuance of such a permit upon the submission of a bond and insurance ¹		
26.				A Photometric Plan		
27.				Renderings as needed to illustrate the visual impact on abutting properties.		
28.				Signage including location, size, design and illumination.		
29.				A plan with new street address numbers and new assessor's plat and lot numbers signed by the Tax Assessor.		
30.				Fiscal Impact Analysis or Environmental Analysis (Section 6.6) if required		
31.				Historic District Commission (HDC) Certificate of Appropriateness if the project requires HDC review and approval		
32.				Proposed residential density and square footage of non residential use. Floor plans to scale for each building including the use of floor space, number of units, number of bedrooms and square footage of each unit and building elevations showing exterior building design, materials, colors and height (for land developments and adaptive re-use)		

¹ RIGL §45-23-39(d)(1)(v) states that for a state permit from the Rhode Island department of transportation, a letter evidencing the issuance of such a permit upon the submission of a bond and insurance is sufficient, but such actual permit shall be required prior to the issuance of a building permit.

F. PROJECTS WITH STREETS/ROADWAYS

If your project proposes to extend or create a roadway, please complete this section. If your project does not propose to extend or create a roadway, you may skip this section.

F	M	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.				Street plans (minimum scale of 1"=40' horizontal with profiles (minimum 1"=4' vertical) indicating the street center line, curblines, and the existing elevations of the ground at the street center line, location and size of proposed sewer lines, water lines and other underground utilities; and, street cross sections showing width of right-of-way, roadway; and, sidewalks. Plan must include street names and hydrant locations approved by the Fire Chief. Plan must include proposed street light locations.		
2.				Roadway design plan(s) and profile(s), including existing and proposed elevations and typical cross-sections and paved (impervious) areas delineated on the appropriate plans, including all pedestrian facilities		
3.				Stormwater management plan(s), and drainage calculations, to show accurate designs and details of proposed stormwater management and water quality infrastructure, including type, location, drainage calculations, extension of existing lines, and configuration, prepared by a Registered Professional Engineer		
4.				Landscape plan(s), maintenance plan and tree preservation plan, to show all significant proposed clearing of land, removal of existing vegetation, re-vegetation, landscaping on street rights-of-way, and within common areas, and landscape installation details and related notations, signed by a licensed Landscape Architect for final plans		
5.				Construction Cost Estimate for all improvements		
6.				Soil Erosion and Sediment Control Plan		
7.				Construction Schedule		
8.				If any Streets, Areas or Facilities are to be dedicated to the Town of Bristol, the Final Plan shall include a Statement that such dedication shall not impose any duty or responsibility upon the Town of Bristol to maintain or improve any dedicated streets, areas or facilities until specifically authorized by the Town Council Per Section 6.7 of these regulations.		

G. FEES

G	M	PR	F		Received
1.				Application Fee	
2.				Engineering Review Fee	
3.				Advertising Reimbursement	
4.				Final Plat Recording and Mapping Fees	
5.				Performance Guarantee (if applicable)	
6.				Engineering Inspection Fee	
7.				Maintenance Guarantee (if applicable)	
8.				Receipt that all other fees to outside agencies have been paid (if applicable)	

Applicant Comments on Required Items: Attach additional sheets as needed
Reviewer Comments on Required Items:

Signature of Applicant: _____
 Signature of Professional Land Engineer: _____
 Registration Number: _____

Signature of Professional Land Surveyor: _____
 Registration Number: _____

Signature of reviewer: _____
 Date of Review: _____

DRAFT

APPENDIX E
DEVELOPMENT PLAN REVIEW APPLICATION AND CHECKLIST

DRAFT

APPLICATION FORM AND SUBMISSION CHECKLIST FOR DEVELOPMENT PLAN REVIEW

Please submit the following completed application form, together with the appropriate materials listed in on the attached checklist (for either Preliminary or Final Review as appropriate), to the Administrative Officer

APPLICATION FORM

- 1. Name of proposed development: _____
- 2. Name, address and telephone number of property owner: _____

- 3. Name and address of applicant, if different from owner: (A written, notarized confirmation from property owner authorizing the applicant to make the submission shall also be submitted): _____

- 4. Plat and lot number(s) of the parcel being developed: _____
- 5. Area of the subject property: _____
- 6. Zoning District (including any Special Districts): _____

Signed by Owner/Applicant: _____ Date _____

Notarized:

Subscribed and sworn to before me this _____ day of _____, 20__.

NOTARY PUBLIC

DEVELOPMENT PLAN REVIEW CHECKLIST

Name of proposed subdivision/development: _____

Applicant Name and Address _____

Phone Number: _____

Email: _____

Date of Application: _____

Plat and Lot Number(s) of the land being developed: _____

<hr style="border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> Date Received / Initials
--

A COPY OF ALL PLANS AND SUPPORTING DOCUMENTS SHALL BE SUBMITTED IN DIGITAL FORM (PDF). APPLICATIONS WILL NOT BE CONSIDERED SUBMITTED FOR REVIEW OF COMPLETENESS UNTIL BOTH DIGITAL AND PAPER SUBMISSIONS ARE RECEIVED.

INSTRUCTIONS

Three (3) copies of the application package including all plans and supporting documentation shall be provided along with a Digital Form (PDF) of the entire application package. Each plan sheet shall be a minimum of size of 8 ½” x 11” and a maximum of 24” by 36” and at a scale of 1”= 40’ with a sufficient number of sheets to clearly show all of the information required. Upon final approval one reproducible mylar, 3 paper copies, and one electronic AutoCAD file of all plans shall be submitted.

All plans required by this checklist shall show the following information (as applicable). The shaded boxes within the checklist indicate an item is **not** required at a particular stage of review. If any checklist items are marked as not applicable (NA) please provide an explanation as to why the item is not applicable in the space provided at the end of the checklist. Attach additional sheets as needed.

For the LOCATION column please provide the location of the specific checklist item. This can be a plan sheet number or the name of the supporting document/page. All revisions in response to comments shall include a written statement indicating the response.

Review Codes are for administrative use only and are to be entered by the Administrative Officer

Please check the applicable stage of review for the submission

Project Type: <input type="checkbox"/> Formal DPR	Stage of Review: <input type="checkbox"/> Preliminary (PR) <input type="checkbox"/> Final (F)
---	--

A. FORMS AND DOCUMENTS

A	PR	F	REQUIRED FORMS AND DOCUMENTS	REVIEW CODE
1			Project Review Application Checklist	
2			A notarized letter from the property owner(s) stating that the applicant has been granted the authority to proceed with the application with the owner(s) permission and consent	
3			Application Form	

B. GENERAL INFORMATION (to be provided on all plan sheets)

B	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			Title Block with Name of the proposed project, Plat and Lot Numbers of the subject property, Address of Subject Property, Name and Address of Owner/Applicant		
2.			Name, address, phone, and stamp(s) of the RI Registered Engineer and/or RI Registered Land Surveyor responsible for the plans		
3.			Date of plan preparation and all revision date(s), if any		
4.			True north arrow and graphic scale		
5.			Site plan legend (all items displayed on site plans shall be symbolized in a legend)		
6.			Relevant references to deeds and recorded plans		
7.			List of sheets contained within the plan set		
8.			Notation of any permits and/or agreements obtained from or made with State and Federal agencies, including permit number if applicable		
9.			Names, addresses and Plat/Lot identified of abutting and adjacent property owners		
10.			Names and address of adjoining communities or agencies requiring notice under these regulations		

C. EXISTING CONDITIONS PLAN(S) -Show the entire tract of the subject property and all lots owned by the owner/applicant as it currently exists.

C	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			A general location map showing the relationship of the development parcel(s) of the area within a half-mile radius		
2.			Certification by a RI Registered Land Surveyor that a perimeter study of the land being developed has been performed and meets a Class I standard for property lines and a Class III standard for topographic and existing conditions information		
3.			Location of known existing easements and rights-of-way within or adjacent to the subdivision/development parcel(s)		
4.			Location, names and width of any existing street, driveways, farm roads, woods roads, and/or trails that have been in public use (pedestrian, equestrian, bicycle, etc.) within and adjacent to the development parcel(s)		

C	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
5.			Zoning district(s) of the land being developed, with zoning boundary lines shown if there is more than one district		
6.			Zoning District Dimensional Regulations of the development parcel(s)		
7.			Existing contours at intervals at a minimum of two (2) feet		
8.			Flood Zone with Base flood elevation data; use the North American Vertical Datum of 1988 (NAVD 88)		
9.			Location of any known soil contaminants present on the subject parcel, if any		
10.			Location of wetlands, watercourses or coastal features within and adjacent to the parcel(s), including buffer areas as defined by RIDEM for wetlands		
11.			Location of wooded areas and areas of active agricultural use		
12.			Boundaries of applicable watersheds for the parcel(s)		
13.			Location, size, and use/type of all existing buildings or significant above-ground structures, including stone walls		
14.			Location and size of existing buildings or significant above-ground structures, including stone walls, on parcels immediately adjacent to the subdivision/development parcel(s)		
15.			Location, size, and type of all known, existing above and below ground utilities, including sewer, water, gas, electric, stormwater drainage and communications or telecommunications infrastructure, as may be present on the site or within the right of way along the property frontage		
16.			Location of any significant natural or cultural features, including stone walls, ledge, and existing trees with a 10" caliper or larger as well as historic cemeteries and access, within or adjacent to the parcel(s)		
17.			<p>Notation indicating that the development parcel(s) (or existing structures) are located or not located within the following areas of special concern:</p> <ul style="list-style-type: none"> m. Natural Heritage Areas, as defined by RIDEM n. The area(s) under the jurisdiction of any Special Area Management Plan (SAMP) of RI CRMC o. A Groundwater Protection Overlay District p. A Wellhead Protection Area q. Groundwater Recharge Area r. Areas within a TMDL watershed, as identified by RIDEM s. OWTS Critical Resource Area, as defined by RIDEM t. A Drinking Water Supply Watershed, as defined by RIDEM u. National Register of Historic Places v. Bristol Historic District w. Silver Creek Watershed in Town of Bristol x. Tanyard Brook Watershed in Town of Bristol 		

D. PROPOSED CONDITIONS PLAN(S) – Show all items on the Existing Conditions plan as well as the following:

D	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
18			Boundaries and total area of any land classified as “unsuitable for development”		
19			Location, size and proposed use of existing buildings and location and size of proposed buildings and land uses with the designation and area in square feet of each proposed use within the structure; and if any, the total number of seats both indoor and outdoor		
20			Notation as to Flood Zone and Flood Zone Boundary		
21			Any proposed on- and/or off-site improvements including streets, access drives, location and dimension of loading areas, parking areas with location, number and dimensions of existing and proposed parking spaces including accessible parking spaces, existing and proposed sidewalks, pedestrian areas, and bicycle parking and/or paths		
22			A Zoning Data Table to include setbacks, Floor Area Ratio, and Lot Coverage Computations per the Zoning District and for the proposed conditions		
23			Circulation plan include vehicular access sites showing the dimensions and location of roads, driveways, curb cuts, radii, parking as well as other off-site traffic improvements		
24			Designated trash and recycling collection area(s)		
25			Proposed location, size, and type of all above ground and underground utilities servicing the property, including wastewater, water, gas, electric, transformer, and communications or telecommunications infrastructure, as may be required for site development		
26			Designs of proposed stormwater management infrastructure and water quality infrastructure, including type, location, and configuration, prepared by a Registered Professional Engineer for final plans		
27			Proposed phasing, including depiction of which structures and on- and off-site improvements are to be installed in which phase, if applicable		
28			Wooded areas and major trees ten (10”) caliper or greater		
29			Soil Erosion, Runoff and Sediment Control Plan including Limits of disturbance/work relative to on-and off-site improvements and infrastructure installation		
30			Certification by a RI Registered Land Surveyor that a perimeter study of the land being developed has been performed and meets a Class I standard for property lines and a Class III standard for topographic and existing conditions information		
31			Proposed grading plan(s) to show contours at sufficient detail (2-foot intervals) for all on and off-site street construction, drainage facilities, stamped by a licensed Professional Engineer for final plans. Finish grade to be shown as solid lines		
32			Landscape plan(s), by a registered Landscape Architect, to show all significant proposed clearing of land, removal of existing vegetation, re-vegetation, landscaping on street rights-of-way, and		

D	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
			within common areas, and landscape installation details and related notations		
33.			Notation of any special conditions as required by the Preliminary Plan approval		
34.			Proposed measures to minimize impacts to the natural topography of the site using the Low Impact subdivision (LID) Site Planning & Design Guidance Manual		
35.			Location and notation of type of proposed easement(s) or existing easement(s) to remain with accurate dimensions and areas indicated, if any		
36.			Location, dimension, and area of any land proposed to be conveyed to the Town or set aside for open space or drainage, if any		

H. SUPPORTING MATERIALS

E	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
1.			Copies of an aerial photograph or satellite image vicinity map drawn to a measurable scale as necessary to show the relationship of the development parcel(s) to the area within a half-mile radius, identifying the locations of all streets, zoning district boundaries, schools, parks, fire stations, and other significant public facilities		
2.			Renderings, elevations or photographs as may be needed to illustrate the visual impact of a proposed development. Floor plans and building elevations showing exterior building design from all sides, materials, colors and height		
3.			A Low Impact Development Site Planning and Design Strategies Checklist from the RI Stormwater Design and Installation Standards Manual. Stormwater designs to meet RI Stormwater Manual Minimum Standards and include water quality		
			A narrative report or written statement including: <ul style="list-style-type: none"> i. A general description of the existing physical environment and existing use(s) of the property; j. A general description of the use(s) and type(s) of development proposed; k. A general statement and supporting maps and/or graphics that illustrates the approach utilized in designing the proposed development, including consideration of existing conditions and significant site features; l. A general analysis of soil types and suitability for the development proposed; and m. A general viewshed analysis, showing the location and extent of significant views both from and within the proposed development parcel(s), as well as anticipated views into the property from adjacent public or private streets and properties. 		
4.			A signage plan including location, size, design and illumination.		
5.			A photometric plan of exterior site lighting		

E	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
6.			A construction cost estimate of all site improvements		
7.			A written, signed statement indicating the specific sections of the Regulations from which waiver and/or modification is requested; or a written signed statement indicating that no waivers and/or modifications are being requested		
8.			A written signed statement indicating the specific zoning relief requested (variance or modification), if any		
9.			Determination letter from the Zoning Officer on requested zoning relief (variance or modification) requested, if any		
10.			For developments with freshwater wetlands present on the parcel(s), copies of either: c. An RIDEM wetlands permit, if required pursuant to RIDEM rules and regulations; or d. A letter of non-jurisdiction from RIDEM		
11.			If no freshwater wetlands and/or wetland buffers are depicted within the plan set, copies of an affidavit signed by a qualified professional stating that there are no freshwater wetlands and/or buffer areas within the subdivision/development parcel(s)		
12.			Either, copies of: c. An affidavit signed by a qualified professional stating that there are no coastal features and/or buffer areas adjacent to or within the development parcel(s); or d. A Preliminary Determination, including coastal feature verification, from the Coastal Resources Management Council		
13.			For developments proposing service by public water, copies of a written statement from the Bristol County Water Authority that the proposed plan, with plan revision date indicated, has been reviewed and which provides: e. Confirmation that water service is available; f. Approval of connection to the existing water main as depicted on the plan; and, If extension is proposed, approval of the water main extension as depicted on the plan		
14.			For subdivisions/developments proposing service by public sewer, copies of a written statement from the Bristol Water Pollution Control Department that the proposed plan, with plan revision date indicated, has been reviewed and which provides: c. Approval of connection to the existing sewer main as depicted on the plan; and d. If extension is proposed, approval of extension of the sewer main as depicted on the plan		
15.			Construction Schedule for major construction tasks		
16.			Written comments on the Plans, by the following as required <i>REFERRALS TO THE AGENCIES BELOW WILL BE MADE BY PLANNING DEPARTMENT STAFF:</i> ____ Zoning Official Date _____ ____ Technical Review Committee Date _____ ____ Building Official Date _____ ____ Director of Public Works Date _____		

E	PR	F	ELEMENT REQUIRED	LOCATION (PAGE #)	REVIEW CODE
			___ Fire Department Date _____ ___ Conservation Commission Date _____ ___ Police Department Date _____ ___ School Department Date _____ Other (specify below) _____ Date ____		
17.			Copies of drainage calculations, associated explanatory narrative, and all supporting documentation, including an Operations and Maintenance manual for the system which shall be prepared by a Registered Professional Engineer.		
18.			A traffic study, if required, prepared by a traffic engineer regarding the potential impact of the proposed development on neighboring properties and roads; include all means of vehicular access to and from the site onto public streets showing driveways, curb cuts, radii, parking as well as other offsite traffic improvements necessary to ensure public safety and convenience, if required.		
19.			Copies of any RIDEM stormwater or other general construction permits that are required, or an affidavit, signed by a qualified professional, stating that no RIDEM stormwater or construction permits are required		
20.			"Tax Certificate" from the Tax Collector showing that all taxes due on the parcel being developed have been paid to date and there are no outstanding municipal liens of the parcel		
21.			Written confirmation and/or permits from any additional required federal, state, or local agencies		
22.			Written report of Phase I Environmental Site Assessment and Phase II, if indicated. Written report and approval from RIDEM of an Environmental Site Assessment Phase III (Remediation Plan) if required		
23.			Legal Documents including easements, and conveyance deeds for any improvements to the Town, accompanied by a metes and bounds description		
24.			For developments proposing new physical access to a State right-of-way a letter evidencing the issuance of such a permit upon the submission of a bond and insurance ¹		

¹ RIGL §45-23-39(d)(1)(v) states that for a state permit from the Rhode Island department of transportation, a letter evidencing the issuance of such a permit upon the submission of a bond and insurance is sufficient, but such actual permit shall be required prior to the issuance of a building permit.

I. FEES

	PR	F		<i>Received?</i>
1.			Application Fee	
2.			Engineering Review Fee	
3.			Advertising Reimbursement Fee (if applicable)	
4.			Final Plat Recording and Mapping Fees	
5.			Performance Guarantee (if applicable)	
6.			Engineering Inspection Fee	
7.			Maintenance Guarantee (if applicable)	
8.			Receipt that all other fees to outside agencies have been paid (if applicable)	

Applicants Comments on Required Submission items - Attach additional sheets as needed
Reviewer Comments on Required Submission items

Signature of Applicant: _____
 Signature of Professional Land Surveyor /Engineer: _____
 Registration Number: _____
 Signature of Professional Land Surveyor _____
 Registration Number: _____
 Signature of reviewer: _____ Date of Review: _____

APPENDIX F
DESIGN AND CONSTRUCTION STANDARDS

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APPENDIX F

DESIGN AND CONSTRUCTION STANDARDS

F.1 GENERAL PROVISIONS - STANDARDS FOR REVIEW

A. General Requirements

In addition to the required findings stated in Section 8.6 of Article 8, the approving authority, whether it be the Planning Board, Administrative Officer, or Technical Review Committee as may be the case with development plans shall make positive findings on all of the standards listed below as part of the record for the proposed subdivision or development project. The Planning Board shall have grounds for denial of the proposal if a negative finding for any of these standards is made.

B. Project Design

(1) Purpose.

The purpose of good subdivision and site design is to create a functional and attractive development, to minimize adverse impacts, and to ensure that a project will be an asset to the community. To promote this purpose, land development projects and subdivisions shall conform to the following standards which are designed to result in a well-planned community without adding unnecessarily to development costs.

(2) Subdivision and Development Project Design.

- (a) Design of the development shall be consistent with the Comprehensive Community Plan for the Town of Bristol.
- (b) Development of the site shall be based on the characteristics of the site and upon the site analysis. Development planning and design strategies should also be consistent with Minimum Standard 1 of the RIDEM Stormwater Manual. To the maximum extent practicable, development shall be located to minimize disturbance to the natural features of the site, to avoid areas of environmental sensitivity, and to minimize negative impacts and alteration of natural features, historic and cultural resources, and areas of scenic value which contribute to the character of the Town.

- (c) The following specific areas shall be *preserved as undeveloped open space or lot area*, to the extent consistent with the reasonable utilization of land; and in accordance with the applicable State or Town regulations:
- i. Unique and/or fragile areas including freshwater and coastal wetlands, as defined by a RIDEM qualified biologist;
 - ii. Undeveloped lands in the flood plain, especially velocity flood plain, as defined in Article XII of the Zoning Ordinance;
 - iii. Habitats of endangered wildlife, as identified on applicable Federal or State lists;
 - iv. Archaeologically significant areas as identified by the State Rhode Island Historic Preservation Commission;
 - v. Agricultural lands as defined in Article XII of the Zoning Ordinance;
 - vi. Significant trees or stands of trees, or other vegetative species that are rare to the area or are of particular horticultural or landscape value.
- (d) In general, development shall be laid out to reduce cut and fill; to avoid unnecessary impervious cover; to prevent flooding; to provide adequate access to lots and sites; and to mitigate adverse effects of shadow, traffic, drainage and utilities on neighboring properties. The following standards shall apply (See also Section 8.6 Findings):
- i. Subdivisions shall not create individual lots with such physical constraints to development that building on those lots according to applicable regulations and building standards will be impracticable.
 - ii. All proposed land developments and all subdivision lots shall have adequate permanent physical access to a public street. Lot frontage on a public street without physical access shall not be considered compliance with this requirement; and,
 - iii. Each development shall provide safe circulation of pedestrian and vehicular traffic, for adequate surface water run-off, for suitable building sites, and for the preservation of natural, historical, or cultural features that contribute to the attractiveness of the community;

- iv. The design and location of streets, building lots, utilities, drainage improvements and other improvements in each development shall minimize potential flooding and soil erosion.

C. Lot Design Standards

(1) Developable Land Area.

- (a) All lots shall be designed so as to contain not less than the minimum land area required by the Zoning Ordinance while complying with the definition of Lot Area in Article XII the Zoning Ordinance.

(2) Land Unsuitable for Development.

- (a) Land included in B(2)(c)1 [freshwater and coastal wetlands as designated by RIDEM qualified biologist] shall be considered land unsuitable for development and shall not be used for locating building envelopes and/or septic systems. This land may not be included in the minimum area needed for lots in the R-6, R-8, D, or W zoning districts. The minimum area of contiguous land exclusive of wetlands, known as “upland”, for lots in other zoning districts shall be according to the following schedule, Table 1:

TABLE 1

Zoning District	Minimum Amount of Contiguous Upland Required for Lots (in square feet)
R-10 and GB	8,000
R-15	12,000
R-20 and M	16,000
R-40	20,000
R-80	40,000

- (b) Public access, waterfront access, or scenic areas, exclusive of those located in wetlands, which are conveyed by easement solely to the Town, State other Governmental entity, or recognized Conservation organization may be included in the lot area for calculation.

(3) Lot Configuration.

When designing the layout of lots and future buildings within a development, the following standards and conditions shall apply.

- (a) All lots shall abut an existing or proposed public street with a minimum frontage as set forth in the Zoning Ordinance, except as otherwise provided.
- (b) Except on those sides bordering a street, lots shall have no interior angles greater than two hundred (200) degrees unless the Planning Board (or Administrative Officer in the case of Administrative Subdivisions) makes a finding that the proposed interior angle would not result in the creation of a Flag Lot. In general, building lots shall have a proportion of average lot depth to average lot width not exceeding two and five tenths (2.5) to one (1), provided; however, that they have the **minimum lot size as required in the Zoning Ordinance.**
- (c) The Planning Board shall have the right to prohibit or require modification to proposed lots which are shaped or configured in such a manner as to conflict with the use of the land for the intended purposes. The Planning Board may vary street locations, lot shapes and dimensions, yards and setbacks for the purpose of encouraging and promoting flexibility, economy, and environmental soundness in layout and design, **provided that the lots areas and dimensions, yards and setbacks within the subdivision meet or exceed the minimum requirements of the Zoning Ordinance,** and provided that such standards shall be appropriate to the type of development permitted.
- (d) Residential developments.
- i. Every lot shall have sufficient access to it for emergency vehicles as well as for those needing access to the property in its intended use.
 - ii. Except as otherwise provided, residential lots shall front on local streets wherever practicable.
 - iii. The placement of dwelling units in residential developments shall respond appropriately to considerations of topography, privacy, building height, orientation, drainage, and scenic values.
- (e) Commercial and industrial developments. Commercial and industrial developments shall be designed according to the same principles governing the design of residential developments; namely, buildings shall be located according to topography, with environmentally sensitive areas avoided to the maximum extent possible; factors such as drainage, noise, odor, and

surrounding land uses considered in siting buildings; sufficient access shall be provided and adverse impacts mitigated.

(4) Blocks.

In residential subdivisions, blocks shall not normally be greater than one thousand (1,000) feet in length. Blocks in grouped housing, commercial or industrial developments, shall be designed to allow traffic to move with ease and to provide inherent safety to pedestrians and inhabitants. The dimensions of such blocks shall be related to the site requirements of the contemplated uses.

D. Circulation and System Design

(1) Road System.

- (a) The arrangement of streets shall be considered in relation to the existing street system and to existing topographic and natural conditions. The road system shall be designed to permit the safe, efficient and orderly movement of traffic; to meet, but not exceed, the needs of the present and future population served; to have a simple and logical circulation pattern; to respect natural features and topography; to improve the visual quality of the subdivision; to increase privacy and reduce unnecessary noise and traffic.
- (b) In grouped housing and commercial developments, the number of site entrances shall be the minimum necessary for effective traffic control. The sharing of access driveways and parking areas by adjoining properties is desirable and will be required where appropriate.

(2) Pedestrian and Bicycle Systems.

- (a) Pedestrian and bicycle systems shall be located as required for safety. In conventional subdivision developments, walks shall be placed parallel to the street with exceptions permitted to preserve natural features or to provide visual interest. Walks may be placed away from the road system with permission of the Planning Board.
- (b) In site development, the layout and design of all means of vehicular and pedestrian circulation, including interior drives, parking areas, and walkways shall provide for safe interior circulation and separation of pedestrian, bicycle, vehicular, and service traffic.

E. Landscape Design

- (1) Reasonable landscaping should be provided at site entrances, in public areas, in parking areas, adjacent to buildings, as required for screening; and, in buffer areas. The type and amount of landscaping required shall be allowed to vary with type of development, as approved by the Planning Board or Technical Review Committee with referral to the Bristol Conservation Commission.
- (2) The plant or other landscaping material that best serves the intended functions shall be selected. Landscaping materials shall be appropriate for the local environment, soil conditions, and availability of water. The use of grasses that require minimal watering and fertilization is encouraged, particularly in areas that are ecologically sensitive.

F. Lighting Requirements

Lighting for safety shall be provided at intersections, along walkways, at entryways, between buildings and in parking areas where they shall be coordinated with stall and aisle layouts.

G. Sign Requirements

Signs, as defined by the Zoning Ordinance, shall be in compliance with the requirements and standards of Article IX of the Zoning Ordinance.

H. Buffering Requirements

- (1) Every development shall provide sufficient buffering when topography, existing vegetation or other barriers do not provide reasonable screening and when the approving authority has determined that there is a need to: shield neighboring properties from any adverse external effects of a development; shield the development from any negative impacts of adjacent uses; and/or to minimize stormwater impacts on flood management and water quality.
- (2) Buffer easements and landscaping within the buffer area shall be as set forth in these regulations (Section F.2)

I. Sustainability / Energy Efficiency

To the maximum extent reasonably practicable, developments should utilize energy-efficient technology and renewable energy resources and shall adhere to the principles of energy conscious design with regard to orientation, building materials, shading, landscaping, and other elements.

- (3) **LEED®** (Leadership in Energy and Environment Design) certified buildings shall be encouraged. LEED ® establishes a system for measuring building and site performance by promoting designs that integrate energy and resource conservation. Construction shall use “green” strategies and materials to the extent possible.
- (4) **Solar Radiation** New development shall maximize the benefits of solar radiation. Orientation recognized in the façade treatment, trees and shade structures shall be incorporated into designs.
- (5) **Green Roof** “Green” roofs shall be encouraged in any development design and the green roof area shall be considered non-roof for any landscape area calculation.
- (6) **LID (Low Impact Design)** Strategies, consistent with the State of Rhode Island Stormwater Design and Installation Standards Manual, as amended.

F.2 PUBLIC IMPROVEMENT AND DESIGN STANDARDS

A. General.

The applicant, at his own expense, shall construct all improvements where required by the Planning Board in granting approval for any subdivision or development subject to these regulations; including, off-site improvements where directly related to impacts from the proposed development.

B. Street Design Standards.

The following design standards shall be followed where applicable in the design and construction of any subdivision or development project, including building permits for single lots.

(1) Frontage on Improved Streets.

- (a) The area to be built on, developed or subdivided shall have frontage on an existing, improved public street. If such an existing street has not been improved to the standards and specifications as required by these Regulations, the Planning Board must approve the street improvement. (Refer to application submission requirements in Appendix D, Section C, of these regulations “Construction Documents” The applicant shall make certain improvements along the part of the street abutting the

property and/or leading to the property being subdivided or developed where necessary for drainage, safety, traffic or other reasons as deemed proper by the Board in accordance with the following sections

- i. For platted, dedicated streets (platted and dedicated prior to the effective date of these regulations) which are not improved ; Developer shall pay all related costs for: engineering work to prepare plans; and all costs to construct a new road in accordance with the standards of Section F.3 General Construction Standards of the Town of Bristol Subdivision and Development Review Regulations including but not limited to installation of property boundaries, drainage, hydrants, sewer and water supply, street trees, street lighting, gravel base course treatment, bituminous binder course, and surface course.
- (b) Where the lot to be built on is a pre-existing single lot of record, the base course shall be installed prior to issuance of a building permit and the balance of the outstanding improvements are to be completed prior to issuance of a certificate of occupancy unless a performance guarantee is posted. Where roads are improved as part of multiple preexisting lots of record or a subdivision, the Developer shall complete the work or post a guarantee in accordance with Section 6.5 of these Regulations.
- (c) In all cases, the Developer shall be responsible to reimburse the Town of Bristol for the Planning Board's Engineer Review and Inspections in accordance with Section 7.5 of these regulations.

(2) Street Classification.

Street design within a proposed subdivision or land development shall conform to the street classification system as established herein. Requirements for right-of-way and pavement width, on-street parking, drainage and other utilities, sidewalks, bicycle path and other design standards shall be tailored to street function.

Street classification shall be determined by the Planning Board. The following major categories of street classification are established:

- (a) Arterial - A major public street that serves as an avenue for the circulation of traffic into, out of, or around the Town and carries high volumes of traffic.

- (b) Collector - A public street whose principal function is to carry traffic between local streets and arterial streets but that may also provide direct access to abutting properties.
- (c) Local - Public streets whose primary function is to provide access to abutting properties.
- (d) Stub Road/Connector - A portion of a street reserved to provide access to future development, which may provide for utility connections
- (e) Cul-de-Sac - A local street with only one outlet and having an appropriate vehicular turnaround at the closed end.
- (f) Service Road - Streets parallel and adjacent to arterial streets and highways which provide access to properties in the subdivision and provide protection from through traffic.
- (g) Industrial - A public street that services properties within an industrial zoning district.

(3) Street Right of Way and Pavement Widths.

Street right-of-way and pavement widths shall conform to the dimensions shown in Table 2 below. Figure 1 illustrates a typical cross section of a local street proposed for acceptance and maintenance by the Town.

TABLE 2

Type of Street	Right-of-Way Width	Pavement Width
Local	50'	24'
Stub Road or Connector	50'	24'
Cul-de-Sac Serving 4 lots or less	40'	24'
Service Road	40'	24'
Industrial	60'	28'
Collector	50'	28'
Arterial	80'	(*)

(*) Pavement width as per Planning Board, based on traffic studies, best available engineering data and other pertinent information that the Planning Board may

require to assist in determining, subject to the recommendations of the Planning Board Engineer.

(4) Variations to Right-of-way and Pavement Widths.

- (a) The Planning Board shall have the right to require greater right-of-way widths and greater paved surfaces and to allow reduced right-of-way and paved surfaces where the Board finds it appropriate. The Board shall consider expected and future traffic, the possibility for expansion or continuation of the street, public safety, on-street parking needs and requirements, the existing and proposed zoning and land use in evaluating road width requirements. When on-street parking is needed or required, pavement widths shall be designed so that there is a minimum of 20' for unobstructed passage in accordance with the Fire Code.
- (b) The Planning Board may allow the pavement to be off-set within the right-of-way.

(5) Street Layout and Arrangement.

- (a) In subdivisions and land development projects, access shall be designed to avoid street systems which have only one principal means of egress. In order to provide for alternative access, at least two (2) vehicular access streets may be required by the Planning Board in major subdivisions, when determined by the Board to be feasible. Proposed streets within subdivisions and land development projects shall provide for their continuation or projection to intersect with principal streets on the perimeter of the subdivision or with adjacent vacant property in order that the streets may be extended at a future time.
- (b) Street Grades. Grades of minor residential streets shall not be less than five-tenths (0.5) percent nor more than ten (10) percent. Arterial and industrial streets shall not exceed five (5) percent in grade nor be less than five-tenths (0.5) percent in grade.
- (c) Where a deflection angle of ten (10) degrees or more occurs along the center line of a street, a curve with a radius of not less than one hundred fifty (150) feet shall be introduced.

(6) Access to Adjoining Properties.

- (a) When the Planning Board requires the provision of access to adjoining property, proposed streets (also known as “stub roads” or “connectors”) shall be continued and improved for a minimum length of ten (10) feet so that they are recognizable. The reservation of strips of land preventing such access shall not be permitted. Where a dead-end street is to provide future access to adjacent property, the Planning Board may require a defeasible easement provision for a turn-around or a “T” turn-around until such time as the street is extended.
- (b) The minimum dimensions for a “T” turn-around shall be forty (40) feet x eighty (80) feet.
- (c) A performance guarantee may be required to insure completion of the street or construction of a permanent cul-de-sac within a reasonable period of time.
- (d) Access to adjoining property for pedestrian and/or bicycle circulation may be required if the Planning Board finds that the connection will either: increase accessibility between adjoining subdivisions; join existing or proposed sidewalks or bicycle paths; join subdivisions to major public or private schools, recreation areas or other facilities; or, significantly enhance the public safety by providing such pedestrian and/or bicycle connections.

(7) Street Intersections.

Street intersections shall either coincide precisely with, or be offset by at least one hundred fifty (150) feet from other intersections. Intersections shall intersect as nearly as possible at ninety (90) degree angles; no intersection shall have an angle of less than sixty (60) degrees. Corners at intersections shall be rounded to provide a radius of not less than fifteen (15) feet.

(8) Dead-End Streets (Cul-de-sacs).

All dead end streets shall end in a cul-de-sac or T-shaped turnaround and shall be clearly marked at their entrances. The length of a dead-end street shall not exceed six hundred (600) feet, measured to the center point of the cul-de-sac radius, to ensure the adequate and safe circulation of vehicular traffic.

A cul-de-sac turn-around shall have a minimum radius for paved area of forty (40) feet with a fifty (50) foot right-of-way radius and may be off-set left or right. The Planning Board may permit a thirty (30) foot paved radius where appropriate. The Planning Board may also permit a landscaped island in the center of the cul-de-sac

to aid with stormwater management. Where appropriate, the Planning Board may permit a T-shaped turnaround with a minimum length of sixty (60) feet and a minimum width of twenty (20) feet.

(9) Street Names.

- (a) An extension of an existing street shall have the same name as the existing street. Names of other proposed streets shall be substantially different from any existing street name in the Town of Bristol as approved by the Planning Board and the Town Fire Chief in accordance with the 911 Uniform Emergency Telephone System.
- (b) As a general rule, cul-de-sacs shall be “courts” and private streets shall be “ways” in order to provide clarification as to the type of road.

(10) Street Numbers.

Street numbers, for mailing purposes, shall be assigned to each new lot or building in concurrence with the Director of Community Development, the Tax Assessor, and the Post Office as per the 911 Uniform Emergency Telephone System.

(11) Street Signs.

Traffic and street name signs shall be included in the subdivision design and approved by the Department of Public Works and the Chief of Police. Such signs shall be installed by the developer or by the Department of Public Works at the developer's expense.

(12) Lighting.

- (a) In all new subdivisions where road improvements are being made, provisions shall be made for street lights with LED Bulbs to be installed generally every two hundred (200) feet or as approved by the Planning Board
- (b) The maximum height of light standards in commercial and industrial districts shall not exceed twenty-five (25) feet, unless specifically authorized by the Planning Board.
- (c) Where there is a mix of residential and commercial uses, light standards shall not exceed twenty (20) feet in height, unless specifically authorized by the Planning Board.
- (d) The height and shielding of lighting shall provide proper lighting without hazard to drivers or nuisance to residents.

- (e) The design of lighting standards shall be of a type appropriate to the development as approved by the Planning Board.

Spotlights, if used, shall be placed on standards, pointing toward the building and positioned so as to not spill onto residential areas but, directed onto the buildings.

(13) Street Trees.

Where existing tree growth is determined by the Planning Board or Technical Review Committee (TRC) to be insufficient, the Planning Board or TRC shall require the applicant to plant street trees along both sides of all new streets within developments or along the existing streets abutting the development in accordance with the approved landscape plan. Street trees shall be appropriate for the terrain, soil and climatic conditions encountered in the development, and in accordance with the following standards:

- (a) Location - Street trees shall be planted within street rights-of-way along both sides of the street.
- (b) Spacing - Trees shall be planted at distances of not less than thirty (30) feet nor more than fifty (50) feet apart along each side of the street pavement. At street corners, trees shall not be planted within twenty-five (25) feet of the intersecting right-of-way lines.
- (c) Type - Trees shall be of nursery stock grown under local climatic conditions and of a type as recommended by the Bristol Conservation Commission and approved by the Planning Board. Species which have been introduced to this region by way of Bristol are preferred, including the following. For additional recommended tree species, reference Appendix H.

Aesculus hippocastarium Common Horsechestnut
Carya Ovata Shagbark Hickory
Catalpa speciosa Northern Catalpa
Celtis Occidentalis Common Hackberry
Cercidiphyllum japonicum Katsura Tree
Ginkgo Biloga Ginkgo
Gleditsia Triacanthos intermins Thornless Honey Locust
Gleditsia Tricanthos intermis "Moraine" Moraine Locust
Juglans nigra Black Walnut
Liquidambar styraciflua American Sweet Gum
Liriodendron tulipifere Tulip Tree
Magnolia acuminata Cucumber Tree

Nyssa sylvatica Tupelo
Platanus x acerifolia London Plantree
Plantanus occidentalis Common Sycamore American Plantree Buttonwood
Quercus bicolor Swamp White Oak
Quercus coccinea Scarlet Oak
Quercus macrocarpa Bur Oak
Quercus palustris Pin Oak
Quercus rubra Northern Red Oak
Roninia pseudoccaccacia Black Locust
Sophora japonica Japanese Pagoda Tree (Scholar Tree)
Tilia Americana American Linden
Tilia Cordata Little Leaf Linden
Tila Euchlora Crimean Linden
Tilia x Redmond Redmond Linden
Tilia x eruopaes Common Linden European Linden
Tilia tomentosa Silver Linden
Tila petiolaris Pendent Silver Linden
Ulmus Ameriana New Harmony American Elm
Ulmus Ameriana Princeton American Elm
Ulmus Ameriana Valley Forge American Elm
Ulmus japonica x wilsonlana Morton /Accolade Elm
Zelkova serrata Japanese Zelkova

- (d) Size - The average trunk diameter measured at a height of six (6) inches above the finished grade shall be a minimum of two and one half (2½) inches at time of planting. Street trees shall have a minimum overall height of eight (8) feet.
- (e) Quality - Street trees shall be of a symmetrical growth, free of insect pests and disease, suitable for street use and durable under the maintenance contemplated. Existing trees on the site, which are suitable for use as street trees, may be used if inspected and approved by the Tree Warden before planting.
- (f) Planting - Planting shall be done during the proper season and no planting shall be done in frozen soil or during unfavorable weather conditions. Each tree shall be planted plumb, slightly lower than where it stood in the nursery (in relation to the finished grade) and shall be thoroughly watered when the hole is two-thirds full of loam.
Loam

shall be clean of good quality and of such fertility and composition that it will continuously support plant growth. After watering, the filling shall be complete and the loam thoroughly tamped. After planting, a three-inch mulch of well-seasoned manure or peat shall be applied over the disturbed ground and a shallow watering basin provided around the tree.

- (g) Staking - Each tree shall be secured by double staking in such manner as to ensure maximum stability and to prevent whipping of the tree in high winds. Such staking shall be accomplished with a pair of two and one-half (2 1/2) inches by eight (8) feet stakes driven plumb two and one-half (2 1/2) feet into the ground and tied at the tops and bottoms with figure-eight hitches of No. 4 gauge wire encased in rubber hose or its equivalent.
- (h) Maintenance - All trees shall be watered and maintained by the applicant to assure that suitable growth has been established.

C. Easements.

(1) Easements may be required by the Planning Board where necessary for the proper location and placement of improvements on private land as described below. The area of the easement may be included in the calculation of the lot area. The Board may, in its own discretion, require the dedication of land to the Town in lieu of easements if such dedication would provide greater control over and access to the intended use. Permanent monuments may be required to be installed to mark the easement as determined by the Director of Public Works.

- (a) Sanitary Sewers. Easements across lots shall be provided for sanitary sewers where they are required in accordance with standards of the Bristol Water Pollution Control. The easement width shall be twenty (20) feet.
- (b) Drainage Easements. Easements to maintain underground drainage facilities on private land shall be dedicated to the Town where required. The nominal width for a drainage easement shall be twenty (20) feet. Easements into and upon above ground drainage facilities such as stormwater detention or retention basins shall be granted to the Town wherever stormwater from Town-owned streets or other improvements is intended to be directed to such basins.

- (c) **Bicycle or Pedestrian Access Easements.** Bicycle and pedestrian access shall be provided where required on a separate strip of land dedicated to the Town or on an easement having a minimum width of eight (8) feet or as determined by the Planning Board.
- (d) **Buffer Easement.** Vegetated buffers shall be planted and maintained where required to avoid adverse impacts from adjacent uses. The width of such buffer easement shall be determined by the Board (or TRC as the case may be). The applicant shall propose plantings within the buffer as well as a maintenance plan which shall be reviewed by the Bristol Conservation Commission and approved by the Planning Board or TRC. The maintenance plan shall include a provision whereby failure to maintain the buffer will result in maintenance by the Town at the owner's expense. The buffer easement may be bounded as determined by the Planning Board or TRC by either a stone wall, split rail fence or other similar treatment in order to demarcate the easement area.
- (e) **Other Easements.** All other required easements shall be of sufficient width and area for the intended purpose. All utility easements shall be a minimum width of fifteen (15) feet, and in compliance with the utility company requirements.

D. Permanent Monuments.

Permanent monuments shall be granite which shall be thirty (30) inches in length and a minimum of four (4) inches square in cross-section. A drill hole one-half (1/2) inch in diameter and three - quarters (3/4) of an inch deep shall be placed and centered on the top surface of the monument. All monuments shall be set flush with the finished grade.

E. Curbs.

Vertical concrete or granite curbs are required in streets within industrial subdivisions and will be required by the Planning Board in other subdivisions where deemed necessary to control surface water and drainage or where it may connect with existing curbing. If determined appropriate, the Planning Board may allow rolled curbing or asphalt berm. The use, type, and location of curbing should be appropriate for anticipated vehicular and pedestrian traffic, sight lines, slope, and stormwater management system design.

F. Sidewalks.

- (1) Sidewalks shall be required to be installed on one side of new streets in subdivisions and in multifamily developments. Sidewalks may be required to be installed on both sides of new streets if the Planning Board finds the following:
 - (a) The subdivision is located in reasonable proximity to major public or private facilities such as churches, shopping areas, playgrounds, etc. where there is a reasonable likelihood that pedestrian traffic to/from/within the proposed subdivision would result; or
 - (b) The subdivision is located within an area with high vehicular traffic volumes and where there would be a likelihood of significant danger to pedestrians.
- (2) In commercial developments, there shall be at least one clearly designated pedestrian route between the street, the parking area and the main entrance of the building.
- (3) Sidewalks may be required to be installed as off-site improvements in accordance with the provisions of Subsection M of this Section.

G. Bicycle Paths.

- (1) Bicycle paths shall be incorporated into the proposed subdivision or land development where the Planning Board finds it necessary to extend an existing bicycle path; to intersect with State bicycle facilities; or, where nearby public or private schools, recreation areas, or other similar facilities are likely to generate bicycle traffic.
- (2) Bicycle racks or spaces racks shall be provided as required.

H. Access to the Water.

- (1) Where a deeded, recorded, right-of-way to the water exists within the subject property, the Planning Board shall require public access consistent with safe pedestrian and/or vehicular passage. The Board may require that the access may be appropriately signed and maintained so that the right-of-way is known and accessible.

- (2) New pedestrian paths to the water shall be incorporated into the proposed development where required by the Planning Board in order to provide access to the water for the future residents of the development.
- (3) Pedestrian paths shall be improved to the satisfaction of the Planning Board in accordance with any applicable requirements of the Rhode Island Coastal Resources Management Council.

I. Drainage.

- (1) The drainage system may be comprised of natural and man-made elements, including grassed swales, curbs, catch basins, culverts, and stormwater pipes. The applicant is encouraged to minimize the use of retention and detention basins and incorporate natural low impact design (LID) elements into the drainage design whenever possible using the Best Management Practices (BMP's) and standards of the State of Rhode Island Stormwater Design and Installation Standards Manual (RI Stormwater Manual). BMP's such as grassed swales and vegetated filter strips not only collect and transport stormwater, but also mitigate pollution; reduce sedimentation; provide visual aesthetics, recreational opportunities, and potential wildlife habitat. Drainage structures shall be in conformance with the accepted State RIDOT standards, or approved equals. The stormwater management plan should emphasize infiltration and the low impact design, and how the selected management techniques will be operated and maintained during and after construction.
- (2) A Drainage Report with a detailed narrative description of the existing conditions and the proposed drainage system along with the drainage calculations will be submitted as supporting documentation. This report will contain a site Locus Map, a graphic depicting the site soils based on National Resources Conservation Service Soil Survey data, Floodplain information as indicated on the Town of Bristol Flood Insurance Rate Maps (FIRM), and existing and proposed drainage watershed areas clearly indicating all sub-watersheds with the time of concentration flow lines. The drainage plan and drainage calculations shall also contain the following information:
 - (a) The proposed drainage system shall be designed in accordance with RI Stormwater Manual Standards to accommodate stormwater such that 24 hour detention is provided for the one (1) year storm event, and post- construction conditions do not result in peak run-off increases in rate from pre-construction conditions for the ten (10), and one-hundred (100) year storm events.

- (b) For developments located within the watersheds of Mt. Hope Bay and the Kickemuit River, which have approved Total Maximum Daily Load (TMDL) plans for impaired waterbodies, stormwater management BMP's shall include those infiltration and filtering practices that have been found to have higher bacteria removal rates as described in the RI Stormwater Manual.
- (c) An estimate of the quantity of stormwater surface run-off presently flowing from the land proposed to be subdivided, and that which would be generated by the proposed subdivision, calculated on the basis of the two (2), ten (10), twenty-five (25), and one-hundred (100) year frequency, 24 hour, Type III, rainfall events.
- (d) An estimate of the quantity of storm water surface run-off entering the subdivision naturally from upstream areas within the watershed under present conditions, calculated on the basis of the two (2), ten (10), twenty-five (25) and one-hundred (100) year frequency 24 hour, Type III, rainfall events.
- (e) To the maximum extent practicable as agreed upon by the Planning Board Engineer and the applicant's engineer, any increase in storm runoff volume, up to and including the 10-year storm event, shall be retained and recharged on site as close as feasible to its place of origin by means of detention ponds or basins, seepage areas, subsurface drains, porous paving, or similar low impact design techniques. This shall be required within the Tanyard Brook and Silver Creek watersheds and encouraged to the extent practicable in other areas of Bristol.
- (f) An analysis of the capability of existing watercourses, storm sewers, culverts and other drainage facilities within the land proposed to be subdivided to handle the run-off as calculated under 1 and 2 above, and proposals to handle such surface run-off. Design criteria for drainage improvements shall conform to the State Specifications cited above as may be modified by the Town of Bristol. Culvert and storm sewers shall be designed as follows: pipe sizing for the twenty-five (25) year frequency rainfall; cross culvert sizing for fifty (50) year frequency rainfall, [one-hundred (100) year frequency in a special flood hazard zone].
- (g) Proposals for disposal of surface run-off, downstream from the subdivision without damage to land and improvements or to the receiving water body. The drainage report shall specifically address

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downstream impacts resulting from the proposed drainage system (outlet structure and emergency spillway, etc.).

- (h) The drainage plan and narrative shall further indicate how the following specific requirements will be met:
- i. That each lot will be adequately drained;
 - ii. That natural drainage patterns will be maintained whenever possible;
 - iii. That all existing watercourses will be left open, unless approval to enclose is granted by the Planning Board;
 - iv. That all new open watercourses will be seeded, sodded or paved depending on grades and soil types; and,
 - v. That a continuous drainage system will be installed and connected to a natural or manmade water course or to an existing piped storm drainage system. The ultimate destination of such continuous drainage shall be a permanent natural body of water or wetland. Where the Planning Board Engineer determines that such ultimate destination is impractical, the Board shall require the construction of a retention or detention area capable of accommodating proposed stormwater volumes based on the two (2) year, ten (10) year, twenty-five (25) year, and one-hundred (100) year frequency rainfall events.
- (i) Where any part of the drainage system is proposed for location outside the public street right-of-way, provisions for future maintenance approved by the Planning Board and Department of Public Works will be provided.
- (j) All necessary easements to off-street watercourses will be obtained by the applicant and approved by the Town Solicitor.
- (k) Where volume velocity of the surface run-off is high, the flow thereof shall be controlled by one of the following: rip-rap, sediment basins, flow spreaders, or other applicable devices and/or techniques as recommended in the RI Stormwater Manual and Rhode Island Soil Erosion and Sediment Control Handbook.

- (l) Whenever a development will increase the burden on downstream drainage facilities or watercourses, the applicant shall make the necessary improvements, to the satisfaction of the Director of the Public Works Department in coordination with the Planning Board Engineer or shall pay a sum of money to the Town to be used for future improvements of such facilities or watercourses. Said sum of money shall be computed on the basis of the projected costs of the anticipated downstream improvement and the proportionate burden contributed by the project.
- (m) An operations and maintenance (O&M) plan detailing preventative maintenance procedures and schedules required to maintain the intended operation and safe condition of all structural best management practices (BMP) in compliance with the Soil Erosion, Runoff and Sediment Control Ordinance, Chapter 29 of the Bristol Town Code. All O&M plans shall include contact information for the party legally responsible for maintaining the proposed BMP's as well as a proposed maintenance agreement between the property owner and the Town, as may be required.
- (n) The drainage plan and calculations shall include the seasonal high ground water table and a calculation on the volume of groundwater displaced by proposed basements which should then be accounted for in the design of the drainage system. In areas where the seasonal high water table and the installation of basements would impact the drainage, the Planning Board may prohibit basements.

J. Utilities. (See Section F.4 of these Regulations for construction standards.)

(1) Sanitary Sewers.

Sanitary sewers shall be required in all subdivisions and land development projects where such sewer service is required in accordance with the procedures and standards set forth by Bristol Sewer Authority as approved by the Planning Board. Sanitary sewers shall generally be located in the center of the street. Also reference Chapter 18 of the Town of Bristol General Ordinances.

(2) Water Service.

Water service shall be provided for each lot in accordance with the requirements of the Bristol County Water Authority. Water lines shall generally be located on the north or east side of the street. Flow test information may be required by the

Planning Board or Planning Board's Engineer in areas with known or suspected water pressure or water volume concerns.

(3) Gas Service.

Gas service shall be provided in all subdivisions and land development projects where such service is available in accordance with the standards set forth by the Bristol and Warren Gas Company. Gas lines shall generally be located on the south or west side (opposite side from water service) of the street.

(4) Communication Lines (Electric, Telephone, and Cable TV).

All new electric, communication (telephone, fire alarm, and cable TV) and street lighting lines shall be installed underground. Communication lines are not required to be placed underground for: minor subdivisions where no street creation is required, where utilities already exist aboveground; providing, however, that any new lines follow the existing aboveground utilities; or, where the Planning Board finds that aboveground utilities are consistent with the character of the existing neighborhood.

(5) Fire Hydrants.

Fire hydrants shall be installed in subdivisions and developments as specified by the Town of Bristol Fire Chief.

K. Landscaping Standards.

(1) Landscaping shall be provided as part of a development or subdivision design. It shall be conceived in a total pattern throughout the site, integrating the various elements of a site design, preserving and enhancing the site where appropriate. Landscaping and vegetative buffers shall be utilized to separate residential areas from major roadways, commercial and manufacturing areas. The maximum amount of land area which may be required to be landscaped in commercial districts shall be based on the following percentages: LB - 40%; D - 5%; W - 15%; GB - 30%; and, M - 20%.

(2) Landscaping includes plant materials such as trees, shrubs, ground covers, grass, and flowers, and may also include other materials such as rocks, berms, woodlands, stone walls, and planters.

(3) Plant species. The plant species selected should be hardy for Zone 6 and appropriate in terms of function and size. Plant species which have minimal requirements for watering and fertilization are preferred.

(4) Areas which require landscaping shall include, but are not necessarily limited to, the following:

- Drainage facilities, such as retention/detention basins, or drainage swales;
- Entrance features;
- Open Space areas;
- Proposed recreation facilities;
- Buffer areas;
- Parking area;
- Rubbish disposal areas, (as screening);
- Lot areas which are disturbed during the construction process or where extensive grading removes a significant amount of natural vegetation;
- Areas subject to regrading or stabilization for soil erosion and sediment control purposes.

Landscape plan. A landscape plan, prepared by a registered landscape architect, shall be submitted to the Planning Board or Technical Review Committee (TRC) when it is determined that (a) existing landscaping is insufficient; (b) the site of the proposed development has been disturbed so as to require significant new vegetation; or (c) additional landscaping is necessary to preserve, or enhance significant visual characteristics of the site. If a landscape plan is required, the applicant shall be advised of this requirement at the preliminary review stage of a minor subdivision, at the master plan stage of a major subdivision, and at the pre-application stage of a development plan or at the first stage of review if there is no pre-application. A submitted landscape plan may be referred to Conservation Commission or other designated review body for review and recommendations on the plan subject to the approval of the Planning Board or TRC. Any fees for outside review shall be paid by the applicant pursuant to Section 7.5 of these regulations.

At a minimum, the plan shall identify the following:

- existing shrubs and ground covers with a notation as to plantings which are large for their species, rare to the area or of other special horticultural or landscape value;
- Proposed plantings shown at five (5) year growth;
- the results of any soil testing for tree species selection;
- natural features such as stone walls and rock outcroppings;
- man-made elements such as retaining walls, fences, signs, planters,
- proposed grading at two (2) foot intervals;
- lighting;

- specifications for loaming, fertilizing and seeding;
 - the location of all proposed landscaping and construction details as necessary;
 - a planting schedule to indicate proposed planting by species, size at time of planting, and maintenance requirements; and,
 - where existing plantings are to be retained, the plan shall indicate proposed methods of protecting them during construction.
- (6) Upon completion of all required plantings, a letter prepared and signed by a registered landscape architect shall be submitted to the Administrative Officer certifying that all landscape / buffer plantings have been properly installed in compliance with the approved landscape plan.
- (7) Topsoil preservation. If the topsoil on a site is suitable for landscaping, then it shall not be removed. To the maximum extent practicable, the developer shall minimize the areas of the site to be regraded or disturbed.
- (8) Removal of debris. All organic material, rubbish, hazardous materials or debris shall be removed from the site upon completion of construction within the development. Disposal of cleared, grubbed and stripped materials (including roots, stumps, brush, and foliage) shall be the responsibility of the developer and shall not occur in the area of the development reserved for open space, streets or driveways.
- (9) Protection of existing plantings and site features. It is the goal of the Planning Board to protect and preserve healthy trees and other plant specimens which are large for their species, rare to the area or of special horticultural or landscape value. Applicants are encouraged to incorporate these natural features into the design of the development; trees and other plant specimens protected may be used to fulfill the landscaping requirements.
- (a) Plantings. No material or temporary soil deposit or excavation shall occur within four (4) feet of shrubs or within two (2) feet of the drip line of shrubs or trees designated on the landscape plan to be retained. Protective barriers are to be installed around each plant and/or group of plants that are to remain on the site. Barriers shall be free-standing and self-supporting. Unless otherwise approved, they shall be a minimum of four (4) feet in height and constructed of a durable material that will last until construction is completed. Snow fences and silt fences are example of acceptable barriers.

(b) Site features. Existing stone walls shall be retained to the maximum extent possible. Where a development would require relocation of a stone wall, it shall be re-built along an existing property line whenever possible or in an approved location elsewhere on the site. A re-built stone wall shall have the original characteristics of height and width and be at least the same length of the original wall.

L. Erosion and Sediment Control.

All development projects shall comply with Minimum Standard 10 of the RI Stormwater Manual and the plan requirements and performance principals of the Soil Erosion, Runoff and Sediment Control Ordinance, Chapter 29 of the Bristol Town Code as they relate to erosion and sediment control.

M. Off-Site Improvements.

(1) Purpose.

This section is intended to ensure that applicant provides off-site infrastructure improvements in order to mitigate the impacts which are directly or indirectly attributable to the new development. Such improvements may be required by the Planning Board if it finds that there is a reasonable relationship between the requested improvement and the proposed new development. Off-site improvements may include but are not limited to improvements to the following:

- (a) sanitary sewers;
- (b) water supply systems;
- (c) roadways;
- (d) sidewalks;
- (e) bicycle paths;
- (f) drainage systems;
- (g) Street trees; and,
- (h) other utility infrastructure systems.

(2) General Conditions..

As a condition of final approval, the Planning Board may require an applicant to construct reasonable and necessary improvements located off the proposed land being subdivided. Necessary improvements are those clearly and substantially related to the subdivision of land development being proposed. All required off-site improvements must reflect the character defined for that neighborhood by the Comprehensive Plan.

N. Temporary Improvements.

- (1) All temporary improvements shall be presented on the preliminary plan submission, but may be requested by the Technical Review Committee during master plan review for major land development or subdivision.
- (2) The nature, purpose, design and construction of the temporary improvements are to be detailed as required by the Committee or the full Board. The design and method of restoration will likewise be detailed. The maintenance of the restored area shall also be specified and guaranteed under the provisions of Section 6.4 of these regulations.

O. Engineering and Land Survey.

Wherever it is mandated by these Regulations that certain tasks associated with subdivision plans and improvements be performed by registered professional engineers and/or registered land surveyors, all such tasks shall be performed according to existing and amended standards of the State of Rhode Island and Providence Plantations Board of Registration for Professional Engineers and Board of Registration for Land Surveyors.

F.3 GENERAL CONSTRUCTION STANDARDS.

A. Construction Plans.

Two (2) complete sets of all construction plans, profiles, cross-sections and other working drawings of required construction improvements, and one (1) electronic AutoCAD file of each shall be submitted to and approved by the Planning Board Engineer prior to any construction. One (1) set, with approval indicated thereon, shall be returned to the developer. In addition, a construction sequence schedule shall also be submitted for approval of the Planning Board Engineer.

B. Notification.

- (1) A pre-construction meeting shall be held with the Planning Board Engineer at least seven (7) days prior to the start of any subdivision or development improvements. The developer, or his representative, and the on-site project manager shall attend this meeting.
- (2) No step in the construction of required improvements shall commence until the Planning Board Engineer has been notified, in writing, at least forty-eight (48) hours in advance of the beginning of that step.

C. Inspection of Improvements.

- (1) Each phase or step in the construction of required improvements shall be inspected on-site and approved, in writing (including date of inspection and signature of authorized inspector), on the job by the Planning Board Engineer or his representative. Any stage of construction begun without written consent of the Planning Board Engineer shall be at the developer's risk. No subsequent phase or step shall commence until such inspection and approval has been completed. No performance guarantee be released unless all inspections have been made in accordance with this section. As a minimum, the developer shall provide for on-site inspection at the following stages in the construction of improvements:
- (a) During installation of all underground drainage and following installation of utilities, prior to backfilling. In addition, the Bristol Warren Gas Company, Bristol County Water Authority and the Bristol Sewer Authority, as appropriate, shall conduct on-site inspections during installation of utilities.
 - (b) During preparation of the sub-base, backfilling and the installation of curbing or shoulders, prior to application of the base course.
 - (c) During spreading and compaction of the base course, prior to the application of the penetration coat.
 - (d) Immediately prior to and during the application and compaction of the surface course on the roadway and sidewalks.
 - (e) During completion of all improvements and installation of monuments.
 - (f) Additional inspections may be required by the Planning Board Engineer at such other intervals as deemed necessary to assure proper construction of improvements.
 - (g) The Planning Board Engineer, upon proper notification, shall not impede the construction of improvements by delaying inspection and approval without just cause.

D. Record (As-Built) Drawings.

Within 60 days of completion of construction of all required improvements, the developer shall furnish five (5) sets of "as-built drawings" and one (1) compact disk (CD) with the AutoCAD drawing files (or other GIS compatible file type with the approval of the

Administrative Officer) of such improvements to the Administrative Officer. Upon receipt of same, the Administrative Officer shall refer a set of drawings to the Planning Board Engineer, Department of Public Works, Water Pollution Control Facility, Building Official and retain one set for the file. As-built drawings shall contain all of the information on the final plan and set forth: the exact location of all sidewalks, streets, monuments, water, sewer, gas and drainage pipes, other underground or aboveground utilities and all other public improvements, as installed.

As-built infrastructure plans will be submitted to the Town following construction and acceptance on Mylar as well as on CAD format for entry into the Town's GIS data base. The Town maintains a CAD data base for its own use in mapping and planning future work. The CAD drawings may be electronic copies without the developer's engineer's seal or identifying information. The Mylar set must be stamped by the developer's engineer as approved as-builts. The developer's engineer shall coordinate with the Administrative Officer for CAD formatting.

E. Reference for Specifications.

Should any clarification be required on the construction specifications contained herein, reference is hereby made to the "Standard Specifications for Road and Bridge Construction," published by the State Board of Rhode Island, Department of Public Works, Division of Roads and Bridges, as revised. In general all construction shall be in conformance with the Rhode Island Department of Transportation (RIDOT), Division of Public Works, Standard Details, as revised and State of Rhode Island and Providence Plantations, Department of Transportation, Division of Public Works, Standard Specifications for Road and Bridge Construction, as revised.

F. Testing.

The Planning Board Engineer may require any or all of the following tests to be conducted during the course of the project review, the cost of which shall be paid by the applicant: compaction, sieve analysis of materials, and/or wet season groundwater determination.

F.4 STREET CONSTRUCTION STANDARDS

A. Dimensions.

All streets constructed within subdivisions and developments shall conform to the standards listed in Table 1 and to the cross section shown in Figure 1 unless such requirements are modified by the Planning Board.

B. Materials.

In areas where pervious paving surfaces may be proposed as a stormwater management technique, the Planning Board may allow the use of gravel, concrete pavers, porous asphalt, pervious concrete or other material as approved by the Planning Board Engineer and the Director of Public Works.

C. Clearing and Grubbing.

The entire roadway and sidewalk area, as shown on the approved plat, shall be cleared and grubbed. All root systems, trees, stumps, bushes and other objectionable material shall be removed and transported away from the subdivision. Healthy trees within the right-of-way may provide many benefits including runoff reduction, traffic calming, habitat, shade, and improved aesthetics. Therefore, the Planning Board with concurrence from the Planning Board Engineer may require the preservation of trees within the right-of-way.

D. Earth Excavation.

Earth excavation shall include, but not be limited to, the removal of clay, sand, gravel, loam, soft or disintegrated rock which can be removed without blasting, boulders of less than one (1) cubic yard in volume (one-half (1/2) cubic yard in all trenches) and other unacceptable materials within the limits of the roadway, drainage or other excavation. This item of work shall also include the backfilling of all stump holes and other surface irregularities with suitable fill materials. All excavations shall be to a depth and cross section as shown on the approved plans, profiles and cross-section drawings.

E. Rock and Ledge Excavation.

Rock and ledge excavation shall include removal and disposal of all boulders one (1) cubic yard or more in volume (one-half (1/2) cubic yard in all trenches) and all hard ledge rock which can be removed only by drilling and splitting by hand, by mechanical means or by blasting. Such excavation shall be to a depth of at least twenty-four (24) inches below the finished surface of the road in residential subdivisions (twenty-seven (27) inches in industrial subdivisions) and where applicable, ledge side slopes shall not be greater than four (4) feet vertical to one (1) horizontal.

F. Sub-Surface Water.

Where free water is encountered within three (3) feet of finished grade, adequate drainage shall be constructed at a depth of at least four (4) feet below finished grade.

G. Utility Connections at Lot Boundaries.

All new streets shall have an undisturbed finished surface course for acceptance by the Town. All underground utilities shall be brought to the property line of each lot before the binder course is installed in order to provide for utility connections without disturbing the finished surface course. If, due to an emergency, road cuts are necessary in the surface course prior to acceptance by the Town, the Administrative Officer shall be notified within 24 hours of the cut. Cuts shall be sealed using infrared seal in accordance with the RIDOT standards.

H. Residential Street Construction.

The developer shall, at all times during construction, maintain the subdivision roads in passable condition and shall take appropriate measures to eliminate the creation of a dust nuisance during construction.

- (1) Materials. All materials shall meet the requirements of the Rhode Island Standard Specifications for Road and Bridge Construction, latest revision; or, be of a quality acceptable to the Planning Board Engineer.
 - (a) Base Course - This shall consist of twelve (12) inches of bank run gravel which meets the requirements of Section M.01.02 as cited in the Rhode Island Standards Specifications for Road and Bridge Construction, latest revision; or, is of a quality acceptable to the Planning Board Engineer.
 - (b) Binder Course - This shall consist of an application of asphaltic concrete pavement (Hot Mix) Class "I," Type "I-1."
 - (c) Surface Course - This shall consist of asphaltic concrete pavement (Hot Mix) Class "I," Type "I-1. In order to maintain the scenic character of the Town, the Planning Board may require that a pea stone surface be rolled into the surface course while the surface is still hot.
 - (d) Curbs - Where deemed necessary by the Planning Board, curbs shall be installed. Unless otherwise approved, such curbs shall be precast concrete, installed to RIDOT specifications (R.I. Standard 7.1.0), or granite (installed to R.I. Standard 7.3.0) and shall be installed at the edge of the street pavement in accordance with approved cross section. Curbs shall be required where sidewalks would be located within four (4) feet of the street pavement.
- (2) Construction Method. Construction methods shall conform to the requirements of the "Rhode Island Standard Specifications for Road and Bridge Construction",

Sections 300 and 400, latest revision or as may be acceptable to the Planning Board Engineer.

- (a) Preparation of Sub-base - All underground sewer and water lines, utilities, laterals, service lines and related facilities shall be installed prior to any street construction. Following filling and compaction of all utility trenches, the sub-base shall be thoroughly compacted with a ten-ton roller or its equivalent, true to the lines, grades and cross sections shown on the approved drawings. All soft spots shall be excavated to firm material and brought to subgrade with gravel or other approved material. The Planning Board Engineer may require up to thirty (30) days before the base course is spread. The sub-base shall be swept or otherwise cleaned of all mud, loose and foreign material and shall be thoroughly dry before the base course is spread.
- (b) Berms, Curbs - "Cape Cod" berms constructed as shown in Figure 1 are preferred. If required by the Planning Board, the edge of the wearing surface course shall be held to line and grade by the installation of granite or concrete curbs. At all street intersections, berms, curbs, returns or shoulders shall have a radius of at least fifteen (15) feet.
- (c) Base Course - After the sub-base has been properly prepared and the berms, curbs or shoulders set, the base course of bank run gravel shall be spread for the full width and in such volume as to provide a twelve-inch cross section after compaction with a ten-ton roller or the equivalent; or, as required by the Planning Board Engineer.
- (d) Binder Course, if required - The binder course shall be applied and compacted as follows; or, as required by the Planning Board Engineer:
 - (i) Application - The pavement shall be applied at a sufficiently hot temperature by means of an approved paving spreader with a compactor. Such material shall be placed in sufficient quantity to provide a minimum compacted cross section as shown in Figure 1, (including berms, if applicable).
 - (ii) Compaction - At a suitable time after placement, the binder course shall be compacted to a thickness of two and one half inches (2½") with a ten-ton roller equipped with a sprinkler system to wet the wheels. The finished surface shall have a density of no less than ninety-two (92) percent of a voidless pavement composed of the same materials in like proportion.

Upon completion of the application and compaction of the surface course, the street shall be allowed to stand for a minimum of eight (8) hours without traffic.

- (iii) Drainage - All drainage structures must be working when the binder course is applied.
- (e) Surface Course - The binder course shall be allowed to stand at least eleven (11) months before application of the surface course. In addition, the surface course shall be applied not less than six (6) months following the backfilling and compaction of all utility trenches, unless a shorter time period is permitted by the Planning Board Engineer.
 - (i) Preparation - The binder course shall be swept clean of all sand and debris, protrusions shall be removed and any holes, ripples or unevenness in the surface shall be brought back to true line and cross section by the spot application and proper compaction of Class "I" mix.
 - (ii) Application - Same as Binder Course.
 - (iii) Compaction - Same methods as Binder Course, but to a thickness of one and one half inches (1½").
- (f) Shoulders - Loam shall be spread for the full width and in such volume so as to provide a four (4) inch cross section after compaction. Sidewalks, if required, shall be installed as per Figure 1.
 - (i) Traffic Limitations. Traffic passing over constructed streets shall be limited to wheeled vehicles and no tracked equipment shall be permitted.
 - (ii) Seasonal Limits. No bituminous material shall be laid over frost or over frozen material or during other unfavorable weather conditions as may be determined by the Planning Board Engineer.

I. Sidewalks.

Sidewalks shall be installed within the street right of way at the property line, unless otherwise specified by the Planning Board. Such sidewalks shall be five (5) feet in width. All sidewalks shall be constructed of concrete per RIDOT

specifications (R.I. Standard 43.1.0). The planning board may allow the installation of bituminous sidewalks (constructed to R.I. Standard 43.2.0) if site specific conditions and anticipated pedestrian usage so warrant. Where sidewalks are installed adjacent to or within four (4) feet of the paved street, curbs shall be installed per Section F.4H(1)(d) of these regulations. Where required, curb ramps shall be constructed in compliance with the standards of the Americans with Disabilities Act. The Planning Board may also permit the use of alternative sidewalk materials if necessary as part of an overall impervious reduction and stormwater runoff mitigation strategy.

J. Industrial Street Construction.

- (1) Materials. See "Residential Street Construction".
 - (a) Foundation - See "Residential Street Construction".
 - (b) Base Course - See "Residential Street Construction". As an alternate, a plant mix bituminous-base course may be installed.
 - (c) Surface Course - This shall consist of asphalt concrete pavement (hot mix) Class "I," Type "I-1" with a binder course and a surface course.
- (2) General Conditions. See "Residential Street Construction."
- (3) Construction Method.
 - (a) Preparation of Sub-base - See "Residential Street Construction."
 - (b) Foundation course - After the sub-base has been properly prepared, the foundation course of bank run gravel shall be spread for the full width of the roadway and in such volume as to provide a twelve-inch cross section after compaction with a ten-ton roller or equivalent.
 - (c) Curbs - Curbs shall be installed using RI Standard No. 19 concrete curb or RI Standard No. 35A granite curb.
 - (d) Base Course - An application of six (6) inches, compacted, of plant mix bituminous base course material. Compaction shall be with a ten-ton roller or equivalent.
 - (e) Surface Course - The surface course shall consist of three (3) inches of asphaltic concrete pavement (hot mix), Class "I," Type "I-1" consisting of

one and one-half (1.5) inches of binder course and one and one-half (1.5) inches of surface course, placed as follows:

- (i) Reference is made to "Residential Street Construction" relating to timing and to the preparation of the base surface.
 - (ii) Placement - The asphaltic concrete pavement (hot mix), Class "I," Type "I-1" shall be applied at a temperature of two hundred fifty (250) to three hundred fifty (350) degrees Fahrenheit, by means of an approved paving spreader with a compactor. Such material shall be placed in sufficient quantity to provide a minimum compacted cross section layer of one and one-half (1.5) inches of binder and a second layer of one and one-half (1.5) inches of surface course.
 - (iii) Compaction - See "Residential Street Construction."
 - (iv) Traffic Limitation. See "Residential Street Construction."
 - (v) Seasonal Limits. See "Residential Street Construction."
- (f) Striping. The centerline of industrial streets shall be striped.

F.5 SURFACE AND SUBSURFACE STORM DRAINAGE STRUCTURES AND FACILITIES CONSTRUCTION STANDARDS

A. Earthwork and Drainage.

- (1) All necessary surface and subsurface storm drainage structures and facilities shall conform to the following sections of the "Standard Specifications for Road and Bridge Construction," published by the State of Rhode Island, Department of Public Works, Division of Roads and Bridges for Earthwork (structure excavation and backfill; trimming and fine grading; and trench excavation) and Drainage (culverts and storm drains; manholes, inlets and catch basins; underdrains; and paved waterways).
- (2) Such standard specifications may be modified at the discretion of the Planning Board Engineer with the written approval of the Planning Board.

B. Catch Basins.

All catch basins shall be deep sump catch basins designed to meet the pretreatment practices outlined in the RI Stormwater Manual. Each catch basin should be designed to properly

accept all storm runoff from a contributing drainage area not exceeding 0.5 acres of impervious cover. Catch basins should be designed in a catch basin to manhole system rather than a catch basin to catch basin configuration.

C. Oil Separator.

Any catch basin which drains into a seepage system or any detention or retention basin shall have a properly designed oil separator.

D. Minimum Cover.

All subsurface storm drainage structures and facilities within street rights-of-way shall have a minimum cover of three (3) feet unless approved by the Planning Board Engineer. Where three (3) feet of cover is not feasible, the Planning Board Engineer may require the use of reinforced-concrete pipe, ductile-iron pipe, or a suitable equal. All drainage structures and facilities shall be inspected and approved by the Planning Board Engineer before covering.

E. Setting of Backfill.

All subsurface facilities within street rights-of-way shall be installed and the backfill installed in six (6) inch lifts and compacted to a minimum ninety-five (95) percent compaction test.

F. Stormwater Basins.

- (1) Natural elements, such as swales and vegetated filter strips, are encouraged and shall be incorporated into the drainage design in accordance with the standards of the State of Rhode Island Stormwater Design and Installation Standards Manual. However, where retention and detention basins are deemed necessary they shall be designed to conform to the requirements of the RI Stormwater Manual. Where the requirements of the Town of Bristol are more stringent, the design shall conform to the requirements of the Town.
- (2) Basins shall be designed in such a manner as to minimize their nuisance, visual, and social impacts and to allow their successful integration into residential neighborhoods. In addition to drainage and construction standards, basins, swales and their related structures will be evaluated regarding safety, environmental, aesthetic, and social impacts. In order to achieve that goal, basins shall meet the following criteria:
 - (a) Basins shall be graded in a naturalistic and curvilinear manner and shall be integrated into the existing contours of the site. Where feasible, basin side slopes should not exceed 5 to 1 slope in residential developments, but

shall not exceed a 3 to 1 slope. In commercial and industrial developments, basin side slopes shall not exceed a 3 to 1 slope. Basin bottoms shall be flat except for minimal grade required for complete drainage. No basins will be approved that are rectangular or square and no wet pool depths shall exceed 3 feet at maximum capacity.

- (b) Wet detention basins shall be designed so that the average water depth does not exceed one (1) foot. In order to evaluate the possible water holding capacity, adequate soil testing data shall be submitted to the Planning Board Engineer.
- (c) The use of riprap shall be minimized. No dumped riprap will be allowed. All riprap shall be placed and shall conform strictly to RIDOT 917.03.3.
- (d) The entire area of the basin shall be planted in such a manner as to integrate the new basin into the surrounding landscape. Plantings shall include a mixture of aquatic, emergent, and upland wetland plant species. Planting plans shall be provided which indicate: genus and species, size, quantity, and method of planting. Basins which are designed to retain water shall be planted with appropriate wetland vegetation below the normal water line. The plantings shall not be planned to obstruct views of the basin in such a manner as to create a public hazard. Planting plans will be evaluated for their use of native materials, maintenance requirements, visual quality, and appropriateness for wildlife.
- (e) Each basin shall be provided with a detailed maintenance plan. The plan shall address: periodic inspections, sediment removal, vegetation maintenance, mowing requirements, and any other information required by the Planning Board. Basins located on private property shall be maintained by the property owner. Such maintenance shall include trash removal, appropriate maintenance of vegetation, and any other maintenance required by the approved maintenance plan.
- (f) If the basin is located on private property, the Town shall be granted an easement, subject to its approval, which will allow Town entry, maintenance, repair, and removal of inappropriate owner improvements. The access area shall be designed and constructed in such a manner so as to provide adequate access for equipment and vehicles in all weather. The access shall be marked and planted in an appropriate manner.

APPENDIX G
METACOM AVENUE OVERLAY ZONE
AND METACOM MIXED USE ZONE
DESIGN GUIDELINES

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APPENDIX G

METACOM AVENUE OVERLAY ZONE AND METACOM MIXED USE ZONE DESIGN GUIDELINES

Part 1: Context

Overview

The visual character of Metacom Avenue is a mix of small, medium and large scale landscape character. The small-scale character, predominantly single family residences, small open spaces and remnants of agricultural uses, actually occupies the greatest land area. The distribution and contrasting larger scale commercial and industrial areas gives the sense of a mix of more intensive uses and a built environment in transition. Traffic- volume and regular congestion from both local and through traffic is a major aspect of any description of the Metacom Avenue corridor. The residential character is very important to the community but so are the commercial and industrial uses. The Comprehensive Plan, zoning and guidelines have been developed in an effort to reconcile the conflicts, enhance and strengthen the character of the Metacom Avenue neighborhoods and set the stage for the future.

Intent of Design Guidelines

1. Regulate development of the corridor so that Metacom Avenue is a spine or roadway through landscape character areas and does not define edges of landscape character.
2. *Smaller scale character*: Clearly define areas of smaller scale character in longer stretches and on both sides of Metacom Avenue. This may be predominantly single family but can also include denser residential use and other compatible uses with development of the appropriate scale.
3. *Larger scale character*: Concentrate mid to larger scale character where the buildings and site design has a character and sense of place of its own. These mixed use zones should be in the Tupelo, Gooding and Juniper Hill areas.
4. *Open Space /Historic*: Minimize disturbance of natural, cultural and historic resources.
5. *Vehicular Traffic*:
 - a. Develop a limited number of well-designed major intersections that manage volume, turning movements and key connections.
 - b. Reduce the number of side street to Metacom intersections with the expansion of north-south connections to major intersections.
 - c. Reduce the number of driveways and curb cuts.
 - d. Develop alternate north south routes to avoid local use of Metacom Avenue.

6. *Pedestrians*: Make the Metacom Avenue corridor a safe and friendly pedestrian environment with convenient sidewalks and site design for walkable communities and business development.
7. *Bicycles*: Make the Metacom Avenue corridor safe and convenient for bicycle travel.
8. *Architectural character*: Make development and buildings contribute to the immediate and overall character of their environments.

Part 2: Site Design and Layout

Intent

Sites shall be designed to function efficiently and with safe, clear vehicular and pedestrian circulation. Major objectives shall be to minimize traffic congestion on Metacom Avenue and coordinate the uses of compatible adjacent properties.

Guidelines

2.1 Driveways:

- a. To the extent possible, driveways shall be shared for combined access and a reduction in driveways.
- b. In residential zones, new single or double unit houses with frontage on Metacom Avenue shall access Metacom via a side road or easement to a side road wherever possible.
- c. The maximum width for a new driveway including entrance and exit lanes and island shall be 42 feet. A travel lane shall be a minimum of 10 feet and a maximum of 15 feet wide with a minimum six (6) foot wide planted island between.

2.2 Alternate Access/Egress

- a. Any development in a residential zone, or property that is over 100,000 square feet shall include an access to Metacom Avenue via a side street. This access route shall be direct or by easement through an abutting property.
- b. Any development within the proposed Metacom Mixed Use Zone shall have access to Metacom Avenue via a side street that has an existing signalized intersection or roundabout. This access route shall be direct or by easement through an abutting property.
- c. Access for proposed Metacom Mixed Use Zone or residentially zoned properties over 100,000 square feet shall be via a two-way asphalt paved roadway.

2.3 Shared Parking

- a. Parking lots shall have an access route for shared parking between abutting properties with compatible uses. Access to new development shall be designed for convenient access to an abutters existing lot.

2.4 Setback Exceptions

- a. A building located at a major signalized intersection shall have minimum setback of 40 feet from Metacom Avenue for a length of 100 feet from the intersecting side street to accommodate future roundabouts.
- b. The Metacom Avenue set-back dimension for residential cluster developments shall be a minimum of 200 feet to protect open space character.

2.5 Building Orientation

- a. Buildings fronting on Metacom Avenue shall be aligned in the same orientation to the street as adjacent buildings.

2.6 Retaining Walls

- a. Development shall be sensitive to and incorporate the natural grade of the site. Buildings designed to make grade transitions or stepped retaining walls with landscaping should be used. Retaining walls shall be distributed throughout the site as necessary. Perimeter walls greater than 3 feet high are prohibited without the specific approval of the Planning Board.

2.7 Space between Buildings

- a. The importance of spaces between buildings should be recognized. These spaces should have a planned and useful shape and not simply be left-over spaces.

2.8 Sidewalks

- a. Development fronting Metacom Avenue or any public street shall include sidewalks, even if adjacent properties do not currently have sidewalks. These sidewalks shall be six (6) feet wide and constructed of concrete.
- b. Within the proposed Metacom Mixed Use Zone, there shall be sidewalks connecting the Metacom Avenue sidewalk to the main entrance of the building(s) and convenient sidewalks connecting adjacent parking lots and commercial uses.

2.9 Accessory Buildings

- a. These buildings shall adhere to the same front, side, rear yard setbacks and buffer dimensions as the primary building(s).

2.10 Entrance Plazas

- a. New or renovated nonresidential buildings shall have plazas, courtyards or other pedestrian spaces at or near their main entrances.
- b. These entrance spaces shall have special amenities such as:
 1. Special interest landscaping
 2. Special lighting
 3. Special paving materials, scoring, or texture
 4. Site furnishings such as benches or seating walls
 5. Bollards, bike racks or sculpture

Part 3: Architecture

Intent

New developments shall enhance and strengthen the community and the character of the specific Metacom Avenue neighborhoods whether they be small scale residential or larger scale developments. The developments should be integrated with the surroundings in mass, scale and detailing allowing attractive neighboring architecture to inform the size, shape, style, materials and detailing of new buildings. Contemporary design for new structures, alterations or additions to existing properties however, shall not be discouraged when such design is compatible with the surrounding built environment.

Guidelines

3.1. Building Mass and Scale

- a. Building mass can be defined as the building's volume or bulk and is usually used in reference to larger structures. It is important to breakup the apparent mass and scale of larger structures so that this type of development is integrated with its surroundings and does not detract from scale and sense of place.
- b. Large Format Commercial (LFC) "big box" architecture shall be prohibited. 'Logo' buildings that are incompatible with the character of the neighborhood shall be prohibited.
- c. Any building façade greater than 50 feet long shall be broken down to reduce the visual scale of the building. One or more of the following strategies shall be used.
 1. Volumes and planes can be broken or divided into smaller units.
 2. Rooflines can be varied to break up massing and provide visual interest. This can include variation in roof heights, gables, dormers, a well defined parapet and/or upper stories off sets or changes in materials.
 3. Façades can include vertical or horizontal articulation.

4. Pedestrian scale elements such as arcades, patios, plazas, sidewalks and other pedestrian friendly elements should make comfortable pedestrian environments.

3.2 Heights

Buildings should be designed to step up in height from lower height adjacent to less intensive land uses, especially small-scale residential areas, to the new development.

3.3 Roofs

- a. Roofs shall contribute to attractive proportions and scale of the building.
- b. Sloping roofs shall not exceed the average height of the supporting walls.
- c. The average slope shall be no less than one foot vertical rise for every three feet horizontal run and no greater than one foot of vertical rise for every one foot of horizontal run.
- d. Roof overhangs shall be a minimum of two feet beyond the supporting walls.
- e. Flat roofs shall be embellished with parapets concealing the view of the roof.
- f. The color and materials of the roof shall be consistent with the architectural character of the building and convey a sense of permanence and quality.

3.4 Façades

- a. Ground floor transparency shall provide visual connection between activities inside and outside at the ground floor level of a building. Ground floor transparency shall be calculated in façade areas between 2 and 12 feet above average grade. Vision glass shall be used.
 1. Any building less than 60' from a street shall have ground floor transparency of a minimum of 15 % for any building facade visible from a public street.
 2. In the proposed Metacom Mixed Use Zone, any non-residential building less than 60' from a street shall have ground floor transparency of a minimum of 30 % for any building facade visible from a major street.
- b. To ensure that buildings do not display blank opaque walls, portions of ground floor façades that are not transparent shall have treatments with architectural interest and the character of the development.
- c. *Color*: Façade colors shall be low reflectance, subtle colors typically consistent with Bristol architecture. The use of high intensity, black or fluorescent colors are prohibited.

Accent and trim colors should complement and enhance the effect of the primary color. Bright corporate colors should be limited in use to signage.

- d. Facades of adjacent buildings shall visually respect and respond to each other.

3.5 Entrances

- a. Public entrances shall be easily identified and distinct from the remainder of the building, distinguished through architectural form, such features as canopies, porticos, use of color, material, texture and/or other significant detailing.

3.6 “360 Degree” Design

- a. Buildings shall have well designed façades on all sides. This is considered “360° design”. All sides shall be treated with the same design care, displaying continuity, harmony and aesthetic quality.

3.7 Ancillary Structures

- a. Accessory building areas such as loading docks, service, outside storage and employee areas should be consistent with the overall design of the primary building. All structures on the site and attachments or appendages to approved buildings shall be reviewed and approved in a manner similar to that of the primary structure.
- b. Dimensional variance: The height of accessory structures shall be no greater than 20 feet.

3.8. Service, Loading Areas and Equipment

- a. Trash storage areas, loading areas, mechanical equipment, transformers and similar areas with equipment shall be screened from view and shall not be accessed directly from a public street.
- b. Roof mounted mechanical equipment shall be concealed from view by screening or enclosure in a manner consistent with the architectural character.

Part 4: Lighting

Intent

Lighting systems shall be designed, constructed and installed to control glare and light trespass, minimize obtrusive light, conserve energy and resources while maintaining safety, visibility, and security of individuals and property.

Guidelines

4.1 Outdoor lighting shall have cutoff or full cut off fixtures. Parking, security and aesthetic lighting shall shine downward.

4.2 Spotlights used to illuminate buildings, signs or specific amenities/features shall be located, aimed and shielded so as to minimize light trespass and uplighting.

4.3 The style and placement of exterior accent lighting shall enhance the building's architectural elements, such as the entrances, façade articulation, detail and landscaping.

4.4 Lighting shall be directed where it is needed and only at the intensity necessary to serve its purposes.

4.5 Curfew: All non-essential lighting shall be turned off after business hours leaving only lighting for site security.

4.6 Pole heights: Pedestrian lighting poles shall be a maximum of 12 feet in height.

4.7 Lamp type: Metal Halide lamps are preferred. Low-pressure sodium lamps are prohibited. Incandescent lighting fixtures are acceptable only for single and two family residential uses.

4.8 Output standards:

a. Site lighting:

Zone	Maximum Foot-candle	Average Site Foot-candle	Foot-candle at Property Line*
Residential	0.5	.12	0
LB	5 at entrances	1	0
GB/MMU	5 at entrances	2	0

*The Planning Board may issue approval to exceed these thresholds for projects that include joint development on abutting properties where uses/buildings/site features create a seamless transition between properties.

b. Commercial buildings and wall signs:

1. Light-medium light color surfaces: 5-10 foot-candles
2. Medium-dark color surfaces: 10-15 foot-candles

4.9 Upward search or spot lighting of the sky for entertainment or advertising purposed is prohibited.

4.10 Light used for holiday decorations for no more that 45 days and decorative lights on deciduous trees in dormant condition are exempt from the requirements of this section.

Part 5: Landscaping

Intent

Planting shall be a part of every development for energy conservation, clean air, clean water, attractive surroundings and enhanced real estate values. Attention should be given to incorporating low impact development (LID) techniques for stormwater management that fit into the overall landscaping design (ex. tree pits, pocket parks, bioretention islands, planted buffers).

Guidelines

5.1 Top Soil/ Loam

All lawn, ground cover, shrub and tree planting shall have a minimum depth of 6" loam. Loam from the site or off site location, shall be free of debris and have been sustaining healthy plant growth.

5.2 Street Trees

- a. Metacom Avenue: Large deciduous trees shall be replanted along Metacom Avenue approximately 40 feet on center. They shall be 3-4' inside the sidewalk installed at the property line. Species/cultivars shall be selected from the approved tree list and consider adjacent street trees, mature street shape and size and road salt tolerance. The intent is a continuous canopy of relatively evenly spaced shade trees of similar mature size and shape. Species/cultivar diversity is acceptable.
- b. Avoid planting directly under utility lines.
- c. Minimum size at planting shall be 3-3 1/2" caliper.

5.3 Parking Lots

- a. Shade trees shall be located a minimum of 4' from the face of the closest curb.

5.4 Plant diversity

Plant material should include large shade trees, smaller ornamental trees, shrubs and herbaceous plants and both evergreen and deciduous materials.

Diversity of trees over 1-1/2" caliper:

1. Where there are 50 or more trees planted no more than 30% shall be of the same species.
2. Where there are 25- 49 trees planted, no more than 40% shall be of the same species.
3. Where there are 10 -24 trees planted, no more than 50% shall be of the same species.

5.5 Tree canopy cover

A minimum of 20% of the non- roofed site shall have tree canopy as calculated for parking lots.

5.6 Planted Buffer

Vegetative screening between commercial, industrial and R-6 properties and properties of other residential zones shall be accomplished with dense plantings of species and size such that in a minimum of 5 years after planting the screen shall be continuous and a minimum of 10' high and 10' wide. It is preferred that the buffer planting include trees and shrubs, and both evergreens and dense deciduous materials.

5.7 Maintenance

Plantings shall be watered and maintained as necessary for establishment and growth.

Part 6: Design and Regulation Review Procedures

Intent

Both the developer and the Town expect a fair, logical and efficient submission and evaluation process that will facilitate development in a manner that is responsive to the guidelines and respect the site context and the Town's planning goals. The following amendments to the development application process are intended to assure that the developer provides well thought out designs that are supported with appropriate information and that the Town receives this information in a manner necessary to meet its evaluation and decision making responsibilities.

6.1 Amendments to Submission Requirements

The revised site and building design criteria for development within the Metacom Avenue Overlay Zone or Metacom Mixed Use Zone will require expanded submission requirements.

- a. Plans of Existing Conditions shall extend a minimum of 100 feet into the abutting sites, showing dimensions, easements, rights-of-way and all natural and manmade features.
- b. The site and building plans of the new development shall include elevations of all sides of the proposed building(s) at minimum scale of 1"=16'.
- c. Drawings shall show the relationship of the new development to site and buildings on abutting properties. Drawings shall include plan views at a minimum scale of 1"=40' and building elevations (façades) at a minimum scale of 1"=16'. Elevations shall be represented by photographs or drawings to illustrate the relationship of any new building(s) to buildings on abutting properties. Proposed landscape features shall also be shown in the context of the proposed building.
- d. Landscape plans shall be at a minimum scale of 1"=20'. Features, such as paving, fences, screens, lighting and site furnishings, shall be provided at an appropriate detail scale.

SUGGESTED URBAN STREET TREES IN RHODE ISLAND

There are many lists and selection programs for helping choose the right tree for the right place. *The suggestions listed here do not provide a comprehensive list of all possible tree options and the lists are quite short compared to the actual number of trees within the 3 size ranges.* The trees in the 3 suggestion lists below are based on their ability to better tolerate the stress of growing in highly urban areas, with potentially smaller crown spread, presenting some options which may be more suitable for urban street situations. Where wider streets and/or sidewalks, or residential sites allow room for canopy spread, and there is sufficient root area, there are many other suitable species that can be considered.

When selecting the appropriate species: invasiveness, soil volume, site limitations, root spread, possible conflicts and maintenance regime, as well as nursery availability, must be considered, as does local overuse of a particular species and the local conditions. Remember that even tough trees cannot be expected to survive when neglected or unmanaged, or planted in planting pits. Investing in trees means investing in the size of the growing site, the soils in that growing site and the maintenance and care the trees receive. This will result in a long and significant return on your investment.

Pruning, watering, and other kinds of maintenance are necessary during the life of the tree for full value and impact.

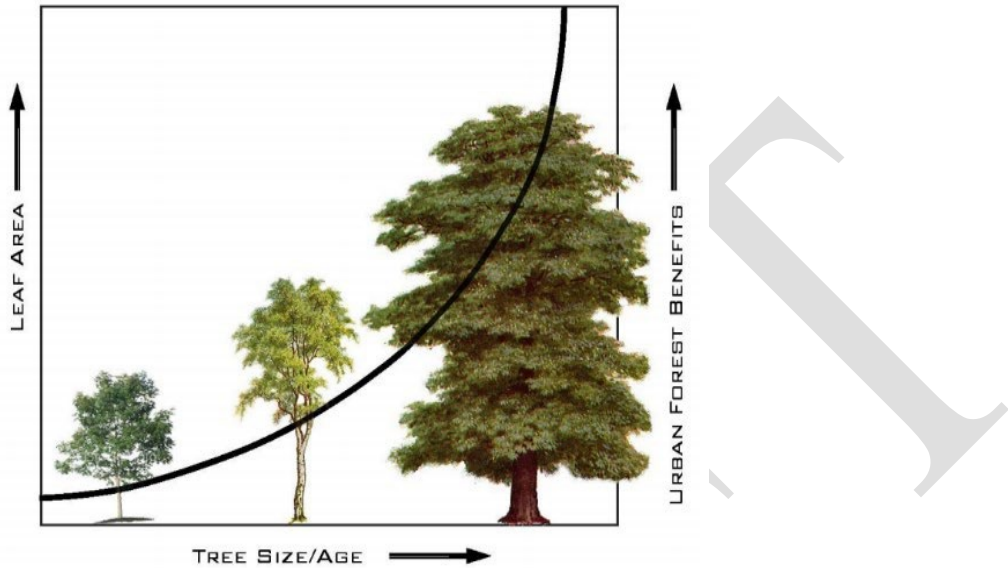
Note for all lists that: 1) heights are typical for natural growing sites, trees in urban sites do not typically reach their full height, even when surviving to maturity; 2) growth rates are typical for natural growing sites, trees in urban sites may not grow as quickly, particularly when under chronic stress for soil volume and water.

TOPPING trees to limit height or to reduce conflicts is NOT acceptable, no matter how inexpensive a solution it may seem at the time. It damages the tree structure and opens it to decay, which ultimately reduces the lifespan and the structural integrity of the tree. PLANT the RIGHT TREE in the RIGHT SPACE and maintain it with proper pruning and maintenance.

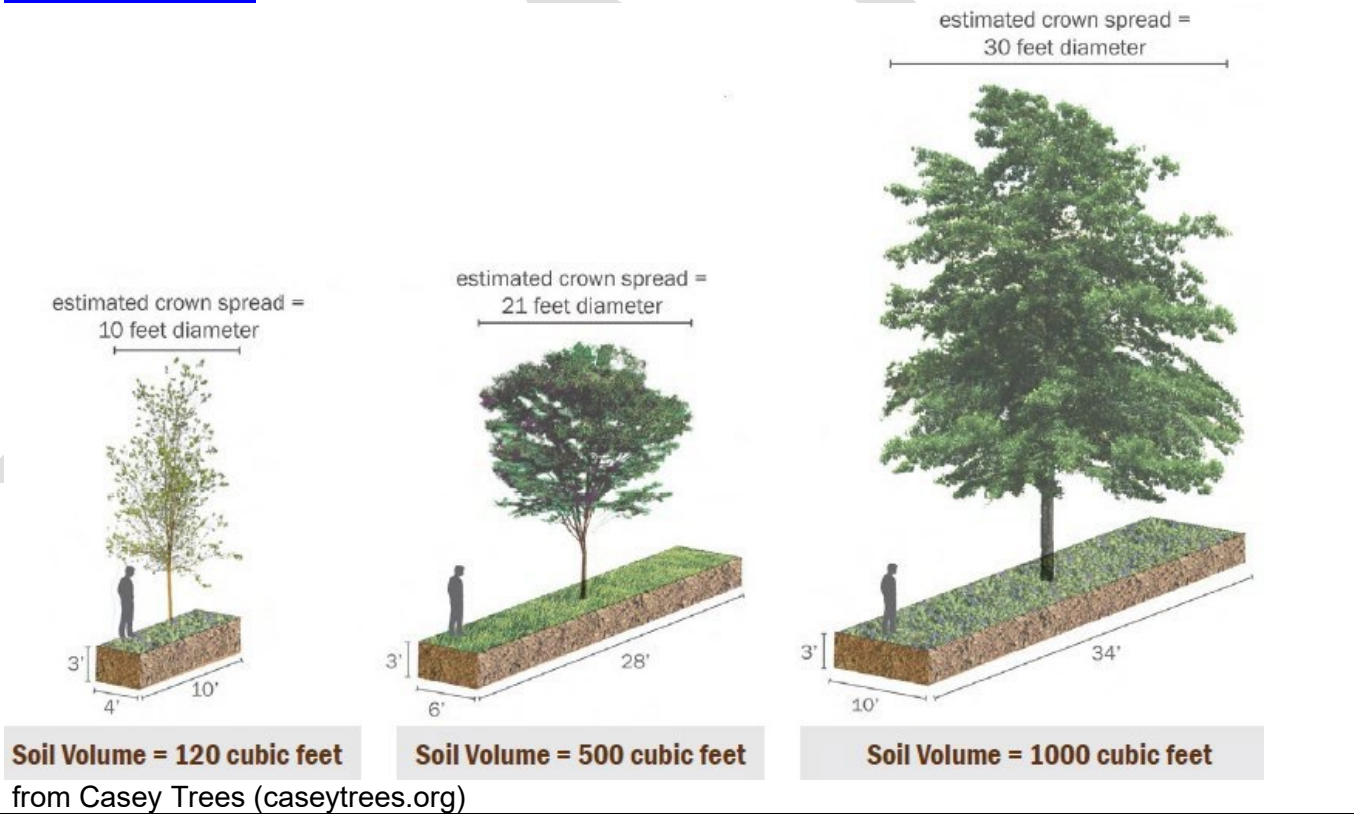
Many species have multiple cultivars, including narrow forms and/or shorter mature heights, be sure to choose the best one for your site.

NOTE: An additional column is included on this list to highlight specific concerns or questions, but watering is recommended for establishing any street tree planted in RI.

[Designing with Trees in Mind](#) by
Urban Forest Innovations
(www.urbanforestinnovations.com)



Tree Space Design



SUGGESTED URBAN STREET TREES IN RHODE ISLAND

LARGE[†] URBAN STREET TREES: Capable of a mature height greater than 50 feet tall

TREE SPECIES		SHAPE	GROWTH RATE			ENVIRONMENTAL TOLERANCE	PLUS	MINUS	COMMENTS
Scientific Name	Common Name		Slow	Med	Fast				
<i>Cercidiphyllum japonicum</i>	katsura tree	Various			●	Drought tolerant once established	Fine branch habit; fall color; no serious pests	Training prune when young	Needs water to establish
<i>Eucommia ulmoides</i>	hardy rubber tree	Rounded	●			Drought/ pH adaptable	Pest free; good summer foliage	Training prune when young	
<i>Ginkgo biloba</i>	gingko	Various		●		Drought/ pH adaptable/ Compaction	Pest free; <i>narrow cultivars exist</i>	Training prune when young; male cultivars only	
<i>Gymnocladus dioicus</i>	Kentucky coffeetree	Various		●		Drought/ pH adaptable	<i>Narrow cultivars exist</i> ; no serious pests	seedless cultivars only; late leaf-out;	
<i>Nyssa sylvatica</i>	black gum	Pyramidal		●		Drought/ Compaction	Red fall color	Leaf spot; needs good root mgt. in nursery	Avoid high pH
<i>Quercus coccinea</i> *	scarlet oak	Rounded		●		Moderate drought tolerance	Red fall color	Root and branch space; usual oak pest problems	Avoid high pH
<i>Quercus imbricaria</i> *	shingle oak	Rounded	●			Drought/ Compaction	Pyramidal when young	Spreading when mature; acorns to 1"	
<i>Quercus phellos</i> *	willow oak	Pyramidal	●			Drought/ Compaction	Typically clean leaf drop, fall color	Training prune when young; acorns to 1"	
<i>Taxodium distichum</i>	baldcypress	Pyramidal		●		Drought/ Compaction/ wet soils	Fine branch habit; narrow cultivar exists	Large buttress roots; knees in wet sites	
<i>Zelkova serrata</i>	Japanese zelkova	Rounded		●		Drought/ pH adaptable/ Compaction	Vase-shaped	Prune to address narrow branching; surface roots	

†none of these trees should be planted in tree pits
or other sites with limited root volume *all oaks
produce acorns but some species' acorns are
smaller than others.

Other large tree species exist that are impressive trees but, due to spread, are not included on this list for urban street trees, however, they are beautiful and should be considered where space and management would avoid conflicts including, but not limited to: other oak species, London planetree, American elm cultivars, American basswood, American beech, dawn redwood, and the entire hickory family.

Where space is available, large trees are the best choice. Proper management and training pruning will address most concerns while the trees provide longterm benefits aesthetically and environmentally. A discussion of the value and importance of large trees can be found in the [Large Tree Argument](#).

SUGGESTED URBAN STREET TREES IN RHODE ISLAND

MEDIUM URBAN STREET TREES: Mature height between 30 feet and 50 feet tall

TREE SPECIES		SHAPE	GROWTH RATE			ENVIRONMENTAL TOLERANCE	PLUS	MINUS	COMMENTS
Scientific Name	Common Name		Slow	Med	Fast				
<i>Acer buergerianum</i>	trident maple	Oval		●		Drought/ Compaction	A non-red maple option; 30-40'	Low branching requires training prune when young	
<i>Acer campestre</i>	hedge maple	Rounded	●			Drought/ high pH	A non-red maple option; 30-35'	Low branching requires training prune when young	
<i>Carpinus betulus</i>	European hornbeam	Pyramidal		●		Dry soils/ pH adaptable	Fine branching habit; narrow cultivars exist	Salt sensitive; 30-40'	Not for dry site with limited soil
<i>Corylus cornuta</i>	Turkish filbert	Pyramidal		●		Drought/ pH adaptable	Fine branching habit; formal appearance	needs good nursery root mgt.; water 1 st couple years	
<i>Gleditsia triacanthos 'Draves'</i>	Streetkeeper [®] honeylocust	Pyramidal			●	Drought/ adaptable/ salt pH	Narrow form compared to other		

							cultivars		
<i>Koelreuteria paniculata</i>	golden rain tree	Rounded		●		Drought/ adaptable/ salt	pH Fine yellow flowers; interesting seed pods	Training prune when young; round seeds; 30-40'	
<i>Ostrya virginiana</i>	American hophornbeam	Rounded		●		Drought/ pH adaptable	Shade tolerant; peeling bark; 30-40'	Salt sensitive; peeling bark	
<i>Oxydendron arboreum</i>	sourwood	Oval	●			Moderate drought tolerance	Native species; fall color	Finding a source at landscape size	Water in hotter zones
<i>Pistacia chinensis</i>	Chinese pistache	Rounded		●		Drought/ pH adaptable	Fall color; pest free; 25-35'	Select male cultivars; fruit causes some litter	

These lists can be expanded to include trees with a broader spread when trees are considered as an investment and their survival and site contributions are seen as a return on that investment, and are maintained as valuable green infrastructure.

Training pruning and proper pruning practices are recommended for all trees to maximize their contributions to the location and to reduce possible conflict with vehicles, pedestrians, buildings and other hardscape. Watering, especially during dry periods, reduces stress and improves appearance and survival. Mulch and/or soil protection reduces compaction which helps the roots and also promotes water infiltration.

SUGGESTED URBAN STREET TREES IN RHODE ISLAND

SMALL URBAN STREET TREES: Mature height less than 30 feet tall (suitable under utility wires)									
TREE SPECIES		SHAPE	GROWTH RATE			ENVIRONMENTAL TOLERANCE	PLUS	MINUS	COMMENTS
Scientific Name	Common Name		Slow	Med	Fast				
<i>Acer truncatum</i>	Shantung maple	Rounded		●		Drought	Fall color; minor leaf scorch; 20-30'		
<i>Chionanthus retusus</i>	Chinese fringetree	Oval	●			Some drought / pH adaptable	'Tokyo Towers' 15'-20' x10' wide; spring color	In the ash family, may be susceptible to EAB	
<i>Cornus kousa</i>	Kousa dogwood	Rounded		●		Moderate drought	Spring color; 15-20'	Dogwood anthracnose; fruit can cause litter	Limited heat tolerance

<i>Crataegus crusgalli</i> var. <i>inermis</i>	Thornless cockspur hawthorn	Oval		●		Drought	Spring and fall color; 15-25'. Thornless variety	Susceptible to cedarhawthorn rust	
<i>Maackia amurensis</i>	Amur maackia	Rounded	●			Extreme drought/ pH adaptable	Pest free; pinnate leaves for minor litter	Fruit pod may cause some litter	
<i>Stewartia pseudocamellia</i>	Japanese stewartia	Oval	●			Drought/ acidic	No pests; 25-30'; seems heat tolerant		Best in partial shade
<i>Styrax japonicus</i>	Japanese snowbell	Rounded		●		Moderate drought	Nearly pest free; no significant fruit litter		
<i>Syringa reticulata</i>	Japanese tree lilac	Rounded		●		Moderate drought/ salt	Spring color; 20-25'	Some pests, irrigate in summer for resistance	
<i>Zelkova serrata</i> 'Schmidtlow'	Wireless® Zelkova	Broadly spreading vase		●		Drought/ pH adaptable/ Compaction	Shape and height make it ideal for planting under utility lines; 24'		

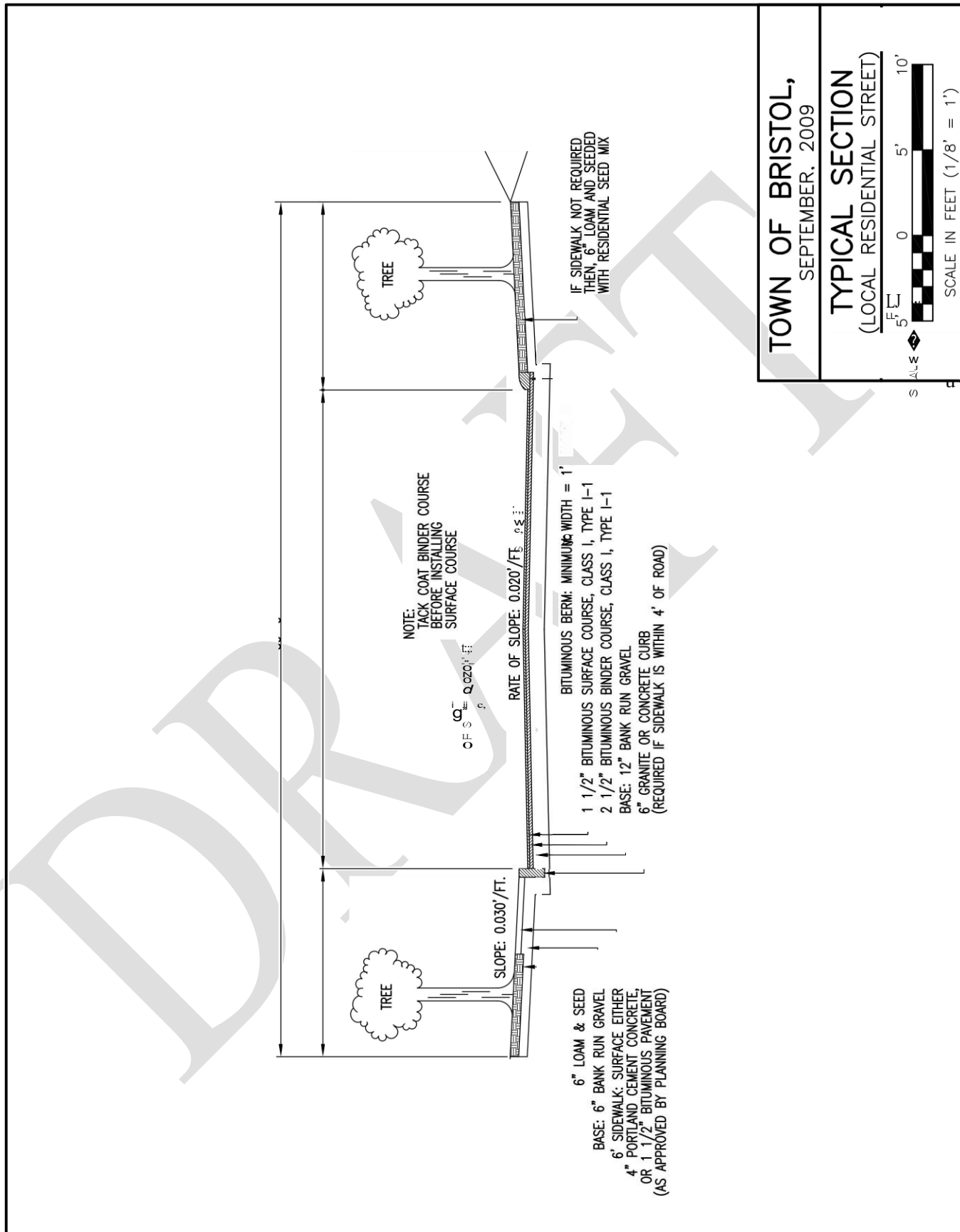
Small trees typically grow as wide as they do tall, which presents a challenge when using them as a street tree in downtown areas with sidewalks, parking, street overhang, and storefronts. While shorter height may be a desirable feature for business signs, spreading branches create long-term maintenance issues to reduce conflict with pedestrians and vehicles (parked or moving). In some cases, taller maturing trees, whose crowns can be eventually raised to make signage more visible, may be a better option. Narrow forms of a small tree species may be a better choice in such situations. Remember that small maturing trees tend to be shorter lived, even under ideal conditions, than large maturing trees.

Many small trees tend to be available as multi-stems but, for most street situations, a single stem (*tree form*) is recommended. Multi-stems can be suitable in other locations. **TRAINING PRUNING WHEN YOUNG** is strongly recommended for all small maturing trees in urban street locations.

SUGGESTED URBAN STREET TREES FOR NARROW PACES

Narrow cultivars for narrow spaces									
TREE SPECIES		SHAPE	GROWTH RATE			ENVIRONMENTAL TOLERANCE	HEIGHT	WIDTH	COMMENTS
Scientific Name	Common Name		Slow	Med	Fast				
<i>Tilia cordata</i> 'Halka'	Summer Sprite Linden	Pyramidal	●			Moderate drought	20'	10'	Susceptible to aphids and Japanese beetles
<i>Acer griseum</i> 'JFS KW22AGRI'	Copper Rocket™ Paperbark Maple	Narrow columnar	●				25'	12'	Winter interest

<i>Parrotia persica</i> 'JLColumnnar'	Persian Spire™ Parrotia	Columnnar to upright oval	●			pH adaptable, highly tolerant of urban pollution	25'	10'	
<i>Liquidambar styraciflua</i> 'Clydesform'	Emerald Sentinel® Sweetgum	Narrowly pyramidal/columnnar	●			Moderate drought tolerance	30'	12'	Fruits can be messy
<i>Carpinus betulus</i> 'Frans Fontaine'	Frans Fontaine Hornbeam	Narrow columnnar		●		Drought tolerant when established	35'	15'	
<i>Eucommia ulmoides</i> 'Empozam'	Emerald Pointe™ Hardy Rubber Tree	Upright narrow oval		●		Tolerant of road salt; pest and disease resistant	40'	15'	Smaller leaves than typical hardy rubber tree
<i>Ginkgo biloba</i> 'Princeton Sentry'	Princeton Sentry® Ginkgo	Narrowly pyramidal		●		Drought, pH adaptable, Compaction, salt	40'	15'	Seedless male variety
<i>Celtis occidentalis</i> 'JFS-KSU1'	Prairie Sentinel Hackberry	Fastigate	●			Heat, drought, and cold	45'	12'	
<i>Quercus robur x bicolor</i> 'Long'	Regal Prince® Oak	Upright		●		Drought	45'	18'	Acorns to 1"
<i>Gymnocladus dioicus</i> 'Morton'	Skinny Latte™ Kentucky Coffee Tree	Columnnar	●			Drought/ pH adaptable	50'	18'	Seedless
<i>Quercus x warei</i> 'Chimney Fire'	'Chimney Fire' oak	Narrow		●		hardy parent source	50'	15'	
<i>Liquidambar styraciflua</i> 'Slender Silhouette'	Slender Silhouette Sweetgum	Tightly columnnar			●	Moderate drought tolerance	60'	8'	Fewer fruits than other cultivars





Town of Bristol, Rhode Island

Department of Community Development

10 Court Street
Bristol, RI 02809
bristolri.gov
401-253-7000

March 4, 2024

TO: Planning Board
FROM: Diane M. Williamson, Administrative Officer
RE: **Major Subdivision – Adaptive Re-Use – Unified Development
Master Plan Phase of Review – 151 State Street – Oliver School**

The above application is before you for a Public Hearing and Action on the Master Plan Phase. This is a unified development and a variance(s) will be requested at the Preliminary Phase.

A waiver of the full application fee is also requested. The applicant proposes to pay \$250/phase. The Subdivision and Development Review Regulations require \$2750/phase (\$250/unit x 11 units)

The TRC meeting notes are attached.

Town of Bristol, Rhode Island



Department of Community Development

10 Court Street
Bristol, RI 02809
www.bristolri.us
401-253-7000
f. 401-253-3080

CERTIFICATE OF COMPLETENESS

*Major Land Development – Adaptive Reuse- Unified Development – Master Plan Phase –
151 State Street*

February 26, 2024

TO: Lou Cabral, Owner/Applicant
FROM: Diane M. Williamson, Administrative Officer
RE: 151 State Street “The Oliver”

Pursuant to the Bristol Land Development and Subdivision Review regulations the plans and supporting documentation for the above-referenced plan, which were submitted on February 9, 2024 and re-submitted on February 21, 2024 are deemed to be complete on February 26, 2024 for purposes of commencing review. Please note that the Town may subsequently require correction of any information found to be in error and submission of additional information not required for certification, as is necessary to make an informed decision.

The Planning Board will take action on the application within ninety (90) days of the issuance of the Certificate of Completeness, **which date is May 26, 2024**, unless an extension is mutually agreed upon.

**Diane M. Williamson,
Administrative Officer**



190 High Street, Bristol, Rhode Island 02809

Phone: (401) 396-9630 Fax: (401) 410-0079

Diane Williamson, Director of Community
Development
ATTN: Planning Board
and Technical Review Committee
Town Hall Annex
235 High Street, 1st Floor
Bristol RI 02809

February 19, 2024

Louis Cabral
 COMMUNITY DEV.
 2024 FEB 21 PM 2:51

Project Narrative: Major Land Development Application
 DESCRIPTION: Adaptive Reuse Conversion of historic school building (the
 Oliver School) into 11 rental housing units
 PROPERTY ADDRESS: 151 State Street, Bristol RI

Dear Diane and Bristol Planning Board,
 In accordance with our recent discussions JHL Tecture PC, (JHLT) is pleased to submit for your
 consideration our narrative of the attached project proposal:

The project of this application is the Oliver Apartments, the adaptive reuse of an unused historical
 school building recently sold by the Town of Bristol to a developer, Louis Cabral, for new
 community development use.

The objective is to convert the building, a masonry structure of two floors of approximately 4,695
 SF/ level, over a day lit basement of the same footprint into eleven units.
 Total habitable area is then approximately 14,085 SF.

Comprised of:

- 3 Basement units: 1 BR (929 SF), 1 BR (967 SF), 2 BR (998)
- 4 First floor units: Studio (508 SF), 1 BR (577 SF), 2 BR (1077 SF), 2 BR (1077 SF)
- 4 Second floor units: 1 BR (704 SF), 1 BR (773 SF), 2 BR (1061 SF), 2 BR (1065 SF)

Recent housing legislation has reduced the on-site parking requirements to one car per unit which
 has enabled the reuse of this building to meet the housing needs of the community. In keeping with
 such regulations and goals, three of the units will be designated as low/moderate income units –
 meeting the requirements for twenty percent or more of such multifamily developments to be
 rentals affordable to household incomes at or below 80 % of the median income of the community

The project has also been designed to be able to achieve historical tax credits from both the state
 and federal governments.

The plans have been assembled and reviewed by the Town Department of Community Development and a multi-agency review was held with the Technical Review Committee on January 30, 2024. We have prepared the following summary of the issues involved and here outlined the parking dimensional variance requested to enable this conversion to be built.

The building has an historical easement condition on its re-use, such that the exterior appearance is not to be altered as it is a contributing element in the adjacent historical district and town commons. It is our goal to locate as much of the required parking in the rear of the building's lot, to enable greater landscaping and enhance this historical visual appearance.

The proposed layout of the on-site car parking for the required eleven cars is thus laid out with only two parking spaces in the front setback area where previously 4-5 cars had been parked. The remaining 9 stalls are proposed to be configured in the rear. However, an existing masonry basement bulkhead doorway protrudes about 2 feet into the typical 24 foot backup aisle distance for two of the stalls. If these stalls were allowed to be designated as "compact vehicles" and thus 2 feet shorter in length, this aisle clearance would become compliant for backing up and would fulfill the goal of parking eleven cars in the rear yard. This is the hardship created by the historical building bulkhead extension, which is to be preserved.

Variance sought: In larger developments of over 20 cars Section 28-251c allows 25% to be compact car stalls of 9 feet wide and 16 foot long. We are requesting that such a provision be applied to this development of eleven spaces. See cited section below:

Town of Bristol: Article VIII Off-street Parking and Loading Regulations,

Section .28-251c. For parking areas with more than 20 spaces, up to 25 percent of the spaces may be reduced in size for small cars, provided that such spaces shall be prominently signed for small cars only. For parking areas in the downtown or waterfront zones, 50 percent of the spaces may be reduced in size for small cars, provided also that such spaces shall be prominently signed for small cars only. The painted lines for each small car parking stall shall also be double-line striped, such that there is a minimum of two feet between each stall. This two foot area shall be included in calculating the overall width of the parking space stall, provided that at least seven feet of width shall be provided between the inner edges of the stall. The overall size of the small car space may be reduced to nine feet wide by 16 feet long.

A Variance is therefore requested for relief of Section 28-251 of the municipal code as two spaces in the area of the basement bulkhead are unable to provide the full 24 feet of back up distance normal to a full-size parking space. Bollards could be added at the corners to protect this projection of the building.

All other parking spaces meet the Town of Bristol required 10 feet width by Eighteen feet length for standard stalls and with 24 feet of back up aisle when configured in a 90 degree layout.

We request your consideration to the granting of this waiver to enable the parking for this development and find it will be harmonious to the context and have no adverse effect on neighboring properties, the public safety or the historical integrity of this landmark property.

JHL TECTURE AE, PC



John H. Lusk, RA, AIA
President, Architect

ACCEPTANCE:

BY: _____

TITLE: _____

DATE: _____

February 20, 2024

State Street 151 LLC
c/o Lou Cabral
304 Church Pond Drive
Tiverton, RI 02878

Bristol Planning Board
c/o Diane Williamson
Town Hall Annex
235 High Street
Bristol, RI 02809

Dear Members of the Planning Board:

Applicant, "The Oliver," respectfully asks the Board for consideration in waiving the \$250 per unit fee as applied through the Town's "Major Subdivisions" and "Major Land Developments" application.

The Oliver is an existing, former municipal building, that is being programmed for eleven (11) residential units consistent with the recently enacted legislation (effective January 1, 2024) that sets forth zoning incentives for the much-needed housing development in Rhode Island.

It is the applicant's hope that the Board views the Oliver's proposal as a single lot with one existing building that will undergo an adaptive reuse conversion under the new State law, and not as a "Major Subdivision of Land consisting of more than five lots" or a "Major land development project with multiple lots."

For a project of this size, that is incorporating low/moderate income and ADA units, and is dependent on Historic Tax Credits, both State and Federal for financial feasibility, a fee of \$2,750 is challenging, and not consistent with the spirit of the new law.

The Applicant respectfully asks the Board for your serious consideration of this request.

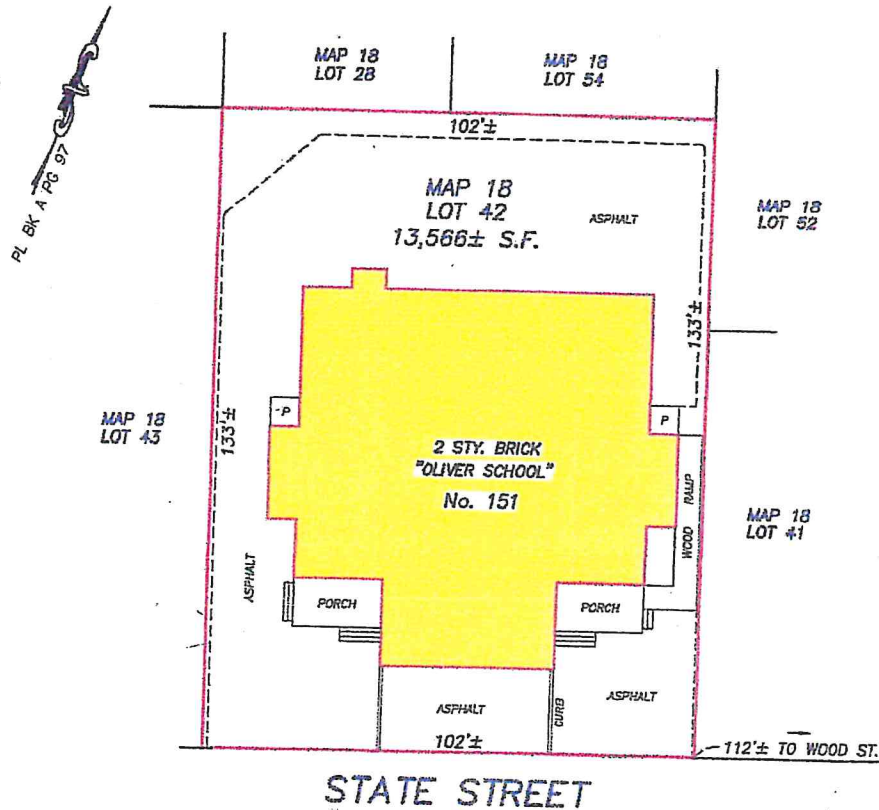
Sincerely,

Lou Cabral

File number: 230629-7	UNREGISTERED LAND		
Attorney: BURKE, ESPINOLA & VAN COLEN	Deed Book 55	Page 398	
Lender: FALL RIVER FIVE CENTS SAVINGS BANK	Plan Book	Page	Lot(s)
Owner: TOWN OF BRISTOL	REGISTERED LAND		
Date: 7/5/2023	Reg. Book	Sheet	Lot(s):
Assessor's Map 18	Bk: Lot 42	Certificate of Title	
		Census Tract	

MORTGAGE INSPECTION PLAN
151 STATE STREET, BRISTOL, RI

Scale: 1"=30'



CERTIFICATION

THE PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACURATE BOUNDARY SURVEY, AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE. THE LOCATION OF THE ORIGINAL DWELLING SHOWN HEREON IS IN COMPLIANCE WITH LOCAL APPLICABLE ZONING BYLAWS IN EFFECT WHEN CONSTRUCTED WITH RESPECT TO HORIZONTAL DIMENSIONAL REQUIREMENTS.

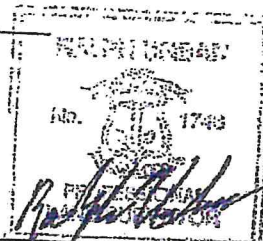
NOTE: WOOD RAMP APPEARS TO BE CLOSE TO OR ON PROPERTY LINE. AN EXACT LOCATION WOULD REQUIRE AN INSTRUMENT SURVEY.

FLOOD DETERMINATION

BY SCALE, THE DWELLING SHOWN HERE DOES NOT FALL WITHIN A SPECIAL FLOOD HAZARD ZONE AS DELINEATED ON A MAP OF COMMUNITY # 44001C0014H AS ZONE 'X' DATED 07/07/2014 BY THE NATIONAL FLOOD INSURANCE PROGRAM.



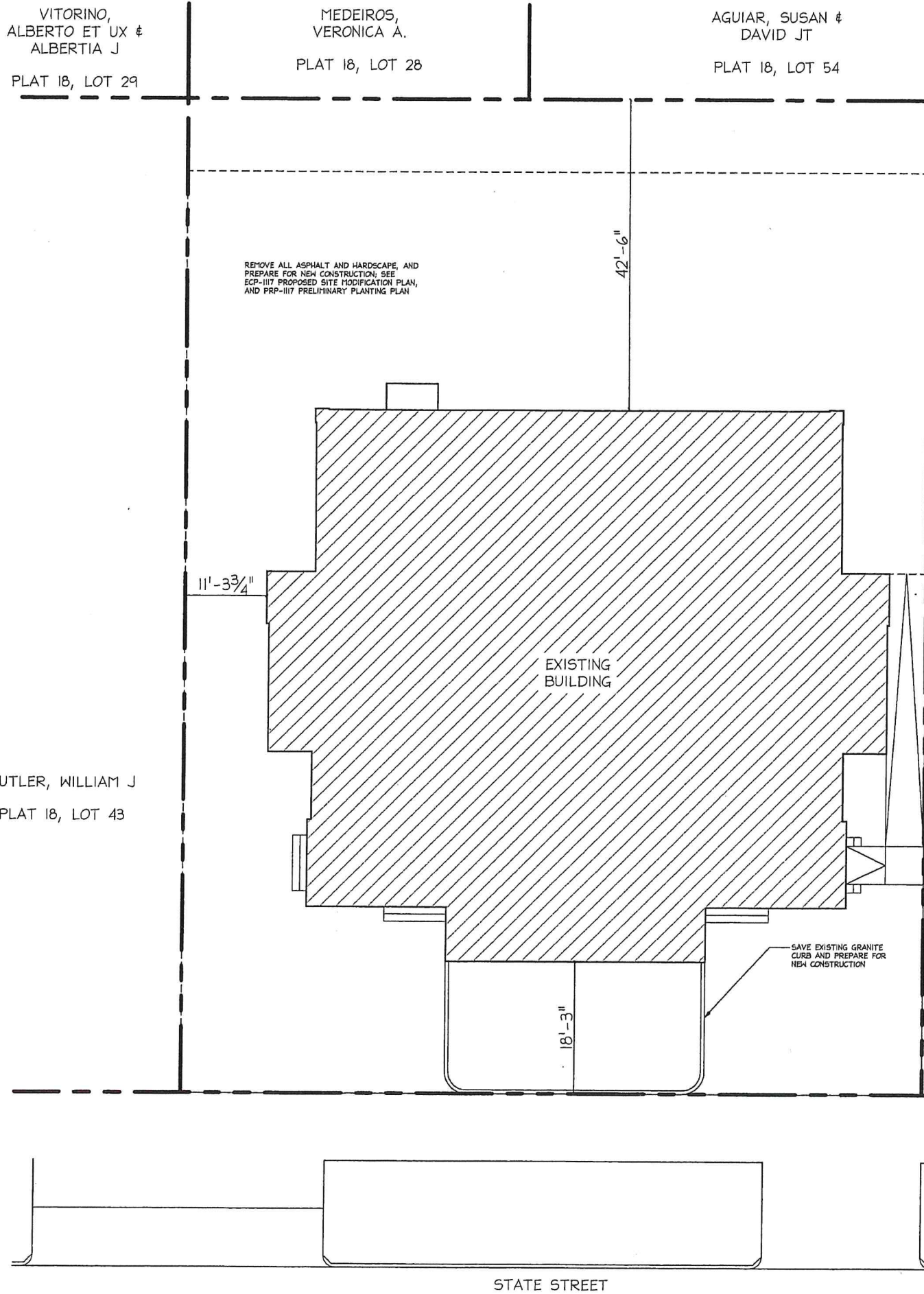
Ralph Urban
P.O. Box 1164
Lakeville, MA 02347-
Tel: (800) 993-3302
Fax: (800) 993-3304



PLEASE NOTE: This inspection is not the result of an instrument survey. The structures as shown are approximate only. An instrument survey would be required for an accurate determination of building locations, encroachments, property line dimensions, fences and lot configuration and may reflect different information than shown here. The land as shown is based on client furnished information only or assessor's map & occupation and may be subject to further out-sales, takings, easements and rights of way. No responsibility is extended to the landowner or surveyor, or occupant. This is merely a mortgage inspection and is not be recorded.

Project: ASO01 - Architecture (05 Imperial)
 Name: JLT-DESKTOP-02

Project: ASO01 - Architecture (05 Imperial)
 Name: JLT-DESKTOP-02
 Date: 02/27/2024 10:00 AM



OLYMPUS REALTY LLC
PLAT 18, LOT 52

PRESCOTT, JOAN C. TRUSTEE
PLAT 18, LOT 41

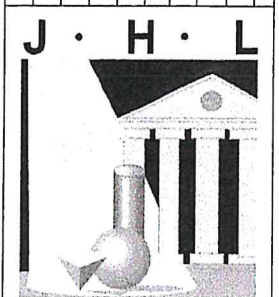
BUTLER, WILLIAM J
PLAT 18, LOT 43

STATE STREET

- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. Notify Architect if additional dimensioning is required.
 - Contractor shall verify all dimensions in the field and notify Architect of any discrepancies.
 - The Contractor shall provide all materials indicated, graphically, as annotated or as needed for a complete and proper installation, and shall notify Architect of any discrepancies in identification of the materials required.
 - Large scale plans of details shall take precedence over smaller scale drawings.
 - All work shall be in conformance with the Federal, State and Local Building Codes and other governing bodies.
 - All work to be performed and inspected as required by the local governing code enforcement office.
 - All work is to be installed in accordance with manufacturer's recommendations and specifications.

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 DRAWING ALTERATIONS:
 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF LICENSED ARCHITECT, PROFESSIONAL ENGINEER, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY.
 ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS OR HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATIONS.

NO.	DATE	REVISION DESCRIPTION
1		
2		
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10		



TECTURE
 ARCHITECT • ENGINEER, P.C.
 190 High Street • Bristol RI 02809
 401.396.9630 • Fax 401.410.0079

**ISSUED FOR:
 REVIEW**

**PRELIMINARY ONLY
 NOT FOR CONSTRUCTION**

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS FOR PROBABLE COST OF CONSTRUCTION ONLY AND IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

**PROPOSED
 RENOVATION OF:
 OLIVER
 SCHOOL
 APARTMENTS**

LOUIS CABRAL
 151 STATE STREET
 BRISTOL, RI, 02809

**EXISTING
 SITE PLAN**

DATE: 11-09-23
 SCALE: AS NOTED
 DRAWN BY: CRC
 PROJECT NUMBER: ASO-01
 7458

- NOTE:**
- SEE ECP-1117 PROPOSED SITE MODIFICATION PLAN, AND PRP-1117 PRELIMINARY PLANTING PLAN
 - ALL WORK SHALL FOLLOW THE RI DEM LOW IMPACT DEVELOPMENT PRACTICES, AND THE RI STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.

PARKING REQUIREMENTS:
 AS PER *2023-H 6090 SUBSTITUTE A*, ONLY 1 PARKING SPOT PER UNIT IS REQUIRED.

PARKING REQUIREMENTS

SPOT NUMBER	SPOT SIZE	REGULATION
1	10'-00" X 18'-00"	SEC. 28-251.(2)A
2	9'-00" X 16'-00"	SEC. 28-251.(2)C
3	9'-00" X 16'-00"	SEC. 28-251.(2)C
4	10'-00" X 18'-00"	SEC. 28-251.(2)A
5	10'-00" X 18'-00"	SEC. 28-251.(2)A
6	10'-00" X 18'-00"	SEC. 28-251.(2)A
7	10'-00" X 18'-00"	SEC. 28-251.(2)A
8	10'-00" X 18'-00"	SEC. 28-251.(2)D
9	10'-00" X 18'-00"	SEC. 28-251.(2)A
10	10'-00" X 18'-00"	SEC. 28-251.(2)A
11	10'-00" X 18'-00"	SEC. 28-251.(2)A

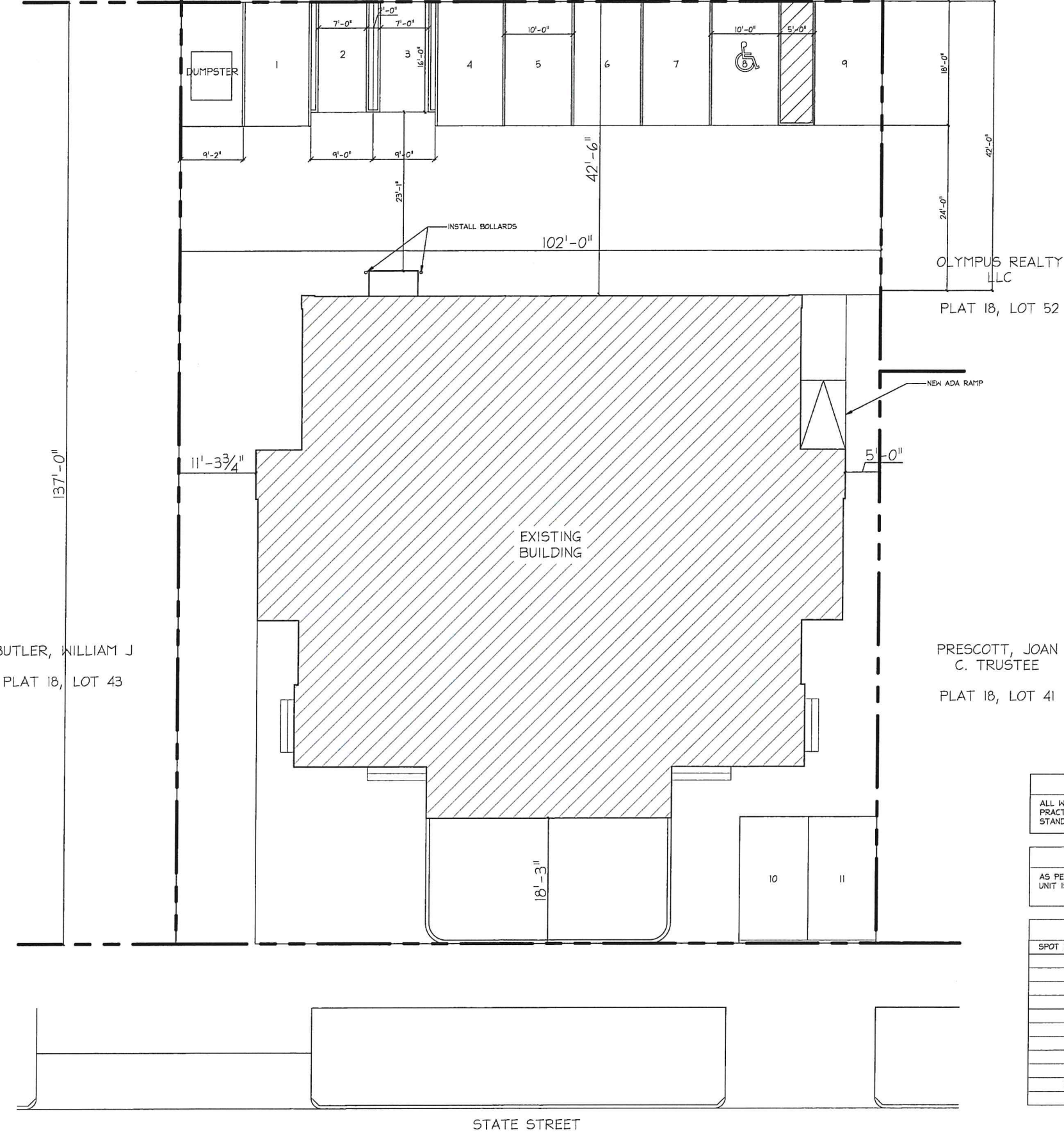
Project: Architectural (10 Imperial)
 Node: JLT-DESKTOP-02

Printing Parameters
 Printed By: csh
 Plot Date: 11/09/23
 Plot Time: 11:27:04
 Plot Path: C:\Users\csh\OneDrive\Documents\AS1-01.dwg

VITORINO,
 ALBERTO ET UX &
 ALBERTIA J
 PLAT 18, LOT 29

MEDEIROS,
 VERONICA A.
 PLAT 18, LOT 28

AGUIAR, SUSAN &
 DAVID JT
 PLAT 18, LOT 54



BUTLER, WILLIAM J
 PLAT 18, LOT 43

PRESCOTT, JOAN
 C. TRUSTEE
 PLAT 18, LOT 41

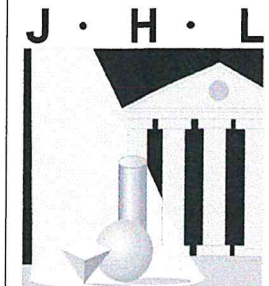
OLYMPUS REALTY
 LLC
 PLAT 18, LOT 52

STATE STREET

- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. Notify Architect if additional dimensioning is required.
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 - All work is to be installed in accordance with manufacturer's recommendations and specifications.

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NO.	REVISION DESCRIPTION	DATE	BY



TECTURE
 ARCHITECT • ENGINEER, P.C.

190 High Street • Bristol RI 02809
 401.396.9630 • Fax 401.410.0079

ISSUED FOR:
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**PROPOSED
 RENOVATION OF:
 OLIVER
 SCHOOL
 APARTMENTS**

LOUIS CABRAL
 151 STATE STREET
 BRISTOL, RI, 02809

**ARCHITECTURAL
 SITE PLAN
 CONCEPTUAL**

DATE: 11-09-23
 SCALE: AS NOTED
 DRAWN BY: CSC
 PROJECT NUMBER: **AS1-01**

7458

NOTE:
 ALL WORK SHALL FOLLOW THE RI DEM LOW IMPACT DEVELOPMENT PRACTICES, AND THE RI STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.

PARKING REQUIREMENTS:
 AS PER '2023-H 609D SUBSTITUTE A', ONLY 1 PARKING SPOT PER UNIT IS REQUIRED.

SPOT NUMBER	SPOT SIZE	REGULATION
1	10'-00" X 18'-00"	SEC. 28-251.(2)A
2	9'-00" X 16'-00"	SEC. 28-251.(2)C
3	9'-00" X 16'-00"	SEC. 28-251.(2)C
4	10'-00" X 18'-00"	SEC. 28-251.(2)A
5	10'-00" X 18'-00"	SEC. 28-251.(2)A
6	10'-00" X 18'-00"	SEC. 28-251.(2)A
7	10'-00" X 18'-00"	SEC. 28-251.(2)A
8	10'-00" X 18'-00"	SEC. 28-251.(2)D
9	10'-00" X 18'-00"	SEC. 28-251.(2)A
10	10'-00" X 18'-00"	SEC. 28-251.(2)A
11	10'-00" X 18'-00"	SEC. 28-251.(2)A

PLANT SCHEDULE				
	Common Name	Latin Name	Quantity	Size
Deciduous Tr	Sweet Bay Magnolia	Magnolia virginiana	1	8/10'
	Shrubs			
	Autumn Brilliance Serviceberry	Amelanchier x grandiflora 'Autumn Brillian	1	#7
	Bearberry	Arctostaphylos uva-ursi	41	#1
	Gem Box Holly	Ilex glabra 'Gem Box'	10	#3
	Low Scape Chokeberry	Aronia melanocarpa 'Low Scape'	5	#3
Perennials				
	Aromatic Aster	Aster 'October Skies'	20	plug
	Blue Flag Iris	Iris versicolor	11	#1
	Blue Ice Amsonia	Amsonia tab. 'Blue Ice'	15	#1
	Butterfly Weed	Asclepias tuberosa	20	#1
	Dwarf crested Iris	Iris cristata	35	#1
	Golden Packera	Packera aurea	45	plug
	Husker Red Penstemon	Penstemon digitalis 'Husker Red'	35	#1
	Millenium Allium	Allium 'Millennium'	12	#1
	Wild Geranium	Geranium maculatum	49	plug
Grasses				
	Autumn Moor Grass	Sesleria autumnalis	33	#1
	Oval Sedge	Carex brevior	261	plug
	Pennsylvania Sedge	Carex pennsylvanica	184	plug
	Prairie Dropseed Grass	Sporobolus heterolepis	213	plug

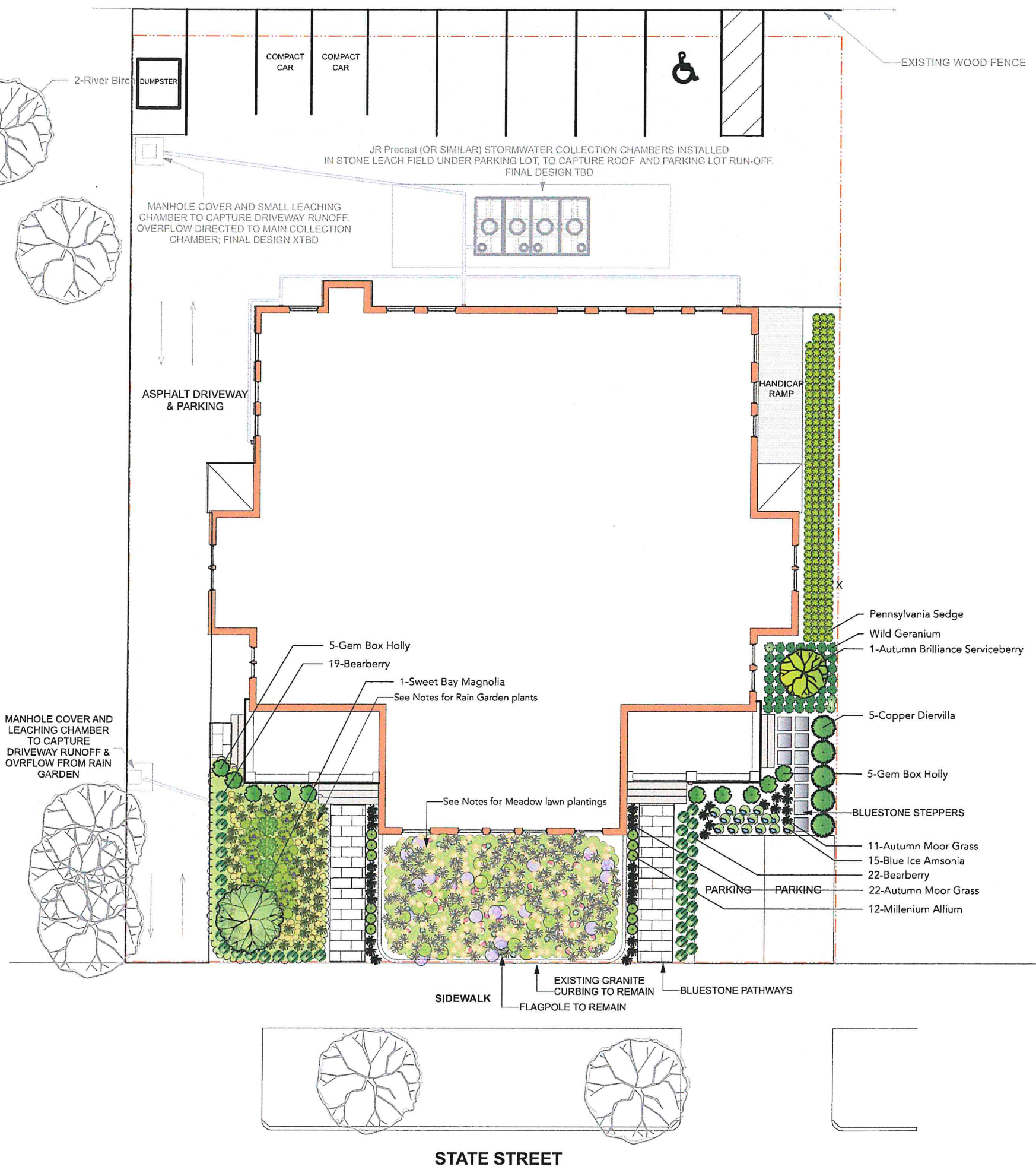
RAIN GARDEN PLANTS (INCLUDED IN PLANT LIST ABOVE)

COMMON NAME	BOTANICAL NAME
Low Scape Chokeberry	Aronia melanocarpa 'Low Scape'
Blue Flag Iris	Iris versicolor
Golden Packera	Packera aurea
Oval Sedge	Carex brevior
Prairie Dropseed Grass	Sporobolus heterolepis

LAWN MEADOW PLANTS (INCLUDED IN PLANT LIST ABOVE)

COMMON NAME	BOTANICAL NAME
Aromatic Aster	Aster 'October Skies'
Butterfly Weed	Asclepias tuberosa
Dwarf Crested Iris	Iris cristata
Husker Red Penstemon	Penstemon digitalis 'Husker Red'
Carex brevior	Oval Sedge
Prairie Dropseed Grass	Sporobolus heterolepis

PER RHODE ISLAND LID SITE PLANNING & DESIGN GUIDANCE MANUAL:
 -The proposed plant list is comprised of 90% native species, with all plants selected for hardiness, salt resistance where applicable, low maintenance requirements, and high ecological function.
 -Hardy groundcover plants are used in place of lawn in all instances.
 -All planting areas will be prepared for planting with tilling to reduce compaction and the addition of soil amendments specific to the use area



Preliminary Planting Plan

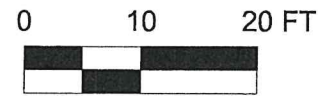
the Oliver School Apartments
151 State Street
Bristol, RI 02809

Revision: Rev. No.: Rev. Date:

DATE: 2/21/24
DRAWN BY: bm

SHEET:
PRP-1117

The drawings and specifications seen here are intended for Concept and bidding purposes and cannot be construed as Stamped Architectural Drawings





Town of Bristol, Rhode Island

Department of Community Development

10 Court Street
Bristol, RI 02809
www.bristolri.gov
401-253-7000

TECHNICAL REVIEW COMMITTEE MEETING

The meeting was held on Tuesday, **January 30th, 2024** at 10:00 am
at 235 High Street, 1st Floor Conference Room, Department of Community Development
The Technical Review Committee held a meeting for the purpose of review of the application
for **Pre-Application/Concept Review**
for the former Oliver School, 151 State Street

Present:

Diane Williamson, Director of Community Development
Edward M. Tanner, Zoning Officer/Principal Planner
Charles Millard, Planning Board Chairman
Steve Katz, Planning Board Member

Also Present:

Lou Cabral, Applicant/Owner, 151 State Street
Greg Spiess, JHL Tecture
Chris Cloutier, JHL Tecture
Chief Michael DeMello, Bristol Fire Department
Director Jose DaSilva, Water Pollution Control
Michael Crawford, Deputy Director, BCWA

Agenda: Pre-Application/Concept Review for an Adaptive Re-use of the former Oliver School. Proposal to convert the former school into 11 apartments. Property located at **151 State Street**, Assessor's Plat 18, Lot 42, Zone: Residential R-6.

This project is an adaptive re-use to convert the former Oliver School building to eleven (11) residential apartments. The building has a conservation easement on it to preserve the façade. The applicant, Lou Cabral, is applying for Historic Preservation tax credits so this project will need state historic approval for the design. The plan is to keep the central hallway layout. There will be residential dwelling units on three floors (basement, 1st and 2nd floors).

The new state law permits adaptive re-use procedure. The applicant has been meeting with the state Historic Preservation Officer to design within their rules for tax credits. The exterior will remain unchanged. The interior will have limited demolition but mostly just adding walls to create the units.

There will be multiple entrances. Mechanical systems and storage will be in the basement. There will be two (2) egresses from the basement to the rear parking lot.

Basement Units: There will be two (2) one-bedroom units and one (1) two-bedroom unit with an ADA compliant entrance with a lift. There will also be one fully compliant ADA unit on the first floor.

First Floor: There will be four (4) units; two (2) two-bedroom units in the rear of the building, one (1) one-bedroom unit and one (1) studio unit with four separate entrances to the 1st floor. Two will use the primary front entrance, the other two units will use the stair towers on either end of the building.

Second Floor: There will be four (4) units on the second floor; two (2) two-bedroom units in the rear of the building, two (2) one-bedroom units in the front of the building. There will be no access to the two existing front balconies. Access to the 2nd floor will be gained by stair towers on either end of the building.

Windows will mostly stay and be repaired. Exterior doors will be replaced. The building is in good condition. Mechanicals are currently working. Life & safety equipment are in good condition. The roof will need some work.

The site plan indicates there will be 14-15 parking spaces provided. Parking in the rear of the building with 24' back up space with an 11' driveway on the west side of the building. The bulkhead in the rear of the building impacts backup space in one area. They are asking for two (2) compact car spaces and a dumpster enclosure. There will be two parking spaces in front of the building at the east side. A dimensional variance will need for the two compact car spaces as they are not explicitly permitted per the zoning ordinance in a parking lot of this size.

Sewer Department: The system capacity is ok and the system and the main in the street is ok. Director DaSilva requested that the owner conduct a camera inspection of the sewer lateral to ensure that it is properly functioning as it is over 100 years old. The Town will assess inflow and infiltration (I&I) fees of \$550 per bedroom at the time of building permit application. The capacity of the system is ok to handle the proposed development.

Public water: BCWA representative says that water service is available.

Fire Department: The existing fire alarm system is good and can be modified to work for the proposed use. The existing wet sprinkler system will need to be inspected and approved at time of building permit.

As a requirement of the adaptive reuse code, at least twenty (20%) percent of the units need to be deed restricted as low/moderate income. The applicant is asking for one (1) low-mod unit, and one (1) ADA compliant unit. The TRC would like three (3) low-mod units (20% of 11 units is rounded up to 3 units).

The process for adaptive re-use is the following:

- Major Land Development (more than nine (9) units)
- Unified Development for variances with Planning Board

- Three-step process: Master Plan, Preliminary Plan & Final Plan with a Public hearing. The master & preliminary plans can be combined if the planning board allows.

The landscape plan will need to show areas of pavement and areas where pavement will be removed and landscaped. Site topography and drainage should also be shown on a survey plan.

There is a fourteen (14) day advertising requirement for the public hearing.

The application with completed narrative and plans needs to be submitted. Applicant will target to be heard at the March 14th Planning Board meeting for combined Preliminary and Master Plan with a public hearing. The Final Plan review and approval could be administrative or referred to the TRC by the Planning Board.

The plans should show elevation views and all facades.

The land survey and engineer will need to provide drainage plans for review.

The landscaping plan will need to show pavement extents and removal areas.

The TRC is in support to move this application forward to the full Planning Board with outstanding items to be addressed by the applicant.

Meeting adjourned at 10:40 am.

Notes by Ed Tanner



Town of Bristol, Rhode Island

Department of Community Development

10 Court Street
Bristol, RI 02809
www.bristolri.gov
401-253-7000

TECHNICAL REVIEW COMMITTEE MEETING

The meeting was held on **Monday, February 26th, 2024** at 2:00pm
at 235 High Street, 1st Floor Conference Room, Department of Community Development
The Technical Review Committee held a meeting for the purpose of review of the master plan
phase review for the former Oliver School at **151 State Street** as unified development/major
land development

Present:

Diane Williamson, Director of Community Development
Edward M. Tanner, Zoning Officer/Principal Planner
Steve Katz, Planning Board member
Jessalyn Jarest, Alternate Planning Board member

Also Present:

Lou Cabral, Applicant/Owner
Chris Cloutier, JHL Tecture

Agenda: Major Land Development - Master Plan Phase - Application for an Adaptive Re-use/Unified Development of the former Oliver School. Proposal to convert the former school into 11 apartments. Property located at **151 State Street**, Assessor's Plat 18, Lot 42, Zone: Residential R-6. Waiver requested for application fee. Variances requested for size of parking spaces and aisle width.

This will be an adaptive reuse of a former school building into residential units with three (3) affordable units and a total of eleven (11) units proposed. Project will be reviewed as a unified development project with the overall development and any necessary zoning variances being reviewed by the Planning Board.

Historic tax credits from the State of RI have been applied for. A landscape designer has been brought on to work on the design. Tom Principe will be involved as an engineer to develop full civil plans with drainage for the site.

Applicant indicated that they are hoping to get through the development review process quickly to be the first of its kind under the new state laws.

Zoning variances will be needed for parking space design (2 of 11 spaces) and parking aisle width.

Most of the mechanical items will be located at the rear of the property. A utility pole may need to be move or electrical service may be brought in underground. Electric transformer will be to rear of property behind the proposed dumpster.

The drainage design shown on plans is a concept only but will be reviewed by the engineer.

Proposed landscape improvements in front of the building will soften the edge and front of the building. Historic plans show grass in front around the flag pole.

Some existing pervious area in the rear of the property will be paved so they will try to remove some existing pavement in front to balance it out. Currently working on different aesthetics for the function of the property. The TRC reviewed the landscape design.

At Master Plan level the applicant does not need a survey plan or landscape plan prepared by a licensed Landscape Architect. Those will be required at Preliminary Plan phase. Plans being reviewed with this phase are conceptual. The TRC reviewed requisites for Master Plan versus Preliminary Plan phases.

Principe Engineering will prepare an existing conditions survey.

Plant selection was discussed regarding what is appropriate for an urban environment. Stepping stone path from front parking area might need to be shovelable so potentially change to pavers.

The rear parking lot ADA space needs to be 16feet wide, not 15 feet as shown. Reducing one parking space on the dumpster side might achieve that. Discussed whether the ADA space could be a 'universal' parking space or one van accessible parking space. Will be losing 1 foot of width. Could reconfigure parking. Need a survey plan to confirm exact dimensions. As this lot is less than 20 spaces it does not need double lined spaces in between per zoning ordinance.

Dumpster sizing should be shown and determined accurately. Recycling will also need to be addressed.

TRC questioned snow storage locations.

Any required zoning variances will be reviewed and approved at the Preliminary Plan phase of review.

Electrical service will have the transformer in the rear and may bury the line beneath the driveway.

Reviewed proposed stormwater management. Parking lot drainage to subsurface may need pre-treatment and permit from DEM. Roof drains also need to be shown. Roof water to drywells may be ok without a permit from DEM. Applicant will check with the engineer.

The applicant has requested a waiver for the application fee as they are trying to limit expenses. Project will use historic tax credits, and there are extensive costs for the building renovation and affordable housing units. The TRC reviewed the waiver request and wording in the regulations. It is a \$250 per unit fee, totaling \$2,750. Request will be put to the full Planning Board for consideration.

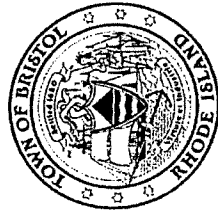
A summary of outstanding items for the Preliminary Phase was reviewed. Lighting and signage should be shown on the landscape architect plan. Lighting should be down facing with shielding. Topography, drainage, landscaping, utilities, parking, lighting, signage and zoning variances will be addressed in the Preliminary Plan phase.

The applicant will proceed to the Planning Board with a Master Plan submission using existing plans, but they will acknowledge that plans will be revised with professional engineering and landscape architect for Preliminary phase.

Motion was made by Jessalyn Jarest, 2nd by Steve Katz to send to the Planning Board for Master Plan review at the March 14th meeting. All were in favor.

Meeting adjourned at 3:25pm.

Notes by Ed Tanner



Town of Bristol, Rhode Island Planning Board

10 Court Street
Bristol, RI 02809
www.BristolRI.us
401-253-7000
253-7010

 **DRAFT**

DRAFT PLANNING BOARD DECISION

OWNER/APPLICANT: State Street 151, LLC, Louis Cabral
ADDRESS: 151 State Street
PLAT AND LOT: Plat 18, Lot 42
APPLICATION: Major Land Development Master Plan

The Planning Board finds that:

1. The subject property consists of the former Oliver School, a 2 story brick building, located on a parcel with 13,566 square feet of land.
2. The proposal is the conversion of the former school into 11 residential units for rental apartments.
3. The proposal is submitted as an Adaptive Re-use project. As required, 3 units (20% of the total units rounded up) will be set aside as Low-Moderate Income housing. Variances may be needed for size of parking spaces and aisle width to be determined at Preliminary Phase after property survey has been completed.
4. The proposed development is consistent with the general purposes stated in Article 1 of the Planning Board’s subdivision and development review regulations.
5. The proposed development is consistent with the Comprehensive Plan.
6. The Board has considered any testimony at the Public Hearing.
7. There will be no significant negative environmental impacts from the proposed subdivision, with any conditions of approval.
8. The building is not within the historic district. However, project has been designed with the goal of achieving Federal and State Historic Tax Credits. The building has an historic easement condition on the façade such that the exterior cannot be altered being a contributing element of the adjacent historic district.

The Board grants/does not grant the following waivers to the regulations finding that they are/are not in the best interest of planning:

1. *Waiver for application fee.*

Master Plan approval for the Major Land Development for the conversion of the former Oliver School into 11 residential units as apartments as shown on plans by JHL Texture, entitled “General Planning Drawings for Oliver School Apartments” dated November 9, 2023 and February 9, 2024 with conceptual exterior design plans by Sunflower Designs dated February 20, 2024 and February 21, 2024.



Town of Bristol, Rhode Island

Department of Community Development

10 Court Street
Bristol, RI 02809
bristolri.gov
401-253-7000

March 4, 2024

TO: Planning Board

FROM: Diane M. Williamson, Administrative Officer

RE: **Minor Subdivision – Unified Development – Preliminary Phase
68 Magnolia Street**

A handwritten signature in cursive script, appearing to read "Diane M. Williamson", is written over the "FROM:" line of the letter.

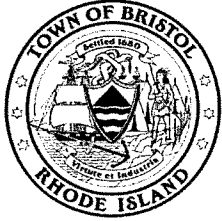
The above application is before you for a Public Hearing and action on the dimensional variance and the preliminary phase of the minor subdivision.

The TRC meeting notes are attached.

The TRC recommended that 2 street trees be planted to compensate for the loss of the existing tree on the proposed vacant lot. The application has not been revised to indicate the street tree plantings and I recommend that any approval be subject to the requirement for the street tree plantings with revised plans for final. I also request that any approval be conditioned on the Planning Board consultant engineer review, and any needed modification, of the drainage plans prior to the issuance of the building permit for the vacant lot. It is noted that the drainage plans anticipated a certain square footage for the proposed dwelling and any change of that at the time of the actual building permit could require a modification of the drainage design.

Thank you.

Town of Bristol, Rhode Island



Department of Community Development

10 Court Street
Bristol, RI 02809
www.bristolri.us
401-253-7000
f. 401-253-3080

CERTIFICATE OF COMPLETENESS

Minor Subdivision/Unified Development – Preliminary Plan Phase – 68 Magnolia Street

February 14, 2024

TO: Craig Barry, Narragansett Engineering, Inc
Joshua Agoston, Magnolia Improvement, LLC

FROM: Diane M. Williamson, Administrative Officer

RE: Minor Subdivision/Unified Development – Preliminary Phase – 68 Magnolia

Pursuant to the Bristol Land Development and Subdivision Review regulations the plans and supporting documentation for the above-referenced plan, which were submitted on January 5, 2024 and re-submitted on February 9, 2024 are deemed to be complete on February 14, 2024 for purposes of commencing review. Please note that the Town may subsequently require correction of any information found to be in error and submission of additional information not required for certification, as is necessary to make an informed decision.

The Planning Board will take action on the application within ninety five (95) days of the issuance of the Certificate of Completeness, **which date is May 19, 2024**, unless an extension is mutually agreed upon.

**Diane M. Williamson,
Administrative Officer**



Civil • Survey • Structural • Environmental • Design
3102 East Main Road, Portsmouth RI 02871
Tel. 401.683.6630 www.nei-cds.com

February 9, 2024

To:

Town of Bristol
Planning Board
10 Court Street, Bristol, RI 02809
Director of Community Development: Diane Williamson
E: dwilliamson@bristolri.gov
T: 401-253-7000 x126

CC: Zoning Enforcement Officer: Edward Tanner
E: etanner@bristolri.gov
T: 401-253-7000 x128

**Subject: Agostini Minor Subdivision – 68 Magnolia St Bristol, RI [Plat: 23, Lot: 185, 189, 192]
(NEI job 23.0144) REV.1**

Minor Subdivision – Preliminary Stage

This package includes the following:

5 copies of each unless stated otherwise:

- Minor Subdivision Narrative (REV.1)(8.5 x 11)
- Response to Comments (8.5 x 11)
- Site/Civil Plans (REV.1) by Narragansett Engineering dated 1/3/24 – 4 Sheets (24 x 36 and 11 x 17 – 5 copies of each size)
- RIDEM Appendix A LID Site Planning Checklist (8.5 x 11)(1 copy)
- Stormwater Report By Narragansett Engineering (8.5 x 11) (1 copy)

If you need additional information or have any questions or concerns, please do not hesitate to contact my office at (401)683-6630 or email cbarry@nei-cds.com

Dropped off by NEI staff on 2/9/24



Civil - Survey - Structural - Environmental - Design
3102 East Main Road, Portsmouth RI 02871
Tel. 401.683.6630 www.nei-cds.com

To:
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10 Court Street, Bristol, RI 02809
Director of Community Development: Diane Williamson
E: dwilliamson@bristolri.gov
T: 401-253-7000 x126

Response to Preliminary Application Comments

RE: Agostini Minor Subdivision
68 Magnolia St Bristol RI
Tax Assessor's Plat: 23
Tax Assessor's Lot: 185,189,192

Comments in Black (comments from 1-12-24)
[Responses in Blue](#)

Comments from Planning Office

1. Plans must include a notation with the Flood Zone Designation (B19)

[A FEMA Flood map has been added to sheet SV-100 and note 11 in survey notes has been updated to designate the flood zone. This site is not in a flood zone.](#)

2. Plans must show trees with a 12" or larger caliper (B17)

[Trees with larger than 12 caliper have been added to the plans.](#)

3. Proposed use of existing building (B16)

[The proposed use of the building is to remain a single family 2-bedroom structure. This note has been added to the plans.](#)

4. The adjacent lots not indicated on the GIS have been merged with Lot 186 owned by Jose Amaral, please update the plans.

[The abutting lots have been updated accordingly](#)

5. The LID Site Planning and Design Checklist. (D4)

[An LID site planning and design checklist will be submitted in this response to comments along with a full stormwater report.](#)

If you have any question do not hesitate to reach out to my office 401.683.6630 or email cbarry@nei-cds.com.



Civil • Survey • Structural • Environmental • Design
 3102 East Main Road, Portsmouth RI 02871
 Tel. 401.683.6630 www.nei-cds.com

January 25, 2024

Town of Bristol RI
 Planning Board
 10 Court St
 Bristol RI 02908

Subject: Minor Subdivision - Agostini 68 Magnolia St Bristol RI 02809 [Plat: 23, Lot:
 185,189,192] (NEI job 23.0144) REV.1

Minor Subdivision Narrative

Existing Conditions

Three parcels (Plat 23 Lot 185,189,192) that are known as 68 Magnolia St are merged into 1 lot by section 28-221-C-2 (Land Non-conforming by Area) of the Bristol Zoning Ordinance where;

Adjacent lawfully established undeveloped lots, or adjacent lawfully established developed and undeveloped lots, in the same ownership in the OS, EI, R-15, R-10, R-10SW, R-8 and R-6 zones which have less than the minimum area or frontage requirements shall be deemed to be merged together as one lot by operation of this chapter. Any such merged lot shall not be divided except as follows:

Any such division shall be deemed to be a subdivision and subject to all requirements of the subdivision regulations of the town, including without limitation the requirement for planning board approval; and

All resulting lots must meet all dimensional requirements of this chapter, including without limitation, the minimum lot area and frontage requirements, or obtain a dimensional variance from the zoning board of review. The zoning board may grant a dimensional variance for previously merged lots from the requirements of this merger provision wherein the zoning board may make a specific finding of fact that lots, as unmerged, will be of a size generally in conformance with the area of developed lots in the surrounding vicinity.

Such lots shall further have the minimum width requirement of lots in that zone generally or at the very least shall have a lot width of not less than 80 percent of the lot width required for the underlying zone.

This existing lot conforms to the Bristol RI dimensional zoning regulations for an R-6 zone except for the rear setback which is a pre-existing non-conforming condition. There is currently a single-family, 2-bedroom residence located on this lot with sewer and water connection in Magnolia St.

Proposed Minor Subdivision

We would like to perform a minor subdivision on this merged lot and create 2 lots of record, lot 189 and 192.

Lot 192 will contain the existing structure. The square footage of this lot will be 9,600 sq ft. This lot will require a variance for the side setback. See below. This lot conforms to all other dimensional setbacks except for the rear setback which was pre-existing non-conforming condition.

Lot 189 will be a vacant lot with plans for a conforming structure in the future.

Side Setback (Lot 192)

Required – 10 ft

Provided – 8.2 ft

Variance Requested – 1.8 ft

Under the new land use laws that went into effect on January 1st, 2024, this project will fall under unified development review and the planning board will be able to act as the zoning board and be able to review and approve these variances.

Proposed Site Plan (Lot 189)

The proposed structure on lot 189 will conform to all zoning regulations. The proposed property will have a permeable driveway and walkway. The proposed structure will also include a garage and deck. The utility connections include water, sewer, and overhead electric. The water and sewer authority has confirmed that there is enough capacity to handle these proposed connections. The existing sewer connection will have to be reconfigured to avoid an easement between these two lots. Stormwater mitigation has been designed with 2 drywells. Stormwater design and calculations are being submitted at this stage and conform to Chapter 29 of the Bristol Town Code.

Should you have any questions please do not hesitate to reach out to our office 401.683.6630 or email cbarry@nei-cds.com.

Narragansett Engineering Inc
401-683-6630 – Neal Hingorany, PLS



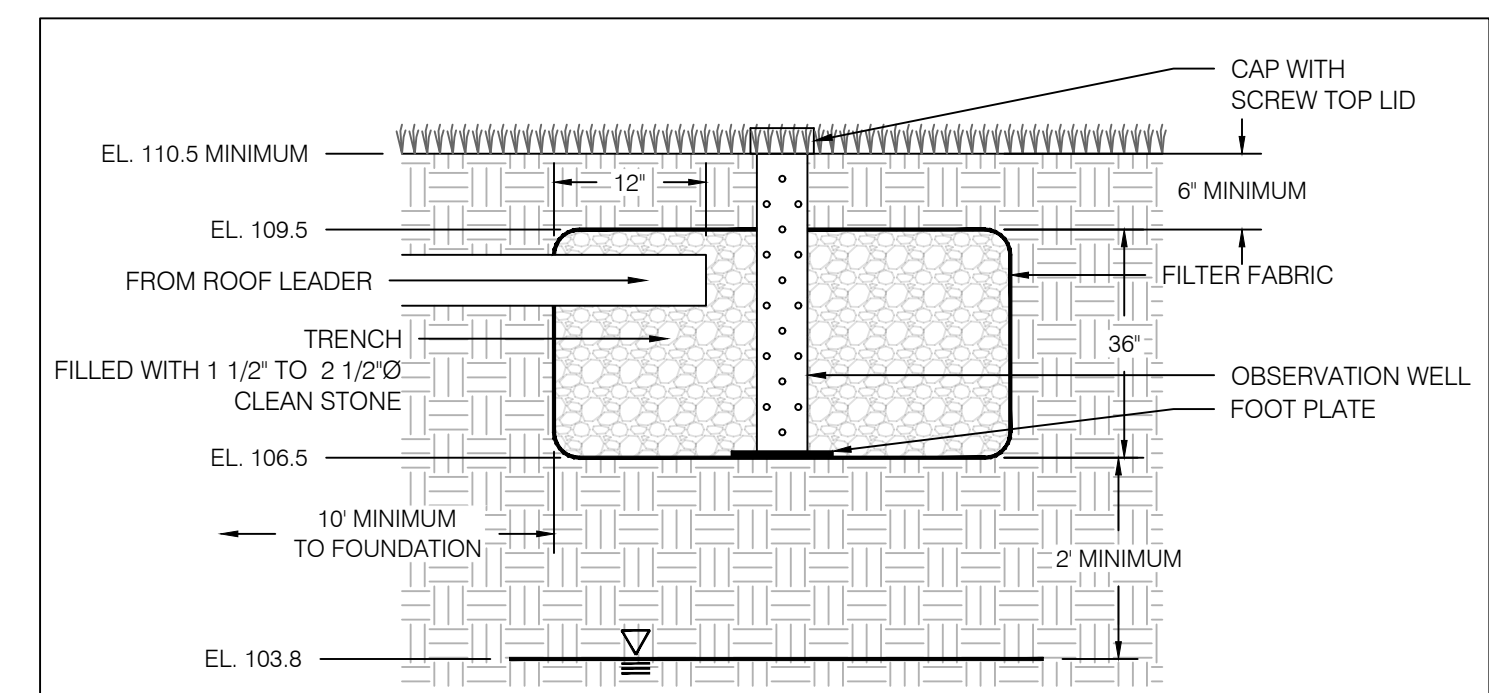
STORMWATER NOTE:
PER AN EMAIL FROM EDWARD M TANNER, PRINCIPAL PLANNER/ZONING OFFICER ON JAN 26, 2023, THE PROPERTY IS LOCATED OUTSIDE OF THE TANYARD BROOK WATERSHED AND IS SUBJECT ONLY TO CHAPTER 29 OF THE BRISTOL TOWN CODE

SOILS DATA PER NRCS:
CC--Canton-Urban land complex, very rocky

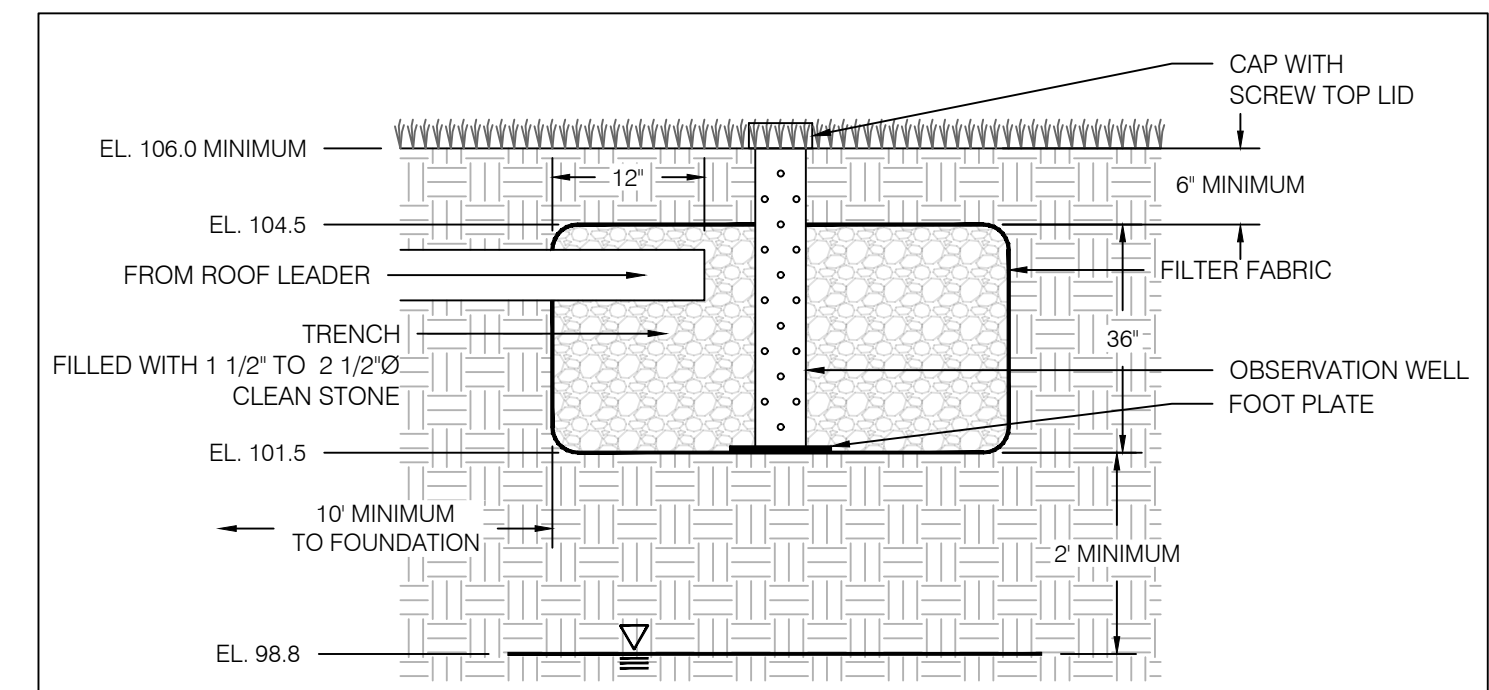
Typical profile
0- 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: gravelly fine sandy loam
Bw1 - 3 to 15 inches: gravelly loam
Bw2 - 15 to 24 inches: gravelly loam
Bw3 - 24 to 30 inches: gravelly loam
2C - 30 to 60 inches: very gravelly loamy sand

Properties and qualities
Slope: 0 to 15 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply: 0 to 60 inches: Low (about 5.6 inches)

UTILITY NOTE:
ALL UTILITIES SHALL CONFORM TO AHJ REQUIREMENTS. THESE ARE SHOWN SCHEMATICALLY FOR SUBDIVISION PERMITTING ONLY. SEWER LINES ARE DISPLAYED PER EMAIL DISCUSSION WITH JOSE DASILVA, SUPERINTENDENT ON AND AROUND NOV. 9 2023. SEWER LINE AS SHOWN IS CONCEPTUALLY ACCEPTABLE



DRY WELL NOTES:
1. SHGWT OF 80' + ACCORDING TO NRCS GIS
2. DRY WELL TO BE INSPECTED ANNUALLY AND REPAIRED IF NECESSARY TO ENSURE PROPER DRAINAGE.
3. DRY WELL CONSTRUCTION PER STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT



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PROPOSED LOT 189 COVERAGE

No	LOT	DESCRIPTION	AREA	UNITS
1	189	LOT AREA	6,000	S.F.
2		PROPOSED STRUCTURE	1,456	S.F.
3		incl. decks + garage		S.F.
4				S.F.
8		TOTAL LOT COVERAGE AREA	1,456	S.F.
9				
10		LOT COVERAGE	24.3%	
		MAXIMUM LOT COVERAGE	30%	

NEI
Narragansett Engineering Inc.
Civil - Survey Structural Environmental Design
3102 East Main Road, Portsmouth RI 02871
Tel. 401.683.6630 www.nei-cds.com

SHEET TITLE
AGOSTINI SUBDIVISION
PROPOSED SITE/CIVIL PLAN
GRADING AND UTILITIES

Josh Agostini
58 Magnolia St
Bristol, RI 02809
T. 774-991-2406
E. josh@ettebuildingteam.com

Property Records
68 Magnolia St, Bristol, RI 02809
Plat: 23, Lot: 189
Zone: R-6, Area: 0.122 Acres
N/F: Magnolia Improvements LLC
Year Built: 1950
Book/Page: 2082-255

Roma St, Bristol, RI 02809
Plat: 23, Lot: 185
Zone: R-6, Area: 0.103 Acres
N/F: Magnolia Improvements LLC
Year Built: 1950
Book/Page: 2082-255

Magnolia St, Bristol, RI 02809
Plat: 23, Lot: 192
Zone: R-6, Area: 0.122 Acres
N/F: Magnolia Improvements LLC
Year Built: 1950
Book/Page: 2082-255

JOSEPH W. MALO
No. 10073
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

2/8/24

PROJECT #	DATE	DRAWN	CHECK
23.0144	01/03/24	CB	NKH

No	DATE	REVISIONS/DESCRIPTION	BY
1	1/16/24	MINOR SUBD. COMMENTS & TRC MEETING	CB

PURPOSE + GOALS

LOTS 185 + 192 + 189 ARE A SINGLE LOT OF RECORD (MERGED)
THESE LOTS SHALL BE SUBDIVIDED INTO TWO PARCELS OF RECORD
LOT 189 (68 MAGNOLIA)
LOT 192

DRAWINGS MUST BE PRINTED IN COLOR TO BE VALID. THIS NOTE SHOULD BE BLUE. IF THIS NOTE IS NOT BLUE, PLEASE REPRINT IN COLOR OR CONTACT NEI.



SCALE 1" = 10'

C-100

SITE DESIGN NOTES

- BUILDINGS, UTILITIES AND GRADING SHOWN ARE SCHEMATIC ONLY
- UTILITY SERVICE LINES SHALL BE CONSTRUCTED IN CONFORMANCE WITH AHJ REQUIREMENTS.
- BMP'S SHOWN ARE SCHEMATIC, SHOWING THE APPROXIMATE LOCATION AND SIZE FOR MASTER PRELIMINARY
- PATIOS SHALL BE CONSTRUCTED ON GRADE IN CONFORMANCE WITH ZONING ORDINANCE TO AVOID REQUIRING AREAS TO BE ADDED TO LOT COVER
- A DRIVEWAY/CURB CUT APPLICATION AND PHYSICAL ALTERATION/EXCAVATION PERMIT MUST BE SUBMITTED BY THE NEW OWNER WHEN HOME CONSTRUCTION IS BEING PLANNED.

DESIGN NOTE:
FOUNDATION AND DAMP PROOFING MAY BE REQUIRED SUBJECT TO ARCHITECTURAL DESIGN. ARCHITECT / CONTRACTOR TO COORDINATE ANY SUBDRAINS AND SUMP PUMPS LOCATIONS AND CONSTITUENCY

GENERAL NOTES:

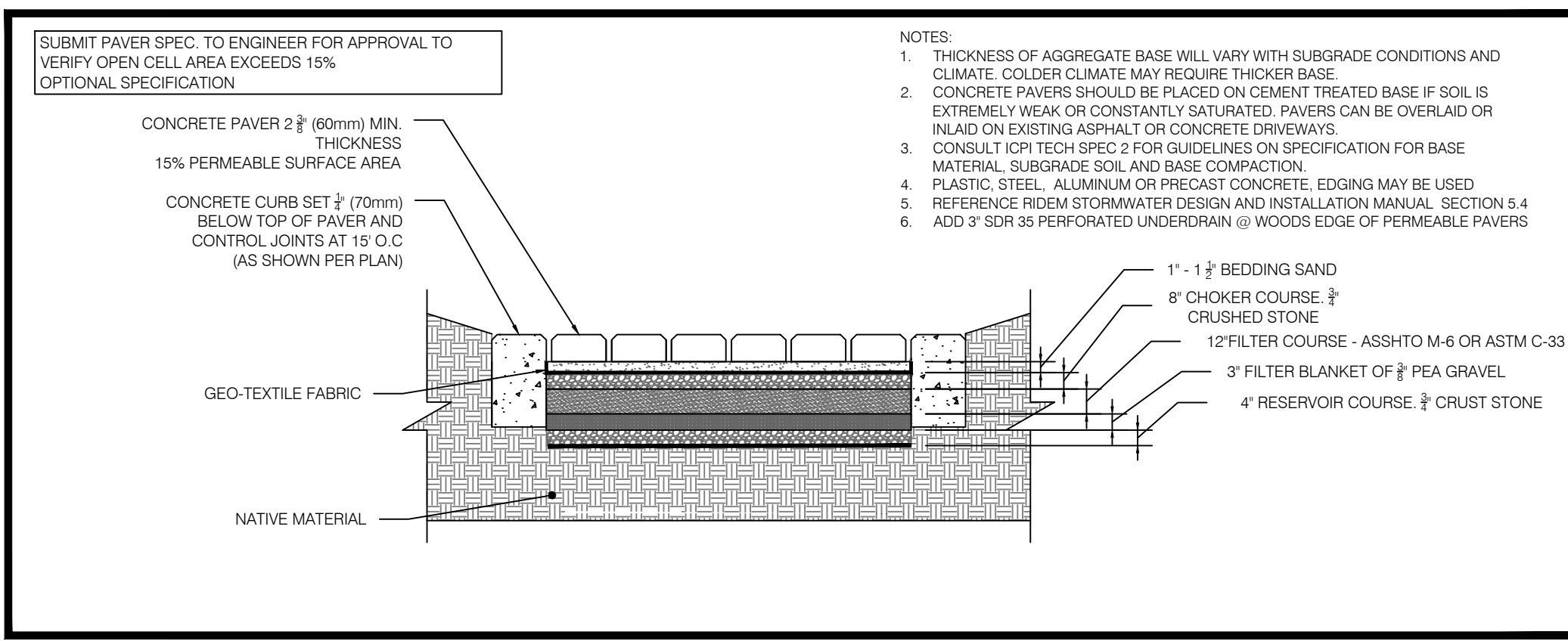
- THE STATE OF RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL CONFORM TO RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION OR LATEST REVISION. THE 2004 EDITION OF THE STANDARD SPECIFICATION MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO APPLY FOR AND OBTAIN ANY AND ALL NECESSARY PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH ARCHITECT OR ENGINEER AS NECESSARY
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE JOB SITE. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ANY EXPOSED EXCAVATED AREAS IN ACCORDANCE WITH OSHA STANDARDS.
- IN THE CASE THAT ANY DEVIATION / ALTERATION / OR IMPROVEMENT FROM THE APPROVED PLANS IS NECESSARY THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER PRIOR TO OCCURRENCE OF DEVIATION
- ALL WORK SHALL BE LIMITED TO THE AREAS WITHIN THE LIMIT OF DISTURBANCE DISPLAYED ON THESE PLANS OR PROPERTY LINE IF LIMIT OF DISTURBANCE IS UNCLEAR. ANY AREA DISTURBED OUTSIDE OF THE LIMIT OF DISTURBANCE SHALL BE REPAIRED AND RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER OR ENGINEER, AND PERFORMED TO THE ENGINEERS SATISFACTION
- ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATION SHOWN ON THESE PLANS AND/OR ACCOMPANYING SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF ANY CONFLICTS WITH EXISTING CONDITIONS OR PROPOSED CONDITIONS EXIST. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED
- EXCAVATED ROCK SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE OWNER. SUITABLE ROCK MAY BE UTILIZED IN FILL AREAS WITH WRITTEN PERMISSION OF THE OWNERS REPRESENTATIVES
- DEBRIS, ORGANICS AND OTHER UNSUITABLE MATERIALS UNCOVERED DURING THE COURSE OF SITE EXCAVATION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES THAT SERVICE THE SITE AND NEIGHBORING AREAS. IF ANY DAMAGE OCCURS TO EXISTING UTILITIES IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PAY ALL COSTS ASSOCIATED WITH REPAIR OF UTILITIES AS DIRECTED BY THE ENGINEER, UTILITY OWNER, OR GOVERNING AGENCY
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE-OFF IN COMPUTING ANY ESTIMATES
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. 'DIG SAFE' SHALL BE CONTACTED BY THE CONTRACTOR AS PART OF THIS VERIFICATION
- NO EXCAVATION SHALL PROCEED UNTIL UTILITY COMPANIES ARE NOTIFIED IN ADVANCE
- ALL TREE PROTECTION BY OTHERS UNLESS OTHERWISE NOTED
- CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS WITH APPROPRIATE SEED MIXTURES

GRADING AND UTILITIES NOTES:

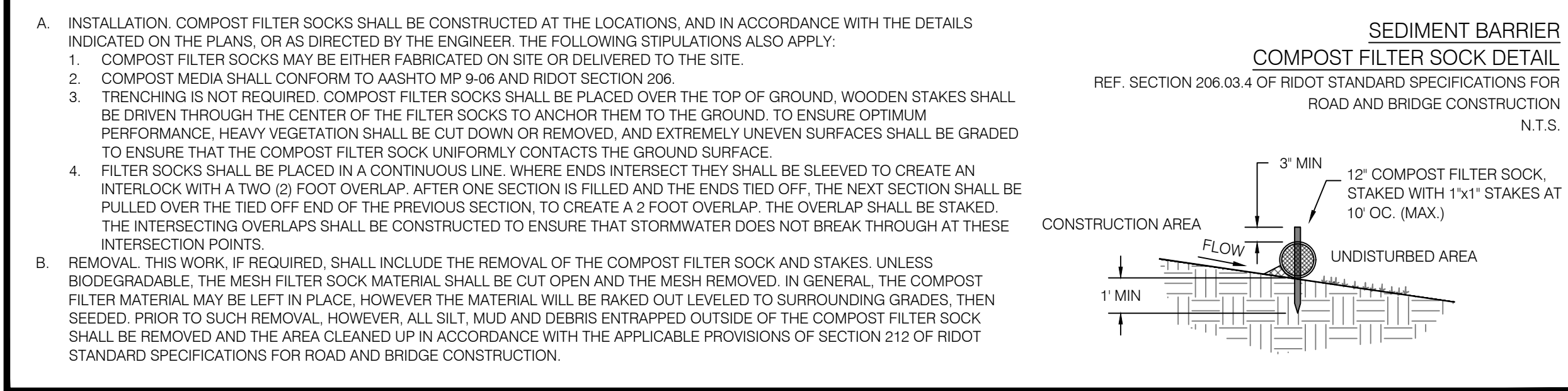
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED WORK SHOWN ON THESE PLANS DO NOT CONFLICT WITH ANY EXISTING CONDITIONS OR OTHER PROPOSED WORK. IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEERS APPROVAL
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH WORK, THE LOCATION, ELEVATION, SIZE AND MATERIAL SHALL BE ACCURATELY DETERMINED BY THE CONTRACTOR IMMEDIATELY AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL NOT CONTINUE WORK ON AFFECTED UTILITIES UNTIL THE CONFLICT IS RESOLVED
- ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINE AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABOUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS
- ALL UTILITY COVERS, GRATES, AND THE LIKE SHALL BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH. RIM ELEVATIONS ARE APPROXIMATE. AND FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH GRADING
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANY, AS REQUIRED.
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADING. ANY DAMAGE RESULTING TO THESE FACILITIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE
- ALL WATER WORKS SHALL HAVE 5 FEET OF COVER
- GAS, ELECTRIC, AND COMMUNICATIONS ROUTING ARE SUBJECT TO REVIEW AND APPROVAL BY UTILITY COMPANY
- EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINE OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATION AT NO COST TO THE OWNER
- PITCH EVENLY BETWEEN ALL SPOT GRADES.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY ROCKS, DEBRIS, ORGANICS, OR THE LIKE UNCOVERED IN THE COURSE OF WORK
- REFER TO RECORDS BY CITY OF NEWPORT UTILITIES FOR LATERAL INFORMATION
- ANY EXISTING UNKNOWN UTILITIES SHALL BE ALLOWED TO REMAIN IN THEIR PRESENT LOCATION UNLESS OTHER PROVISIONS ARE MADE FOR EASEMENTS

EROSION AND SEDIMENT CONTROL NOTES:

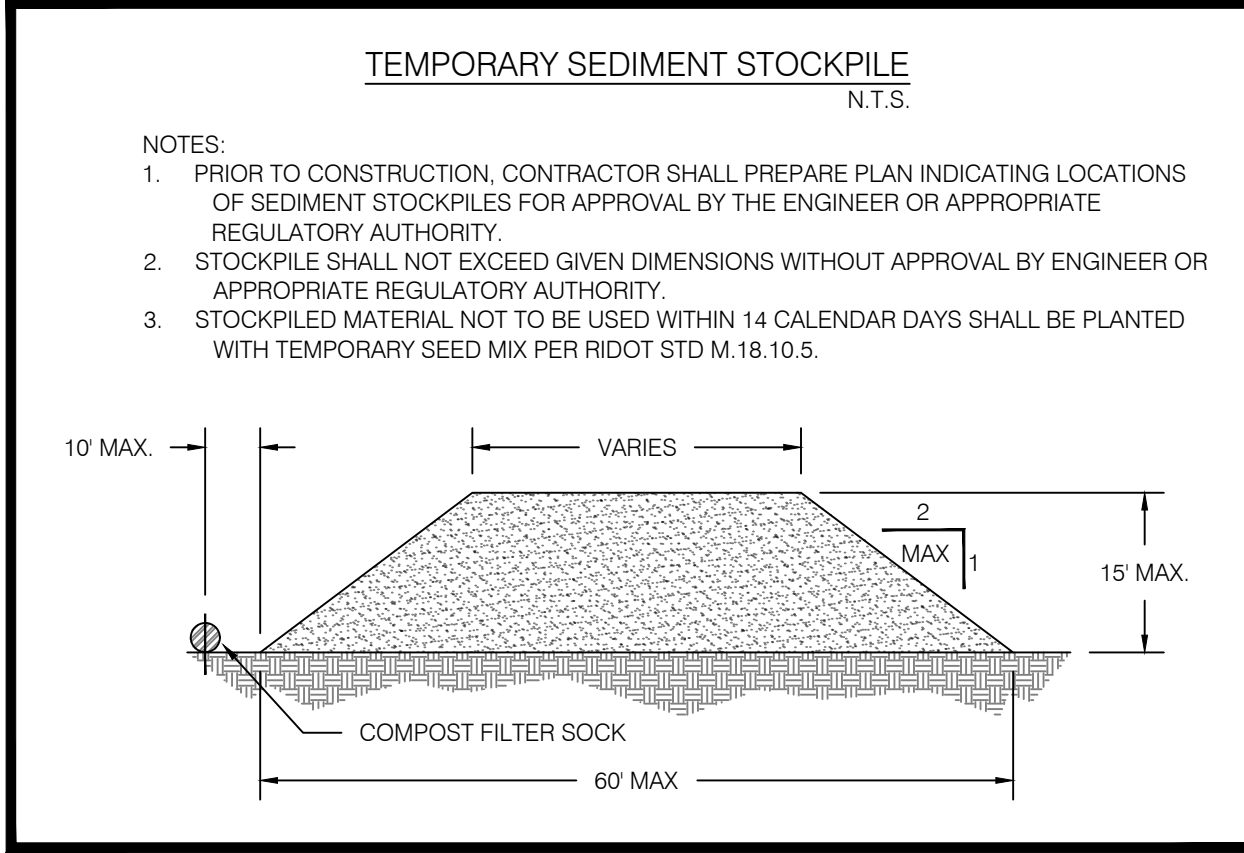
- ALL EROSION CONTROL SHALL BE IN ACCORDANCE WITH RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST REVISION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL MEASURES SHOWN ON THESE PLANS
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ONCE WEEKLY OR AFTER EVERY RAINFALL EVENT GREATER THAN 0.25 INCHES.
- SEDIMENT BUILD UP GREATER THAN ONE-HALF THE BARRIER HEIGHT SHALL BE REMOVED AND DISPOSED OF PROPERLY AS REQUIRED. ANY SEDIMENT BUILD UP OUTSIDE OF THE SEDIMENT BARRIER SHALL BE REMOVED IMMEDIATELY
- CONTRACTOR SHALL MAINTAIN A RESERVE OF EROSION CONTROL MATERIALS FOR EMERGENCY USE AND ROUTINE MAINTENANCE
- THE CONTROLS SHOWN ON THESE PLANS ARE INTENDED AS MINIMUM MEASURES. ADDITIONAL MEASURES MAY BE REQUIRED AND SHALL BE IMPLEMENTED BY THE CONTRACTOR IF WARRANTED OR REQUESTED BY THE OWNER, OWNERS REPRESENTATIVE, ENGINEER, OR ANY APPLICABLE REGULATING AGENCY.
- PRIOR TO THE START OF ANY LAND CLEARING / GRUBBING OR OTHER CONSTRUCTION ACTIVITY THE PERIMETER CONTROLS SHALL BE PLACED, PROPERLY CONSTRUCTED AND CLEARLY VISIBLE. THESE CONTROLS SHALL REPRESENT THE LIMITS OF WORK AND WORKERS SHALL BE NOTIFIED THAT NO CONSTRUCTION ACTIVITY IS ALLOWED BEYOND THESE CONTROLS
- IF OR AS POSSIBLE CONSTRUCTION SHALL BE PHASED TO LIMIT TO THE MAXIMUM EXTENT PRACTICABLE THE AMOUNT OF EXPOSED SOILS. ALL DISTURBED AREAS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 14 DAYS OF COMPLETION OF GRADING ACTIVITIES
- THE CONTRACTOR SHALL SCHEDULE WORK IN A WAY TO ALLOW POSITIVE DRAINAGE OF SUBGRADE THROUGHOUT CONSTRUCTION
- CONSTRUCTION ENTRANCES PER RIDOT STANDARD DETAIL 9.9.0 SHALL BE EMPLOYED AT ALL POINTS OF INGRESS AND EGRESS FROM THE SITE
- TEMPORARY DIVERSIONS, SEDIMENT BASINS, AND TEMPORARY SWALES MAY BE USED AND SHALL BE SIZED ACCORDING TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK
- CATCH BASINS AND STORM DRAINS SHALL BE PROTECTED PER RIDOT STANDARD DETAIL 9.8.0 IN GRASSED AREAS OR SEDIMENT BAGS IN PAVED AREAS
- TEMPORARY SEDIMENT STOCK PILES SHALL BE KEPT MOIST AND COVERED AT ALL TIMES. CALCIUM CHLORIDE SHALL ONLY BE USED IF AN APPROVAL FROM THE TOWN/CITY OR OTHER APPLICABLE AGENCY HAS BEEN GRANTED
- DEWATERING FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREAS AND DISCHARGED INTO A DEWATERING BASIN PER RIDOT STANDARD 9.7.0. HAYBALE CORRALS, OR SEDIMENTATION BAGS. THE CONTRACTOR SHALL ENSURE THAT NO CONTAMINATE IS PRESENT IN ANY WATERS PRIOR TO DISCHARGE FROM SITE AND IS RESPONSIBLE FOR ALL ENGINEERING, EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR THE SITE WATER REMOVAL DURING CONSTRUCTION
- CONSTRUCTION WASTE MATERIALS SHALL BE KEPT ON-SITE AND DISPOSED OF IN AN APPROVED AND APPROPRIATE MANNER IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCIES.
- RIPRAP SHALL BE USED WHERE NECESSARY TO CONTROL EXIT VELOCITIES
- NON MOBILE (I.E. TRACKED MACHINERY) SHALL BE MAINTAINED WITHIN THE LIMIT OF DISTURBANCE DEFINED BY SEDIMENT BARRIER
- NEWLY VEGETATED AREAS SHALL BE REGULARLY INSPECTED AND MAINTAINED TO ENSURE ESTABLISHMENT OF APPROPRIATE VEGETATION
- THE CONTRACTOR SHALL NOT REMOVE ANY EROSION AND SEDIMENTATION CONTROL MEASURES UNTIL FINAL ACCEPTANCE OF THE SITE HAS OCCURRED
- ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO THE FINAL SITE ACCEPTANCE



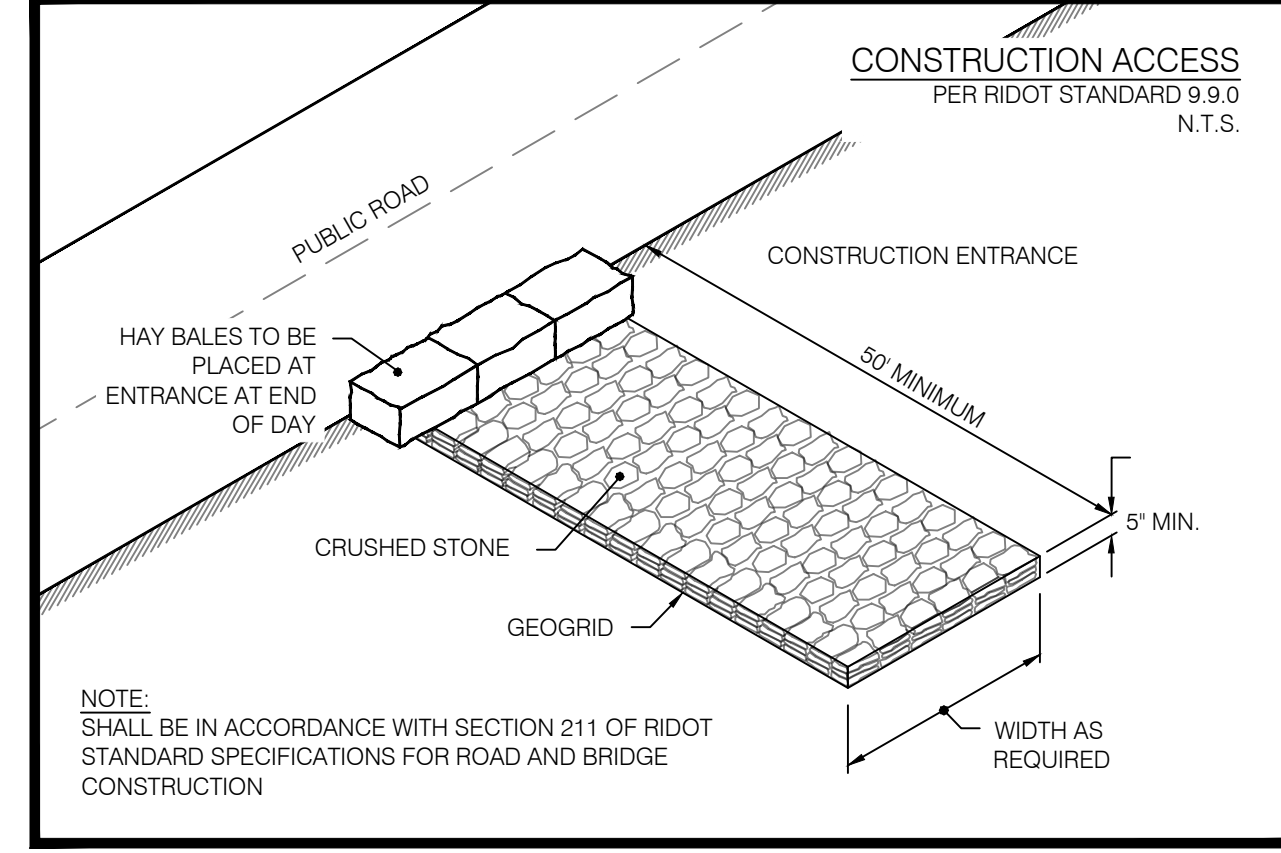
1 PERVIOUS PAVER DETAIL ALTERNATE TO CRUSHED STONE DRIVE
SCALE: NOT TO SCALE



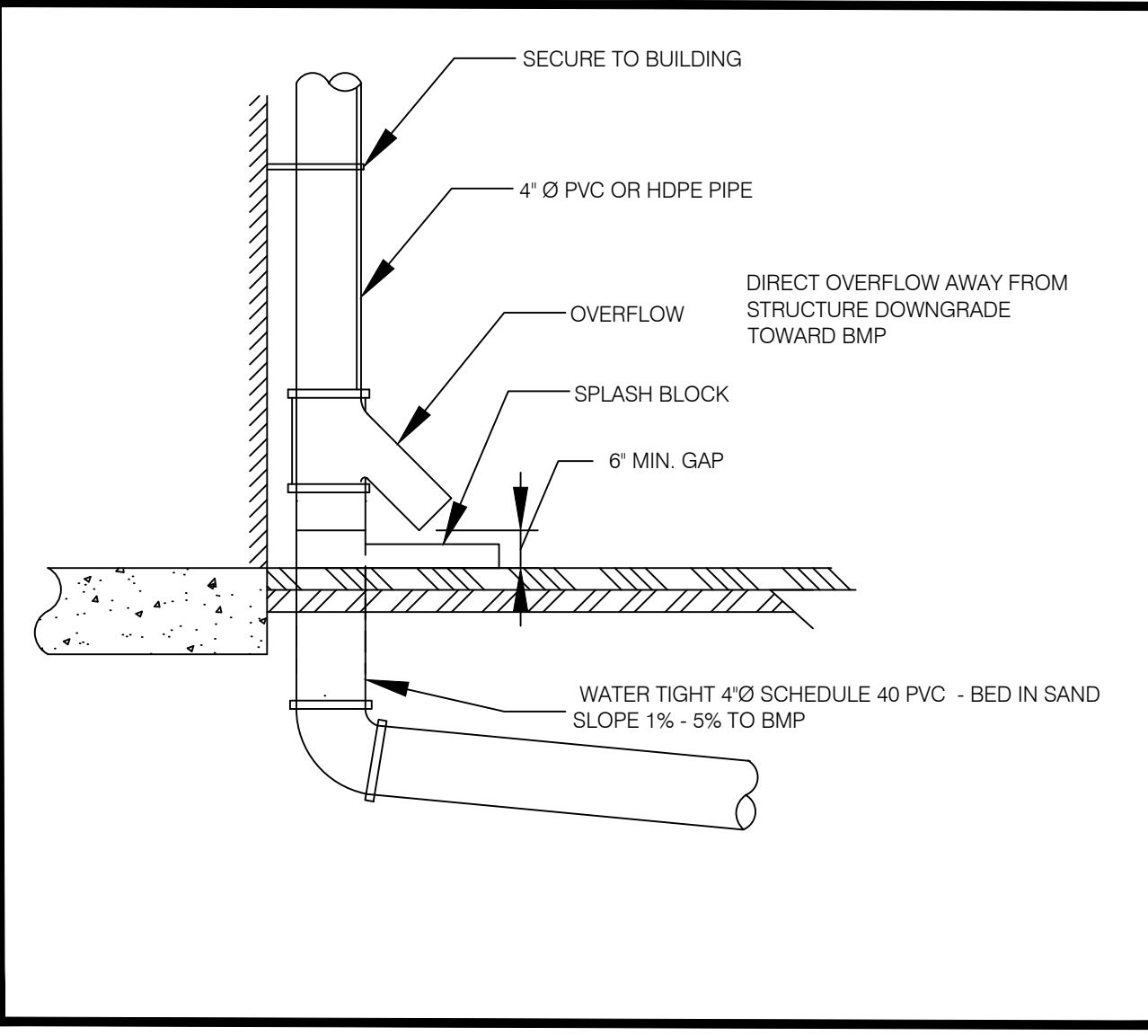
2 COMPOST FILTER SOCK (SED)
SCALE: NOT TO SCALE



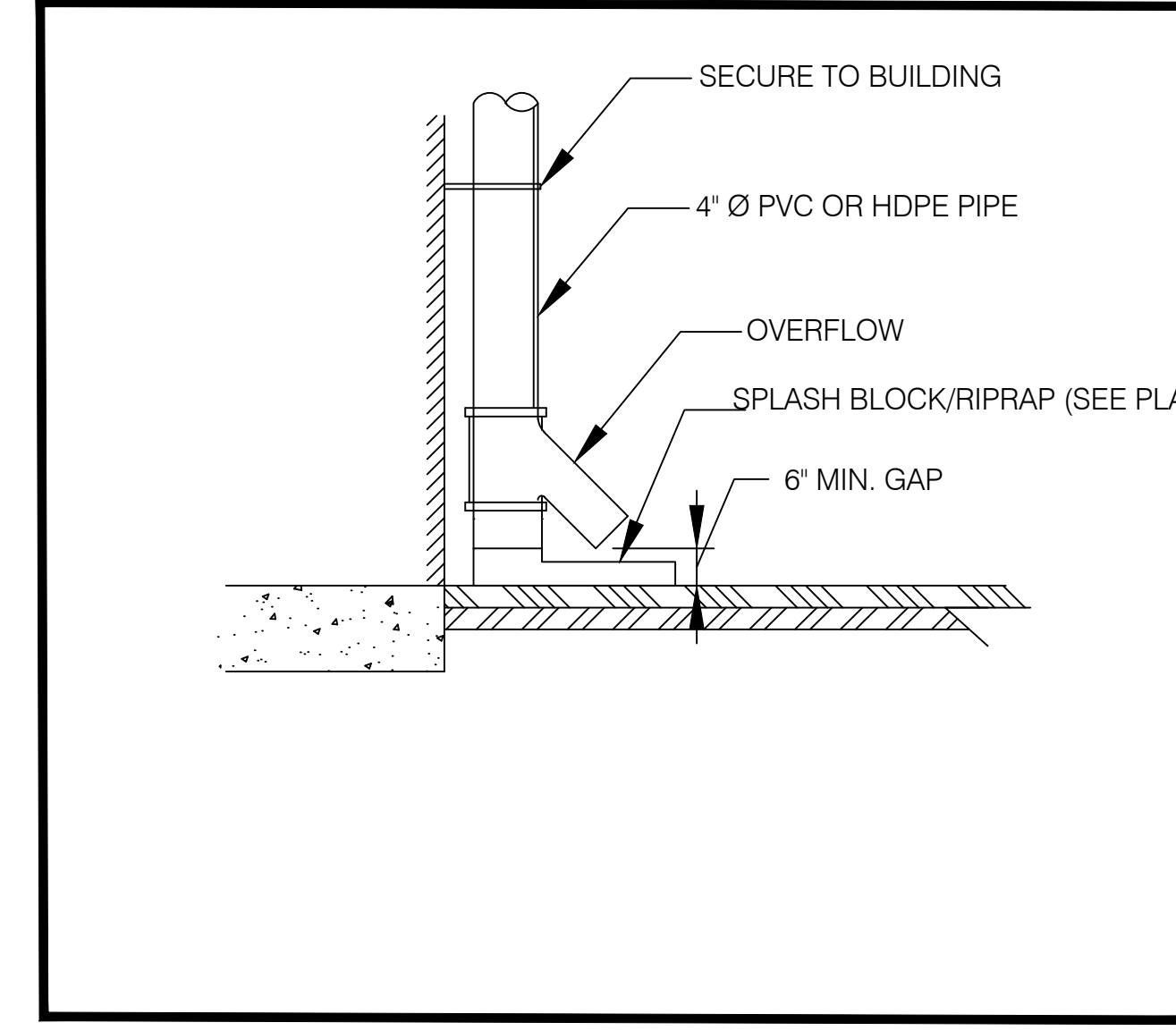
3 STOCKPILE DETAIL
SCALE: NOT TO SCALE



4 CONSTRUCTION ENTRANCE
SCALE: NOT TO SCALE



5 ROOF DRAIN TYPE C
SCALE: NOT TO SCALE



6 ROOF DRAIN (A)
SCALE: NOT TO SCALE

NEI
Narragansett Engineering Inc.
Civil - Survey Structural Environmental Design
3102 East Main Road, Portsmouth RI 02871
Tel. 401.683.6630 www.nei-cds.com

SHEET TITLE
AGOSTINI SUBDIVISION
PROPOSED SITE/CIVIL PLAN
GRADING AND UTILITIES

Josh Agostini
58 Magnolia St
Bristol, RI 02809
T: 774-991-2406
E: joshag@ettebuildingteam.com

Property Records
68 Magnolia St, Bristol, RI 02809
Plat: 23, Lot: 189
Zone: R-6, Area: 0.122 Acres
N/F: Magnolia Improvements LLC
Year Built: 1950
Book/Page: 2082-255

Magna St, Bristol, RI 02809
Plat: 23, Lot: 185
Zone: R-6, Area: 0.103 Acres
N/F: Magnolia Improvements LLC
Year Built: 1950
Book/Page: 2082-255

Magna St, Bristol, RI 02809
Plat: 23, Lot: 192
Zone: R-6, Area: 0.122 Acres
N/F: Magnolia Improvements LLC
Year Built: 1950
Book/Page: 2082-255

2/8/24

PROJECT #	DATE	DRAWN	CHECK
23.0144	01/03/24	CB	NKH
No	DATE	REVISIONS/DESCRIPTION	BY
1	1/16/24	MINOR SUBD. COMMENTS & TRC MEETING	CB

PURPOSE + GOALS

LOTS 185 + 192 + 189 ARE A SINGLE LOT OF RECORD (MERGED)
THESE LOTS SHALL BE SUBDIVIDED INTO TWO PARCELS OF RECORD
LOT 189 (68 MAGNOLIA)
LOT 192

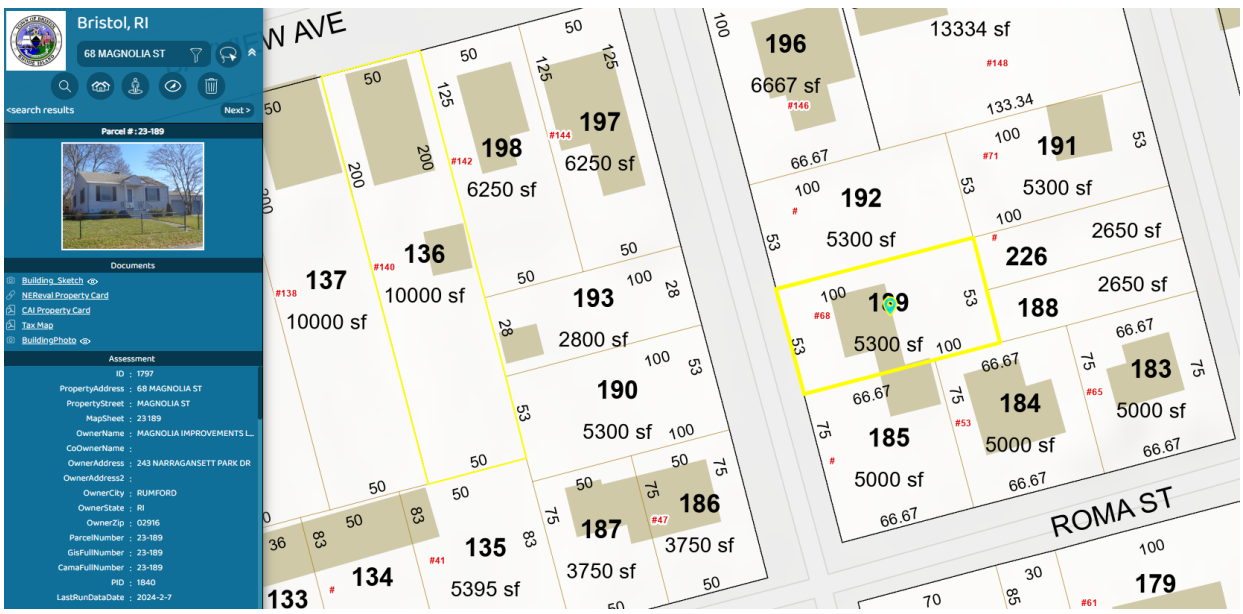
E:\PROJECTS\23.0144_AGOSTINI (MAGNOLIA ST)\SUBDIVISION\DWG C-101_NEI-Standard.ctb 2/8/2024 Craig Barry



Civil • Survey • Structural • Environmental • Design
3102 East Main Road, Portsmouth RI 02871
Tel. 401.683.6630 www.nei-cds.com

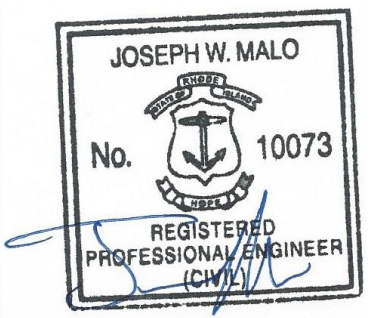
Stormwater Report, Operations and Maintenance

68 Magnolia St, Bristol RI AP 23-185, 189, 192



Property Owner:

Josh Agostini
58 Magnolia St
Bristol, RI 02809
T. 774-991-2406
E. josha@elitebuildingteam.com



2/8/24

NEI Job Number: 23.0144
N:\PROJECTS\23.0144_AGOSTINI (MAGNOLIA ST)\SITE-CIVIL\Stormwater
Prepared by: Narragansett Engineering, Inc. 3102 East Main St, Portsmouth, RI 02871

CONTENTS

1. INTRODUCTION 2

2. EXISTING CONDITIONS..... 3

3. PROPOSED CONDITIONS 4

4. HYDROLOGIC ANALYSIS 5

5. CONCLUSIONS. 6

6. OPERATIONS AND MAINTENANCE 7

1. INTRODUCTION

Narragansett Engineering, Inc. (NEI) has prepared this Stormwater Management Report in support of a proposed minor subdivision and new construction located at 68 Magnolia St, Bristol RI.

The includes a proposed single-family dwelling with an attached garage and deck (1,456 sq ft) along with associated infrastructure. This proposed structure will incorporate a crushed stone driveway for access to Magnolia St.

The project includes a number of stormwater best management practices (BMPs) to control stormwater quality and quantity for the development. The BMPs proposed for the project include 2 dry wells.

This Stormwater Management Report provides supporting evaluation, documentation, analysis, and calculations to confirm that all components of the stormwater management system have been designed to comply with the requirements outlined in the latest edition of the “Rhode Island Stormwater Design and Installation Manual (RISDISM).” And the Town of Bristol’s “Chapter 29 – Soil Erosion, Runoff, and Sediment Control” ordinance.

2. EXISTING CONDITIONS

Under existing conditions, the newly subdivided property is a vacant grassed lot with some impervious landscaped features towards the east side of the lot.

The topography of the site slopes predominantly from east to west, and to aid in the simplicity of the model, the watershed limits are just past the site's east and west property line. Currently, there is no stormwater mitigation or treatment on the site.

GROUNDWATER AND SOIL EVALUATION

The screenshot shows a GIS application window with three main panels:

- Map Unit Legend:** A table listing map units CC, PmA, and Ur with their respective names, areas, and percentages.
- Soil Map:** An aerial photograph of the site with an orange boundary overlaying the area of interest. Labels 'CC' and 'PmA' are visible on the map.
- Map Unit Description:** A detailed report for the 'CC-Canton-Urban land complex, very rocky' map unit, including setting, composition, and properties.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CC	Canton-Urban land complex, very rocky	0.6	50.3%
PmA	Pittstown silt loam, 0 to 3 percent slopes	0.5	44.7%
Ur	Urban land	0.1	5.0%
Totals for Area of Interest		1.1	100.0%

Map Unit Description

Report – Map Unit Description

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties
CC-Canton-Urban land complex, very rocky

Map Unit Setting
 National map unit symbol: 9ltw
 Elevation: 0 to 810 feet
 Mean annual precipitation: 44 to 50 inches
 Mean annual air temperature: 48 to 50 degrees F
 Frost-free period: 115 to 195 days
 Farmland classification: Not prime farmland

Map Unit Composition
 Canton and similar soils: 40 percent
 Urban land: 30 percent
 Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Canton Setting
 Landform: Hills
 Down-slope shape: Convex
 Across-slope shape: Convex
 Parent material: Coarse-loamy over sandy and gravelly melt-out till derived from granite and/or schist and/or gneiss

Typical profile
 Oe - 0 to 1 inches: moderately decomposed plant material
 A - 1 to 3 inches: gravelly fine sandy loam
 Bw1 - 3 to 15 inches: gravelly loam
 Bw2 - 15 to 24 inches: gravelly loam
 Bw3 - 24 to 30 inches: gravelly loam
 2C - 30 to 60 inches: very gravelly loamy sand

Properties and qualities
 Slope: 0 to 15 percent
 Surface area covered with cobbles, stones or boulders: 1.6 percent
 Depth to restrictive feature: More than 80 inches
 Drainage class: Well drained
 Runoff class: Low
 Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
 Depth to water table: More than 80 inches
 Frequency of flooding: None
 Frequency of ponding: None

Based on NRCS mapping (see Appendix A.2: NRCS Soils Map), soils within the development areas of the Site are: gravelly sandy loams with a more than 80" water table.

Two soil evaluations were also performed on this site to confirm the sandy loam and a more than 80" water table. See appendix for soil evaluations forms.

Based on the "RISDISM" Table 5-3, Design Infiltration Rates for Different Soil Textures (Rawls et al., 1982), an infiltration rate of 1.02 inches per hour for sandy loam was used for designing the drywells.

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DESIGN POINT

As determined by NEI, based on existing site condition and topography along with the proposed development program, one design point has been used for the stormwater analysis.

- The design point for both existing and proposed is the pavement edge of Magnolia St.

PRE and POST DEVELOPMENT ANALYSIS

Under pre-development conditions, the site stormwater runoff travels to the above-described Design Point, where peak discharge rates were evaluated for Water Quality, the 2-year, 10-year, and 25-year storm events.

The overall post-watershed boundaries are the same as the pre-developed, but they were broken into sub-watersheds to separate the impervious areas being directed toward the designed BMPs.

The proposed time of concentrations (Tc) were below the 6-minute minimum standard per the RISDSM, as such, a 6-minute TC was used for all the proposed watershed paths.

3. PROPOSED CONDITIONS

The site as proposed, will go from a vacant lot to a lot that contains a single-family residence with associated infrastructure. The site will also incorporate a permeable crushed stone driveway to reduce the newly created impervious areas.

The architectural design of the structure is still under development. In the HydroCAD model, we increased the area of the structure by 12% to factor in any increases to the roof area of the structure.

4. HYDROLOGIC ANALYSIS

The hydrologic analysis was performed using HydroCAD software for a 24-hour, Type III rainfall event for Bristol County (Water Quality: 1.2 inches, 2-year: 3.3 inches, 10-Year: 4.9 inches, and 25-year: 6.1 inches)

Table 1 provides a summary of this analysis, which shows that post-development peak discharge rates will be less than pre-development peak discharge rates for all storms.

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Job Number – 23.0144

Table 1: Hydrologic Analysis Summary (See additional details in Appendix C)

Design Point - Overall			
Peak Flow Rate (cfs)			
Design Storm	Existing	Proposed	Change
WQ Storm (1.2")	0.02	0.02	0.00
2 - Year	0.11	0.11	0.00
10 - Year	0.28	0.26	-0.02
25 - Year	0.44	0.39	-0.05
Peak Volume (cf)			
Design Storm	Existing	Proposed	Change
WQ Storm (1.2")	63	79	16
2 - Year	451	440	-11
10 - Year	987	899	-88
25 - Year	1,466	1,373	-93

The HydroCAD model analysis shows that the proposed conditions yield a rate reduction in the proposed storm events for the 2, 10, and 25, year storms from the existing. The water quality storm shows a slight increase but the HydroCAD model did not include the proposed permeable driveway to be conservative. Stormwater flow continues past the site, along the westerly side of Magnolia St.

Stormwater mitigation is achieved via 2 drywell BMP's. These 2 drywells mitigate the roof runoff of the proposed structure and achieve the required amount of the water quality volume. See appendix for the water quality calculation.

5. CONCLUSIONS

This project has been designed in accordance with Bristol RI Chapter 29, Post Development Discharge has been reduced below pre-development rates for the 2-, 10-, and 25-year (Type III) Frequency Storm. The design is in substantial conformance with the Rhode Island Stormwater Design and Installation Standards Manual (RISDISM)

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Job Number – 23.0144

6. OPERATIONS AND MAINTENANCE

Short-term Requirements

Once construction has been completed, more frequent inspections and required maintenance shall be performed during the first growing season. These inspections shall be performed weekly during the first month after construction is completed and monthly for the remainder of the first growing season. The goal of these inspections is to ensure that no erosion of the partially stabilized soils is occurring. Any erosion that is observed shall be remedied quickly by repairing and reseeded as necessary.

OPERATION AND MAINTENANCE PLAN

The stormwater management system, including all structural stormwater controls and conveyances, must have an operation and management plan to ensure that it continues to function as designed. The plan shall identify measures for implementing maintenance activities in a manner that minimizes stormwater runoff impacts. The owners of the lot will be responsible for the operation and maintenance of the site, the estimated budget, and the funding for the activities and equipment required. A legally binding and enforceable maintenance agreement shall be executed between the facility owner and the responsible authority to ensure the following:

REQUIRED ELEMENTS

Dry Well Maintenance

Monthly

- Inspect your gutters after storms to make sure that rainwater drains properly to the dry well
- Ensure caps on observation wells are fastened

Seasonally

- Remove leaves and tree debris from roof gutters from April through November
- To prevent damage to your mower or the observation well cap do not mow over the caps
- Repair any damage to gutters/downspouts from winter snow or ice

As needed

- Inform contractors working on your property of the drywell locations to prevent damaging the drywell
- Place gutter guards or screens on top of roof downspouts to filter out leaves and sediment before the rainwater reaches the drywell

Long-Term Maintenance of Non-Stormwater Related Activities

Snow Disposal: Snow shall be removed from all drives, parking areas, fire access drive, and sidewalks whenever an accumulation of snow occurs by the owner/operator or a private licensed subcontractor. No snow shall be plowed in or adjacent to catch basins or stormwater areas.

Lawn and Landscape Management: The Owner shall employ the standards for ground management specified in Appendix G (G.7) of the RISDISM to the extent practicable. This includes mowing to a height of no less than two inches during the growing season, and minimization of fertilizers, pesticides, and irrigation. All landscaping and landscaping maintenance shall be performed by a licensed subcontractor or property owner and all materials removed from the premises shall be in conformance with all applicable regulatory standards.

Narragansett Engineering, Inc.
Job Number – 23.0144

**Appendix A:
Pre and Post Drainage Area Maps:**

Appendix B:
SEV Data.



STATE OF RHODE ISLAND
Department of Environmental Management

Office of Water Resources
Email: dem.OWTS@dem.ri.gov
Site Evaluation Form

*for stormwater purposes
only



Item D2.

Part A – Soil Profile Description

Application Number _____

Property Owner: **Josh Agostini**

Property Location: **68 Magnolia St Bristol RI**

Plat: **23**

Lot: **185,189,192**

Date of Test Hole: **2/7/24** Weather: **Sunny**

Shaded: Yes No

Time: **11 am**

Soil Evaluator: **Craig Barry**

License Number: _____

Soil Evaluator email address: **cbarry@nei-cds.com**

TH 1 Horizon	Depth	Horizon Boundaries		Soil Colors		Re-Dox			Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab.	S.	Contr.				
Fill	24-0	-	-	-	-	-	-	-	-	-	-	-
Bw2	0-24	C	S	5yr 3/2	-	-	-	-	sl	Gr	Vfr	
Bw3	24-30	C	S	5yr 3/2	-	-	-	-	sl	Gr	Fr	
2C	30-56	C	S	7.5yr 2.5/1	-	-	-	-	sl	Gr	Fr	
TH 2 Horizon	Depth	Horizon Boundaries		Soil Colors		Re-Dox			Texture	Structure	Consistence	Soil Category
		Dist	Topo	Matrix	Re-Dox Features	Ab.	S.	Contr.				
Fill	24-0	-	-	-	-	-	-	-	-	-	-	-
Bw2	0-24	C	S	5yr 3/2	-	-	-	-	sl	Gr	Vfr	
Bw3	24-30	C	S	5yr 3/2	-	-	-	-	sl	Gr	Fr	
2C	30-56	C	S	7.5yr 2.5/1	-	-	-	-	sl	Gr	Fr	

TH 1 Soil Class **B** Total Depth **56"** Impervious/Limiting Layer Depth **>56"** (og) GW Seepage Depth **-** SHWT **56"** (og)

TH 2 Soil Class **B** Total Depth **56"** Impervious/Limiting Layer Depth **>56"** (og) GW Seepage Depth **-** SHWT **56"** (og)

Comments: **NRCS soils map shows a more than 80" water table. The soil evaluation confirmed this water table but found 2' of fill on this site.**





Part B

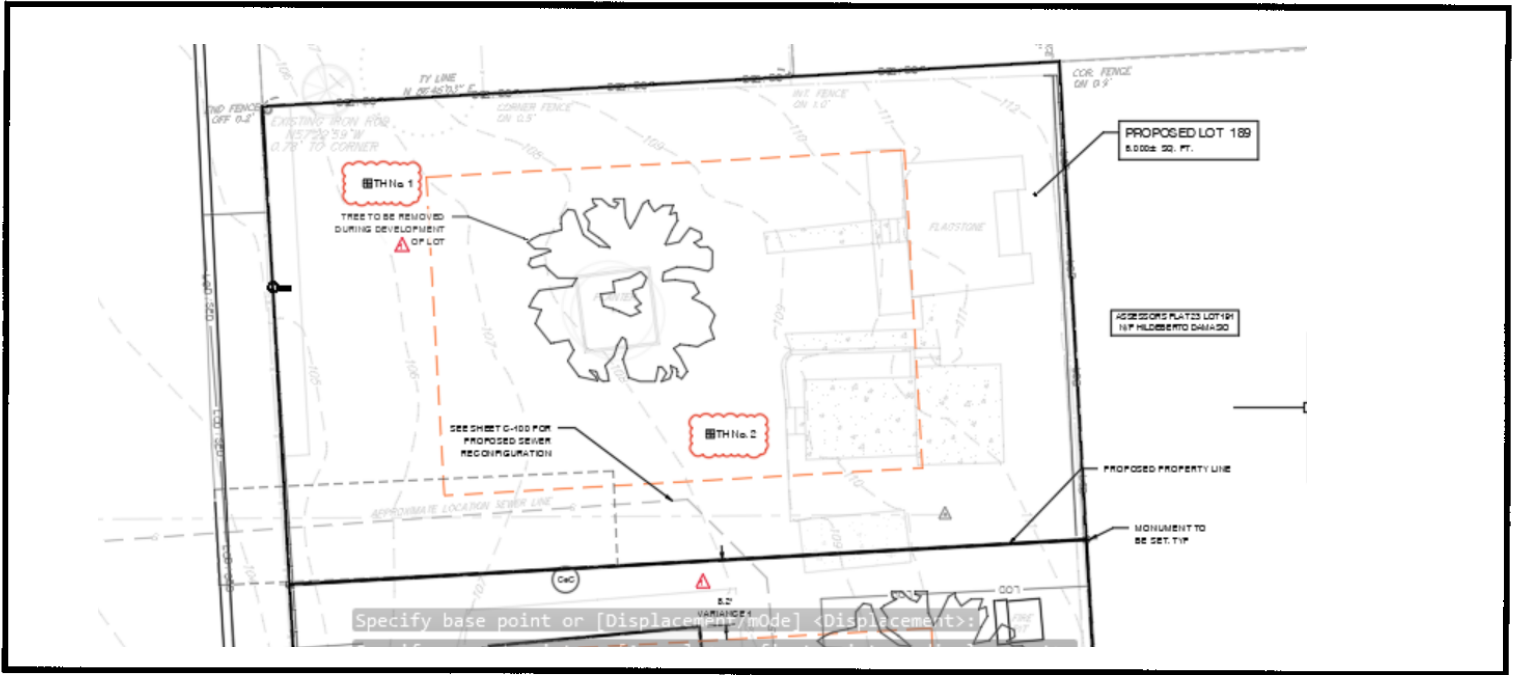
Site Evaluation – to be completed by Soil Evaluator or Class II or III Designer

Please use the area below to locate:

1. Test holes and bedrock test holes,
2. Approximate direction of due north
3. Offsets from test holes to fixed points such as street, utility pole, or other permanent, marked object*
***OFFSETS MUST BE SHOWN**

Key:

-  Approximate location of test holes
-  Approximate location of bedrock test holes
-  Estimated gradient and direction of slope
-  Approximate direction of due north



1. Relief and Slope: 1%
2. Presence of any watercourse, wetlands or surface water bodies, within 200 feet of test holes: NO YES
3. Restrictive Layer or Bedrock within 4' below original ground within 25 feet of test hole. Provide all test hole locations & depths above. NO YES
4. Presence of existing or proposed private drinking water wells within 200 feet of test holes? If yes, locate on above sketch. NO YES
5. Public drinking water wells within 500 feet of test holes? If yes, locate on above sketch. NO YES
6. Is site within the watershed of a public drinking water reservoir or other critical area defined in Rule 6.42? NO YES
7. Has soil been excavated from or fill deposited on site? If yes, locate on above sketch. NO YES
8. Site's potential for flooding or ponding: NONE SLIGHT MODERATE SEVERE
9. Landscape position: Shoulder
10. Vegetation: Grassy
11. Indicate approximate location of property lines and roadways.
12. Additional comments, site constraints or additional information regarding site: _____

Certification

The undersigned hereby certifies that all information on this application and accompanying forms, submittals and sketches are true and accurate and that I have been authorized by the owner(s) to conduct these necessary field investigations and submit this request.

Part A prepared by: _____ Signature License # _____ Part B prepared by: _____ Signature

DO NOT WRITE IN THIS SPACE

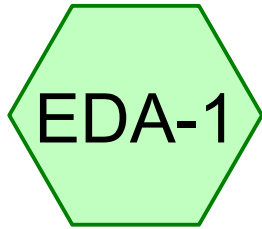
Witnessed Soil Evaluation Decision: Concur Inconclusive Disclaim
Unwitnessed Soil Evaluation Decision: Accept Inconclusive Disclaim

Wet Season Determination required **Additional Field Review Required**

Explanatoin: _____

 Signature Authorized Agent _____ Date _____

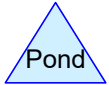
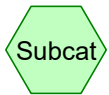
**Appendix C:
HYDROCAD Report:**



EDA-1



Magnolia St



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Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
6,324	61	>75% Grass cover, Good, HSG B (EDA-1)
765	98	Impervious Landscape Features (EDA-1)
7,089	65	TOTAL AREA

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Type III 24-hr 0_Stormwater Rainfall=1.20"

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Page 3

Summary for Subcatchment EDA-1: EDA-1

Runoff = 0.02 cfs @ 12.08 hrs, Volume= 63 cf, Depth= 0.11"
 Routed to Link 2L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 0_Stormwater Rainfall=1.20"

	Area (sf)	CN	Description
*	765	98	Impervious Landscape Features
	6,324	61	>75% Grass cover, Good, HSG B
	7,089	65	Weighted Average
	6,324	61	89.21% Pervious Area
	765	98	10.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link 2L: Magnolia St

Inflow Area = 7,089 sf, 10.79% Impervious, Inflow Depth = 0.11" for 0_Stormwater event

Inflow = 0.02 cfs @ 12.08 hrs, Volume= 63 cf

Primary = 0.02 cfs @ 12.08 hrs, Volume= 63 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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 Type III 24-hr 2-year Rainfall=3.30"
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 Page 4

Summary for Subcatchment EDA-1: EDA-1

Runoff = 0.11 cfs @ 12.10 hrs, Volume= 451 cf, Depth= 0.76"
 Routed to Link 2L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.30"

	Area (sf)	CN	Description
*	765	98	Impervious Landscape Features
	6,324	61	>75% Grass cover, Good, HSG B
	7,089	65	Weighted Average
	6,324	61	89.21% Pervious Area
	765	98	10.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link 2L: Magnolia St

Inflow Area = 7,089 sf, 10.79% Impervious, Inflow Depth = 0.76" for 2-year event
 Inflow = 0.11 cfs @ 12.10 hrs, Volume= 451 cf
 Primary = 0.11 cfs @ 12.10 hrs, Volume= 451 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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 Type III 24-hr 10-year Rainfall=4.90"
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 Page 5

Summary for Subcatchment EDA-1: EDA-1

Runoff = 0.28 cfs @ 12.09 hrs, Volume= 987 cf, Depth= 1.67"
 Routed to Link 2L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 10-year Rainfall=4.90"

	Area (sf)	CN	Description
*	765	98	Impervious Landscape Features
	6,324	61	>75% Grass cover, Good, HSG B
	7,089	65	Weighted Average
	6,324	61	89.21% Pervious Area
	765	98	10.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link 2L: Magnolia St

Inflow Area = 7,089 sf, 10.79% Impervious, Inflow Depth = 1.67" for 10-year event
 Inflow = 0.28 cfs @ 12.09 hrs, Volume= 987 cf
 Primary = 0.28 cfs @ 12.09 hrs, Volume= 987 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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23.0144 PRE DA
 Type III 24-hr 25-year Rainfall=6.10"
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 Page 6

Summary for Subcatchment EDA-1: EDA-1

Runoff = 0.44 cfs @ 12.09 hrs, Volume= 1,466 cf, Depth= 2.48"
 Routed to Link 2L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 25-year Rainfall=6.10"

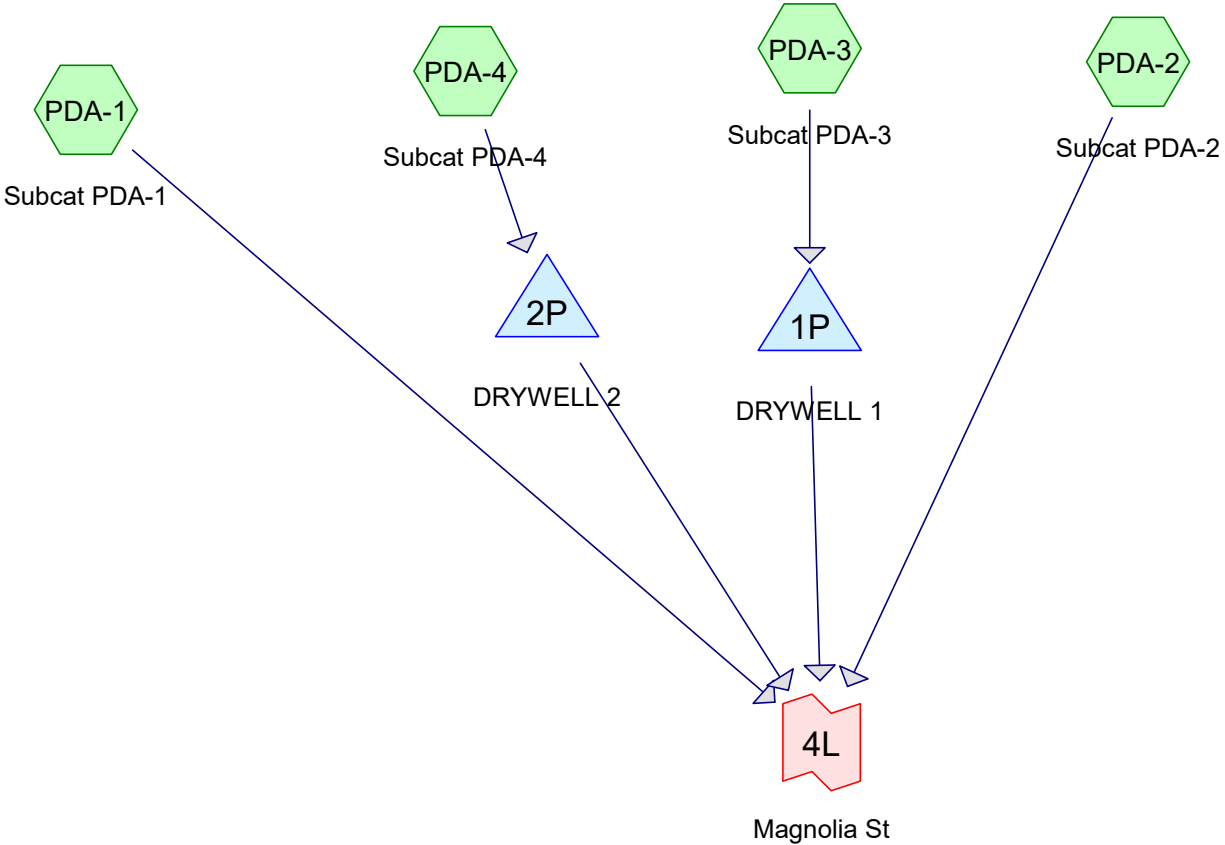
	Area (sf)	CN	Description
*	765	98	Impervious Landscape Features
	6,324	61	>75% Grass cover, Good, HSG B
	7,089	65	Weighted Average
	6,324	61	89.21% Pervious Area
	765	98	10.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Link 2L: Magnolia St

Inflow Area = 7,089 sf, 10.79% Impervious, Inflow Depth = 2.48" for 25-year event
 Inflow = 0.44 cfs @ 12.09 hrs, Volume= 1,466 cf
 Primary = 0.44 cfs @ 12.09 hrs, Volume= 1,466 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs



Subcat (Green hexagon)
Reach (Orange rectangle)
Pond (Blue triangle)
Link (Red irregular shape)

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23.0144 POST DAPrepared by Narragansett Engineering Inc
HydroCAD® 10.20-4a s/n 02010 © 2023 HydroCAD Software Solutions LLCPrinted 2/8/2024
Page 2**Rainfall Events Listing (selected events)**

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	0_Stormwater	Type III 24-hr		Default	24.00	1	1.20	2
2	2-year	Type III 24-hr		Default	24.00	1	3.30	2
3	10-year	Type III 24-hr		Default	24.00	1	4.90	2
4	25-year	Type III 24-hr		Default	24.00	1	6.10	2

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Area Listing (all nodes)

Area (sq-ft)	CN	Description (subcatchment-numbers)
4,817	61	>75% Grass cover, Good, HSG B (PDA-1, PDA-2, PDA-4)
642	98	Paved parking, HSG B (PDA-1, PDA-2)
1,643	98	Roofs, HSG B (PDA-1, PDA-2, PDA-3, PDA-4)
7,102	73	TOTAL AREA

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Type III 24-hr 0_Stormwater Rainfall=1.20"

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Page 4

Summary for Subcatchment PDA-1: Subcat PDA-1

Runoff = 0.01 cfs @ 12.08 hrs, Volume= 45 cf, Depth= 0.17"
Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 0_Stormwater Rainfall=1.20"

Area (sf)	CN	Description
0	98	Roofs, HSG B
468	98	Paved parking, HSG B
76	98	Paved parking, HSG B
157	61	>75% Grass cover, Good, HSG B
48	61	>75% Grass cover, Good, HSG B
2,367	61	>75% Grass cover, Good, HSG B
3,116	67	Weighted Average
2,572	61	82.55% Pervious Area
544	98	17.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-2: Subcat PDA-2

Runoff = 0.01 cfs @ 12.08 hrs, Volume= 34 cf, Depth= 0.15"
Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 0_Stormwater Rainfall=1.20"

Area (sf)	CN	Description
318	98	Roofs, HSG B
98	98	Paved parking, HSG B
2,245	61	>75% Grass cover, Good, HSG B
2,661	67	Weighted Average
2,245	61	84.36% Pervious Area
416	98	15.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Type III 24-hr 0_Stormwater Rainfall=1.20"

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Page 5

Summary for Subcatchment PDA-3: Subcat PDA-3

Runoff = 0.01 cfs @ 12.08 hrs, Volume= 48 cf, Depth= 0.99"
Routed to Pond 1P : DRYWELL 1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 0_Stormwater Rainfall=1.20"

Area (sf)	CN	Description
588	98	Roofs, HSG B
588	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-4: Subcat PDA-4

Runoff = 0.02 cfs @ 12.08 hrs, Volume= 61 cf, Depth= 0.99"
Routed to Pond 2P : DRYWELL 2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 0_Stormwater Rainfall=1.20"

Area (sf)	CN	Description
737	98	Roofs, HSG B
0	61	>75% Grass cover, Good, HSG B
737	98	Weighted Average
0	61	0.05% Pervious Area
737	98	99.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: DRYWELL 1

Inflow Area = 588 sf, 100.00% Impervious, Inflow Depth = 0.99" for 0_Stormwater event
Inflow = 0.01 cfs @ 12.08 hrs, Volume= 48 cf
Outflow = 0.00 cfs @ 12.53 hrs, Volume= 48 cf, Atten= 82%, Lag= 26.9 min
Discarded = 0.00 cfs @ 12.53 hrs, Volume= 48 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 106.89' @ 12.53 hrs Surf.Area= 100 sf Storage= 13 cf

Plug-Flow detention time= 29.6 min calculated for 48 cf (100% of inflow)
Center-of-Mass det. time= 29.6 min (811.6 - 782.0)

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Type III 24-hr 0_Stormwater Rainfall=1.20"

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Page 6

Volume	Invert	Avail.Storage	Storage Description			
#1	106.49'	99 cf	Custom Stage Data (Conic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
106.49	100	0.0	0	0	100	
106.50	100	33.0	0	0	100	
109.50	100	33.0	99	99	207	
109.51	100	0.0	0	99	207	
110.50	100	0.0	0	99	242	

Device	Routing	Invert	Outlet Devices
#1	Discarded	106.49'	1.020 in/hr Exfiltration over Wetted area
#2	Primary	110.49'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 12.53 hrs HW=106.89' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=106.49' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 2P: DRYWELL 2

Inflow Area = 737 sf, 99.95% Impervious, Inflow Depth = 0.99" for 0_Stormwater event
 Inflow = 0.02 cfs @ 12.08 hrs, Volume= 61 cf
 Outflow = 0.00 cfs @ 11.73 hrs, Volume= 61 cf, Atten= 81%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 11.73 hrs, Volume= 61 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Peak Elev= 101.80' @ 12.52 hrs Surf.Area= 150 sf Storage= 15 cf

Plug-Flow detention time= 24.6 min calculated for 61 cf (100% of inflow)
 Center-of-Mass det. time= 24.6 min (806.6 - 782.0)

Volume	Invert	Avail.Storage	Storage Description			
#1	101.49'	149 cf	Custom Stage Data (Prismatic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)		
101.49	150	0.0	0	0		
101.50	150	33.0	0	0		
104.50	150	33.0	149	149		
104.51	150	0.0	0	149		
106.00	150	0.0	0	149		

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Type III 24-hr 0_Stormwater Rainfall=1.20"

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Page 7

Device	Routing	Invert	Outlet Devices
#1	Discarded	101.49'	1.020 in/hr Exfiltration over Surface area
#2	Primary	107.00'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 11.73 hrs HW=101.50' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=101.49' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Link 4L: Magnolia St

Inflow Area = 7,102 sf, 32.17% Impervious, Inflow Depth = 0.13" for 0_Stormwater event

Inflow = 0.02 cfs @ 12.08 hrs, Volume= 79 cf

Primary = 0.02 cfs @ 12.08 hrs, Volume= 79 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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 Type III 24-hr 2-year Rainfall=3.30"
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 Page 8

Summary for Subcatchment PDA-1: Subcat PDA-1

Runoff = 0.06 cfs @ 12.10 hrs, Volume= 243 cf, Depth= 0.94"
 Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.30"

Area (sf)	CN	Description
0	98	Roofs, HSG B
468	98	Paved parking, HSG B
76	98	Paved parking, HSG B
157	61	>75% Grass cover, Good, HSG B
48	61	>75% Grass cover, Good, HSG B
2,367	61	>75% Grass cover, Good, HSG B
3,116	67	Weighted Average
2,572	61	82.55% Pervious Area
544	98	17.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-2: Subcat PDA-2

Runoff = 0.05 cfs @ 12.10 hrs, Volume= 197 cf, Depth= 0.89"
 Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.30"

Area (sf)	CN	Description
318	98	Roofs, HSG B
98	98	Paved parking, HSG B
2,245	61	>75% Grass cover, Good, HSG B
2,661	67	Weighted Average
2,245	61	84.36% Pervious Area
416	98	15.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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 Page 9

Summary for Subcatchment PDA-3: Subcat PDA-3

Runoff = 0.04 cfs @ 12.08 hrs, Volume= 150 cf, Depth= 3.07"
 Routed to Pond 1P : DRYWELL 1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.30"

Area (sf)	CN	Description
588	98	Roofs, HSG B
588	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-4: Subcat PDA-4

Runoff = 0.05 cfs @ 12.08 hrs, Volume= 188 cf, Depth= 3.07"
 Routed to Pond 2P : DRYWELL 2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 2-year Rainfall=3.30"

Area (sf)	CN	Description
737	98	Roofs, HSG B
0	61	>75% Grass cover, Good, HSG B
737	98	Weighted Average
0	61	0.05% Pervious Area
737	98	99.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: DRYWELL 1

Inflow Area = 588 sf, 100.00% Impervious, Inflow Depth = 3.07" for 2-year event
 Inflow = 0.04 cfs @ 12.08 hrs, Volume= 150 cf
 Outflow = 0.00 cfs @ 12.95 hrs, Volume= 150 cf, Atten= 91%, Lag= 52.0 min
 Discarded = 0.00 cfs @ 12.95 hrs, Volume= 150 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Peak Elev= 108.26' @ 12.95 hrs Surf.Area= 100 sf Storage= 58 cf

Plug-Flow detention time= 127.6 min calculated for 150 cf (100% of inflow)
 Center-of-Mass det. time= 127.6 min (883.4 - 755.8)

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Type III 24-hr 2-year Rainfall=3.30"

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Page 10

Volume	Invert	Avail.Storage	Storage Description			
#1	106.49'	99 cf	Custom Stage Data (Conic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
106.49	100	0.0	0	0	100	
106.50	100	33.0	0	0	100	
109.50	100	33.0	99	99	207	
109.51	100	0.0	0	99	207	
110.50	100	0.0	0	99	242	

Device	Routing	Invert	Outlet Devices
#1	Discarded	106.49'	1.020 in/hr Exfiltration over Wetted area
#2	Primary	110.49'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 12.95 hrs HW=108.26' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=106.49' (Free Discharge)

↑**2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 2P: DRYWELL 2

Inflow Area = 737 sf, 99.95% Impervious, Inflow Depth = 3.07" for 2-year event
 Inflow = 0.05 cfs @ 12.08 hrs, Volume= 188 cf
 Outflow = 0.00 cfs @ 10.85 hrs, Volume= 188 cf, Atten= 93%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 10.85 hrs, Volume= 188 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Peak Elev= 103.01' @ 13.50 hrs Surf.Area= 150 sf Storage= 75 cf

Plug-Flow detention time= 164.0 min calculated for 188 cf (100% of inflow)

Center-of-Mass det. time= 164.0 min (919.8 - 755.8)

Volume	Invert	Avail.Storage	Storage Description			
#1	101.49'	149 cf	Custom Stage Data (Prismatic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)		
101.49	150	0.0	0	0		
101.50	150	33.0	0	0		
104.50	150	33.0	149	149		
104.51	150	0.0	0	149		
106.00	150	0.0	0	149		

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Type III 24-hr 2-year Rainfall=3.30"

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Page 11

Device	Routing	Invert	Outlet Devices
#1	Discarded	101.49'	1.020 in/hr Exfiltration over Surface area
#2	Primary	107.00'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 10.85 hrs HW=101.50' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=101.49' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Link 4L: Magnolia St**

Inflow Area = 7,102 sf, 32.17% Impervious, Inflow Depth = 0.74" for 2-year event
 Inflow = 0.11 cfs @ 12.10 hrs, Volume= 440 cf
 Primary = 0.11 cfs @ 12.10 hrs, Volume= 440 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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Type III 24-hr 10-year Rainfall=4.90"
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Page 12

Summary for Subcatchment PDA-1: Subcat PDA-1

Runoff = 0.14 cfs @ 12.09 hrs, Volume= 492 cf, Depth= 1.89"
Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.90"

Area (sf)	CN	Description
0	98	Roofs, HSG B
468	98	Paved parking, HSG B
76	98	Paved parking, HSG B
157	61	>75% Grass cover, Good, HSG B
48	61	>75% Grass cover, Good, HSG B
2,367	61	>75% Grass cover, Good, HSG B
3,116	67	Weighted Average
2,572	61	82.55% Pervious Area
544	98	17.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-2: Subcat PDA-2

Runoff = 0.12 cfs @ 12.09 hrs, Volume= 407 cf, Depth= 1.83"
Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.90"

Area (sf)	CN	Description
318	98	Roofs, HSG B
98	98	Paved parking, HSG B
2,245	61	>75% Grass cover, Good, HSG B
2,661	67	Weighted Average
2,245	61	84.36% Pervious Area
416	98	15.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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Page 13

Summary for Subcatchment PDA-3: Subcat PDA-3

Runoff = 0.06 cfs @ 12.08 hrs, Volume= 228 cf, Depth= 4.66"
Routed to Pond 1P : DRYWELL 1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.90"

Area (sf)	CN	Description
588	98	Roofs, HSG B
588	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-4: Subcat PDA-4

Runoff = 0.08 cfs @ 12.08 hrs, Volume= 286 cf, Depth= 4.66"
Routed to Pond 2P : DRYWELL 2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-year Rainfall=4.90"

Area (sf)	CN	Description
737	98	Roofs, HSG B
0	61	>75% Grass cover, Good, HSG B
737	98	Weighted Average
0	61	0.05% Pervious Area
737	98	99.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: DRYWELL 1

Inflow Area = 588 sf, 100.00% Impervious, Inflow Depth = 4.66" for 10-year event
Inflow = 0.06 cfs @ 12.08 hrs, Volume= 228 cf
Outflow = 0.00 cfs @ 13.11 hrs, Volume= 228 cf, Atten= 92%, Lag= 61.6 min
Discarded = 0.00 cfs @ 13.11 hrs, Volume= 228 cf
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 109.49' @ 13.11 hrs Surf.Area= 100 sf Storage= 99 cf

Plug-Flow detention time= 194.2 min calculated for 228 cf (100% of inflow)
Center-of-Mass det. time= 194.1 min (942.5 - 748.4)

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Type III 24-hr 10-year Rainfall=4.90"

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Page 14

Volume	Invert	Avail.Storage	Storage Description			
#1	106.49'	99 cf	Custom Stage Data (Conic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
106.49	100	0.0	0	0	100	
106.50	100	33.0	0	0	100	
109.50	100	33.0	99	99	207	
109.51	100	0.0	0	99	207	
110.50	100	0.0	0	99	242	

Device	Routing	Invert	Outlet Devices
#1	Discarded	106.49'	1.020 in/hr Exfiltration over Wetted area
#2	Primary	110.49'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 13.11 hrs HW=109.49' (Free Discharge)

↳ **1=Exfiltration** (Exfiltration Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=106.49' (Free Discharge)

↳ **2=Orifice/Grate** (Controls 0.00 cfs)

Summary for Pond 2P: DRYWELL 2

Inflow Area = 737 sf, 99.95% Impervious, Inflow Depth = 4.66" for 10-year event
 Inflow = 0.08 cfs @ 12.08 hrs, Volume= 286 cf
 Outflow = 0.00 cfs @ 9.72 hrs, Volume= 286 cf, Atten= 96%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 9.72 hrs, Volume= 286 cf
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf
 Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Peak Elev= 104.23' @ 14.66 hrs Surf.Area= 150 sf Storage= 136 cf

Plug-Flow detention time= 317.8 min calculated for 286 cf (100% of inflow)

Center-of-Mass det. time= 317.8 min (1,066.2 - 748.4)

Volume	Invert	Avail.Storage	Storage Description			
#1	101.49'	149 cf	Custom Stage Data (Prismatic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)		
101.49	150	0.0	0	0		
101.50	150	33.0	0	0		
104.50	150	33.0	149	149		
104.51	150	0.0	0	149		
106.00	150	0.0	0	149		

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Page 15

Device	Routing	Invert	Outlet Devices
#1	Discarded	101.49'	1.020 in/hr Exfiltration over Surface area
#2	Primary	107.00'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 9.72 hrs HW=101.50' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=101.49' (Free Discharge)↑**2=Orifice/Grate** (Controls 0.00 cfs)**Summary for Link 4L: Magnolia St**

Inflow Area = 7,102 sf, 32.17% Impervious, Inflow Depth = 1.52" for 10-year event
 Inflow = 0.26 cfs @ 12.09 hrs, Volume= 899 cf
 Primary = 0.26 cfs @ 12.09 hrs, Volume= 899 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

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Type III 24-hr 25-year Rainfall=6.10"
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Page 16

Summary for Subcatchment PDA-1: Subcat PDA-1

Runoff = 0.21 cfs @ 12.09 hrs, Volume= 710 cf, Depth= 2.73"
Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year Rainfall=6.10"

Area (sf)	CN	Description
0	98	Roofs, HSG B
468	98	Paved parking, HSG B
76	98	Paved parking, HSG B
157	61	>75% Grass cover, Good, HSG B
48	61	>75% Grass cover, Good, HSG B
2,367	61	>75% Grass cover, Good, HSG B
3,116	67	Weighted Average
2,572	61	82.55% Pervious Area
544	98	17.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-2: Subcat PDA-2

Runoff = 0.18 cfs @ 12.09 hrs, Volume= 591 cf, Depth= 2.67"
Routed to Link 4L : Magnolia St

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year Rainfall=6.10"

Area (sf)	CN	Description
318	98	Roofs, HSG B
98	98	Paved parking, HSG B
2,245	61	>75% Grass cover, Good, HSG B
2,661	67	Weighted Average
2,245	61	84.36% Pervious Area
416	98	15.64% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

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 Type III 24-hr 25-year Rainfall=6.10"
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 Page 17

Summary for Subcatchment PDA-3: Subcat PDA-3

Runoff = 0.08 cfs @ 12.08 hrs, Volume= 287 cf, Depth= 5.86"
 Routed to Pond 1P : DRYWELL 1

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 25-year Rainfall=6.10"

Area (sf)	CN	Description
588	98	Roofs, HSG B
588	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment PDA-4: Subcat PDA-4

Runoff = 0.10 cfs @ 12.08 hrs, Volume= 360 cf, Depth= 5.86"
 Routed to Pond 2P : DRYWELL 2

Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv., Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Type III 24-hr 25-year Rainfall=6.10"

Area (sf)	CN	Description
737	98	Roofs, HSG B
0	61	>75% Grass cover, Good, HSG B
737	98	Weighted Average
0	61	0.05% Pervious Area
737	98	99.95% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Pond 1P: DRYWELL 1

Inflow Area = 588 sf, 100.00% Impervious, Inflow Depth = 5.86" for 25-year event
 Inflow = 0.08 cfs @ 12.08 hrs, Volume= 287 cf
 Outflow = 0.08 cfs @ 12.21 hrs, Volume= 287 cf, Atten= 4%, Lag= 7.6 min
 Discarded = 0.01 cfs @ 12.20 hrs, Volume= 254 cf
 Primary = 0.07 cfs @ 12.21 hrs, Volume= 33 cf
 Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Peak Elev= 110.56' @ 12.21 hrs Surf.Area= 100 sf Storage= 99 cf

Plug-Flow detention time= 176.2 min calculated for 287 cf (100% of inflow)
 Center-of-Mass det. time= 176.1 min (921.0 - 744.9)

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Type III 24-hr 25-year Rainfall=6.10"

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Page 18

Volume	Invert	Avail.Storage	Storage Description			
#1	106.49'	99 cf	Custom Stage Data (Conic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
106.49	100	0.0	0	0	100	
106.50	100	33.0	0	0	100	
109.50	100	33.0	99	99	207	
109.51	100	0.0	0	99	207	
110.50	100	0.0	0	99	242	

Device	Routing	Invert	Outlet Devices
#1	Discarded	106.49'	1.020 in/hr Exfiltration over Wetted area
#2	Primary	110.49'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.01 cfs @ 12.20 hrs HW=110.50' (Free Discharge)

↳ **1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Primary OutFlow Max=0.07 cfs @ 12.21 hrs HW=110.56' (Free Discharge)

↳ **2=Orifice/Grate** (Weir Controls 0.07 cfs @ 0.89 fps)

Summary for Pond 2P: DRYWELL 2

Inflow Area = 737 sf, 99.95% Impervious, Inflow Depth = 5.86" for 25-year event
 Inflow = 0.10 cfs @ 12.08 hrs, Volume= 360 cf
 Outflow = 0.05 cfs @ 12.40 hrs, Volume= 360 cf, Atten= 46%, Lag= 19.0 min
 Discarded = 0.00 cfs @ 8.96 hrs, Volume= 321 cf
 Primary = 0.05 cfs @ 12.40 hrs, Volume= 39 cf
 Routed to Link 4L : Magnolia St

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
 Peak Elev= 107.06' @ 12.40 hrs Surf.Area= 150 sf Storage= 149 cf

Plug-Flow detention time= 319.4 min calculated for 360 cf (100% of inflow)

Center-of-Mass det. time= 319.5 min (1,064.4 - 744.9)

Volume	Invert	Avail.Storage	Storage Description			
#1	101.49'	149 cf	Custom Stage Data (Prismatic) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)		
101.49	150	0.0	0	0		
101.50	150	33.0	0	0		
104.50	150	33.0	149	149		
104.51	150	0.0	0	149		
106.00	150	0.0	0	149		

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Page 19

Device	Routing	Invert	Outlet Devices
#1	Discarded	101.49'	1.020 in/hr Exfiltration over Surface area
#2	Primary	107.00'	4.0" Horiz. Orifice/Grate C= 0.600 in 4.0" Grate (100% open area) Limited to weir flow at low heads

Discarded OutFlow Max=0.00 cfs @ 8.96 hrs HW=101.50' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.00 cfs)**Primary OutFlow** Max=0.05 cfs @ 12.40 hrs HW=107.06' (Free Discharge)↑**2=Orifice/Grate** (Weir Controls 0.05 cfs @ 0.80 fps)**Summary for Link 4L: Magnolia St**

Inflow Area = 7,102 sf, 32.17% Impervious, Inflow Depth = 2.32" for 25-year event
 Inflow = 0.39 cfs @ 12.09 hrs, Volume= 1,373 cf
 Primary = 0.39 cfs @ 12.09 hrs, Volume= 1,373 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs

Appendix D:
Water Quality Volume Calcs:



Civil • Survey • Structural • Environmental • Design
 3102 East Main Road, Portsmouth RI 02871
 Tel. 401.683.6630 www.nei-cds.com

PROJECT Agostini PROJECT NUMBER 23.0144

SUBJECT Drywell Calculations

COMPUTATIONS BY CJB DATE 2/8/2024

CHECK BY JWM DATE 2/8/2024

Total Site Area

Total Watershed Area of site	7,102	SF
Total Impervious Area of site	1,547	SF

Water Quality Volume of entire site (WQV)

WQV = Total Impervious Area x 1 inches =	129	CF
--	-----	----

Required WQV Volume =	129	CF
------------------------------	------------	-----------

Provided Water Quality Volume (drywell 1) =	99	10'x10'x3'x(33% void space)
---	----	-----------------------------

Provided Water Quality Volume (drywell 2) =	149	10'x15'x3'x(33% void space)
---	-----	-----------------------------

Total WQv Volume Provided (drywell 1 and 2)	248	CF
--	------------	-----------

Water quality volume provided is greater than required. See below for individual drywell WQv calculations

Drywell 1

Total Area to Drywell 1 (1P) =	587	SF
--------------------------------	-----	----

Total Impervious Area to Drywell 1 (1P) =	587	SF
---	-----	----

Impervious Area treated by Drywell 1 =	587	SF
Water Quality Volume (WQV) for drywell 1		
WQV = Total Impervious Area x 1 inches =	49	CF
Required WQV Volume =	49	CF
Provided Water Quality Volume (drywell 1) =	99	10'x10'x3'x(33% void space)
Total Volume Provided by drywell 1 =	99	CF

Drywell 2

Total Area to Drywell 2 (1P) =	737	SF
Total Impervious Area to Drywell 2 (1P) =	737	SF
Impervious Area treated by Drywell 2 =	737	SF
Water Quality Volume (WQV) for drywell		
WQV = Total Impervious Area x 1 inches =	61	CF
Required WQV Volume =	61	CF
Provided Water Quality Volume (drywell 2) =	148.5	10'x15'x3'x(33% void space)
Total Volume Provided by drywell 2 =	148.5	CF

APPENDIX A: STORMWATER MANAGEMENT PLAN CHECKLIST AND LID PLANNING REPORT – STORMWATER DESIGN SUMMARY

PROJECT NAME Agostini Subdivision	(RIDEM USE ONLY)
TOWN Bristol RI	STW/WQC File #:
BRIEF PROJECT DESCRIPTION: To subdivide 1 lot of record into 2 lots of record and develop the new vacant lot with a single family structure	Date Received:

Stormwater Management Plan (SMP) Elements – Minimum Standards

When submitting a SMP,¹ submit **four separately bound** documents: Appendix A Checklist; Stormwater Site Planning, Analysis and Design Report with Plan Set/Drawings; Soil Erosion and Sediment Control (SESC) Plan, and Post Construction Operations and Maintenance (O&M) Plan. Please refer to [Suggestions to Promote Brevity](#).

Note: All stormwater construction projects **must create** a Stormwater Management Plan (SMP). However, not every element listed below is required per the [RIDEM Stormwater Rules](#) and the [RIPDES Construction General Permit \(CGP\)](#). This checklist will help identify the required elements to be submitted with an Application for Stormwater Construction Permit & Water Quality Certification.

PART 1. PROJECT AND SITE INFORMATION

PROJECT TYPE (Check all that apply)

<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Federal	<input type="checkbox"/> Retrofit	<input type="checkbox"/> Restoration
<input type="checkbox"/> Road	<input type="checkbox"/> Utility	<input type="checkbox"/> Fill	<input type="checkbox"/> Dredge	<input type="checkbox"/> Mine
<input type="checkbox"/> Other (specify):				

SITE INFORMATION

Vicinity Map

INITIAL DISCHARGE LOCATION(S): The WQv discharges to: (You may choose more than one answer if several discharge points are associated with the project.)

<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Surface Water	<input type="checkbox"/> MS4
<input type="checkbox"/> GAA	<input type="checkbox"/> Isolated Wetland	<input type="checkbox"/> RIDOT
<input type="checkbox"/> GA	<input type="checkbox"/> Named Waterbody	<input type="checkbox"/> RIDOT Alteration Permit is Approved
<input checked="" type="checkbox"/> GB	<input type="checkbox"/> Unnamed Waterbody Connected to Named Waterbody	<input type="checkbox"/> Town
<input type="checkbox"/> Other (specify):		

ULTIMATE RECEIVING WATERBODY LOCATION(S): Include pertinent information that applies to both WQv and flow from larger storm events including overflows. Choose all that apply, and repeat table for each waterbody.

<input checked="" type="checkbox"/> Groundwater or Disconnected Wetland	<input type="checkbox"/> SRWP
<input checked="" type="checkbox"/> Waterbody Name: Bristol Harbor	<input type="checkbox"/> Coldwater <input type="checkbox"/> Warmwater <input type="checkbox"/> Unassessed
<input checked="" type="checkbox"/> Waterbody ID: RI0007026E-01C	<input type="checkbox"/> 4 th order stream of pond 50 acres or more
<input type="checkbox"/> TMDL for: n/a	<input type="checkbox"/> Watershed of flood prone river (e.g., Pocasset River)
<input type="checkbox"/> Contributes to a priority outfall listed in the TMDL	<input type="checkbox"/> Contributes stormwater to a public beach

¹ Applications for a Construction General Permit that do not require any other permits from RIDEM and will disturb less than 5 acres over the entire course of the project do not need to submit a SMP. The Appendix A checklist must still be submitted.

PROJECT HISTORY		
<input type="checkbox"/> RIDEM Pre- Application Meeting n/a	Meeting Date:	<input type="checkbox"/> Minutes Attached
<input type="checkbox"/> Municipal Master Plan Approval n/a	Approval Date:	<input type="checkbox"/> Minutes Attached
<input checked="" type="checkbox"/> Subdivision Suitability Required TRC meeting Bristol RI	Approval #:	
<input type="checkbox"/> Previous Enforcement Action has been taken on the property	Enforcement #:	
FLOODPLAIN & FLOODWAY See Guidance Pertaining to Floodplain and Floodways		
<input type="checkbox"/> Riverine 100-year floodplain: FEMA FLOODPLAIN FIRMETTE has been reviewed and the 100-year floodplain is on site		
<input checked="" type="checkbox"/> Delineated from FEMA Maps n/a		
NOTE: Per Rule 250-RICR-150-10-8-1.1(B)(5)(d)(3), provide volumetric floodplain compensation calculations for cut and fill/displacement calculated by qualified professional		
<input type="checkbox"/> Calculated by Professional Engineer		
<input type="checkbox"/> Calculations are provided for cut vs. fill/displacement volumes proposed within the 100-year floodplain	Amount of Fill (CY):	
	Amount of Cut (CY):	
<input type="checkbox"/> Restrictions or modifications are proposed to the flow path or velocities in a floodway		
<input type="checkbox"/> Floodplain storage capacity is impacted		
<input type="checkbox"/> Project area is not within 100-year floodplain as defined by RIDEM		

CRMC JURISDICTION
<input checked="" type="checkbox"/> CRMC Assent required n/a
<input type="checkbox"/> Property subject to a Special Area Management Plan (SAMP). If so, specify which SAMP:
<input type="checkbox"/> Sea level rise mitigation has been designed into this project

LUHPPL IDENTIFICATION - MINIMUM STANDARD 8: n/a		
1. OFFICE OF Land Revitalization and Sustainable Materials Management (OLRSMM)		
n/a	<input type="checkbox"/> Known or suspected releases of HAZARDOUS MATERIAL are present at the site (Hazardous Material is defined in Rule 1.4(A)(33) of 250-140-30-1 of the RIDEM Rules and Regulations for Investigation and Remediation of Hazardous Materials (the Remediation Regulations))	RIDEM CONTACT:
n/a	<input type="checkbox"/> Known or suspected releases of PETROLEUM PRODUCT are present at the site (Petroleum Product as defined in Rule 1.5(A)(84) of 250-140-25-1 of the RIDEM Rules and Regulations for Underground Storage Facilities Used for Regulated Substances and Hazardous Materials)	
n/a	<input type="checkbox"/> This site is identified on the RIDEM Environmental Resources Map as one of the following regulated facilities	SITE ID#:
	<input type="checkbox"/> CERCLIS/Superfund (NPL)	
	<input type="checkbox"/> State Hazardous Waste Site (SHWS)	
	<input type="checkbox"/> Environmental Land Usage Restriction (ELUR)	
	<input type="checkbox"/> Leaking Underground Storage Tank (LUST)	
	<input type="checkbox"/> Closed Landfill	
Note: If any boxes in 1 above are checked, the applicant must contact the RIDEM OLRSM Project Manager associated with the Site to determine if subsurface infiltration of stormwater is allowable for the project. Indicate if the infiltration corresponds to “Red,” “Yellow” or “Green” as described in Section 3.2.8 of the RISDISM Guidance (Subsurface Contamination Guidance). Also, note and reference approval in PART 3, Minimum Standard 2: Groundwater Recharge/Infiltration.		
2. PER MINIMUM STANDARD 8 of RICR 8.14.C.1-6 “LUHPPLS,” THE SITE IS/HAS:		
n/a	<input type="checkbox"/> Industrial Site with RIPDES MSGP, except where No Exposure Certification exists. http://www.dem.ri.gov/programs/water/permits/ripdes/stormwater/status.php	
	<input type="checkbox"/> Auto Fueling Facility (e.g., gas station)	
	<input type="checkbox"/> Exterior Vehicles Service, Maintenance, or Equipment Cleaning Area	

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

	<input type="checkbox"/> Road Salt Storage and Loading Areas (exposed to rainwater)	
	<input type="checkbox"/> Outdoor Storage and Loading/Unloading of Hazardous Substances	
3. STORMWATER INDUSTRIAL PERMITTING		
n/a	<input type="checkbox"/> The site is associated with existing or proposed activities that are considered Land Uses with Higher Potential Pollutant Loads (LUHPPLS) (see RICR 8.14.C)	Activities: Sector:
	<input type="checkbox"/> Construction is proposed on a site that is subject to THE MULTI-SECTOR GENERAL PERMIT (MSGP) UNDER RULE 31(B)15 OF THE RIPDES REGULATIONS.	MSGP permit #
	<input type="checkbox"/> Additional stormwater treatment is required by the MSGP Explain:	

REDEVELOPMENT STANDARD – MINIMUM STANDARD 6 n/a		
<input checked="" type="checkbox"/> Pre Construction Impervious Area		
	<input type="checkbox"/> Total Pre-Construction Impervious Area (TIA) 765 sq ft	
	<input type="checkbox"/> Total Site Area (TSA) 7,102 sq ft	
	<input type="checkbox"/> Jurisdictional Wetlands (JW) n/a	
	<input type="checkbox"/> Conservation Land (CL) n/a	
<input checked="" type="checkbox"/> Calculate the Site Size (defined as contiguous properties under same ownership)		
	<input type="checkbox"/> Site Size (SS) = (TSA) – (JW) – (CL) 7,102 sq ft	
	<input type="checkbox"/> (TIA) / (SS) = .1077	<input checked="" type="checkbox"/> (TIA) / (SS) >0.4? No
<input checked="" type="checkbox"/> YES, Redevelopment Not a redevelopment		

PART 2. LOW IMPACT DEVELOPMENT ASSESSMENT – MINIMUM STANDARD 1
(NOT REQUIRED FOR REDEVELOPMENT OR RETROFITS)
This section may be deleted if not required.

Note: A written description must be provided specifying why each method is not being used or is not applicable at the Site. Appropriate answers may include:

- Town requires ... (state the specific local requirement)
- Meets Town's dimensional requirement of ...
- Not practical for site because ...
- Applying for waiver/variance to achieve this (pending/approved/denied)
- Applying for wavier/variance to seek relief from this (pending/approved/denied)

A) PRESERVATION OF UNDISTURBED AREAS, BUFFERS, AND FLOODPLAINS

- Sensitive resource areas and site constraints are identified (required)
- Local development regulations have been reviewed (required)
- All vegetated buffers and coastal and freshwater wetlands will be protected during and after construction
- Conservation Development or another site design technique has been incorporated to protect open space and pre-development hydrology. **Note:** If Conservation Development has been used, check box and skip to Subpart C
- As much natural vegetation and pre-development hydrology as possible has been maintained

IF NOT IMPLEMENTED, EXPLAIN HERE

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

<p>B) LOCATE DEVELOPMENT IN LESS SENSITIVE AREAS AND WORK WITH THE NATURAL LANDSCAPE CONDITIONS, HYDROLOGY, AND SOILS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Development sites and building envelopes have been appropriately distanced from wetlands and waterbodies <input checked="" type="checkbox"/> Development and stormwater systems have been located in areas with greatest infiltration capacity (e.g., soil groups A and B) <input checked="" type="checkbox"/> Plans show measures to prevent soil compaction in areas designated as Qualified Pervious Areas (QPA's) <input checked="" type="checkbox"/> Development sites and building envelopes have been positioned outside of floodplains <input checked="" type="checkbox"/> Site design positions buildings, roadways and parking areas in a manner that avoids impacts to surface water features <input checked="" type="checkbox"/> Development sites and building envelopes have been located to minimize impacts to steep slopes ($\geq 15\%$) <input checked="" type="checkbox"/> Other (describe): 	
<p>C) MINIMIZE CLEARING AND GRADING</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Site clearing has been restricted to <u>minimum area needed</u> for building footprints, development activities, construction access, and safety. <input checked="" type="checkbox"/> Site has been designed to position buildings, roadways, and parking areas in a manner that minimizes grading (cut and fill quantities) <input checked="" type="checkbox"/> Protection for stands of trees and individual trees and their root zones to be preserved has been specified, and such protection extends at least to the tree canopy drip line(s) <input checked="" type="checkbox"/> Plan notes specify that public trees removed or damaged during construction shall be replaced with equivalent 	
<p>D) REDUCE IMPERVIOUS COVER</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Reduced roadway widths (≤ 22 feet for ADT ≤ 400; ≤ 26 feet for ADT 400 - 2,000) <input checked="" type="checkbox"/> Reduced driveway areas (length minimized via reduced ROW width (≤ 45 ft.) and/or reduced (or absolute minimum) front yard setback; width minimized to ≤ 9 ft. wide one lane; ≤ 18 ft. wide two lanes; shared driveways; pervious surface) <input checked="" type="checkbox"/> Reduced building footprint: Explain approach: <input checked="" type="checkbox"/> Reduced sidewalk area (≤ 4 ft. wide; one side of the street; unpaved path; pervious surface) <input checked="" type="checkbox"/> Reduced cul-de-sacs (radius < 45 ft; vegetated island; alternative turn-around) <input checked="" type="checkbox"/> Reduced parking lot area: Explain approach <input checked="" type="checkbox"/> Use of pervious surfaces for driveways, sidewalks, parking areas/overflow parking areas, etc. <input checked="" type="checkbox"/> Minimized impervious surfaces (project meets or is less than maximum specified by Zoning Ordinance) <input type="checkbox"/> Other (describe): 	
<p>E) DISCONNECT IMPERVIOUS AREA</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Impervious surfaces have been disconnected, and runoff has been diverted to QPAs to the maximum extent possible <input checked="" type="checkbox"/> Residential street edges allow side-of-the-road drainage into vegetated open swales <input checked="" type="checkbox"/> Parking lot landscaping breaks up impervious expanse AND accepts runoff <input checked="" type="checkbox"/> Other (describe): 	
<p>F) MITIGATE RUNOFF AT THE POINT OF GENERATION</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Small-scale BMPs have been designated to treat runoff as close as possible to the source 	

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

<p>G) PROVIDE LOW-MAINTENANCE NATIVE VEGETATION</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Low-maintenance landscaping has been proposed using native species and cultivars <input checked="" type="checkbox"/> Plantings of native trees and shrubs in areas previously cleared of native vegetation are shown on site plan <input checked="" type="checkbox"/> Lawn areas have been limited/minimized, and yards have been kept undisturbed to the maximum extent practicable on residential lots 	
<p>H) RESTORE STREAMS/WETLANDS</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Historic drainage patterns have been restored by removing closed drainage systems, daylighting buried streams, and/or restoring degraded stream channels and/or wetlands <input checked="" type="checkbox"/> Removal of invasive species <input checked="" type="checkbox"/> Other 	

PART 3. SUMMARY OF REMAINING STANDARDS

GROUNDWATER RECHARGE – MINIMUM STANDARD 2		
YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	The project has been designed to meet the groundwater recharge standard.
<input type="checkbox"/>	<input type="checkbox"/>	If “No,” the justification for groundwater recharge criterion waiver has been explained in the Narrative (e.g., threat of groundwater contamination or physical limitation), if applicable (see RICR 8.8.D);
<input type="checkbox"/>	<input type="checkbox"/>	Your waiver request has been explained in the Narrative, if applicable.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is this site identified as a Regulated Facility in Part 1, Minimum Standard 8: LUHPPL Identification?
<input type="checkbox"/>	<input type="checkbox"/>	If “Yes,” has approval for infiltration by the OLRSM Site Project Manager, per Part 1, Minimum Standard 8, been requested?

TABLE 2-1: Summary of Recharge (see RISDISM Section 3.3.2)

(Add or Subtract Rows as Necessary)

Design Point	Impervious Area Treated (sq ft)	Total Re _v Required (cu ft)	LID Stormwater Credits (see RISDISM Section 4.6.1)	Recharge Required by Remaining BMPs (cu ft)	Recharge Provided by BMPs (cu ft)
			Portion of Re _v directed to a QPA (cu ft)		
DP-1:	1,324	38	0	38	248
DP-2:					
DP-3:					
DP-4:					
TOTALS:	1,324	38	0	38	248

Notes:

1. Only BMPs listed in RISDISM Table 3-5 “List of BMPs Acceptable for Recharge” may be used to meet the recharge requirement.
2. Recharge requirement must be satisfied for each waterbody ID.

Indicate where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.):
See appendix of stormwater report for WQv calcs

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

WATER QUALITY – MINIMUM STANDARD 3		
YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does this project meet or exceed the required water quality volume WQv (see RICR 8.9.E-I)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the proposed final impervious cover greater than 20% of the disturbed area (see RICR 8.9.E-I)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	If “Yes,” either the Modified Curve Number Method or the Split Pervious/Impervious method in Hydro-CAD was used to calculate WQv; or,
<input checked="" type="checkbox"/>	<input type="checkbox"/>	If “Yes,” either TR-55 or TR-20 was used to calculate WQv; and,
<input type="checkbox"/>	<input type="checkbox"/>	If “No,” the project meets the minimum WQv of 0.2 watershed inches over the entire disturbed area.
<input type="checkbox"/>	<input type="checkbox"/>	Not Applicable
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does this project meet or exceed the ability to treat required water quality flow WQf (see RICR 8.9.I.1-3)?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Does this project propose an increase of impervious cover to a receiving water body with impairments? If “Yes,” please indicate below the method that was used to address the water quality requirements of no further degradation to a low-quality water.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	RICR 8.36. A Pollutant Loading Analysis is needed and has been completed.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	The Water Quality Guidance Document (Water Quality Goals and Pollutant Loading Analysis Guidance for Discharges to Impaired Waters) has been followed as applicable.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	BMPs are proposed that are on the approved technology list . If “Yes,” please provide all required worksheets from the manufacturer.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Additional pollutant-specific requirements and/or pollutant removal efficiencies are applicable to the site as the result of a TMDL, SAMP, or other watershed-specific requirements. If “Yes,” please describe:

TABLE 3-1: Summary of Water Quality (see RICR 8.9)

Design Point and WB ID	Impervious area treated (sq ft)	Total WQv Required (cu ft)	LID Stormwater Credits (see RICR 8.18)	Water Quality Treatment Remaining (cu ft)	Water Quality Provided by BMPs (cu ft)
			WQv directed to a QPA (cu ft)		
DP-1:	1,324	129	0	129	248
DP-2:					
DP-3:					
DP-4:					
TOTALS:	1,324	129	0	129	248
Notes:					
1. Only BMPs listed in RICR 8.20 and 8.25 or the Approved Technologies List of BMPs is Acceptable for Water Quality treatment.					
2. For each Design Point, the Water Quality Volume Standard must be met for each Waterbody ID.					
<input checked="" type="checkbox"/> YES	This project has met the setback requirements for each BMP.				
<input type="checkbox"/> NO	If “No,” please explain:				
<input type="checkbox"/> Indicate where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.): See appendix of stormwater report WQv calcs					

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

CONVEYANCE AND NATURAL CHANNEL PROTECTION (RICR 8.10) – MINIMUM STANDARD 4		
YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is this standard waived? If “Yes,” please indicate one or more of the reasons below:
		<input type="checkbox"/> The project directs discharge to a large river (i.e., 4th-order stream or larger. See RISDISM Appendix I for State-wide list and map of stream orders), bodies of water >50.0 acres in surface area (i.e., lakes, ponds, reservoirs), or tidal waters. <input checked="" type="checkbox"/> The project is a small facility with impervious cover of less than or equal to 1 acre. <input checked="" type="checkbox"/> The project has a post-development peak discharge rate from the facility that is less than 2 cfs for the 1-year, 24-hour Type III design storm event (prior to any attenuation). (<u>Note</u> : LID design strategies can greatly reduce the peak discharge rate).
<input type="checkbox"/>	<input type="checkbox"/>	Conveyance and natural channel protection for the site have been met. If “No,” explain why:

TABLE 4-1: Summary of Channel Protection Volumes (see RICR 8.10) N/A

Design Point	Receiving Water Body Name	Coldwater Fishery? (Y/N)	Total CPv Required (cu ft)	Total CPv Provided (cu ft)	Average Release Rate Modeled in the 1-yr storm (cfs)
DP-1:	Not Applicable				
DP-2:					
DP-3:					
DP-4:					
TOTALS:					
<u>Note</u> : The Channel Protection Volume Standard must be met in each waterbody ID.					
<input type="checkbox"/> YES <input type="checkbox"/> NO	The CPv is released at roughly a uniform rate over a 24-hour duration (see examples of sizing calculations in Appendix D of the RISDISM).				
<input type="checkbox"/> YES <input type="checkbox"/> NO	Do additional design restrictions apply resulting from any discharge to cold-water fisheries; If “Yes,” please indicate restrictions and solutions below.				
<input type="checkbox"/>	Indicate below where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.).				

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

OVERBANK FLOOD PROTECTION (RICR 8.11) AND OTHER POTENTIAL HIGH FLOWS – MINIMUM STANDARD 5		
YES	NO	Not Applicable
<input type="checkbox"/>	<input type="checkbox"/>	Is this standard waived? If yes, please indicate one or more of the reasons below:
		<input type="checkbox"/> The project directs discharge to a large river (i.e., 4th-order stream or larger. See Appendix I for state-wide list and map of stream orders), bodies of water >50.0 acres in surface area (i.e., lakes, ponds, reservoirs), or tidal waters. <input type="checkbox"/> A Downstream Analysis (see RICR 8.11.D and E) indicates that peak discharge control would not be beneficial or would exacerbate peak flows in a downstream tributary of a particular site (e.g., through coincident peaks).
<input type="checkbox"/>	<input type="checkbox"/>	Does the project flow to an MS4 system or subject to other stormwater requirements? If “Yes,” indicate as follows:
		<input type="checkbox"/> RIDOT <input type="checkbox"/> Other (specify):
<p>Note: The project could be approved by RIDEM but not meet RIDOT or Town standards. RIDOT’s regulations indicate that post-volumes must be less than pre-volumes for the 10-yr storm at the design point entering the RIDOT system. If you have not already received approval for the discharge to an MS4, please explain below your strategy to comply with RIDEM and the MS4.</p>		
		Indicate below which model was used for your analysis. <input type="checkbox"/> TR-55 <input type="checkbox"/> TR-20 <input type="checkbox"/> HydroCAD <input type="checkbox"/> Bentley/Haestad <input type="checkbox"/> Intellisolve <input type="checkbox"/> Other (Specify):
YES	NO	Not Applicable
<input type="checkbox"/>	<input type="checkbox"/>	Does the drainage design demonstrate that flows from the 100-year storm event through a BMP will safely manage and convey the 100-year storm? If “No,” please explain briefly below and reference where in the application further documentation can be found (i.e., name of report/document, page numbers, appendices, etc.):
<input type="checkbox"/>	<input type="checkbox"/>	Do off-site areas contribute to the sub-watersheds and design points? If “Yes,”
<input type="checkbox"/>	<input type="checkbox"/>	Are the areas modeled as “present condition” for both pre- and post-development analysis?
<input type="checkbox"/>	<input type="checkbox"/>	Are the off-site areas shown on the subwatershed maps?
<input type="checkbox"/>	<input type="checkbox"/>	Does the drainage design confirm safe passage of the 100-year flow through the site for off-site runoff?
<input type="checkbox"/>	<input type="checkbox"/>	Is a Downstream Analysis required (see RICR 8.11.E.1)?
<input type="checkbox"/>	<input type="checkbox"/>	Calculate the following:
		<input type="checkbox"/> Area of disturbance within the sub-watershed (areas)
		<input type="checkbox"/> Impervious cover (%)
<input type="checkbox"/>	<input type="checkbox"/>	Is a dam breach analysis required (earthen embankments over six (6) feet in height, or a capacity of 15 acre-feet or more, and contributes to a significant or high hazard dam)?
<input type="checkbox"/>	<input type="checkbox"/>	Does this project meet the overbank flood protection standard?

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

Table 5-1 Hydraulic Analysis Summary

Subwatershed (Design Point)	1.2" Peak Flow (cfs) **		1-yr Peak Flow (cfs)		10-yr Peak Flow (cfs)		100-yr Peak Flow (cfs)	
	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)
DP-1:	0.02	0.02	0.06	0.07	0.28	0.26	0.82	1.03
DP-2:								
DP-3:								
DP-4:								
TOTALS:								

** Utilize modified curve number method or split pervious /impervious method in HydroCAD.

Note: The hydraulic analysis must demonstrate no impact to each individual subwatershed DP unless each DP discharges to the same wetland or water resource.

Indicate as follows where the pertinent calculations and/or information for the items above are provided	Name of report/document, page numbers, appendices, etc.
Existing conditions analysis for each subwatershed, including curve numbers, times of concentration, runoff rates, volumes, and water surface elevations showing methodologies used and supporting calculations.	See stormwater report by NEI
Proposed conditions analysis for each subwatershed, including curve numbers, times of concentration, runoff rates, volumes, water surface elevations, and routing showing the methodologies used and supporting calculations.	
Final sizing calculations for structural stormwater BMPs, including contributing drainage area, storage, and outlet configuration.	
Stage-storage, inflow and outflow hydrographs for storage facilities (e.g., detention, retention, or infiltration facilities).	

Table 5-2 Summary of Best Management Practices

BMP ID	DP #	BMP Type (e.g., bioretention, tree filter)	BMP Functions					Bypass Type External (E) Internal (I) or NA	Horizontal Setback Criteria are met per RICR 8.21.B.10, 8.22.D.11, and 8.35.B.4		
			Pre-Treatment (Y/N/NA)	Re _v	WQ _v	CP _v (Y/N/NA)	Overbank Flood Reduction (Y/N/NA)		Yes/No	Technical Justification (Design Report page number)	Distance Provided
1	1	Drywell 1	NA	17	49	NA	NA	NA	Yes		>10'
2	1	Drywell 2	NA	21	61	NA	NA	NA	Yes		>10'
		TOTALS:		38	110						

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

Table 5.3 Summary of Soils to Evaluate Each BMP									
DP #	BMP ID	BMP Type (e.g., bioretention, tree filter)	Soils Analysis for Each BMP						
			Test Pit ID# and Ground Elevation		SHWT Elevation (ft)	Bottom of Practice Elevation* (ft)	Separation Distance Provided (ft)	Hydrologic Soil Group (A, B, C, D)	Exfiltration Rate Applied (in/hr)
			Primary	Secondary					
1	1	Drywell 1	110.5'		103.8'	106.5'	2.7	B	1.02
1	2	Drywell 2	105.5'		98.8'	101.5'	2.7	B	1.02
		TOTALS:							

* For underground infiltration systems (UICs) bottom equals bottom of stone, for surface infiltration basins bottom equals bottom of basin, for filters bottom equals interface of storage and top of filter layer

LAND USES WITH HIGHER POTENTIAL POLLUTANTS LOADS (LUHPPLs) – MINIMUM STANDARD 8			
YES	NO	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Describe any LUHPPLs identified in Part 1, Minimum Standard 8, Section 2. If not applicable, continue to Minimum Standard 9.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are these activities already covered under an MSGP? If “No,” please explain if you have applied for an MSGP or intend to do so?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	List the specific BMPs that are proposed for this project that receive stormwater from LUHPPL drainage areas. These BMP types must be listed in RISDISM Table 3-3, “Acceptable BMPs for Use at LUHPPLs.” Please list BMPs:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Additional BMPs, or additional pretreatment BMP’s if any, that meet RIPDES MSGP requirements; Please list BMPs:
			Indicate below where the pertinent calculations and/or information for the above items are provided (i.e., name of report/document, page numbers, appendices, etc.).

ILLICIT DISCHARGES – MINIMUM STANDARD 9			
Illicit discharges are defined as unpermitted discharges to Waters of the State that do not consist entirely of stormwater or uncontaminated groundwater, except for certain discharges identified in the RIPDES Phase II Stormwater General Permit.			
YES	NO	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Have you checked for illicit discharges?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Have any been found and/or corrected? If “Yes,” please identify.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Does your report explain preventative measures that keep non-stormwater discharges out of the Waters of the State (during and after construction)?

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

SOIL EROSION AND SEDIMENT CONTROL (SESC) – MINIMUM STANDARD 10		
YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<p>Have you included a Soil Erosion and Sediment Control Plan Set and/or Complete Construction Plan Set?</p> <p>Have you provided a separately-bound document based upon the SESC Template? If yes, proceed to Minimum Standard 11 (the following items can be assumed to be addressed).</p> <p>If “No,” include a document with your submittal that addresses the following elements of an SESC Plan:</p>
<input checked="" type="checkbox"/>		Soil Erosion and Sediment Control Plan Project Narrative, including a description of how the fifteen (15) Performance Criteria have been met:
<input checked="" type="checkbox"/>		Provide Natural Buffers and Maintain Existing Vegetation
<input checked="" type="checkbox"/>		Minimize Area of Disturbance
<input checked="" type="checkbox"/>		Minimize the Disturbance of Steep Slopes
<input checked="" type="checkbox"/>		Preserve Topsoil
<input checked="" type="checkbox"/>		Stabilize Soils
<input checked="" type="checkbox"/>		Protect Storm Drain Inlets
<input checked="" type="checkbox"/>		Protect Storm Drain Outlets
<input checked="" type="checkbox"/>		Establish Temporary Controls for the Protection of Post-Construction Stormwater Control Measures
<input checked="" type="checkbox"/>		Establish Perimeter Controls and Sediment Barriers
<input checked="" type="checkbox"/>		Divert or Manage Run-On from Up-Gradient Areas
<input checked="" type="checkbox"/>		Properly Design Constructed Stormwater Conveyance Channels
<input checked="" type="checkbox"/>		Retain Sediment On-Site
<input checked="" type="checkbox"/>		Control Temporary Increases in Stormwater Velocity, Volume, and Peak Flows
<input checked="" type="checkbox"/>		Apply Construction Activity Pollution Prevention Control Measures
<input checked="" type="checkbox"/>		Install, Inspect, and Maintain Control Measures and Take Corrective Actions
<input checked="" type="checkbox"/>		Qualified SESC Plan Preparer’s Information and Certification
<input checked="" type="checkbox"/>		Operator’s Information and Certification; if not known at the time of application, the Operator must certify the SESC Plan upon selection and prior to initiating site activities
<input checked="" type="checkbox"/>		Description of Control Measures, such as Temporary Sediment Trapping and Conveyance Practices, including design calculations and supporting documentation, as required

STORMWATER MANAGEMENT SYSTEM OPERATION, MAINTENANCE, AND POLLUTION PREVENTION PLAN – MINIMUM STANDARDS 7 AND 9		
Operation and Maintenance Section		
YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Have you minimized all sources of pollutant contact with stormwater runoff, to the maximum extent practicable?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Have you provided a separately-bound Operation and Maintenance Plan for the site and for all of the BMPs, and does it address each element of RICR 8.17 and RISDISM Appendix C and E?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lawn, Garden, and Landscape Management meet the requirements of RISDISM Section G.7? If “No,” why not?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the property owner or homeowner’s association responsible for the stormwater maintenance of all BMP’s? If “No,” you must provide a legally binding and enforceable maintenance agreement (see RISDISM Appendix E, page 26) that identifies the entity that will be responsible for maintenance of the stormwater. Indicate where this agreement can be found in your report (i.e., name of report/document, page numbers, appendices, etc.).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Do you anticipate that you will need legal agreements related to the stormwater structures? (e.g. off-site easements, deed restrictions, covenants, or ELUR per the Remediation Regulations). If “Yes,” have you obtained them? Or please explain your plan to obtain them:

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is stormwater being directed from public areas to private property? If "Yes," note the following: <u>Note:</u> This is not allowed unless a funding mechanism is in place to provide the finances for the long-term maintenance of the BMP and drainage, or a funding mechanism is demonstrated that can guarantee the long-term maintenance of a stormwater BMP by an individual homeowner.
Pollution Prevention Section		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Designated snow stockpile locations?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trash racks to prevent floatables, trash, and debris from discharging to Waters of the State?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Asphalt-only based sealants?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pet waste stations? (<u>Note:</u> If a receiving water has a bacterial impairment, and the project involves housing units, then this could be an important part of your pollution prevention plan).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Regular sweeping? Please describe:
<input type="checkbox"/>	<input checked="" type="checkbox"/>	De-icing specifications, in accordance with RISDISM Appendix G. (NOTE: If the groundwater is GAA, or this area contributes to a drinking water supply, then this could be an important part of your pollution prevention plan).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A prohibition of phosphate-based fertilizers? (<u>Note:</u> If the site discharges to a phosphorus impaired waterbody, then this could be an important part of your pollution prevention plan).

PART 4. SUBWATERSHED MAPPING AND SITE-PLAN DETAILS

Existing and Proposed Subwatershed Mapping (REQUIRED)		
YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing and proposed drainage area delineations
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Locations of all streams and drainage swales
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drainage flow paths, mapped according to the DEM <i>Guidance for Preparation of Drainage Area Maps</i> (included in RISDISM Appendix K)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Complete drainage area boundaries; include off-site areas in both mapping and analyses, as applicable
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Logs of borings and/or test pit investigations along with supporting soils/geotechnical report
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mapped seasonal high-water-table test pit locations
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mapped locations of the site-specific borings and/or test pits and soils information from the test pits at the locations of the BMPs
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mapped locations of the BMPs, with the BMPs consistently identified on the Site Construction Plans
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mapped bedrock outcrops adjacent to any infiltration BMP
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Soils were logged by a: NEI Staff Engineer
	<input type="checkbox"/>	DEM-licensed Class IV soil evaluator Name:
	<input type="checkbox"/>	RI-registered P.E. Name:

Subwatershed and Impervious Area Summary				
Subwatershed (area to each design point)	First Receiving Water ID or MS4	Area Disturbed (units)	Existing Impervious (units)	Proposed Impervious (units)
DP-1:	NA	7,102 sq ft	765 sq ft	2,284 sq ft
DP-2:				
DP-3:				
DP-4:				
TOTALS:				

Stormwater Management, Design, and Installation Rules (250-RICR-150-10-8)

Site Construction Plans (Indicate that the following applicable specifications are provided)		
YES	NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing and proposed plans (scale not greater than 1" = 40') with North arrow
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing and proposed site topography (with 1 or 2-foot contours); 10-foot contours accepted for off-site areas
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Boundaries of existing predominant vegetation and proposed limits of clearing
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Location clarification
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Location and field-verified boundaries of resource protection areas such as: <ul style="list-style-type: none"> ▶ freshwater and coastal wetlands, including lakes and ponds ▶ coastal shoreline features Perennial and intermittent streams, in addition to Areas Subject to Storm Flowage (ASSFs)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All required setbacks (e.g., buffers, water-supply wells, septic systems)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Representative cross-section and profile drawings, and notes and details of structural stormwater management practices and conveyances (i.e., storm drains, open channels, swales, etc.), which include: <ul style="list-style-type: none"> ▶ Location and size of the stormwater treatment practices (type of practice, depth, area). Stormwater treatment practices (BMPs) must have labels that correspond to RISDISM Table 5-2; ▶ Design water surface elevations (applicable storms); ▶ Structural details of outlet structures, embankments, spillways, stilling basins, grade-control structures, conveyance channels, etc.; ▶ Existing and proposed structural elevations (e.g., inverts of pipes, manholes, etc.); ▶ Location of floodplain and, if applicable, floodway limits and relationship of site to upstream and downstream properties or drainage that could be affected by work in the floodplain; ▶ Planting plans for structural stormwater BMPs, including species, size, planting methods, and maintenance requirements of proposed planting
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Logs of borings and/or test pit investigations along with supporting soils/geotechnical report and corresponding water tables
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mapping of any OLRSM-approv ed remedial actions/systems (including ELURs)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Location of existing and proposed roads, buildings, and other structures including limits of disturbance; <ul style="list-style-type: none"> ▶ Existing and proposed utilities (e.g., water, sewer, gas, electric) and easements; ▶ Location of existing and proposed conveyance systems, such as grass channels, swales, and storm drains, and location(s) of final discharge point(s) (wetland, waterbody, etc.); ▶ Cross sections of roadways, with edge details such as curbs and sidewalks; ▶ Location and dimensions of channel modifications, such as bridge or culvert crossings
<input type="checkbox"/>	<input type="checkbox"/>	Locations, cross sections, and profiles of all stream or wetland crossings and their method of stabilization



Town of Bristol, Rhode Island

Department of Community Development

10 Court Street
Bristol, RI 02809
www.bristolri.gov
401-253-7000

TECHNICAL REVIEW COMMITTEE MEETING

The meeting was held on Tuesday, **January 23, 2024** at 10:00 am
at 235 High Street, 1st Floor Conference Room, Department of Community Development
The Technical Review Committee held a meeting for the purpose of review of the unified
development application for **68 Magnolia Street** as a minor subdivision

Present:

Diane Williamson, Director of Community Development
Edward M. Tanner, Zoning Officer/Principal Planner
Steve Katz, Planning Board member

Also Present:

Craig Barry, Narragansett Engineering, Inc.
Al Rego, Esquire, Rego & Rego
Neal Hingorany, Narragansett Engineering, Inc.
Joshua Agoston, Magnolia Improvement, LLC

Agenda: Preliminary Application for Unified Development/Minor Subdivision to perform a minor subdivision to re-divide a merged lot and create two lots of record, lot 189 and 192 with lot 192 containing the existing structure with the option to maintain a multi-family dwelling. Lot 189 will remain vacant with plans for a conforming structure in the future to include dimensional variances for minimum lot size and minimum frontage. The property is zoned R-6, Assessor's Plat 23, Lots 185, 189, 192. Owner/Applicant: Magnolia Improvements, LLC, 243 Narragansett Park Dr., Rumford, RI 02916

The TRC discussed the process with the applicant under new state law requirements.

Narragansett Engineering, Inc (NEI) presented the proposal. This would take three existing lots that have been merged in to one lot per the zoning ordinance within the R-6 zone and propose to split the lot into two (2) separate lots. The existing single family house will remain on the large lot (lot 192 with 10,002 sq ft) with one rear setback nonconformity as a pre-existing condition.

The smaller lot (lot 189) would be developed with a new single family house, however this lot is short of lot area requirement by 400+ square feet and lot frontage is 56' (less than the 60' required).

The applicant is trying to retain an option for a two-family dwelling on the larger lot.

Public sewer and water will connect to the new lot. The sewer line servicing 68 Magnolia Street will be relocated to stay on its own lot.

The administrative officer had some comments regarding the application, which were discussed and will be addressed in a revised plan. The application has not yet been certified complete.

Proposed sewer lines would be separate for both lots and will run to an existing sewer manhole located in Roma Street.

Stormwater management will be address on the new lot with a permeable driveway, a swale, and two bioretention areas.

The TRC discussed the layout of the new proposed lot with less than required lot area and frontage. Discussed options for an accessory dwelling unit (ADU) on the existing house lot versus a two-family option. The TRC's preference is to have two lots that are dimensionally conforming by moving the proposed line separating the two lots a few feet south. This would remove the by-right option for a two family on the larger lot, but a family ADU or a deed restricted affordable ADU would be an option within or attached to the existing dwelling. One variance for side setback would be required for the existing house rather than two variances for lot dimensions.

The TRC noted that one large tree would be removed in the area of the new proposed house. The applicant agreed that two trees will be planted in response to removal of the tree on the new proposed lot. The new trees would be located on the larger lot along the southern property line near Roma Street.

Discussed affordable ADU options for the existing dwelling.

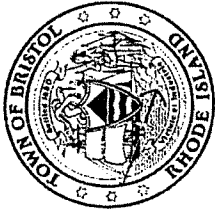
Discussed erosion/drainage/sediment control plan requirements. If planning board approves the plan, then there is no need to submit an ERSC plan for approval at building permit stage.

Applicant will prepare and submit revised plans showing lot line configuration, sewer line locations, and trees as discussed.

Motion made by Steve Katz, 2nd by Ed Tanner to send to the Planning Board with recommendations for approval subject to plan revisions as discussed.

Meeting adjourned at 10:45 am.

Notes by Ed Tanner



DRAFT

Town of Bristol, Rhode Island

Department of Community Development

10 Court Street
Bristol, RI 02809
www.bristolri.us
401-253-7000

OWNERS/APPLICANTS: John Agostini

LOCATION: 68 Magnolia Street

ASSESSOR'S PLAT/LOT Plat 23 Lots 185, 189 and 192

APPLICATION: Minor Subdivision Preliminary Phase

The Planning Board finds that:

1. The subject property consists of 15,600 square feet of land, on three merged lots, improved with an existing single family dwelling.
2. The application is to re-divide the property resulting in a vacant lot for development with 6,000 square feet of land and the improved lot to have 9,600 square feet with the existing single family dwelling at 68 Magnolia.
3. The subdivision is considered in compliance with the Zoning Ordinance (if the PB granted the dimensional variance for the backyard setback from the existing dwelling to the new property line). The subject property is in an R-6 zone.
4. The proposed subdivision is consistent with the general purposes stated in Article 1 of the Planning Board's subdivision and development review regulations.
5. The proposed subdivision is consistent with the Comprehensive Community Plan.
6. There will not be any significant negative environmental impacts from the proposed subdivision subject to the conditions of approval.
7. The lots will have physical frontage and access on existing public roads Magnolia Street.

Preliminary Approval is therefore granted for the preliminary phase of the Minor Subdivision as proposed with a vacant lot of 6,000 square feet and an improved lot of 9,600 square feet as shown on the plans by Neal K. Hingorany Professional Land Surveyor, as revised January 16, 2024 (Sheets SV-100, SV-101, C-100 and C-101) subject to the following conditions:

1. 2 Street trees to be planted to replace the tree on the vacant lot that will need to be removed for the new dwelling;
2. Planning Board Engineer review of the drainage plan, and any modification needed to the plan be made, prior to issuance of the building permit. Any change in the size of the proposed structure may also necessitate revised drainage plan at time of building permit.



Bristol Planning Board
10 Court Street
Bristol, RI 02809

March 8, 2024

Mr. Chairman and Members of the Planning Board,

I have been asked by Mr. Josh Agosti, acting on behalf of Magnolia Improvements, to review a subdivision plan relative to lots 185, 189 and 192, in which the three lots are reconfigured into two lots, both with sufficient area and frontage to meet the current R6 Bristol Zoning Board requirements.

An existing house currently sits on lots 185 & 189. By increasing the frontage of lot 192, to the required 60' frontage, the existing house is left with 8+ of side yard, whereas the side yard requirement for the R6 zone is 10'. Therefore, requiring a variance to accommodate the less than required side yard of less than 2' or less than 20% relief.

The immediate neighborhood, defined by Dewolf Avenue to the east, Wood Street to the west, Bay View Avenue to the north and Franklin Street to the south is a densely populated area, with a mix of single family and 2-8 family homes. The neighborhood was mostly built out prior to Bristol implementing a zoning law in the 1950's. It is common and typical in this neighborhood for homes not to meet frontage requirements, front yard, side yard and rear yard current R6 requirements.

After reviewing the neighborhood and knowing the neighborhood and home values in the neighborhood, in my professional opinion, there would be no adverse impact on value to any adjacent or nearby homes in the neighborhood if this variance was granted.

Regards,

Douglas W. Gablinske

Qualifications: Douglas W. Gablinske

Douglas W. Gablinske is a 1975 Providence College graduate and has been appraising residential properties in Rhode Island for the past 16 years. Doug was trained by Scott T. Nagy at Nyberg Associates, Providence, RI and has appraised residential properties in all 39 cities and towns.

Prior to appraising, he owned and operated Douglas Properties, a residential single family home building and general contracting company located in Bristol, RI.

Douglas Properties built and sold more than 50 single family homes and rehabilitated numerous multifamily properties from Bristol to Providence.



Douglas W. Gablinske

In 1995 Doug founded East Bay Appraisal, Ltd., a residential appraisal firm that specialized in the Bristol and Newport County areas.

As the company grew, clients requested that the firm also accept a substantial amount of assignments throughout the rest of Rhode Island and nearby Massachusetts.

Doug responded by hiring Scott as Senior Staff Appraiser, and other appraisers with specific geographic appraisal expertise in Providence, Kent and Washington Counties, as well as nearby Massachusetts. He has managed the growth of the firm since it's founding as East Bay Appraisal, and changed the name to AppraiseRI to reflect the growing geographical area that the company now serves and the firm has completed more than 17,000 appraisal assignments since 1997.

Besides appraising and general contracting, Doug sold real estate in the late 70's and still maintains a brokers license, however, he does not list or sell properties. One hundred percent of his time is spent managing the appraisal business.

The firm does, however, provide 203k consulting services to a limited number of clients. Doug is one of only three RI appraisers, who is an approved 203k consultant and FHA appraiser.

Douglas W. Gablinske

AppraiserRI
(401)253-9910
doug@appraiserri.biz

Pertinent Professional Experience

1996- Present: President & Certified Residential Appraiser-AppraiserRI
1987-1995: President, Douglas Properties: Homebuilder, General Contractor and Developer
1976-1979: Salesman, Rondeau Associates: Real Estate Sales Company

General Education

1971 Bristol High School, College Prep
1975 Providence College, BA, Social Sciences
2014 Appraisal Institute, SRA Designation
2015 Appraisal Institute, AI – RRS Designation

Professional License

RI Real Estate Appraiser	#CRA.oA00562	HUD 203K Consultant (Former License)	#P0311
RI Real Estate Broker	#B09801	RI Builder (Former License)	#4500
FHA Approved Appraiser	#CRA.oA00562		

Professional Affiliations

Appraisal Institute	RI Mortgage Bankers Association-(Former) Board Member
RI Association of Realtors	RI Builders Association (Past Affiliation)

Real Estate Appraisal Education

Date	Hours	Course	Date	Hours	Course
02/92	15	AP1002 The Basics of Appraisal	10/08	7	Declining Markets & Sales Concessions
03/92	15	AP2002 Real Estate Analysis	11/08	7	USPAP Update
04/92	15	AP5003 Appraisal Standards & Ethics	02/09	7	FHA Appraising
05/92	15	AP3002 Sales Comparison Approach	04/09	3	1004MC Form
06/92	15	AP4002 Cost & Income Approaches	11/09	7	USPAP Update
12/92	60	Introduction to Appraisal Real Property	12/09	5	Business Practice in Ethics
06/93	N/A	1210 – Residential Case Study	04/10	2	HVCC Legislation
08/93	16	Standards of Professional Practice, Part A	02/11	7	Secondary Market Guidelines
08/93	11	Standards of Professional Practice, Part B	05/11	8	Appraisal Curriculum Overview
02/95	20	Advanced Residential Form/Narrative Write	08/11	7	UAD
09/95	14	Residential Demonstration Appraisal Write	09/12	7	UAD Aftereffects
01/95	3	20 Common Appraisal Errors	04/13	7	USPAP Update
02/96	2	What Do You Do? & How Do You DO It?	04/13	3	Book of Adjustments
02/97	2	Expert Witness	05/13	7	Appraising Green
04/98	16	Standards of Professional Practice, Part C	09/13	15	Market Analysis/Highest & Best Use
01/99	3	FHA Appraisals – Appraisal Report Guide	09/13	15	Finance, Statistics & Valuation Modeling
02/99	3	Building Code Compliance Fire/ADA Req	02/14	15	Advanced Application Case Study, Part 1
04/99	6	Big 3 Issue – RIA 158	02/14	30	Advanced Residential Report Writing, Part 2
10/00	3	Short Form Appraisal/FNMA Desktop	06/14	15	Review Theory – Residential
11/00	15	AP6003 Elementary Income Cap	12/14	7	USPAP Update
03/01	15	Income Valuation of Small/Mixed Use	01/15	7	USPAP Update
03/02	7	Fundamentals Relocation Appraising	09/15	2	Deed Restricted Land Valuation
03/02	7	FHA Update	01/16	7	2016-17 USPAP
04/02	7	310 Basic Income Capitalization	06/16	7	Technology to Measure/Support Adjustments
05/03	7	Subdivision Analysis	07/16	2	AI Charlotte Conference
09/03	8	420 Business Practices and Ethics	07/16	4	AI Charlotte Conference
01/04	7	Scope of Work: Expanding Services	07/16	3	AI Charlotte Conference
03/04	7	National USPAP Update Course	07/16	4	AI Charlotte Conference
03/04	2	Appraiser Independence: App & Bankers	06/17	4	Economic Rights Risks of Climate Change
03/04	2	Do's & Don'ts of the Appraisal Profession	02/19	7	USPAP
06/05	3	Current Issues in USPAP	10/19	7	NE Appraisers Residential Programs
06/05	7	Professional Guide Uniform Appraisal Report	01/20	7	USPAP
01/06	7	How to Meet Client Expectations			
07/07	18	Practical Residential Appraising			
07/07	7	USPAP Update			
				609 Total Hours	



Town of Bristol, Rhode Island

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March 6, 2024

TO: Planning Board
FROM: Diane M. Williamson, Administrative Officer
RE: **Master Plan for Blithewold**

In accordance with Section 28-359 (2)(a) attached is correspondence from Karen Binder informing the Board of a minor modification to the previously approved Master Plan which is to convert the North Cottage residential unit into museum office use.

There are no other changes proposed to the previously approved Master Plan which will remain valid for 5 years.



BLITHEWOLD
MANSION, GARDENS & ARBORETUM

March 5, 2024

Re: Blithewold, Inc. Request to Change Use of North Cottage, 111 Ferry Road and renew our previously submitted Master Plan for additional five years.

Dear Planning Board Members:

In 2014, the Bristol Planning board reviewed and approved Blithewold, Inc.'s Institutional Master Plan which included upgrades to our parking lot and Visitor Center/Carriage House.

With Blithewold's growing horticultural and grounds staff, I respectfully request approval to modify the use of the North Cottage, located at 111 Ferry Road from a private single-family residential home, to staff offices. This conversion is not a more intensive use than the residential dwelling and supports the museum operations, the principal use of the property.

No other changes, other than the use at the North Cottage, are being requested at this time.

Currently, the three horticultural staff and summer intern must work in the very small potting shed in the greenhouse which measures less than 300 square feet. The same space also serves as a gathering spot for ten garden volunteers four months of the year and where more than 3,000 plants are propagated and potted up each season. It's a very tight space, offers little privacy and no space for document storage and computer work.

Blithewold's three groundskeepers and the Director of Horticulture work out of the garage complex at the south end of the property. The workroom while larger at 600 square feet is not heated. This makes staff meetings, planning sessions and breaks for lunch less than ideal.

Lastly, and even more importantly for Blithewold's future and recognition as a premiere horticultural destination, Dan Christina, Director of Horticulture wants to unite his two departments under one building as it will improve communication and strategic planning, simplify work lists and offer a comfortable gathering space for the volunteers and staff to break and meet. Having the exclusive use of the basement and garage at the North Cottage will also significantly increase storage capacity for our growing horticultural equipment and supplies and return the greenhouses potting shed back to functional work space to improve flow and out from the gardens.

Thank you for your consideration of this request. Dan Christina and I are happy to meet to discuss.

Sincerely,

Karen Binder, Executive Director, Blithewold Mansion, Gardens & Arboretum