

March 1, 2024

James D. Rabbitt, AICP
Planning Director
Jason Parker, AICP
Principal Planner
Town of South Kingstown
Town Hall - 180 High Street
Wakefield, RI 02879-3140

**Re: APPLICATION FOR MODIFICATION OF CONDITION
IN SPECIAL USE PERMIT TO ALLOW BOTH PRIVATE
AND PUBLIC PLAY ON GOLF COURSE**

Subject Property: South Shore Village Blvd.; Off Gravelly Hill Road
and Leisure Drive, A.P. 65-3, Lot 3
Applicant/Owner: Envine, LLC
Zoning District: R-40
Use Code: • 16.2 (Senior Residential Community LDP,
Elderly Only; Zon. Ord. §§ 301; 501.7)
• 33.11 Public Golf Course / No Alcohol (P)
(Phase 9)

Dear Messrs. Rabbitt and Parker:

In behalf of Envine, LLC, we respectfully make this submission for modification of a Final Special Use Permit dated March 30, 2007 (which incorporated condition #6 of a previous conditional Special Use Permit dated March 23, 1999). The requested modification would revise the condition such as to permit both private and public play on the golf course on the subject property.

Development Plan Review Approval ancillary to the Application for Modification of a Special Use Permit is also sought.

Both applications are being presented to the Planning Board on a consolidated basis pursuant to the Unified Review process prescribed by R.I. Gen. Laws § 45-24-46.4 and adopted by the Town of South Kingstown as part of the December, 2023 amendments to the Zoning Ordinance (Sec. 913).

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We are providing ten (10) sets of this submission, except for the full size (24 x 36) Plan sets, of which there are six (6), together with an additional six (6) copies of the Project Review Application form, as we understand that sixteen (16) copies of that document are typically required.

The initial Conditional Special Use Permit for the development now known as South Shore Village was for a mobile home park and a nine (9) hole golf course special impact development, also including a clubhouse, general store, tennis courts, and pool, in what was then an R-40A zone. The approval included a number of conditions, one of which, Condition #6, was that,

"The use of the golf course shall be open to residents of this mobile home park and that neighboring mobile home park known as Tuckertown Village. The golf course shall not be open to the general public for playing of golf or for any other purpose, including catering or location of social events."

(Exhibit 1 hereto).

On November 15, 2006, the Planning Department issued a favorable Development Plan Review and Recommendation to the Zoning Board of Review with respect to the development.

The final special use permit approval for what is now South Shore Village was issued on March 30, 2007, and incorporated by reference the conditions set forth in the initial March 23, 1999 conditional Special Use Permit approval, including the aforesaid Condition #6. (Exhibit 2 hereto).

The subject property is now situated in the R-40 Zoning District, in which a "golf course – no alcohol" is a by-right permitted use. (Zon. Ord. § 301; Use Code 33.11).

On August 4, 2015, the Planning Department approved a modification to the entry drive of the development. (Exhibit 4 hereto).

The golf course has been constructed and will be open for play in the Spring of 2024.

The following materials have been annexed hereto as Exhibits:

- EXHIBIT 1: March 23, 1999 Initial Conditional Special Use Permit
- EXHIBIT 2: March 30, 2007 Final Special Use Permit
- EXHIBIT 3: November 16, 2006 Development Plan Review and Recommendation
- EXHIBIT 4: August 4, 2015 letter from South Kingstown Planning Director / Administrative Officer re entrance modification
- EXHIBIT 5: Town of South Kingstown Planning Board Project Review Application

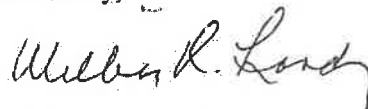
March 1, 2024
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- EXHIBIT 6: Town of South Kingstown Zoning Board of Review Application
- EXHIBIT 7: Town of South Kingstown Planning Board Owner Authorization Form (notarized)
- EXHIBIT 8: Town of South Kingstown Zoning Board of Review Owner/Authorized Agent Form (notarized)
- EXHIBIT 9: Town of South Kingstown Project Team Form
- EXHIBIT 10: Proposed Golf Course Plans (DiPrete Engineering)
- EXHIBIT 11: Architectural (F/K/A) Elevations And Floor Plan
- EXHIBIT 12: Websoil Soil Survey
- EXHIBIT 13: Stormwater Management Report (DiPrete Engineering)
- EXHIBIT 14: Stormwater System Operation & Maintenance Plan
- EXHIBIT 15: RIDEM OWTS Construction Permit #1932-0686
- EXHIBIT 16: June 30, 2008 RIDEM Preliminary Subdivision Suitability Determination
- EXHIBIT 17: December 20, 2022 RIDEM Office of Water Resources Insignificant Alteration Permit
- EXHIBIT 18: South Shore Village Traffic Impact Study (BETA)
- EXHIBIT 19: Completed Development Plan Review Checklist
- EXHIBIT 20: List of Abutters within 200' of A.P. 65, Lot 3

We also hereby submit our check in the sum of \$250.00, the required Special Use Permit fee.

Thank you for your assistance.

Sincerely,



William R. Landry

Enclosures

cc: Lawrence C. LeBlanc
Roland J. Fiore
Stephen B. Kenyon, Esq.
Christopher Duhamel, P.E.

EXHIBIT 1

760/10



Thomas South Kingstown Town Clerk
Thomas S. Hollister

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Town of South Kingstown, Rhode Island

P.O. Box 31
Waketield, RI 02880-0031
Tel. 401-789-8351

OFFICE OF THE BUILDING OFFICIAL

NOTICE OF DECISION

ZONING BOARD OF REVIEW

March 23, 1999

At a meeting of the Zoning Board of Review held March 22, 1999, the Board granted the request for a *Special Use Permit* to create a mobile home park and golf course in a R-40A Zone for property which is the subject of this petition and is owned by *South County Sand and Gravel Co., Inc.* This application is made by *South County Country Club*, 170 First Industrial Drive, Peace Dale, RI. Premises located at 341 Gravelly Hill Road, South Kingstown, Tax Assessor's Map 65, Lot 2, 3, 4, 5, 8 and 13; Map 72-2, Lot 20.

The Decision of the Board is as follows:

A. Procedural History

The Zoning Board of Review held hearings on the above-referenced application on April 29, 1998, May 27, 1998, June 18, 1998, July 7, 1998, and August 4, 1998. The Board has held meetings on other dates on which this item was on the Agenda, but held no hearing on the matter on such dates, but merely continued it or rescheduled it to another date.

On January 20, 1999, written briefs were submitted to the Board on behalf of the Applicant and the Perryville Preservation Association, a nonprofit corporation which had been represented by counsel throughout the public hearing process, and had presented witnesses in opposition to the application.

Zoning Board members George, Toth, Gies, and Osborn, were present at all of the Zoning Board hearings at which testimony was taken as referenced above. Former Zoning Board member Matt McHugh was also present at all of the above hearings. The fact that five current members of the Zoning Board did not hear all of the testimony on this case was not apparent until the submission on January 20, 1999 of transcripts of all of these public hearings. Minutes of the various meetings previously submitted had inadvertently excluded the hearing date of July 7, 1998. Consequently, the Zoning Board of Review has invoked the "Rule of Necessity" and requested former Zoning Board member, Matthew McHugh, to sit for deliberation and voting on this application. It should be noted that Mr. McHugh was a member of the Zoning Board in good standing during all of the hearings.

EXHIBIT X TO EXHIBIT E

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and only resigned from the Zoning Board upon his election to the South Kingstown Town Council in November of 1998.

Mr. McHugh agreed to participate, and was provided with copies of all of the transcripts and other written materials that were provided to the members on January 20, 1999. Mr. McHugh attended the special Zoning Board meeting on February 22, 1999 and actively participated in the deliberation on this petition. Mr. McHugh is in attendance and is voting on this petition. Attorneys for both the Applicant and the Perryville Preservation Association have both agreed to the recall of Mr. McHugh and his participation, and their written consents are attached and incorporated by reference in this decision.

B. Findings of Facts

1. The Board finds that, pursuant to the current Zoning Ordinance, approximately 204 conventional residences could be developed as part of a conventional subdivision. The Board therefore finds that any proposed development before it as part of this special use permit should be judged and weighed against such 204 residences and not against permanently vacant land.

2. The Board finds that the proposed use of the golf course will not be inimical to the public health, safety, welfare, and will not substantially alter the appropriate use or value of neighboring property. The Board finds that the golf course, if consistent with the turf management conditions that were presented and offered by the Applicant, would not cause significant harm to the surrounding environment.

3. The Board finds that the construction of 443 manufactured home units on the property would have a significant negative impact on the public health, safety, and welfare, and would have substantial negative affect on the appropriate use and values of surrounding property. The reasons for this finding are as follows:

- (a) The Board finds that the Applicant did not meet its burden of proof as to the question of harmful impact from nitrates in the soil due to the number of septic systems associated with the contemplated 443 manufactured home units. The Board was faced with two knowledgeable and articulate experts on this issue, one from the Applicant, Alexander Rothchild, and one from the objector, Daniel Urish. The Board intensely questioned and re-questioned both of these experts in an attempt to distinguish and determine the reason for the different conclusions by each of the experts. (See transcript of May 27, 1998 meeting.) Upon weighing all of the testimony, the Board finds that the Applicant's expert was not credible and the objector's expert was credible, such that the Board finds that there would be a significant negative environmental impact from the septic systems associated with 443 units.

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(b) The Board finds that the real estate expert presented by the Applicant, Mr. James Sloan, IV, lacked a great deal of veracity and credibility. His knowledge of market values in the area was flawed based upon the personal knowledge of the members of the Zoning Board. Therefore, as a whole, his testimony was not credible, and the Board finds that the creation of 443 units on the site would have a significant negative impact on the value of surrounding properties.

4. The Board further finds that, even if the Applicant met its burden of proof with respect to the contemplated 443 units, the Applicant was legally prevented from doing so by its previous stipulations and restrictions with regard to Tuckertown Village (the applications for which extend back to 1982). As part of those applications, the property owner had submitted to the restriction that the overall density of the property could be no more than one unit per 40,000 square feet of lot area. The Board heard extensive testimony from both the Applicant and the objectors, as well as from the Town Zoning Enforcement Officer, as to which parcel or parcels that restriction applied. The Zoning Board finds today that a significant portion (if not all) of the property currently before it is subject to that restriction explicitly imposed on the land, and that the remainder (if any) of the property is implicitly governed by the restriction as part of the Applicant's overall development plan of the Tuckertown Village Mobile Home Park. The Board bases this finding on its careful weighing of the testimony and factual examination before it at the public hearings as well as the personal knowledge of those board members who were on the Board at the time of the earlier Tuckertown applications.

5. The Board also finds that the Zoning Ordinance density of one unit per forty thousand square feet still applies, as indicated by the very zoning designation "R40-A." The Board finds that the allowance of "6,000 square feet" discussed in Article 9 of the Zoning Ordinance is strictly a design standard for minimum lot site size for each individual unit, and is not a restriction of density.

6. For all the foregoing reasons, the Board has found that the contemplated 443 units may not be granted by the Zoning Board.

7. The Zoning Board finds that one unit per forty thousand square feet of gross lot area is permitted. The Board finds that based on Applicant's Exhibit #3 there is a total of 11,074,682 s.f. of total lot area. The lot area includes the total building site area proposed, the recreational space, open space - all north of Sand Plains Trail; and the area south of Sand Plains Trail indicated for future development. As calculated, one unit per forty thousand square feet, would result in 285 units permitted. If the area south of Sand Plains Trail indicated for future development is deducted from the total area, then only 250 units are permitted.

8. The Board finds that there would not be any significant harm to the public health, safety or welfare or harm to the appropriate use or value of the surrounding properties, if only 285 units were created. Any nutrient loading from the septic systems associated with 285 units would not cause any significant environmental harm. The

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reduction in density of units would allow for the creation of a significant visual buffer, amenities, open space and an increased lot size which would not significantly devalue neighboring properties. Finally, the reduced number of units from 443 to 285 would allow for a traffic volume that would not create a traffic hazard.

9. The Board further finds, with respect to the Applicant's request to be considered a "Special Impact Development" pursuant to Article 23, Section 2331 of the South Kingstown Zoning Ordinance, that with the proper stipulations and conditions adhered to as offered and presented by the Applicant, that the proposed property would be used for elderly housing only, that there will therefore be either no impact at all or a negligible impact on the South Kingstown school population, and therefore that this development qualifies as a Special Impact Development.

C. Conclusions

1. Therefore, based on the aforementioned findings of fact, the Board hereby grants a special use permit for a golf course, substantially in accordance with the plans filed with the Zoning Board of Review, and further identified as follows:

South County Country Club for South County Sand & Gravel Co., Inc.; A.P. 65. Lots 2, 3, 4, 5, 13 and portion of 8; A.P. 72-2 portion of 20; Environmental Planning and Surveying, Inc. December 10, 1997.

2. The Board hereby grants a special use permit for 285 manufactured home units, the plans for such units to be approved by the South Kingstown Planning Board pursuant to Development Plan Review in accordance with Condition of Approval number 7 set forth below.

3. The Board hereby grants a special use permit for the elderly housing manufactured home park to be considered a Special Impact Development, pursuant to Article 23, Section 2331 of the South Kingstown Zoning Ordinance.

D. Conditions of Approval

1. As to the golf course, approval is granted pursuant to the turf management standards proposed by the Applicant as set forth in Applicant's Exhibits 13-15 and Exhibit 18 of the record (see transcript May 27, 1998, pages 79 to 88, and transcript of June 18, 1998, pages 76-101).

2. As to the mobile home park, the total number of units that are allowed shall not exceed one unit per forty thousand square feet of gross lot area. Gross lot area shall be deemed to include all of that lot area allotted for the proposed mobile home park, without subtracting any square footage that will be taken up by wetlands and internal roadways. The square footage for any external roads which are traversed by the general public, even if a private road, shall be subtracted from the total. The Applicant has indicated that the application is for a parcel of 9,669,262 s.f. of lot area, and would therefore allow 250 units. A further area southward of Sand Plains Trail has been

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indicated as an area for future development. This area is indicated by the Applicant to be 32.264 acres or 1,405,420 s. f. The total number of units north of Sand Plains Trail may equal one unit per forty thousand square feet of the area both north and south of Sand Plains Trail for a total of 285 units.

3 All the units maintained on the property shall not contain more than two bedrooms and shall be subject to an appropriate deed restriction to be recorded in the Land Evidence Records and also indicated on any and all ground leases for mobile home sites.

4 All lots shall be connected to a public water supply.

5 The occupancy of the mobile home park shall be limited to senior housing, as defined in Rhode Island Fair Housing Practices Act, and must be evidenced by a covenant placed on the Land Evidence Records indicating such restrictions, and such restrictions must also be indicated on any and all ground leases for mobile home sites.

6 The use of the golf course shall be open to residents of this mobile home park and that neighboring mobile home park known as Tuckertown Village. The golf course shall not be open to the general public for playing of golf or for any other purpose, including catering or location of social events.


7 Pursuant to the Applicant's own election, this proposed development shall still be subject to Development Plan Review by the South Kingstown Planning Board. The final layout plan for the mobile home park, at the reduced number of units, shall be submitted to the South Kingstown Planning Board for its review, for determination of the final layout plan and location of the individual units on the site to be submitted to the Zoning Board.

Motion made by Mr. Toth.

Motion seconded by Mr. McHugh.

VOYE Toth, Aye; McHugh, Aye; Osborn, Aye; Gies, Aye; George, Aye.

IT WAS THE UNANIMOUS DECISION OF THE BOARD TO GRANT THE PETITION.


Russell W. Brown, Clerk
Zoning Board of Review

RWB:ala

EXHIBIT 2



Bk L1618 P9581 #95

Town of South Kingstown, Rhode Island

P.O. Box 31
Wakefield, RI 02880-0031
Tel. 401-789-9331

OFFICE OF THE BUILDING OFFICIAL

Walter South Kingstown Town Clerk

NOTICE OF DECISION

ZONING BOARD OF REVIEW

March 30, 2007

Zoning Board Granted on March 28, 2007

MOTION: "The Zoning Board of Review hereby grants final approval of a *Special Use Permit* to create a manufactured home park and golf course to South County Sand and Gravel Co., Inc. for the application known as South County Country Club, premises located at 841 Gravelly Hill Road, which includes Lots 2, 3, 4, 5, 15 (formerly a portion of Lot 8) and 13 on Tax Assessor's Map 65, and Lot 39 (formerly a portion of Lot 20), on Tax Assessor's Map 72-2.

This final decision of the Zoning Board incorporates the Procedural History, Findings of Fact and Legal Conclusions articulated in the March 23, 1999 decision of the Board with the following additions.

A. Procedural History

In a decision dated March 23, 1999, the Zoning Board granted conditional approval to the applicant South County Sand and Gravel Co., Inc. of a special use permit for a manufactured (mobile) home park and golf course and special impact development. Said decision reduced the project from 443 units to 285 units and in accordance with condition of approval Number 7 required a re-design of the project. Development Plan Review by the Planning Board and return to the Zoning Board for finalization of the plan. Following an appeal by the applicant to the Superior Court, the matter was returned to the Technical Review Committee and Planning Board early 2002.

The Town of South Kingstown Planning Board granted Development Plan Review approval, subject to several conditions, on November 15, 2006. This application then proceeded to the Zoning Board for a public hearing, which commenced on January 5, 2007 and was concluded on January 17, 2007. The purpose of this public hearing was to finalize the terms of the special use permit originally granted in March of 1999 and to attach approval to a specific site plan of the golf course and the reduced number of manufactured home units.

SCHEDULE V TO EXHIBIT E

B. Findings of Fact

1. The March 1999 approval was based upon an overall density calculation of one manufactured home unit per 40,000 square feet of gross lot area, reflecting the density allowed under the then applicable zoning designation for the premises - R40-A. The Board finds that this application has been vested under the terms of the Zoning Ordinance and zoning designation in effect in 1999, and therefore a density of one unit for 40,000 square feet of gross lot area is currently permitted for this development.

2. The Zoning Board finds that the final number of manufacture home units permitted in the development shall be determined based upon a final boundary survey of the gross lot area which shall include the total building site area proposed, the recreational space, open space - all north of Sand Plains Trail and shall include the area south of Sand Plains Trail as indicated on the September 2006 site plan submitted.

3. The Board further finds that the revisions made to the plan since the March 1999 decision do not effect the Board's prior approval for a special use permit designating the project as a Special Impact Development, in so far as the proposed housing will be used for elderly housing only, and therefore the project will have either no impact at all or a negligible impact of the Town of South Kingstown school population.

4. The Board finds that by virtue of an easement recorded in the Town of South Kingstown Land Evidence Records in April of 1997, the applicant, and subsequently the future residents of the development, have the right to access the premises through The Village at Worden's Pond (aka Tuckertown Village) via Leisure Drive. The Board further finds that access through Leisure Drive by construction vehicles and the upgrade or extension of water connections will have an impact of the residents of the Village making certain conditions of approval necessary.

C. Conclusions

1. The Zoning Board hereby grants final approval of a special use permit for the development of a golf course and elderly housing manufactured home park in substantial accordance with the September 2006 site plan submitted subject to the conditions indicated below.

2. The Zoning Board hereby grants final approval of a special use permit for the elderly housing manufactured home park as a "Special Impact Development."

Zoning Decision
South County Sand and Gravel Co., Inc.
Page 3

D. Conditions of Approval

1. The Zoning Board incorporates the Conditions of Approval numbered 1 through 6 articulated in the March 23, 1999 decision of the Board.

2. The Zoning Board incorporates as part of its decision the conditions of approval imposed by the Planning Board in their November 2006 decision.

3. The Zoning Board's final approval is conditioned upon the following terms relating to access.

A. The primary access (ingress and egress) to the site during construction shall be via Gravelly Hill Road. Leisure Drive shall be used for access (ingress and egress) to the site by construction vehicles only in cases of necessity, and will not occur on holidays or weekends, except for extraordinary reasons and with notice

B. Best efforts and due diligence shall be applied to minimize and avoid unnecessary impacts on the residents of The Village at Worden's Pond ("the Village"). This shall include, but shall not be limited to:

1. Implementing a procedure whereby the site construction manager/ site supervisor provides two weeks notice to The Village, through its manager, of activities which will require the use of Leisure Drive, provided that, notice shall be given as soon as possible in matters of an emergency nature.

2. Conducting any necessary use of Leisure Drive in a manner which minimizes adverse impacts, including eliminating speed bumps (if contend given by The Village) utilizing flaggers for the safe passage of construction vehicles, utilizing water trucks for dust control, and restoring any damage to its pre-existing condition.

3. Following all applicable Town regulations regarding hours of operation, and proceeding with construction activities on the site in a continuous fashion with due diligence.

4. Provision of waterline construction plans and scheduled to the manager of The Village, and upgrading of the water main to occur with the minimal disruption to the Village possible.

Zoning Decision
South County Sand and Gravel Co., Inc
Page 4

4. The final number of manufactured home units shall be calculated at one unit for 40,000 square feet of gross lot area to be calculated by a Class I boundary survey approved by the Administrative Officer at the time of the Final Plan submission

Mr. Runge made the motion. Mr. Cagnetta seconded the motion.

VOTE: Runge, Aye; Cagnetta, Aye; Elion, Aye; Osborn, Aye; George, Aye.

IT WAS THE UNANIMOUS DECISION OF THE BOARD TO GRANT FINAL APPROVAL OF A SPECIAL USE PERMIT TO CREATE A MANUFACTURED HOME PARK AND GOLF COURSE TO SOUTH COUNTY SAND AND GRAVEL CO., INC. FOR THE APPLICATION KNOWN AS SOUTH COUNTY COUNTRY CLUB.

Russell W. Brown
Russell W. Brown, Clerk
Zoning Board of Review

RWB:als

C O P Y

EXHIBIT 3



BK L1618 Pg578 #95
BK L1262 Pg16 #57
11-17-2006 @ 03:36p

Town of South Kingstown, Rhode Island

P. O. Box 31
Wakefield, RI 02880-0031
Tel. 401-789-9331
Fax. 401-788-9792

PLANNING DEPARTMENT

November 15, 2006

Ms. Holly Fiore
South County Sand & Gravel Co., Inc.
145 Fiore Industrial Drive
Wakefield, Rhode Island 02879

Re: Development Plan Review and Recommendation to the Zoning Board of Review Draft Decision, South Shore Country Club, a Proposed Age-restricted Manufactured Home Park and Golf Course (as Allowed in an R-40A Zoning District), Consisting of 285 Two-bedroom, Single-family Homes, a Nine-hole Golf Course, Clubhouse, General Store, Tennis Courts and Swimming Pool, AP 65, Lots 2-5, 13 and 15, Located on Gravelly Hill Road

Dear Ms. Fiore:

At the meeting of the South Kingstown Planning Board held on Tuesday, November 14, 2006 the Board voted as follows:

Motion #1: "The South Kingstown Planning Board hereby grants Development Plan Approval to South County Sand & Gravel Co., Inc. to construct an age-restricted manufactured home park and golf course (as allowed in an R-40A Zoning District) consisting of 285 two-bedroom, single-family homes, a nine-hole golf course, clubhouse, general store, tennis courts, swimming pool, parking, landscaping and associated infrastructure as shown on plans entitled: 'Presentation Plan for South Shore Country Club, A.P. 65, Lots 2, 3, 4, 5, 13 & 15 in South Kingstown, Rhode Island, prepared for South County Sand & Gravel Co., Inc.' Plan by DiPrete Engineering, Inc., 2 Stafford Court, Cranston, RI 02879. This approval is also based on plans entitled 'South Shore Country Club' by Prellwitz/Chilinski Associates, Inc., Sheets DSK-26, DSK-09a, DSK-11a, DSK-20a, DSK-21a, DSK-22a, DSK-23a, DSK-24a & DSK-25a. This Development Plan Approval is based on the following Findings of Fact and Conditions of Approval:

Findings of Fact

1. The granting of this approval will not result in conditions inimical to the public health, safety and welfare.
2. The granting of this approval will not substantially or permanently injure the appropriate use of the property in the surrounding area or zoning district.
3. The plans for this project comply with all the requirements of the Zoning Ordinance and these regulations.
4. The plans for this project are consistent with the Comprehensive Plan.
5. Any conditions or restrictions that are necessary to ensure that these guidelines have been met have been incorporated into the written approval.

November 15, 2006

Conditions of Approval

1. This approval is subject to the applicant receiving final approval of a Special Use Permit from the South Kingstown Zoning Board of Review.
2. As part of the final submittal the applicant will assemble the development parcels into a single lot through an Administrative Subdivision process.
3. The applicant shall record a Final Plan identifying all major features of the development, including roads, home sites, golf course layout, parking, ponds, outdoor recreational facilities and buildings in conformance with a Final Checklist for a Major Land Development Project.
4. The Final Plans shall be in substantial conformance with the approved plans and supporting materials and shall be submitted to the Planning Board's Administrative Officer for review and approval. Because the Planning Board recognizes that the plans submitted for the common facilities within the Community Center are conceptual in nature and may be revised prior to the applicant submitting final plans/construction drawings to obtain building permits, the Planning Board establishes the following criteria to guide the Board's Administrative Officer in determining substantial conformance of final plans of the Community Center with the approved plan:
 - a. Project amenities, including, but not limited to the clubhouse, tennis courts, swimming pool, general store, mail center, golf cart storage building and parking shall be centrally located within the development parcel;
 - b. Building layout and orientation may be revised to suit site conditions or engineering considerations;
 - c. The number of parking spaces should be in general conformance with the site plan by DiPrete Engineering Associates, Inc.;
 - d. The gross square footage of the proposed clubhouse facility should be in substantial conformance with the plans by Prelwitz/Chilinski Associates, Inc.;
 - e. The clubhouse facility should provide a mix of passive and active recreational opportunities in general conformance with the plans by Prelwitz/Chilinski Associates, Inc.;
 - f. The clubhouse shall be a multi-story building designed with a variety of roof lines, architectural features, divided glass windows and doors and a wraparound deck in general conformance with the plans by Prelwitz/Chilinski Associates, Inc.
5. Final plans of the road layout, golf course alignment and pond locations shall be in substantial conformance with the approved site plan.
6. The proposed guardhouse shall be located no closer than 400 feet from Gravelly Hill Road.
7. A minimum 100 feet undisturbed buffer shall be maintained between proposed home sites A22-A43 and the southerly property line except where the applicant provides additional landscaping.
8. The main boulevard/roadway shall provide a parallel golf cart/fitness path and sidewalk.
9. The proposed outdoor storage area shall be enclosed by a solid six-foot wooden fence of the same design or similar to that proposed by the applicant.
10. Pole mounted light fixtures shall be LAN 3200 Series by American Pole or equal and shall be shielded to prevent light from spreading above the horizontal plane.
11. The applicant shall reconstruct the intersection of Gravelly Hill Road, Shannock Road and the entrance to the proposed development in conformance with a plan entitled Shannock Road & Gravelly Hill Road by DiPrete Engineering Associates, Inc. and submitted in support of the application. Final construction plans shall be subject to the review and approval of the Town's Department of Public Services. The applicant shall secure a Physical Alteration Permit and a Tree Permit for any alterations within the public right-of-way on Gravelly Hill Road and Shannock Road.
12. The applicant shall construct Intersection Drainage Improvements as outlined in a communication dated September 22, 2006 from DiPrete Engineering Associates, Inc.

November 15, 2006

- 13. The applicant shall install entrance landscaping and project signage in substantial conformance with the Conceptual Entrance Landscape Plan by Hawk Design, Inc.
- 14. The applicant shall provide the Town with an access easement for maintenance and snow plowing activities related to Sand Plains Trail.
- 15. Rights to pass from Sand Plains Trail through South Shore Country Club to Gravelly Hill Road will be substituted for historical rights to use Sand Plains Trail to access Gravelly Hill Road.
- 16. Final Plans shall reflect the easement between Sand Plains Trail and AP 66, Lot 44 recorded in the Town's Land Evidence Records at Book 719, Page 197.
- 17. As part of the final submittal, the applicant shall submit final legal documents for review and approval of the Administrative Officer and the Town's Special Legal Counsel for Planning and Zoning. Said documents shall include, but not be limited to the substitution of historical rights and an access easement in favor of the Town of South Kingstown."

Motion # 2: "The South Kingstown Planning Board recommends Zoning Board of Review approval of the application of South County Sand & Gravel Co., Inc. to construct an age-restricted manufactured home park and golf course (as allowed in an R-40A Zoning District) consisting of 285 two-bedroom, single-family homes, a nine-hole golf course, clubhouse, general store, tennis courts, swimming pool, parking, landscaping and associated infrastructure as shown on plans entitled: 'Presentation Plan for South Shore Country Club, A.P. 65, Lots 2, 3, 4, 5, 13 & 15 in South Kingstown, Rhode Island, prepared for South County Sand & Gravel Co., Inc.' Plan by DiPrete Engineering, Inc., 2 Stafford Court, Cranston, RI 02879. This recommendation is also based on plans entitled 'South Shore Country Club' by Prellwitz/Chilinski Associates, Inc, Sheets DSK-26, DSK-09a, DSK-11a, DSK-20a, DSK-21a, DSK-22a, DSK-23a, DSK24a & DSK-25a."

Respectfully,


 Henry H. Meyer, Chair
 Planning Board

HHM: mfi
 cc: ✓ DiPrete Engineering Associates, Inc.
 William Landry, Esquire
 Director of Public Services
 Building Official
 Town Clerk

EXHIBIT 4



Abel S. Hollister

Bk L1618 Pg 585 #95

Bk L1585 Pg 257 #45
18-04-2015 01:03:18
Town of South Kingstown, Rhode Island

P.O. Box 31
Wakefield, RI 02880-0031
Tel. 401-789-9331
Fax 401-788-9792

PLANNING DEPARTMENT

August 4, 2015

AUG 04 2015

Mr. Archibald Kenyon, Esq.
Kenyon Law Associates, LLP
133 Old Tower Hill Road
Wakefield, RI 02879

Re: Modification of Entry Drive; South Shore Country Club

Dear Mr. Kenyon:

This is to advise that the Town of South Kingstown does not have any particular objection to the proposed modification to the entry drive to the South County Country Club project as depicted on the plan sheets entitled: "Grading Plan 1 and Plan and Profile 1, South Shore Country Club, Sheets 10 and 22 of 51, Owner/Applicant: Envine, LLC., 497 West Beach Road, Charlestown, RI 02813, Plans by DiPrete Engineering, Two Stafford Court, Cranston, RI 02920, as modified 6/17/15". The proposed modification shifts the roadway surface and associated right of way in a general southeasterly direction between Stations 2+45 and 3+75 (+/-). Such lack of objection is predicated upon the following:

- Recording in the South Kingstown Land Evidence Records of an easement from Kristen and Matthew Fraza, owners of AP 65, lot 14 in favor of Envine, LLC. Said perpetual easement for access and utility purposes encumbers 3,835 square feet of area located on the northwest corner of lot 14.
- Recording in the South Kingstown Town Land Evidence of the "Revised Permit" from RIDEM, Freshwater Wetlands Program, permit # 05-0589, dated July 20, 2015.
- The proposed modification does not alter the approved location of the curb cut access to the development on Gravelly Hill Road at its intersection with Shannock Road. Further, this change does not modify, change, alter or relieve any required work by the developer in the public right of way under the SK Department of Public Services Physical Alteration Permit.

If questions exist regarding this communication please contact the Planning Department at 789-9331 x244.

Sincerely,

Vincent Murray
Vincent Murray
Planning Director/Administrative Officer

cc: Building Official
file

SCHEDULE VI TO EXHIBIT E

EXHIBIT 5

**TOWN OF SOUTH KINGSTOWN
PLANNING BOARD
PROJECT REVIEW APPLICATION FORM**

This Application Form is to be submitted with each stage of review.



APPLICANT INFORMATION

Applicant Name: Envine, LLC
Name of Primary Contact (if applicant is an organization): Mr. Lawrence C. LeBlanc
Applicant Address: P.O. Box 1299, Charlestown, Rhode Island 02813
Applicant Phone: 401-743-7203 Applicant Email: leblanc41@yahoo.com

OWNER INFORMATION

Owner Name(s): Same
Owner Contact Information: _____

PROJECT INFORMATION

Assessor's Plat and Lot of Parcel(s) Proposed for Subdivision/Development: AP 65, Lot 3
Physical Address or Location of Parcel(s): South Shore Village Blvd
Zoning District(s) of Parcel(s): R-40 Total Size of Development Parcel: 279+/- Acres
Date of Initial Meeting with Planning Department Staff (before first stage of review): _____

TYPE OF PROJECT (select all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Development Plan Review | <input type="checkbox"/> Minor Land Development Project |
| <input type="checkbox"/> Administrative Subdivision | <input checked="" type="checkbox"/> Major Land Development Project |
| <input type="checkbox"/> Minor Subdivision, without street creation or extension | <input type="checkbox"/> Multi-Household Land Development Project |
| <input type="checkbox"/> Minor Subdivision, with street creation or extension | <input type="checkbox"/> Flexible Design Residential Project (FDRP) |
| <input type="checkbox"/> Major Subdivision | <input type="checkbox"/> Residential Compound |
| | <input type="checkbox"/> Comprehensive Permit |

CURRENT STAGE OF REVIEW (if applicable):

- | | |
|---|---|
| <input type="checkbox"/> Pre-Application Concept Review | <input type="checkbox"/> Release of Performance/Maintenance Guarantee |
| <input type="checkbox"/> Conceptual Master Plan | <input type="checkbox"/> Change to an Approved Plan |
| <input type="checkbox"/> Preliminary Plan | <input type="checkbox"/> Reinstatement or Extension to Approved Plan |
| <input type="checkbox"/> Final Plan | <input type="checkbox"/> Request to Combine Review Stages |
| <input type="checkbox"/> Recording | <input type="checkbox"/> Other |

WAIVERS AND MODIFICATIONS

Does this application request waiver of or modification to any of the requirements of the Town of South Kingstown Subdivision and Land Development Regulations? yes* no

**If yes, a statement describing the specific regulation(s) for which waiver or modification is requested must be included in the application materials.*

CERTIFICATION OF COMPLETE APPLICATION

(1) The applicant hereby certifies that all of the materials required by the applicable checklist(s), as determined by Planning Department staff during the initial meeting, have been submitted including a review fee in the amount of \$ No Fee for DPR

(2) The applicant hereby certifies that the plan set and other submitted materials conform to the requirements of the current adopted version of the Town of South Kingstown Subdivision and Land Development Regulations, or, that a written statement has been provided listing all requested waivers and/or modifications of the Regulations.

 02/23/24
Applicant Signature Date

Envine, LLC
BY: Lawrence C. LeBlanc, Manager
Printed Name

EXHIBIT 6



TOWN OF SOUTH KINGSTOWN
ZONING BOARD OF REVIEW APPLICATION

1. APPLICANT INFORMATION:

Applicant Name: Envine, LLC Name of Primary Contact if Organization: Lawrence C. LeBlanc
Applicant Address: P.O. Box 1299, Charlestown, Rhode Island 02813
Applicant Phone: 401-743-7203 Applicant Email: leblanc41@yahoo.com

2. OWNER INFORMATION:

Owner Name: Same Owner Phone: _____
Owner Address: _____

3. PROJECT INFORMATION:

Physical Address South Shore Village Blvd Assessor's Plat: 65 Assessors' Lot: 3 Zoning District: R-40
Required Zoning Setbacks: Front yard 15 Rear Yard _____ Side Yard Right _____ Side Yard Left _____ Corner Side Yard _____

4. APPLICATION FOR:*

Special Use Permit Dimensional Variance _____ Use Variance _____ Dimensional Modification by Zoning Officer _____

5. LOT SPECIFICATIONS:

Lot Frontage: 200 ft. Lot Depth: 3,300+/- ft. Lot Area: 12,160,775 ft.

6. USE OF PREMISES:

Present Use: _____ # of families: 303 Proposed Use: _____ # of families: 303

7. EXISTING STRUCTURES:

Number of Existing Buildings or Structures Present: 303 2-BR Condominiums, Clubhouse, Community Center, Maintenance Bldgs, Cart Barn, and 9-Hole Golf Course
Size of Existing Structures: _____ sf; _____ sf; _____ sf; _____ sf 1400sf - 10,400sf

Distance from Property Lines of Existing Structures:

	Pro Shop Structure 1	Structure 2	Cart Barn Structure 3	Structure 4
Front Yard:	<u>1111</u> ft.;	_____ ft.;	<u>1144</u> ft. _____ ft.;	_____ ft.
Rear Yard:	<u>1277</u> ft.;	_____ ft.;	<u>1237</u> ft. _____ ft.;	_____ ft.
Side Yard Right:	<u>2408</u> ft.;	_____ ft.;	<u>2610</u> ft. _____ ft.;	_____ ft.
Side Yard Left:	<u>1162</u> ft.;	_____ ft.;	<u>979</u> ft. _____ ft.;	_____ ft.
Corner Side Yard:	_____ ft.;	_____ ft.;	_____ ft.;	_____ ft.

8. WATER AND SOLID WASTE

Water: Town Water Well _____ Other _____
Waste: Town Sewer _____ Septic Other _____

*Amendment of Condition #6 of Special Use Permit granted on March 30, 2007.

Cart Barn 2000 sf. 40 ft. x 50 ft.

9. SIZE OF PROPOSED BUILDINGS/ADDITIONS:

Pro Shop
Total Square Feet: 1389 sf. Width: 29 ft. Length: 65 ft.

Pro Shop
Height Above Grade: 25+/- ft. Number of Stories: 1

Cart Barn 18.3 ft. 1

10. IF DIMENSIONAL RELIEF IS SOUGHT INDICATE THE DISTANCE REQUESTED:

Front Yard: _____ ft. Rear: _____ ft. Side Yard Right: _____ ft.

Side Yard Left: _____ ft. Corner Side Yard: _____ ft. Height: _____ ft.

11. PROVISION OF THE ZONING ORDINANCE FROM WHICH RELIEF IS SOUGHT:

Section and Use (if known): _____

12. DESCRIBE THE EXTENT OF PROPOSED ALTERATIONS, STATE REASONS WHY YOU ARE REQUESTING RELIEF:

Modify a condition of March 30, 2007 Zoning Board of Review Special Use Permit recorded in Book L 1618 Page 604 for private use of a 9-hole golf course to permit general private and public play use of the 9-hole golf course. No alcohol proposed. The requested use is now a permitted use in the underlying (R-40) Zoning District.

ZONING BOARD OF REVIEW RULES OF PROCEDURE ITEM K: "Reports from expert witnesses should be submitted with the application or ten (10) days prior to the hearing to give the Zoning Board sufficient review time. If a report is submitted at the time of the hearing, the Chairman may rule on whether the Zoning Board will continue to another meeting to give the Zoning Board time to review the reports."

Preparation of this Application and all necessary documentation is the sole responsibility of the Applicant. Town Staff's help in preparations of any facet of this applications, including abutter's list is for assistance only. The staff cannot give the applicant advice on the merits of the application nor can they render legal opinions.

The undersigned declares that the information given herein is a true statement to the best of his/her knowledge and belief.

Applicant Signature(s) Lawrence C. LeBlanc, Manager

Applicant(s) Printed Name Envine, LLC by Lawrence C. LeBlanc, Manager Date: 02/23/24

Attorney / Other (If applicable) _____ Date: _____

Office Use Only

Received By: _____ Payment Amt. _____ Check # _____ Legal Notice Mailed: _____ Cert. Receipts Received: _____

South Kingstown Zoning Board of Review Application, Filing Instructions & Checklist

1. **Original** completed and signed application (plus 9 copies).
submitted: x
2. **Original** completed, signed, and notarized Owner / Authorized Agent Authorization Form (plus 9 copies).
submitted: x
3. Payment in full (cash or check only).
submitted: x
 - Residential \$175.00 / Commercial \$250.00 / Multi-family \$300.00 1st unit plus \$10.00 / add. Units
4. 200' Radius Map & Abutters List with Plat & Lot, street address, owner's name(s) & owner's mailing address
submitted: x

Obtained from South Kingstown's GIS & verified with the Tax Assessor for current ownership.
GIS link: <http://gis.southkingstownri.com/webgis/>
Prior to legal mailing, abutter's mailing address must be verified in the Tax Assessor's Office and Current Ownership must be verified with the Town Clerk's Office Land Evidence
5. Survey, to scale, prepared by a licensed professional land surveyor (10 copies, no larger than 11x17).
submitted: x
 - Stamped, dated, and signed by professional land surveyor ****only the surveyor of record can make alterations to an existing survey****
 - Showing name, address of property owner
 - Date, North arrow, scale, lot dimensions & area
 - Road(s) indicated and/or landmarks
 - Existing and proposed structures & the distance from lot lines
 - Existing and proposed parking area, driveways & walkways
 - Existing and proposed wells & septic systems
 - Existing and proposed landscaping, as it relates to the request (i.e., buffering)
 - Location of wetlands, coastal features, site conditions such as cemeteries or stone walls
6. Floor Plans & Elevations with dimensions of proposed structure to scale (10 copies, no larger than 11x17).
submitted: x
7. Any other relevant material to the proposed application (10 copies, no larger than 11x17).
submitted: x

Additional information that may be required:

- Recorded Development Plan Review Decision or advisory opinion from any Municipal Board if applicable. The applicant shall first obtain this approval, or the application will not be complete and cannot be processed. (10 copies)
- Soil Erosion Plan & Storm Water Plan with calculations in conformity with standards of USDA Soil Conservation Service and RI Erosion and Sediment Handbook (10 copies)
- Traffic Study addressing the potential impacts of proposed activity/use(s) (10 copies)
- Septic Systems needing to be located closer to a wetland under Sect. 504.1 will require an approved septic system plan from the OWTS Section of RI DEM and a recommendation from the South Kingstown Conservation Commission (10 copies)

The applicant or their representative must appear at the hearing to present the application before the Board. If the applicant is not present at the hearing a notarized designation of authority from the applicant must be provided.

Preparation of this Application and all necessary documentation is the sole responsibility of the Applicant. Town Staffs help in the preparation of any facet of this application, including abutter's list is for assistance only. The staff cannot give you advise on the merits of the application, nor can they render legal opinions.

***All Zoning Applications must meet the following Standards as applicable* Sec. 907. - Variances and special use permits.**

A. Standards for relief.

1. **Variance.** In granting a variance, the Board shall require that evidence satisfying the following standards be entered into the record of the proceedings:

- a. That the hardship from which the applicant seeks relief is due to the unique characteristics of the subject land or structure and not to the general characteristics of the surrounding area; and not due to a physical or economic disability of the applicant, except where necessary to provide reasonable accommodation to applicants with physical disabilities addressed in the Rhode Island Fair Housing Practices Act, the United States Fair Housing Amendments Act of 1988 (FHAA), the Rhode Island Civil Rights of Individuals with Handicaps Act, and the Americans with Disabilities Act of 1990 (ADA);
- b. That said hardship is not the result of any prior action of the applicant;
- c. That the granting of the requested variance will not alter the general characteristic of the surrounding area or impair the intent or purpose of this Zoning Ordinance or the Comprehensive Plan of the Town;
- d. In granting a use variance, the subject land or structure cannot yield any beneficial use if it is required to conform to the provisions of the Zoning Ordinance. Nonconforming use of neighboring land or structures in the same district and permitted use of land or structures in an adjacent district shall not be considered grounds for granting a use variance; and
- e. In granting a dimensional variance, that the hardship that will be suffered by the owner of the subject property if the dimensional variance is not granted shall amount to more than a mere inconvenience, meaning that relief sought is minimal to a reasonable enjoyment of the permitted use to which the property is proposed to be devoted. The fact that a use may be more profitable, or that a structure may be more valuable after the relief is granted, shall not be grounds for relief.

2. **Special use permit.** In granting a special use permit, the Board shall require that evidence to the satisfaction of the following standards to be entered into record of the proceedings:

- a. use is specifically authorized by this Ordinance, and setting forth the exact subsection of this Ordinance containing the jurisdictional authorization;
- b. That the special use meets all of the criteria set forth in the subsection of this Ordinance authorizing such special use; and
- c. That the granting of the special use permit will not alter the general character of the surrounding area or impair the intent or purpose of this Ordinance or the Comprehensive Plan of the Town. In so doing, the Board shall consider, whether or not satisfactory provisions and arrangements have been or will be made concerning, but not limited to the following matters, where applicable:
 - (i) Ingress and egress to the lot and to existing or proposed structures thereon with particular reference to automotive and pedestrian safety and convenience, traffic flow and control, and access in case of fire, emergency or catastrophe;
 - (ii) Off-street parking and loading areas where required, with particular attention to the items in subsection A.1., above, and the noise, glare or odor effects of the special use permit on adjoining lots;
 - (iii) Trash, storage and delivery areas with a particular reference to the items in (i) and (ii) above;
 - (iv) Utilities, with reference to locations, availability and compatibility;
 - (v) Screening and buffering with reference to type, dimensions and character;
 - (vi) Signs, if any, and exterior lighting with reference to glare, traffic safety, and compatibility and harmony with lots in the zoning district;
 - (vii) Required yards and other open space;
 - (viii) General compatibility with lots in the same or abutting zoning districts.

B. Special conditions. In granting a variance or special use permit, or in making any determination upon which it is required to pass after public hearing under this Ordinance, the Board may apply such special conditions that may, in the opinion of the Board, be required to promote the intent and purposes of the Comprehensive Plan of the Town and this Ordinance. Failure to abide by any special conditions attached to a grant shall constitute a zoning violation. Such special conditions shall be based on competent credible evidence on the record, be incorporated into the decision, and may include, but are not limited to, provisions for:

1. Minimizing adverse impact of the development upon other land, including the type, intensity, design, and performance of activities;
2. Minimizing adverse impact upon Town services and facilities;
3. Controlling the sequence of development, including when it must be commenced and completed;
4. Controlling the duration of use or development and the time within which any temporary structure must be removed;
5. Assuring satisfactory installation and maintenance of required public improvements;
6. Designating the exact location and nature of development;
7. Establishing detailed records by submission of drawings, maps, plats, or specifications;
8. Minimizing any adverse environmental impacts; and
9. Establishing hours of operation of the use.

EXHIBIT 7

OWNER AUTHORIZATION FORM

Submittal Date: _____

Owner Authorization Forms for each owner of the property being considered for subdivision/development is to be submitted with each stage of review. If no changes to the ownership have occurred since the last stage of review, a copy of the previously submitted Form may be submitted with an updated Submittal Date.

I, Lawrence C. LeBlanc, Manager of Envine, LLC hereby certify that I am an/the owner of property designated as Plat 65, Lot 3, as shown on the Town of South Kingstown Tax Assessor Maps. I further certify that I am the owner of the development rights for this property.

I hereby authorize and am in agreement with the application, signed by Lawrence C. LeBlanc, Manager of Envine, LLC (applicant), for subdivision or development for the subject property. Said application is to be submitted to the Planning Department of the Town of South Kingstown for review and decision by the Planning Board.

WITNESS his name this 23rd day of February, 2024.

BY: Lawrence C. LeBlanc, Manager
Signature of Owner

STATE OF RHODE ISLAND

County of Washington

In South Kingstown on the 23rd day of February, 2024, before me personally appeared Lawrence C. LeBlanc (name) to me known and known by me to the party executing the foregoing instrument and acknowledged said instrument, by him/~~her~~ executed, to be his/~~her~~ free act and deed, as Manager of Envine, LLC (individual, corporation, trustee, partnership, non-profit, etc.).

[Signature]
Notary Public

My Commission Expires: 09/15/2026



EXHIBIT 8

OWNER/AUTHORIZED AGENT AUTHORIZATION FORM

Submittal Date: _____

The Owner/Authorized Agent Authorization Form must be completed in full and returned to the Office of the Building and Zoning Official for the Town of South Kingstown along with the Zoning Board of Review Application. Failure to submit this form will delay your application being processed.

I, Lawrence C. LeBlanc, Manager of Envine, LLC hereby certify that I am the owner / authorized agent of the property designated as Plat 65, Lot 3, as shown on the Town of South Kingstown Tax Assessor Maps. I further certify that I am the owner / authorized agent of the developmental rights for this property.

I hereby authorize and am in agreement with the application signed by Lawrence C. LeBlanc, Manager of Envine, LLC (applicant), for the requested relief or use of the subject property. Said application is to be submitted to the Office of the Building and Zoning Official of the Town of South Kingstown for review and decision by the Zoning Board of Review. By signing this application, the Applicant(s) and Land Owner(s) give permission to the Town of South Kingstown staff and members of the Zoning Board to enter the property individually or as a group for purposes of a site inspection. Witness its name this 23rd day of February, 2024.

Envine, LLC

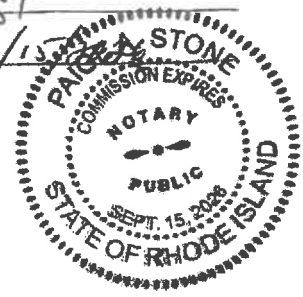
By: *Lawrence C. LeBlanc, Manager*
Signature of Owner/Authorized Agent

STATE OF RHODE ISLAND

County of WASHINGTON

In South Kingstown on the _____ day of February, 2024, before me personally appeared Lawrence C. LeBlanc, Manager of Envine, LLC (name) to me known and known by me to the party executing the foregoing instrument and acknowledged said instrument, by him/her executed to be his/her free act and deed, as Manager of Envine, LLC (Individual, corporation, trustee, partnership, non-profit, etc.)

Notary Public: *[Signature]*
My Commission Expires: 09/15/2028



Notary Seal:

EXHIBIT 9

PROJECT TEAM FORM

Submittal Date: _____

The Project Team Form is to be submitted with each stage of review. If no changes to the Project Team have occurred since the last stage of review, a copy of the previously submitted Form may be submitted with an updated Submittal Date.

ATTORNEY *This entity should be copied on all project correspondence* **YES** **NO**

Name: Blish & Cavanagh, LLP

Name of Primary Contact (if attorney is an organization): Mr. William R. Landry, Esq.

Address: Commerce Center, 30 Exchange Terrace, Providence, RI 02903-1765

Phone: (401) 831-8900 Email: wrl@blishcavlaw.com

ENGINEER *This entity should be copied on all project correspondence* **YES** **NO**

Name: DiPrete Engineering Associates, Inc.

Name of Primary Contact (if engineer is an organization): Mr. Chris A. Duhamel, P.E., P.L.S.

Address: Two Stafford Court, Cranston, RI 02920

Phone: (401) 943-1000 Email: cduhamel@diprete-eng.com

SURVEYOR *This entity should be copied on all project correspondence* **YES** **NO**

Name: DiPrete Engineering Associates, Inc.

Name of Primary Contact (if surveyor is an organization): Michael E. Gavitt, P.L.S.

Address: Two Stafford Court, Cranston, RI 02920

Phone: (401) 943-1000 Email: mgavitt@diprete-eng.com

LANDSCAPE ARCHITECT *This entity should be copied on all project correspondence* **YES** **NO**

Name: DiPrete Engineering Associates, Inc.

Name of Primary Contact (if landscape architect is an organization): Alexandra C. Avery, L.A.

Address: Two Stafford Court, Cranston, RI 02920

Phone: (401) 943-1000 Email: aavery@diprete-eng.com

ARCHITECT *This entity should be copied on all project correspondence* **YES** **NO**

Name: Frank Karpowicz Architects Inc.

Name of Primary Contact (if architect is an organization): Mr. Frank Karpowicz

Address: 26 South County Commons Way, Unit 5, Wakefield, RI 02879

Phone: (401) 782-4604 Email: www.fkarchitects.com

OTHER *This entity should be copied on all project correspondence* **YES** **NO**

Name: _____

Role on Project: _____

Name of Primary Contact (if entity is an organization): _____

Address: _____

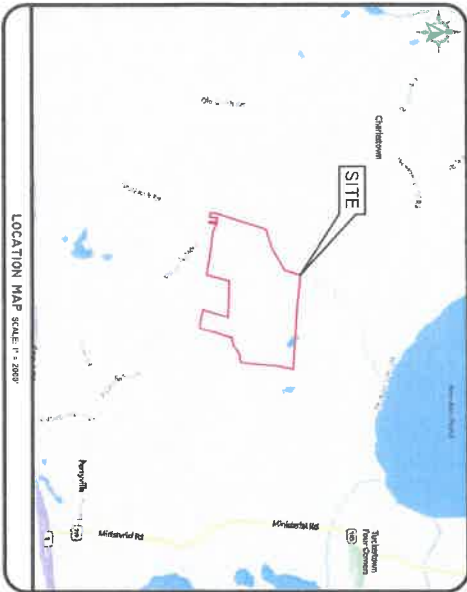
Phone: _____ Email: _____

EXHIBIT 10

DEVELOPMENT PLAN REVIEW

PROPOSED PUBLIC GOLF COURSE

LOCATED ON SOUTH SHORE VILLAGE BOULEVARD
 SOUTH KINGSTOWN, RHODE ISLAND
 ASSESSOR'S PLAT 65 LOT 3



SHEET LIST TABLE

- 1 COVER SHEET
- 2 AERIAL HALF-MILE RADIUS & USGS MAP
- 3 OVERALL PLAN
- 4 EXISTING ANALYSIS PLAN
- 5 SOIL EROSION & SEDIMENT CONTROL PLAN
- 6 SITE LAYOUT PLAN
- 7 DETAIL SHEET
- 8 LANDSCAPE PLAN

OTHER PLANS

- 1 OF 2 BOUNDARY SURVEY PLAN
- 2 OF 2 BOUNDARY SURVEY PLAN
- 1 OF 1 FIRE TRUCK TURN & HYDRANT EXHIBIT

Cover Sheet
 PROPOSED PUBLIC GOLF COURSE
 SOUTH SHORE VILLAGE
 ASSESSOR'S PLAT 65, LOT 3
 SOUTH KINGSTOWN, RHODE ISLAND
 PREPARED FOR:
 ENWINE, LLC
 437 WEST BEACH ROAD
 CHARLESTOWN, RHODE ISLAND 02883, TEL (401) 743-7263

NO.	DATE	DESCRIPTION	BY

DRAWN BY: J.A.R. DESIGN BY: C.A.D.

THIS PLAN SHEET MAY BE USED FOR CONSTRUCTION PURPOSES UNLESS IT APPEARS THEREON FOR CONSTRUCTION AND IS SIGNED BY A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT.
 OWNER'S ENGINEERING OR CONSULTING FIRM HAS A LIMITED LIABILITY. THE TITLE BLOCK IS LIMITED BY REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT'S SIGNATURE AND SEAL.
 THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE WORK PERFORMED IN THE FIELD AND IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS AND FOR OBTAINING ALL NECESSARY CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.
 EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS AND FOR OBTAINING ALL NECESSARY CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.



DiPrete Engineering

Two Stafford Court, Cranston, RI 02920
 Tel: 401-943-0000 Fax: 401-943-0000 www.diprete-eng.com

Boston • Providence • Newport

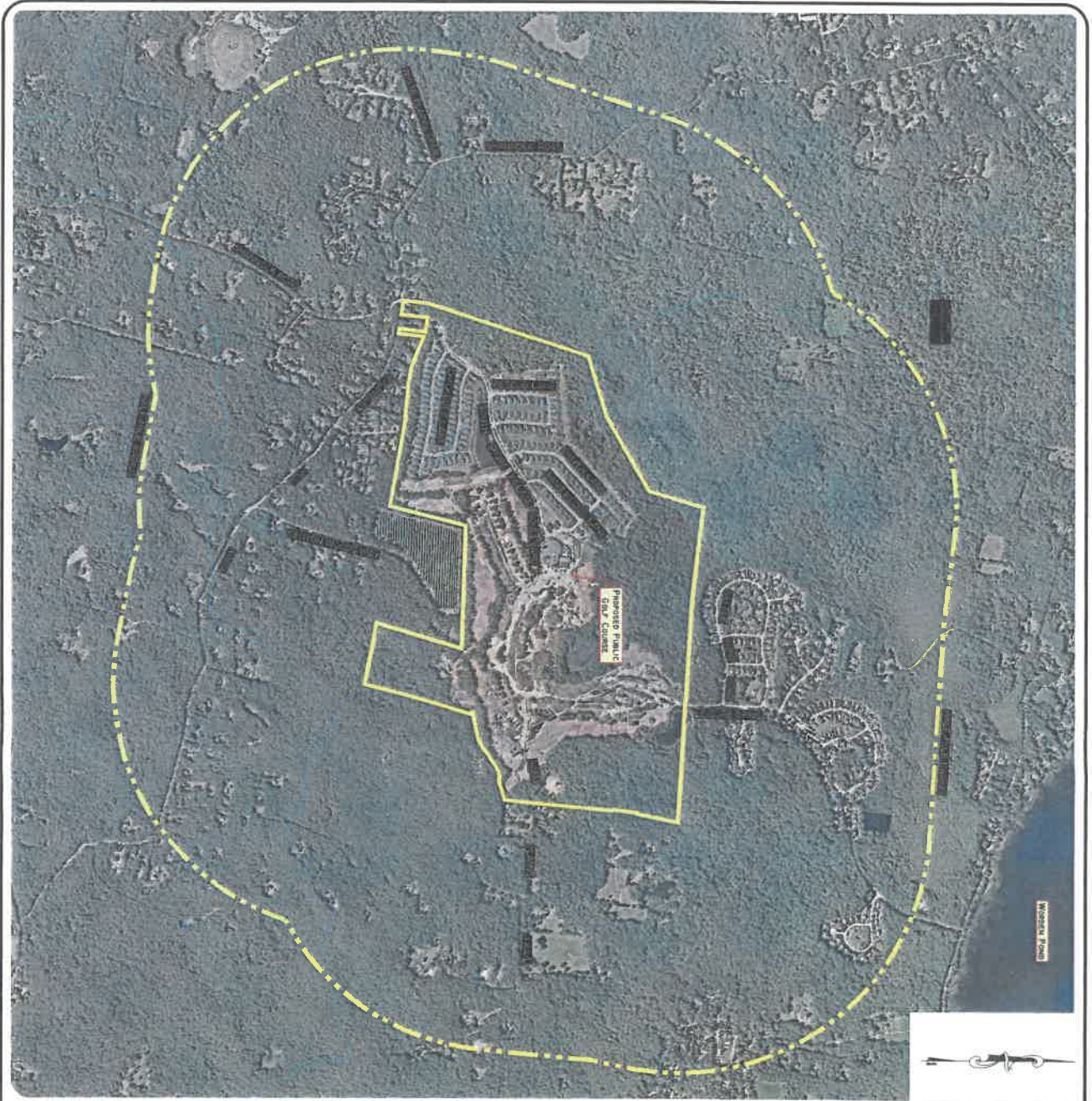
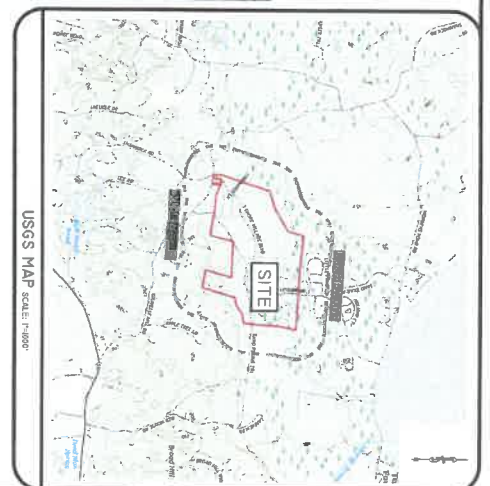


PHOTO OBTAINED FROM AERIALMAP.
 DATE OF PHOTOGRAPHY 09-22-2022.
 SCALE: 1" = 1000'
 0 200' 400'



Aerial Half-Mile Radius & USGS Map
PROPOSED PUBLIC GOLF COURSE
SOUTH SHORE VILLAGE
 ASSESSOR'S PLAT 69, LOT 3
 SOUTH KINGSTOWN, RHODE ISLAND
 PREPARED FOR:
ENVI, LLC
 457 WEST BEACH ROAD
 CHARLESTOWN, RHODE ISLAND 02813, TEL. 660 743-7205

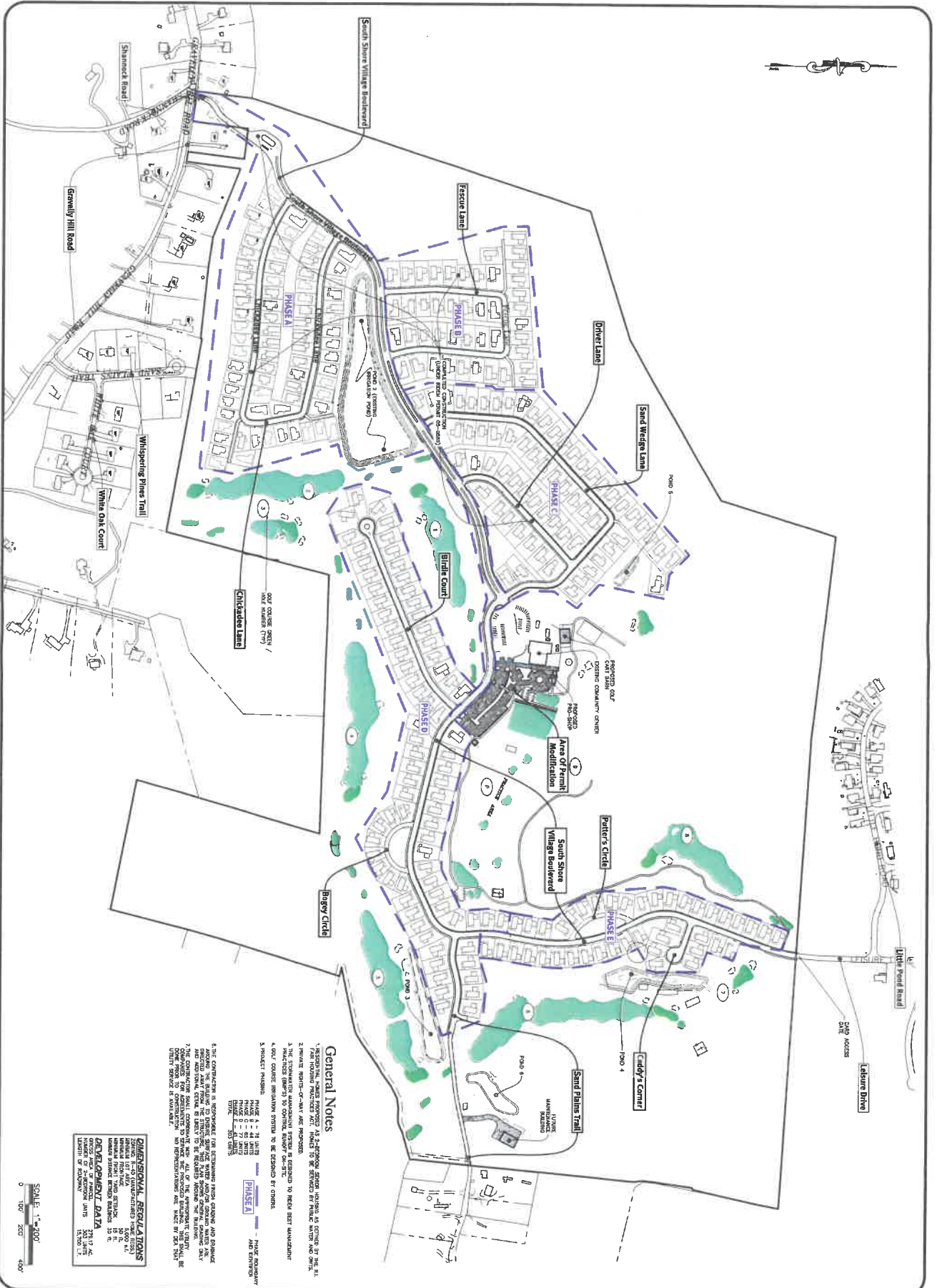
NO.	DATE	DESCRIPTION	BY:
1	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
2	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
3	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
4	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
5	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
6	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
7	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
8	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
9	01/06/2023	ISSUED FOR PERMITTING	C.A.D.
10	01/06/2023	ISSUED FOR PERMITTING	C.A.D.

DESIGNED BY: C.A.D.
 DRAWN BY: J.A.R.



DiPrete Engineering
 Two Stafford Court, Cranston, RI 02926
 Tel: 401-943-1000 Fax: 401-464-6066 www.diprete-eng.com
 Boston • Providence • Newport

THIS PLAN SET MAY NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS FIRST REVIEWED AND APPROVED BY THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL FEES RECEIVED FOR THE SERVICES PROVIDED. THE ENGINEER DOES NOT WARRANT THAT THE INFORMATION PROVIDED IN THIS PLAN SET IS COMPLETE, ACCURATE, OR UP-TO-DATE. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE FIELD SURVEY, SAFETY, INSPECTIONS AND MEASUREMENTS, AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE CONSTRUCTION OF THIS PLAN SET.



General Notes

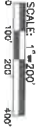
1. ASSessor's PLAT proposed AS 2-1/2 ACRE SOUTH SHORE VILLAGE, AS CENTER OF THE PL. FOR THE PURPOSES OF THE ACT. NOTES TO BE SET FORTH BY PLANS AND SPEC.
2. PLANS SHALL BE IN ACCORDANCE WITH THE ACT AND THE REGULATIONS THEREUNDER.
3. PLANS SHALL BE IN ACCORDANCE WITH THE ACT AND THE REGULATIONS THEREUNDER.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ACT AND THE REGULATIONS THEREUNDER.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE STATE AND LOCAL AGENCIES AND FOR OBTAINING NECESSARY EASEMENTS AND RIGHTS OF WAY FROM THE LANDOWNER AND NEIGHBORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE STATE AND LOCAL AGENCIES AND FOR OBTAINING NECESSARY EASEMENTS AND RIGHTS OF WAY FROM THE LANDOWNER AND NEIGHBORS.

DIMENSIONAL REGULATIONS

MINIMUM LOT AREA	5000 S.F.
MINIMUM LOT WIDTH	15 FT.
MINIMUM FRONT YARD SETBACK	15 FT.
MINIMUM SIDE YARD SETBACK	5 FT.
MINIMUM REAR YARD SETBACK	5 FT.
MINIMUM FRONT SETBACK	5 FT.
MINIMUM SIDE SETBACK	5 FT.
MINIMUM REAR SETBACK	5 FT.
MINIMUM FRONT SETBACK	5 FT.
MINIMUM SIDE SETBACK	5 FT.
MINIMUM REAR SETBACK	5 FT.

DEVELOPMENT DATA

DATE OF PLAN	1/8/07
DATE OF REVISION	1/8/07
DATE OF REVISION	1/8/07
DATE OF REVISION	1/8/07



Overall Plan
PROPOSED PUBLIC GOLF COURSE
SOUTH SHORE VILLAGE
 ASSESSOR'S PLAT 05, LOT 3
 SOUTH KINGSTOWN, RHODE ISLAND

PREPARED FOR:
ENVINE, LLC
 497 WEST BEACH ROAD
 CHARLESTON, RHODE ISLAND 02815, TEL. (401) 743-7265

DATE: 1/8/07
 SHEET: 3 OF 8

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE STATE OF RHODE ISLAND AND THE LOCAL AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE STATE AND LOCAL AGENCIES AND FOR OBTAINING NECESSARY EASEMENTS AND RIGHTS OF WAY FROM THE LANDOWNER AND NEIGHBORS.

DESIGNED BY: J.A.R.
 DRAWN BY: J.A.R.
 CHECKED BY: J.A.R.
 DATE: 1/8/07

DiPrete Engineering

Two Stafford Court, Cranston, RI 02909
 Tel: 401-943-9900 Fax: 401-943-6060 www.diprete-eng.com

Boston • Providence • Newport

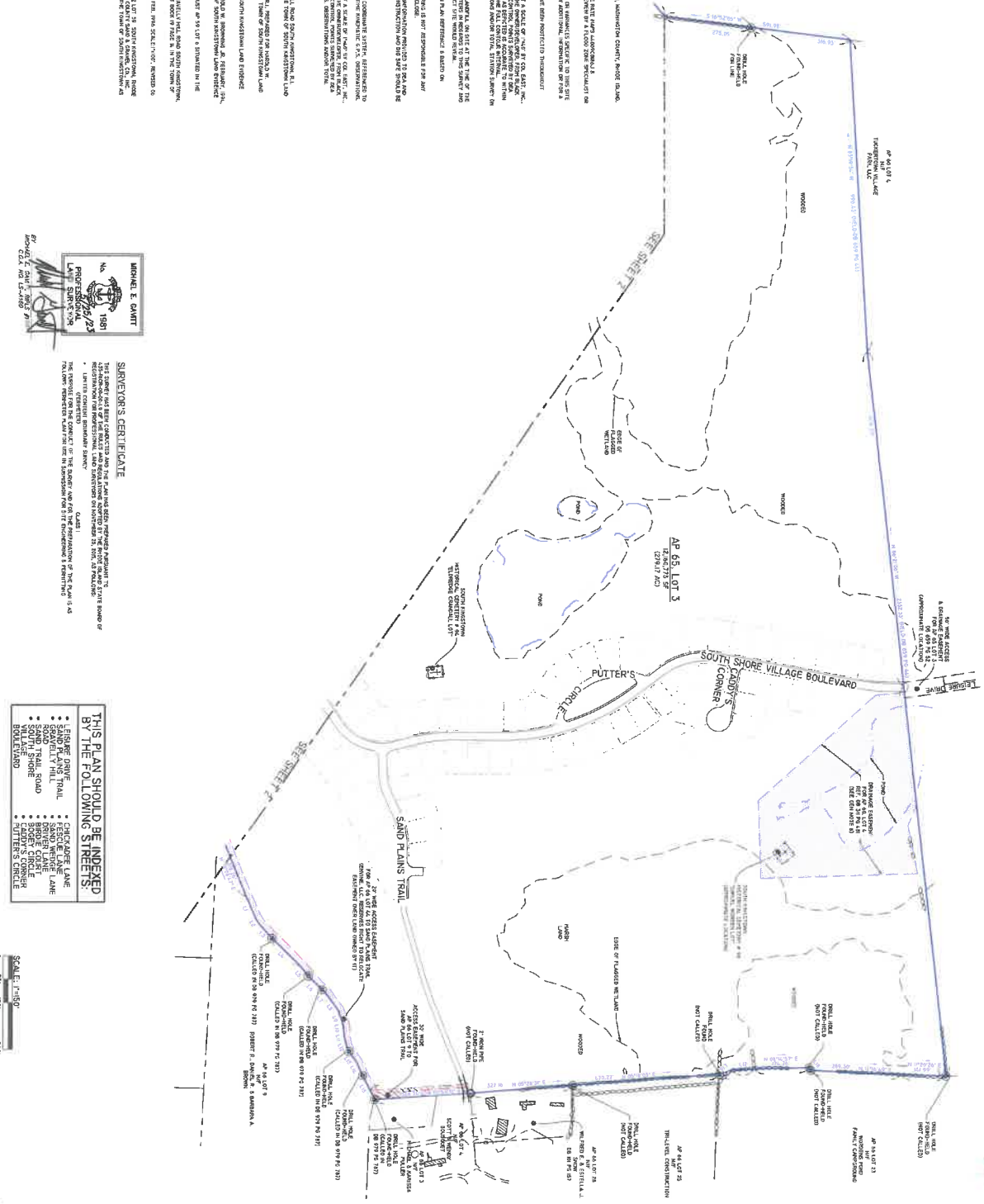
LINE	LENGTH	BEARING
1	13.49'	S 89°15'51"W
2	13.49'	S 89°15'51"W
3	13.49'	S 89°15'51"W
4	13.49'	S 89°15'51"W
5	13.49'	S 89°15'51"W
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97	13.49'	S 89°15'51"W
98	13.49'	S 89°15'51"W
99	13.49'	S 89°15'51"W
100	13.49'	S 89°15'51"W

GENERAL NOTES

- The sheets are based on a map of the Town of South Shore, Massachusetts, showing the County, Range, Block, and other information.
- This site is located in the Town of South Shore, Massachusetts, and is bounded by the following streets: South Shore Village Boulevard, Putters Corner, and Sand Plains Trail.
- The map is based on a survey conducted by the Surveyor General of the Commonwealth of Massachusetts, and is subject to the provisions of the Massachusetts Surveying Act of 1907, as amended.
- The map is based on a survey conducted by the Surveyor General of the Commonwealth of Massachusetts, and is subject to the provisions of the Massachusetts Surveying Act of 1907, as amended.
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- The map is based on a survey conducted by the Surveyor General of the Commonwealth of Massachusetts, and is subject to the provisions of the Massachusetts Surveying Act of 1907, as amended.

FINAL REFERENCES

1. "Final Reference Map of the Town of South Shore, Massachusetts, showing the County, Range, Block, and other information." Surveyed and recorded by the Surveyor General of the Commonwealth of Massachusetts, 1907.
2. "Final Reference Map of the Town of South Shore, Massachusetts, showing the County, Range, Block, and other information." Surveyed and recorded by the Surveyor General of the Commonwealth of Massachusetts, 1907.
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9. "Final Reference Map of the Town of South Shore, Massachusetts, showing the County, Range, Block, and other information." Surveyed and recorded by the Surveyor General of the Commonwealth of Massachusetts, 1907.
10. "Final Reference Map of the Town of South Shore, Massachusetts, showing the County, Range, Block, and other information." Surveyed and recorded by the Surveyor General of the Commonwealth of Massachusetts, 1907.



SURVEYOR'S CERTIFICATE

I, the undersigned, being a duly Licensed Professional Land Surveyor in the State of Massachusetts, do hereby certify that the foregoing is a true and correct copy of the original field notes and computations of the above described survey, as the same were taken and reduced to writing by me, or under my direct supervision, and that the same are in accordance with the provisions of the Massachusetts Surveying Act of 1907, as amended.

Given at South Shore, Massachusetts, this 1st day of September, 2010.

Michael E. Cantit
Registered Professional Land Surveyor
No. 225

THIS PLAN SHOULD BE INDEXED BY THE FOLLOWING STREETS:

- SAND PLAINS TRAIL
- SAND PLAINS ROAD
- SAND PLAINS DRIVE
- SAND PLAINS LANE
- SAND PLAINS AVENUE
- SAND PLAINS BOULEVARD
- SAND PLAINS PLACE
- SAND PLAINS COURT
- SAND PLAINS TERRACE
- SAND PLAINS DRIVE
- SAND PLAINS LANE
- SAND PLAINS AVENUE
- SAND PLAINS BOULEVARD
- SAND PLAINS PLACE
- SAND PLAINS COURT
- SAND PLAINS TERRACE

SCALE: 1"=50'

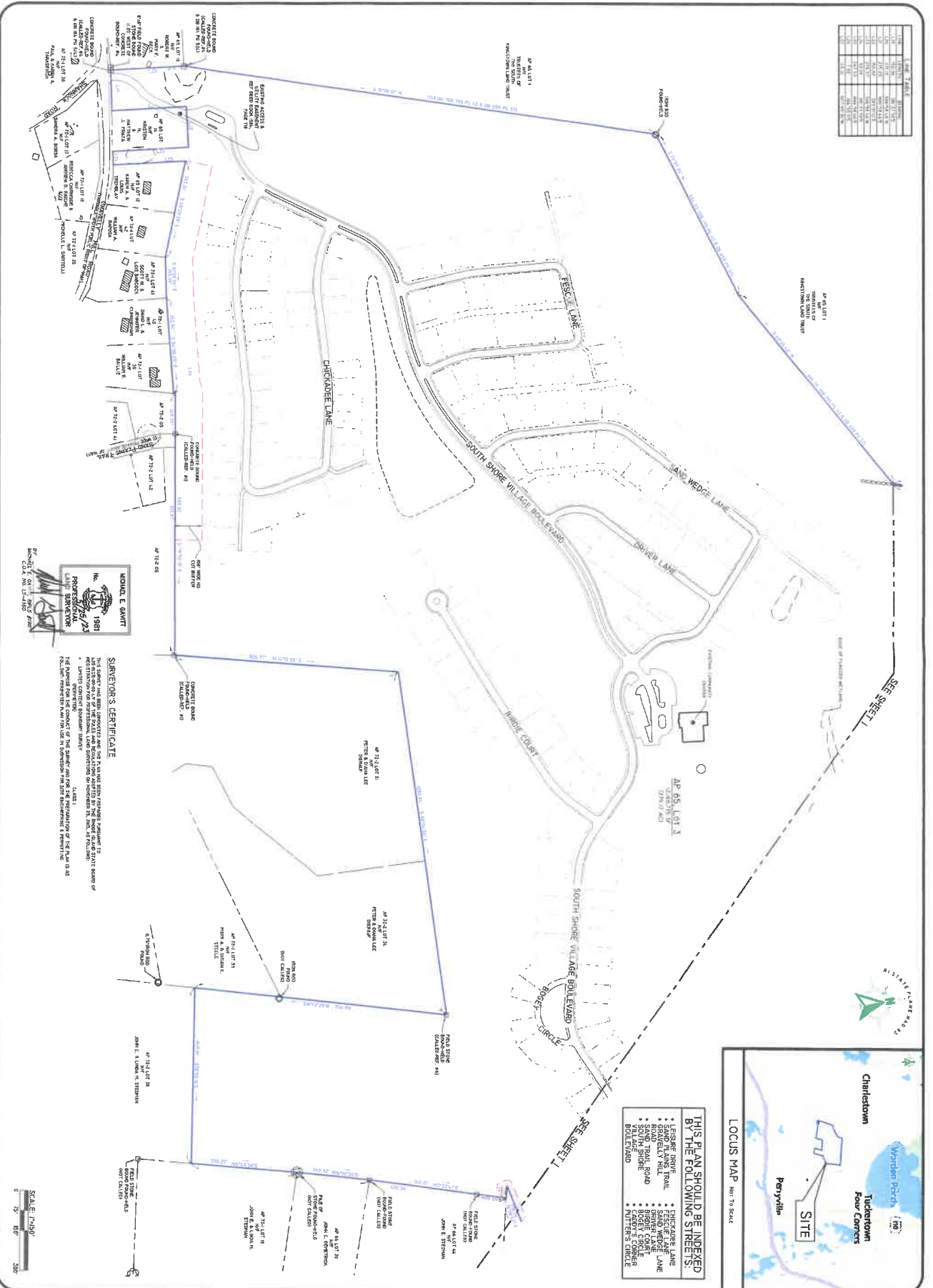
0' 25' 50'

BOUNDARY SURVEY PLAN
SOUTH SHORE VILLAGE
 ADDRESS: 100 SOUTH SHORE VILLAGE
 SOUTH SHORE, MASSACHUSETTS
 PREPARED FOR:
ENVI, LLC
 100 SOUTH SHORE VILLAGE
 SOUTH SHORE, MASSACHUSETTS
 DATE: 09/01/2010

DiPrete Engineering
 Two Stafford Court, Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

LINE #	START	END	LENGTH	AREA
1	1	2	100.00	100.00
2	2	3	150.00	225.00
3	3	4	200.00	400.00
4	4	5	250.00	625.00
5	5	6	300.00	900.00
6	6	7	350.00	1225.00
7	7	8	400.00	1600.00
8	8	9	450.00	2025.00
9	9	10	500.00	2500.00
10	10	11	550.00	3025.00
11	11	12	600.00	3600.00
12	12	13	650.00	4225.00
13	13	14	700.00	4900.00
14	14	15	750.00	5625.00
15	15	16	800.00	6400.00
16	16	17	850.00	7225.00
17	17	18	900.00	8100.00
18	18	19	950.00	9025.00
19	19	20	1000.00	10000.00

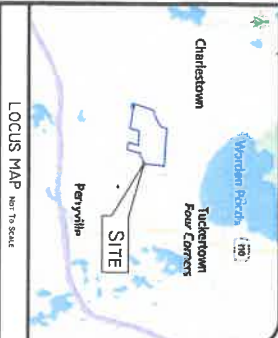


NO. 1981
PROFESSIONAL
LAND SURVEYOR
INDIAN & GANT

SURVEYOR'S CERTIFICATE
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAT HAS BEEN PREPARED IN COMPLIANCE WITH THE PROVISIONS OF CHAPTER 183A OF THE MASSACHUSETTS GENERAL LAWS, AS AMENDED, AND THE REGULATIONS OF THE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS OF THE COMMONWEALTH OF MASSACHUSETTS, AS AMENDED, AND THE RULES AND REGULATIONS OF THE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS OF THE COMMONWEALTH OF MASSACHUSETTS, AS AMENDED, AND THE RULES AND REGULATIONS OF THE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS OF THE COMMONWEALTH OF MASSACHUSETTS, AS AMENDED.

THIS PLAN SHOULD BE INDEXED BY THE FOLLOWING STREETS:

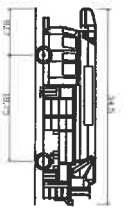
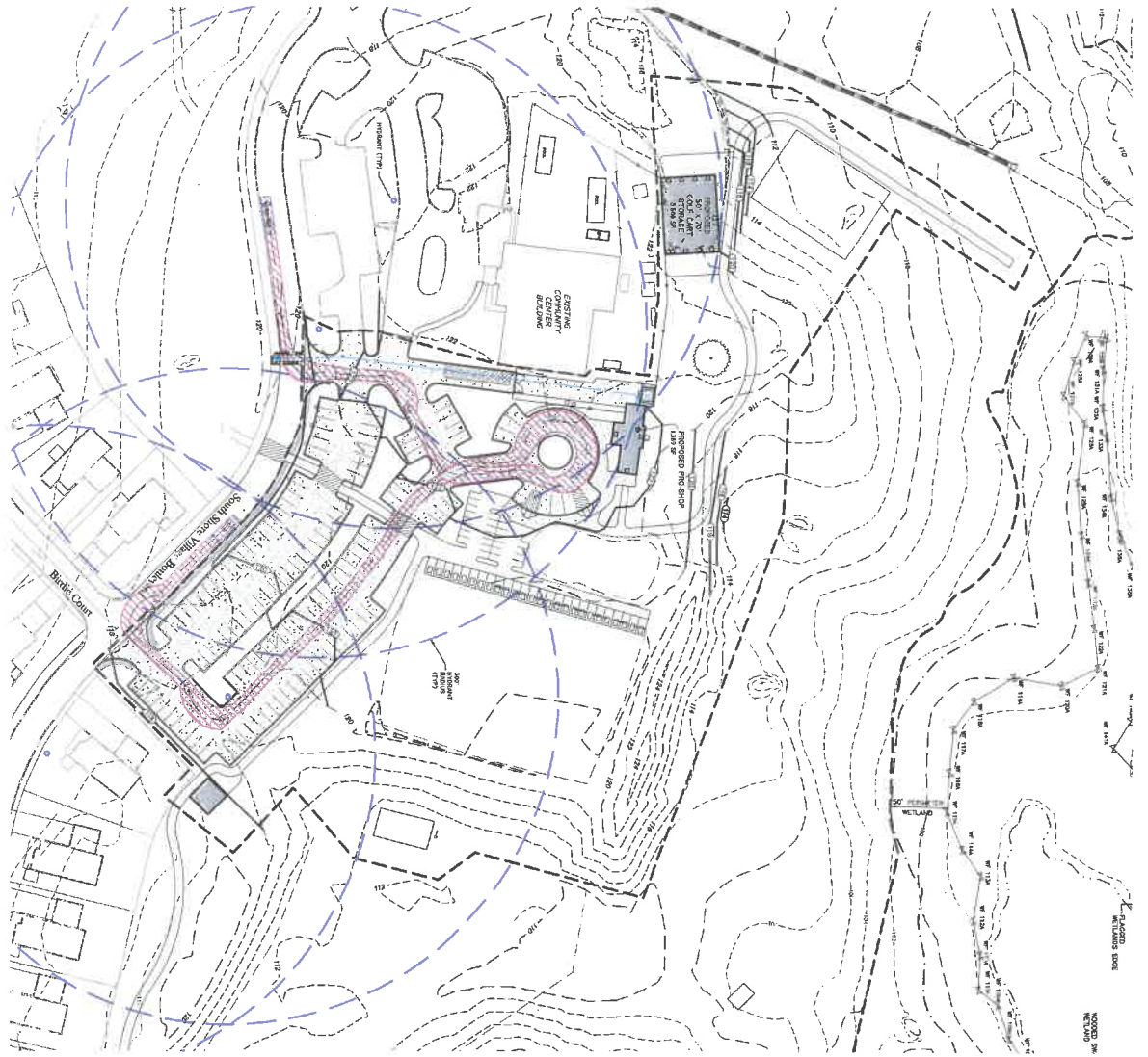
- LESLIE DRIVE
- GRADLEY HILL
- SAND WEDGE LANE
- BRIDGE COURT
- PITTERS CORNER
- PUTTERS'S CORNER
- PUTTERS'S CIRCLE
- BOLLIVAND



BOUNDARY SURVEY PLAN
SOUTH SHORE VILLAGE
 ASSESSOR'S PLAT 66 LOT 3
 SOUTH BOSTON, WINDSOR ISLAND
 PREPARED FOR:
ENVINE, LLC
 746 NEW LANE CHARLESTOWN, MASSACHUSETTS 02129
 617-552-2700

NO.	DATE	DESCRIPTION	BY
1	12/11/12	PRELIMINARY SURVEY	INDIAN & GANT
2	12/11/12	FINAL SURVEY	INDIAN & GANT

DiPrete Engineering
 Two Stafford Court, Cranston, RI 02920
 684-691-943-1000 Fax 684-654-6036 www.diprete-eng.com
 Boston • Providence • Newport



South Kingstown Ladder R1
 Overall Length 187 1/2"
 Overall Body Height 102 1/2"
 Min Body Ground Clearance 6 1/2"
 Lock-to-Lock Time 37.830F+
 Walk-to-Walk Turning Radius 37.830F+

37.830F+
 102 1/2"
 187 1/2"

SCALE: 1" = 50'
 0 25' 50' 100'

Fire Truck Turn & Hydrant Exhibit
PROPOSED PUBLIC GOLF COURSE
SOUTH SHORE VILLAGE
 ASSessor'S PLAT 65, LOT 3
 SOUTH KINGSTOWN, RHODE ISLAND
 PREPARED FOR
ENVI, LLC
 697 WEST BEACH ROAD
 CHARLESTOWN, RHODE ISLAND 02815 TEL (401) 743-7203
18 08 000 0017-001-0000 CONTACT FOR ALL PROJECTS

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT HAS BEEN REVIEWED AND APPROVED BY A REGISTERED PROFESSIONAL ENGINEER OF RHODE ISLAND.

DESIGNER AND ENGINEER SHALL BE RESPONSIBLE FOR ALL AS-BUILT CONDITIONS. THIS PLAN SET IS PROVIDED AS-IS, AND THE USER ASSUMES ALL LIABILITY FOR ANY AND ALL CONSEQUENCES ARISING FROM THE USE OF THIS PLAN SET.

NO.	DATE	DESCRIPTION	BY

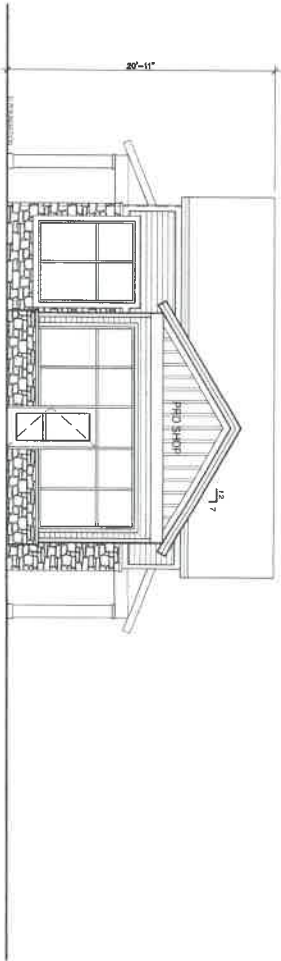
DRAWN BY: J.A.B. DESIGN BY: C.A.B.

DIPrete Engineering
 Two Stafford Court Cranston, RI 02929
 TEL 401-949-1000 FAX 401-464-6066 WWW.DIPRETE-ENG.COM
 Boston • Providence • Newport

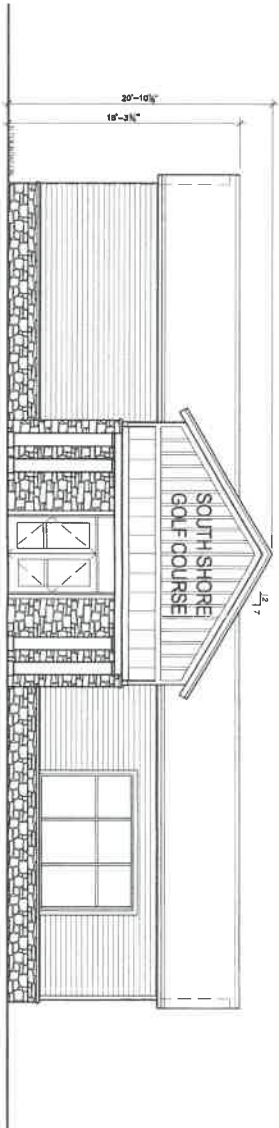
EXHIBIT 11



FRANK KALINOWICZ ARCHITECTS INC.
 26 South County Commons Way, Unit A5
 South Kingstown, RI 02881
 401 783-4804
 401 783-1354 fax



B EAST ELEVATION PD4
 1/8" = 1'-0"

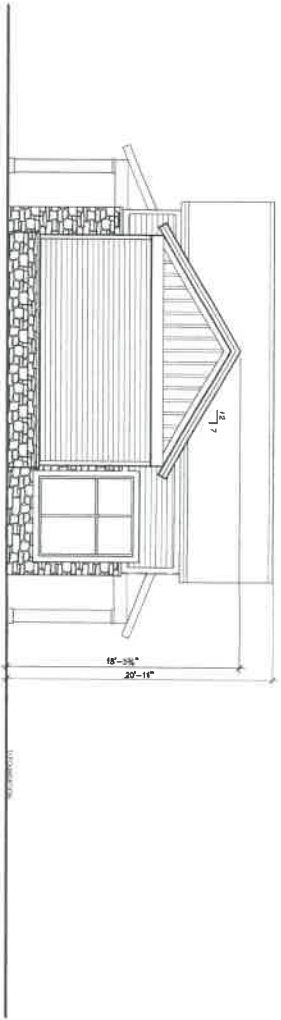


A SOUTH ELEVATION PD4
 1/8" = 1'-0"

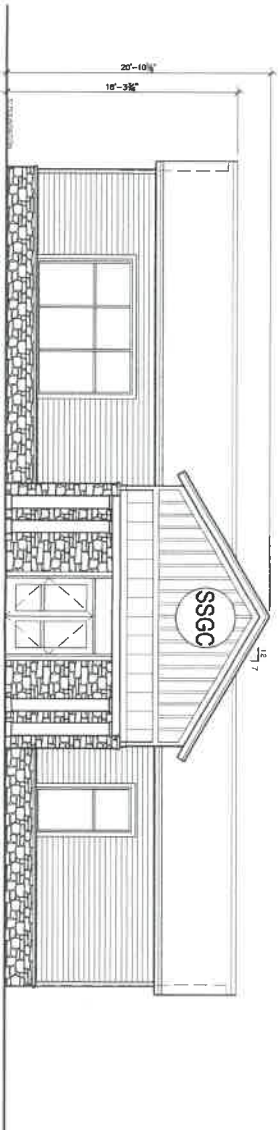
No.	Issue	Date
SOUTH SHORE VILLAGE GOLF COURSE		
SOUTH KINGSTOWN, RI		
PRO SHOP ELEVATIONS		
Project No.	2718	
Drawn By:	EMW	
Date:	JUNE 6, 2023	
A2		



FRANK KAMPWICZ ARCHITECTS INC.
 26 South County Common Way, Unit A5
 Westfield, RI 02879
 401.762.4944
 401.762.4945 fax

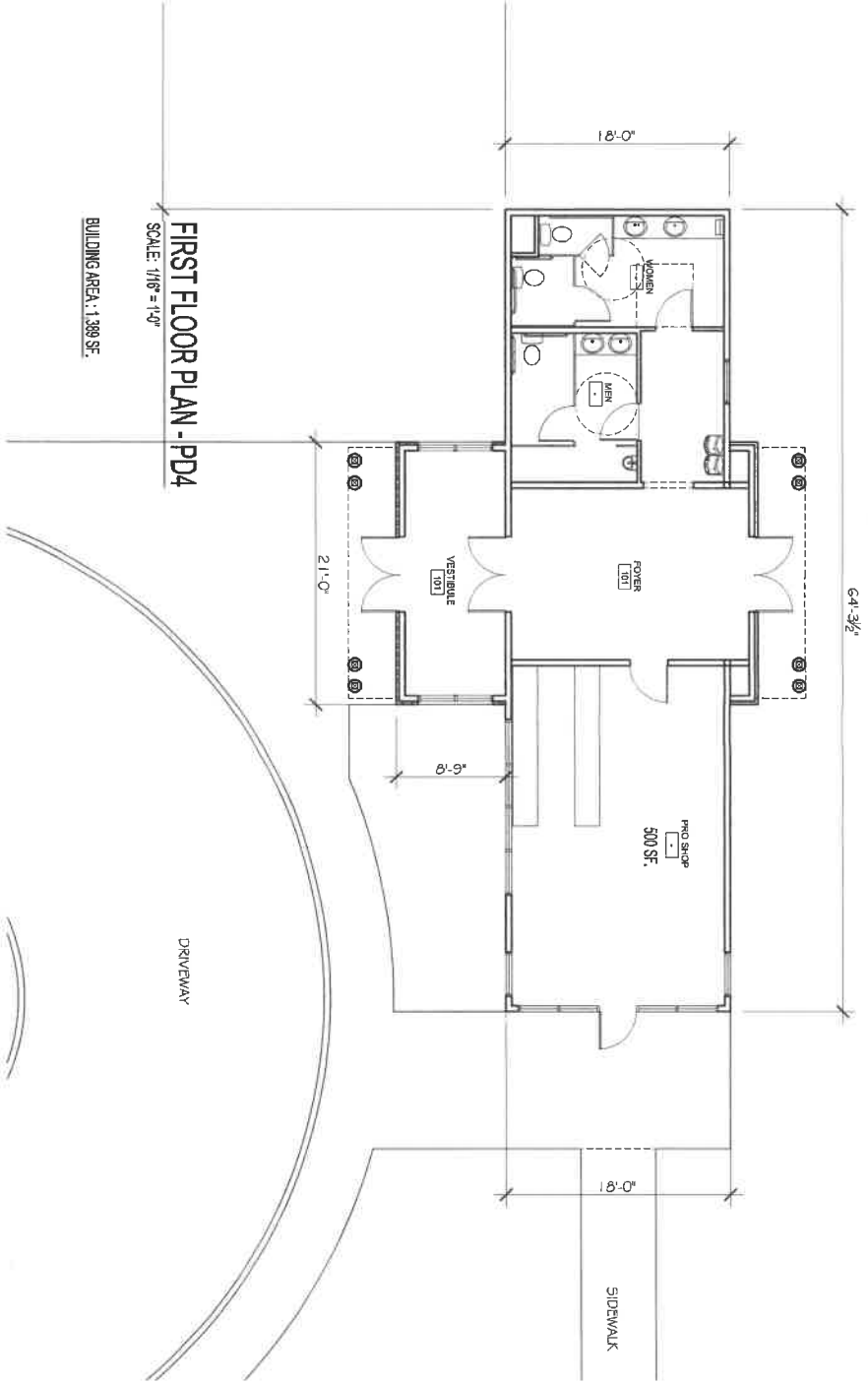


D WEST ELEVATION PD4
 1/8" = 1'-0"



C NORTH ELEVATION PD4
 1/8" = 1'-0"

No.	Issue	Date
SOUTH SHORE VILLAGE GOLF COURSE SOUTH KINGSTOWN, RI PRO SHOP ELEVATIONS		
Project No.	22108	
Drawn By:	EMW	
Check:	JUNE 8, 2023	
A3		



FIRST FLOOR PLAN - PD4

SCALE: 1/16" = 1'-0"

BUILDING AREA: 1,399 SF.

DRIVENWAY

SIDEWALK

18'-0"

PRO SHOP
500 SF.

FOYER

VESTIBULE
101

WOMEN

MEN

18'-0"

64'-3/8"

21'-0"



8'-9"

EXHIBIT 12

Soil Map—State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties
(0877-904-South Shores Village-South Kingston)



MAP LEGEND

	Area of Interest (AOI)		Spoil Area
	Area of Interest (AOI)		Stony Spot
	Soils		Very Stony Spot
	Soil Map Unit Polygons		Wet Spot
	Soil Map Unit Lines		Other
	Soil Map Unit Points		Special Line Features
	Special Point Features		Water Features
	Blowout		Streams and Canals
	Borrow Pit		Transportation
	Clay Spot		Rails
	Closed Depression		Interstate Highways
	Gravel Pit		US Routes
	Gravelly Spot		Major Roads
	Landfill		Local Roads
	Lava Flow		Background
	Marsh or swamp		Aerial Photography
	Mine or Quarry		
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Survey Area Data: Version 22, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 14, 2022—Jul 1, 2022

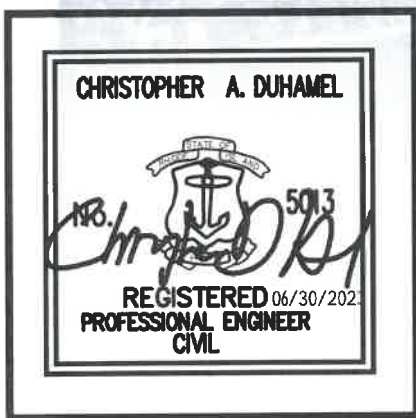
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Du	Dumps	7.5	2.4%
GhC	Gloucester-Hinckley complex, 3 to 15 percent slopes, very stony	0.8	0.2%
GhD	Gloucester-Hinckley complex, 15 to 35 percent slopes, very stony	5.9	1.9%
HkA	Hinckley loamy sand, 0 to 3 percent slopes	67.8	21.6%
HkC	Hinckley loamy sand, 8 to 15 percent slopes	97.7	31.1%
HkD	Hinckley loamy sand, 15 to 25 percent slopes	2.8	0.9%
MmA *Prime Farmland	Merrimac fine sandy loam, 0 to 3 percent slopes	13.9	4.4%
Sb	Scarboro mucky fine sandy loam, 0 to 3 percent slopes	0.2	0.1%
Ss	Sudbury sandy loam	7.9	2.5%
SwA	Swansea muck, 0 to 1 percent slopes	15.0	4.8%
W	Water	3.0	1.0%
Wa	Walpole sandy loam, 0 to 3 percent slopes	16.1	5.1%
WgA	Windsor loamy sand, 0 to 3 percent slopes	75.6	24.1%
Totals for Area of Interest		314.0	100.0%

EXHIBIT 13

Stormwater Management Report



South Shore Village Permit Modification

Located in South Kingstown, RI

Applicant: Envine, LLC

06/29/2023

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2.3 Post Site Conditions	1
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3.2 Standard 2: Groundwater Recharge	2
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Executive Summary

On behalf of the Client, we are submitting drainage calculations for the proposed permit modification at South Shore Village. The site is located on Assessors' Plat 65 Lot 3 in South Kingstown. The development was previously permitted under RIDEM Permit Number 05-0589 and is currently permitted under RIDEM Permit Number 21-0063 and is currently under construction. Prior to construction activities the site existed as a wooded area with gravel paths throughout, with the remains of a small gravel pit operation. The area in question is currently approved as a car parking area and a golf cart parking area. This permit modification is to propose a reduction of golf cart parking, increased car parking, and the addition of three new buildings: a driving range maintenance garage, a pro shop, and golf cart storage.

The modified post development stormwater will be treated for water quality using Best Management Practices (BMPs). The Site has been designed to meet the Rhode Island Stormwater Design and Installation Standards Manual (RISDISM).

To mitigate post development flows on site, runoff from each building will be completely infiltrated by underground Stormtech system. The car parking area is proposed as pervious pavement and will also completely infiltrate the 100-year storm.

This report details how the area submitted under this permit modification will show no net increase in stormwater runoff from pre development conditions and the previously approved post development conditions, and how the proposed BMPs will provide water quality treatment for stormwater runoff.

1.0 Project Description

The purpose of this report is to specify a modified Stormwater Management that was previously approved under RIDEM Permit Number 21-0063 at South Shore Village. The area in question is currently approved as a car parking area and a golf cart parking area. This permit modification is to propose a reduction of golf cart parking, increased car parking, and the addition of three new buildings: a driving range maintenance garage, a pro shop, and golf cart storage.

The stormwater quality will be improved by utilizing Best Management Practices (BMPs) as established by the RISDISM for the treatment of stormwater runoff from the proposed development. BMPs will consist of underground Stormtech systems and pervious pavement. The system has been designed to meet the RIDEM Stormwater Design and Installations Standards Manual.

2.0 Site Conditions

2.1 SOILS

See the South Shore Village Re-Permitting Stormwater Report prepared by DiPrete Engineering on 07/27/2022 for a summary of the soils onsite.

2.2 EXISTING SITE CONDITIONS

See the South Shore Village Re-Permitting Stormwater Report prepared by DiPrete Engineering on 07/27/2022 for a summary of the soils onsite.

2.3 POST SITE CONDITIONS

The proposed drainage analysis uses stormwater management systems to control and treat runoff from the proposed development. The following BMP's are used on site and have been designed to include the following elements:

- Underground Infiltration System
 - Receives roof runoff only so pre-treatment is not necessary.
 - Fully infiltrates the WQ storm event.
 - Fully infiltrates the 100-year storm event.
- Pervious pavement
 - Provides water quality treatment
 - 12" filtering sand layer
 - 4" stone reservoir
 - Fully infiltrates the 100 year storm event.
 - Emergency catch basins receive stormwater in case of pervious pavement failure and relay stormwater to detention pond.
 - Provides water quality treatment

The above elements will used to meet the design standards of the Rhode Island Stormwater Design and Installation Standard.

The primary goal of increasing water quality treatment is accomplished by providing water quality BMPs. Stormwater runoff mitigation is provided through the use of underground infiltration and pervious pavement. These proposed changes will reduce the amount of

stormwater being redirected to the already constructed detention ponds and proprietary devices. By fully infiltrating the 100-year storm event of the impervious areas within the permit modification area, the second goal of the proposed drainage system is achieved. Any potential impacts from the proposed development on the existing onsite BMPs and wetlands has been mitigated.

3.0 Minimum Standards

The site has been designed to meet the minimum standards as outlined in the Rhode Island Stormwater Design and Installation Standards Manual (RISDISM). The following sections outline how the site meets and exceeds the minimum required standards.

3.1 Minimum Standard 1: LID Site Planning and Design Strategies

See "Appendix A: Stormwater Management Checklist" from the RISDISM provided at the beginning of this report.

3.2 Minimum Standard 2: Groundwater Recharge

Groundwater is to be recharged per watershed based on impervious area coverage in accordance with section 3.2.2 of the RISDISM.

Groundwater recharge is determined from the following equation:

$$Re_v = 1'' * F * I / 12$$

Where:

Re_v = Groundwater Recharge Volume (cf)

F = Recharge Factor based on Hydrologic Soil Groups (HSG) (see table below)

I = Impervious Area (sf)

HSG	Recharge Factor (F)
A	0.60
B	0.35
C	0.25
D	0.10

Recharge volume is provided through the use of underground infiltration systems and pervious pavement. See Table 2-1 of the Appendix A checklist for a summary of recharge values.

The required recharge volume is based on all impervious area, not just areas which are captured in the proposed BMPs.

See Appendix A3.2 for the water quality storm HydroCAD analysis. The water quality storm is calculated in HydroCAD using the 'calculate separate Pervious/Impervious runoff' option.

3.3 Minimum Standard 3: Water Quality

All stormwater is treated through an approved BMP before being discharged. This site has been designed to use pervious pavement and underground infiltration systems to treat stormwater before fully infiltrating the 100-year storm event. There are no pollutant-specific requirements and/or pollutant removal efficiencies applicable to the site as the result of SAMP, TMDL, or other watershed-specific requirements.

Water Quality Underground Infiltration System

The Underground Infiltration Systems have been designed as a water quality system. The system has been sized using HydroCAD and an infiltration rate based on a parent material within the footprint of the BMP. The project site largely consists of loamy sand and an infiltration rate was used from table 5-3 in section 5.3.4 of the RISDISM. See Appendix A3.2 for HydroCAD analysis for the water quality event. The underground infiltration systems have been designed to fully infiltrate the 100-year storm event.

Underground Infiltration System:

BMP	Total Watershed Area (acres)	Impervious (acres)	Required Isolator Row Volume (cf)	Minimum Provided Isolator Row Volume (cf)
P1	0.080	0.080	469.88	1,644.56
P2	0.032	0.032	234.94	704.82
P3	0.013	0.013	234.94	234.94

Pervious Pavement

The pervious pavement was designed in HydroCAD with a 12" infiltrating sand layer and a 4" stone reservoir. The system has been sized using an infiltration rate based on a parent material within the footprint of the BMP. The project site largely consists of sandy loam and an infiltration rate was used from table 5-3 in section 5.3.4 of the RISDISM. See Appendix A3.2 for HydroCAD analysis for the water quality event. The pervious pavement has been designed to fully infiltrate the water quality event.

3.4 Minimum Standard 4: Conveyance and Natural Channel Protection

3.4.1 Drainage Network Design Parameters:

A. PIPES

- All drainage pipes are HDPE or equivalent unless otherwise noted.
- Manning's coefficient = 0.012 for HDPE Pipe
- Diameters & lengths as specified
- The 100-year design storm is utilized for the drainage pipe design to ensure that the drainage system contains and channels water to the BMP areas as shown on the plans.
- The rational method has been used for the closed drainage system.

B. STRUCTURES

- Catch basins – Pre-cast concrete with 3' sump unless otherwise noted and inverts as specified
- Manholes – Pre-cast concrete with inverts as specified.

3.4.2 Channel Protection Volume:

The site has been designed to fully infiltrate the channel protection volume. The channel protection required has been met.

See table 4-1 of the Appendix A Checklist for a Summary of Channel Protection Volumes. See Appendix A3.5.4.2 for the 1-year storm event HydroCAD analysis.

3.5 Minimum Standard 5: Overbank Flood Protection & Downstream Analysis

3.5.1 Method of Analysis

USDA Soil Conservation Service Method as defined by Technical Release No. 20 (TR-20) determines Stormwater runoff rate and volume. Type III rainfall distribution is utilized. Time of concentration is determined using Technical Release No 55 (TR-55) methodology, through the computer program *HydroCAD ver. 10.0* by HydroCAD Software Solutions LLC.

Soil has been modeled in HydroCAD with a 2.41 inches/hr infiltration rate per table 5-3 in section 5.3.4 of the RISDISM. Soil evaluations have been performed by DiPrete Engineering. The existing soil has a texture of Sandy Loam. Based on table table 5-3 in section 5.3.4 of the RISDISM underlying soils have the greater infiltration rate.

The drainage system has been designed to fully infiltrate the 100-year storm events. The emergency outlets have been sized to handle the 100 year storm event.

3.5.2 Design Storm

Analysis of 1-year, 10-year, 25-year, and 100-year frequency storms are included. The following 24-hour rainfall intensities are obtained from the Rhode Island Stormwater Design and Installation Standards Manual, Table 3-1 for Washington County.

1 year =	2.8 inches
10 year =	4.9 inches
25 year =	6.1 inches
100 year=	8.5 inches

3.5.3 Design Point Breakdown

The permit modification site is analyzed as 1 watershed area. the post development stage there are 5 subcatchments. Each subcatchment will demonstrate zero increase of runoff due to the proposed permit modification. A description of the watershed and associated subcatchments are summarized as follows, for cover types see color watershed maps located in back of this report. Numbers in parentheses () indicate the HydroCAD Node Number.

Design Point 1:

Watershed #1 flows to Design Point- 1 (DP-1). This watershed consists of the entire permit modification site. The design point is the northwest onsite wetland that eventually drains to Worden Pond.

In post development conditions there are 5 sub watersheds:

R1 collects runoff from the roof of the golf cart storage building and discharges to the underground infiltration Stormtech system (P1).

R2 collects runoff from the roof of the club house and pro shop building and discharges to the underground infiltration Stormtech system (P2).

R3 collects runoff from the roof of the maintenance garage and discharges to the underground infiltration Stormtech system (P3).

PP1 is the car parking lot. The parking lot is pervious pavement and fully infiltrates itself (P4).

U1 collects runoff from the undetained areas within the permit modification site and discharges to the northwest wetland via overland flow (W1).

Below is a summary of the hydrologic parameters for the pre and post development sub-areas in Design Point-1.

	Area (acres)	CN	Tc (min)
R1	0.080	98	6.0
R2	0.032	98	6.0
R3	0.013	98	6.0
PP1	1.585	90	6.0
U1	4.635	42	24.9

3.5.5 Downstream Analysis

See the South Shore Village Re-Permitting Stormwater Report prepared by DiPrete Engineering on 07/27/2022.

3.5.6 Overbank Flood Protection Conclusion

The tables below presents a summary of the pre development flows vs. the mitigated post development flows. The table shows a decrease in the rate of runoff for all storms included in the analysis.

Pre Development Flows vs. Post Development Flows Mitigated Watershed #1: (DL-1)Watershed #1: (DP-1)

See the South Shore Village Re-Permitting Stormwater Report prepared by DiPrete Engineering on 07/27/2022 for Pre-development Conditions versus Post Development Conditions Flow Rates. In this permit modification design, there is a proposed increase in impervious area and all impervious within the permit modification site area will be fully infiltrated during the 100-year storm event. The areas directed to Pond 2 via the Cascade Proprietary device and directed undetained to the Northwest Wetland have both been reduced from the original design. Therefore, this standard has been met.

3.6 Minimum Standard 6: Redevelopment and Infill Projects.

See the South Shore Village Re-Permitting Stormwater Report prepared by DiPrete Engineering on 07/27/2022.

3.7 Minimum Standard 7: Pollution Prevention

A Soil Erosion and Sediment Control Plan (SESC) for this development can be found under a separate document. See the South Shore Village Re-Permitting Soil Erosion and Sediment Control Plan prepared by DiPrete Engineering on 07/27/2022. The SESC contains information for construction pollution prevention. For post construction pollution prevention, a separate Operations and Maintenance (O&M) document has been prepared for this Permit Modification by DiPrete Engineering.

3.8 Minimum Standard 8: Land Uses with High Potential Pollutant Loads (LUHPPLs)

See the South Shore Village Re-Permitting Stormwater Report prepared by DiPrete Engineering on 07/27/2022.

3.9 Minimum Standard 9: Illicit Discharges

See the South Shore Village Re-Permitting Stormwater Report prepared by DiPrete Engineering on 07/27/2022.

3.10 Minimum Standard 10: Construction Activity Soil Erosion, Runoff and Sedimentation and Pollution Prevention Control Measure Requirements

See the South Shore Village Re-Permitting Soil Erosion and Sediment Control Plan prepared by DiPrete Engineering on 07/27/2022.

3.11 Minimum Standard 11: Stormwater Management System Operation and Maintenance

See the O&M for this Permit Modification prepared by DiPrete Engineering.

Appendix A

A2.1 Soil Evaluations

See previously approved Stormwater Report by DiPrete Engineering for Soil Evaluations (21-0063).

A3.2 Water Quality HydroCAD Storm Analysis

0677-004-SSCC-SW-Post-Permit Mod

Type III 24-hr WQ Storm Rainfall=1.20"

Prepared by DiPrete Engineering

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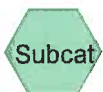
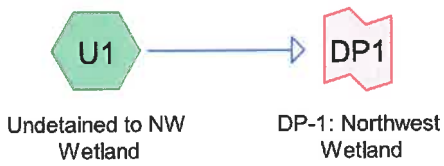
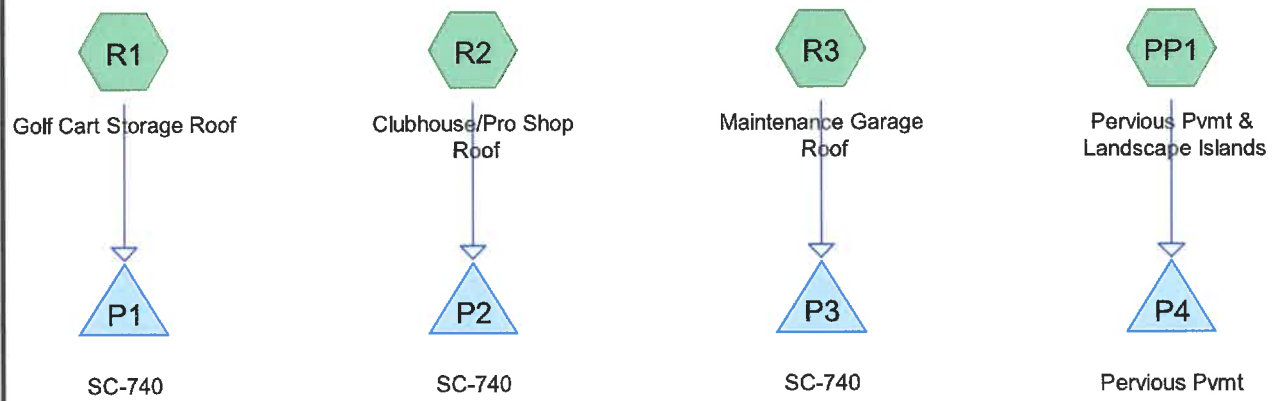
Page 1

Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Split Pervious/Imperv.
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment PP1: Pervious Pvmt &	Runoff Area=1.585 ac 86.94% Impervious Runoff Depth=0.86" Tc=6.0 min CN=39/98 Runoff=1.51 cfs 0.113 af
Subcatchment R1: Golf Cart Storage Roof	Runoff Area=0.080 ac 100.00% Impervious Runoff Depth=0.99" Tc=0.0 min CN=0/98 Runoff=0.11 cfs 0.007 af
Subcatchment R2: Clubhouse/Pro Shop Roof	Runoff Area=0.032 ac 100.00% Impervious Runoff Depth=0.99" Tc=0.0 min CN=0/98 Runoff=0.04 cfs 0.003 af
Subcatchment R3: Maintenance Garage Roof	Runoff Area=0.013 ac 100.00% Impervious Runoff Depth=0.99" Tc=0.0 min CN=0/98 Runoff=0.02 cfs 0.001 af
Subcatchment U1: Undetained to NW Wetland	Runoff Area=4.635 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=220' Tc=24.9 min CN=42/0 Runoff=0.00 cfs 0.000 af
Pond P1: SC-740	Peak Elev=114.69' Storage=0.001 af Inflow=0.11 cfs 0.007 af Outflow=0.03 cfs 0.007 af
Pond P2: SC-740	Peak Elev=115.63' Storage=0.000 af Inflow=0.04 cfs 0.003 af Outflow=0.02 cfs 0.003 af
Pond P3: SC-740	Peak Elev=114.12' Storage=0.000 af Inflow=0.02 cfs 0.001 af Outflow=0.01 cfs 0.001 af
Pond P4: Pervious Pvmt	Peak Elev=116.26' Storage=4,930 cf Inflow=1.51 cfs 0.113 af Outflow=0.00 cfs 0.000 af
Link DP1: DP-1: Northwest Wetland	Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af

Total Runoff Area = 6.345 ac Runoff Volume = 0.123 af Average Runoff Depth = 0.23"
76.31% Pervious = 4.842 ac 23.69% Impervious = 1.503 ac

A3.5.4.1 HydroCAD Node Diagram



Routing Diagram for 0677-004-SSCC-SW-Post-Permit Mod
 Prepared by DiPrete Engineering, Printed 6/22/2023
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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
4.442	39	>75% Grass cover, Good, HSG A (PP1, U1)
0.400	76	Gravel Cart Paths (U1)
1.318	98	Pervious Pavement (PP1)
0.060	98	Pervious Sidewalk (PP1)
0.125	98	Roofs (R1, R2, R3)
6.345	55	TOTAL AREA

A3.5.4.2 HydroCAD 1-Year Storm Analysis

0677-004-SSCC-SW-Post-Permit Mod

Type III 24-hr 1-Year Rainfall=2.80"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment PP1: Pervious Pvmt &	Runoff Area=1.585 ac 86.94% Impervious Runoff Depth=1.80" Tc=6.0 min CN=90 Runoff=3.33 cfs 0.238 af
Subcatchment R1: Golf Cart Storage Roof	Runoff Area=0.080 ac 100.00% Impervious Runoff Depth=2.57" Tc=0.0 min CN=98 Runoff=0.26 cfs 0.017 af
Subcatchment R2: Clubhouse/Pro Shop Roof	Runoff Area=0.032 ac 100.00% Impervious Runoff Depth=2.57" Tc=0.0 min CN=98 Runoff=0.11 cfs 0.007 af
Subcatchment R3: Maintenance Garage Roof	Runoff Area=0.013 ac 100.00% Impervious Runoff Depth=2.57" Tc=0.0 min CN=98 Runoff=0.04 cfs 0.003 af
Subcatchment U1: Undetained to NW Wetland	Runoff Area=4.635 ac 0.00% Impervious Runoff Depth=0.00" Flow Length=220' Tc=24.9 min CN=42 Runoff=0.00 cfs 0.000 af
Pond P1: SC-740	Peak Elev=115.25' Storage=0.005 af Inflow=0.26 cfs 0.017 af Outflow=0.03 cfs 0.017 af
Pond P2: SC-740	Peak Elev=116.15' Storage=0.002 af Inflow=0.11 cfs 0.007 af Outflow=0.02 cfs 0.007 af
Pond P3: SC-740	Peak Elev=114.64' Storage=0.001 af Inflow=0.04 cfs 0.003 af Outflow=0.01 cfs 0.003 af
Pond P4: Pervious Pvmt	Peak Elev=116.53' Storage=10,364 cf Inflow=3.33 cfs 0.238 af Outflow=0.00 cfs 0.000 af
Link DP1: DP-1: Northwest Wetland	Inflow=0.00 cfs 0.000 af Primary=0.00 cfs 0.000 af

Total Runoff Area = 6.345 ac Runoff Volume = 0.265 af Average Runoff Depth = 0.50"
76.31% Pervious = 4.842 ac 23.69% Impervious = 1.503 ac

A3.5.4.3 HydroCAD 10-Year Storm Analysis

0677-004-SSCC-SW-Post-Permit Mod

Type III 24-hr 10-Year Rainfall=4.90"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
 Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
 Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment PP1: Pervious Pvmt &	Runoff Area=1.585 ac 86.94% Impervious Runoff Depth=3.78" Tc=6.0 min CN=90 Runoff=6.78 cfs 0.499 af
Subcatchment R1: Golf Cart Storage Roof	Runoff Area=0.080 ac 100.00% Impervious Runoff Depth=4.66" Tc=0.0 min CN=98 Runoff=0.47 cfs 0.031 af
Subcatchment R2: Clubhouse/Pro Shop Roof	Runoff Area=0.032 ac 100.00% Impervious Runoff Depth=4.66" Tc=0.0 min CN=98 Runoff=0.19 cfs 0.012 af
Subcatchment R3: Maintenance Garage Roof	Runoff Area=0.013 ac 100.00% Impervious Runoff Depth=4.66" Tc=0.0 min CN=98 Runoff=0.08 cfs 0.005 af
Subcatchment U1: Undetained to NW Wetland	Runoff Area=4.635 ac 0.00% Impervious Runoff Depth=0.29" Flow Length=220' Tc=24.9 min CN=42 Runoff=0.32 cfs 0.111 af
Pond P1: SC-740	Peak Elev=115.87' Storage=0.011 af Inflow=0.47 cfs 0.031 af Outflow=0.03 cfs 0.031 af
Pond P2: SC-740	Peak Elev=116.68' Storage=0.004 af Inflow=0.19 cfs 0.012 af Outflow=0.02 cfs 0.012 af
Pond P3: SC-740	Peak Elev=115.19' Storage=0.002 af Inflow=0.08 cfs 0.005 af Outflow=0.01 cfs 0.005 af
Pond P4: Pervious Pvmt	Peak Elev=116.67' Storage=13,048 cf Inflow=6.78 cfs 0.499 af Outflow=3.06 cfs 0.202 af
Link DP1: DP-1: Northwest Wetland	Inflow=0.32 cfs 0.111 af Primary=0.32 cfs 0.111 af

Total Runoff Area = 6.345 ac Runoff Volume = 0.659 af Average Runoff Depth = 1.25"
76.31% Pervious = 4.842 ac 23.69% Impervious = 1.503 ac

A3.5.4.5 HydroCAD 100-Year Storm Analysis

0677-004-SSCC-SW-Post-Permit Mod

Type III 24-hr 100-Year Rainfall=8.50"

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Time span=0.00-72.00 hrs, dt=0.01 hrs, 7201 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment PP1: Pervious Pvmt & Runoff Area=1.585 ac 86.94% Impervious Runoff Depth=7.30"
Tc=6.0 min CN=90 Runoff=12.63 cfs 0.964 af

Subcatchment R1: Golf Cart Storage Roof Runoff Area=0.080 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.81 cfs 0.055 af

Subcatchment R2: Clubhouse/Pro Shop Roof Runoff Area=0.032 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.33 cfs 0.022 af

Subcatchment R3: Maintenance Garage Roof Runoff Area=0.013 ac 100.00% Impervious Runoff Depth=8.26"
Tc=0.0 min CN=98 Runoff=0.13 cfs 0.009 af

Subcatchment U1: Undetained to NW Wetland Runoff Area=4.635 ac 0.00% Impervious Runoff Depth=1.68"
Flow Length=220' Tc=24.9 min CN=42 Runoff=4.55 cfs 0.651 af

Pond P1: SC-740 Peak Elev=117.74' Storage=0.024 af Inflow=0.81 cfs 0.055 af
Outflow=0.03 cfs 0.055 af

Pond P2: SC-740 Peak Elev=117.96' Storage=0.009 af Inflow=0.33 cfs 0.022 af
Outflow=0.02 cfs 0.022 af

Pond P3: SC-740 Peak Elev=116.52' Storage=0.004 af Inflow=0.13 cfs 0.009 af
Outflow=0.01 cfs 0.009 af

Pond P4: Pervious Pvmt Peak Elev=117.03' Storage=20,218 cf Inflow=12.63 cfs 0.964 af
Outflow=3.34 cfs 0.666 af

Link DP1: DP-1: Northwest Wetland Inflow=4.55 cfs 0.651 af
Primary=4.55 cfs 0.651 af

Total Runoff Area = 6.345 ac Runoff Volume = 1.701 af Average Runoff Depth = 3.22"
76.31% Pervious = 4.842 ac 23.69% Impervious = 1.503 ac

Summary for Subcatchment PP1: Pervious Pvmt & Landscape Islands

Runoff = 12.63 cfs @ 12.08 hrs, Volume= 0.964 af, Depth= 7.30"
 Routed to Pond P4 : Pervious Pvmt

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 1.318	98	Pervious Pavement
* 0.060	98	Pervious Sidewalk
0.207	39	>75% Grass cover, Good, HSG A
1.585	90	Weighted Average
0.207	39	13.06% Pervious Area
1.378	98	86.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry,

Summary for Subcatchment R1: Golf Cart Storage Roof

Runoff = 0.81 cfs @ 12.00 hrs, Volume= 0.055 af, Depth= 8.26"
 Routed to Pond P1 : SC-740

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 0.080	98	Roofs
0.080	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					Direct Entry,

Summary for Subcatchment R2: Clubhouse/Pro Shop Roof

Runoff = 0.33 cfs @ 12.00 hrs, Volume= 0.022 af, Depth= 8.26"
 Routed to Pond P2 : SC-740

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 0.032	98	Roofs
0.032	98	100.00% Impervious Area

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Type III 24-hr 100-Year Rainfall=8.50"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					Direct Entry,

Summary for Subcatchment R3: Maintenance Garage Roof

Runoff = 0.13 cfs @ 12.00 hrs, Volume= 0.009 af, Depth= 8.26"
 Routed to Pond P3 : SC-740

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 0.013	98	Roofs
0.013	98	100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.0					Direct Entry,

Summary for Subcatchment U1: Undetained to NW Wetland

Runoff = 4.55 cfs @ 12.42 hrs, Volume= 0.651 af, Depth= 1.68"
 Routed to Link DP1 : DP-1: Northwest Wetland

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Type III 24-hr 100-Year Rainfall=8.50"

Area (ac)	CN	Description
* 4.235	39	>75% Grass cover, Good, HSG A
0.400	76	Gravel Cart Paths
4.635	42	Weighted Average
4.635	42	100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.5	100	0.0050	0.07		Sheet Flow, A
					Grass: Dense n= 0.240 P2= 3.30"
0.4	120	0.0816	4.60		Shallow Concentrated Flow, B
					Unpaved Kv= 16.1 fps
24.9	220	Total			

Summary for Pond P1: SC-740

Inflow Area = 0.080 ac, 100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
 Inflow = 0.81 cfs @ 12.00 hrs, Volume= 0.055 af
 Outflow = 0.03 cfs @ 10.39 hrs, Volume= 0.055 af, Atten= 96%, Lag= 0.0 min
 Discarded = 0.03 cfs @ 10.39 hrs, Volume= 0.055 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

0677-004-SSCC-SW-Post-Permit Mod

Type III 24-hr 100-Year Rainfall=8.50"

Prepared by DiPrete Engineering

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Page 4

Peak Elev= 117.74' @ 14.10 hrs Surf.Area= 0.013 ac Storage= 0.024 af

Plug-Flow detention time= 258.4 min calculated for 0.055 af (100% of inflow)
 Center-of-Mass det. time= 258.4 min (993.3 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	114.50'	0.011 af	11.00'W x 53.46'L x 3.50'H Field A 0.047 af Overall - 0.015 af Embedded = 0.032 af x 33.0% Voids
#2A	115.00'	0.015 af	ADS_StormTech SC-740 +Cap x 14 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 14 Chambers in 2 Rows
		0.025 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	114.50'	2.410 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.03 cfs @ 10.39 hrs HW=114.54' (Free Discharge)
 ↑**1=Exfiltration** (Exfiltration Controls 0.03 cfs)

Summary for Pond P2: SC-740

Inflow Area = 0.032 ac, 100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
 Inflow = 0.33 cfs @ 12.00 hrs, Volume= 0.022 af
 Outflow = 0.02 cfs @ 10.76 hrs, Volume= 0.022 af, Atten= 95%, Lag= 0.0 min
 Discarded = 0.02 cfs @ 10.76 hrs, Volume= 0.022 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Peak Elev= 117.96' @ 13.71 hrs Surf.Area= 0.006 ac Storage= 0.009 af

Plug-Flow detention time= 198.7 min calculated for 0.022 af (100% of inflow)
 Center-of-Mass det. time= 198.7 min (933.6 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	115.50'	0.005 af	11.00'W x 24.98'L x 3.50'H Field A 0.022 af Overall - 0.006 af Embedded = 0.016 af x 33.0% Voids
#2A	116.00'	0.006 af	ADS_StormTech SC-740 +Cap x 6 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 6 Chambers in 2 Rows
		0.012 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	115.50'	2.410 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.02 cfs @ 10.76 hrs HW=115.54' (Free Discharge)
 ↑**1=Exfiltration** (Exfiltration Controls 0.02 cfs)

Summary for Pond P3: SC-740

Inflow Area = 0.013 ac, 100.00% Impervious, Inflow Depth = 8.26" for 100-Year event
 Inflow = 0.13 cfs @ 12.00 hrs, Volume= 0.009 af
 Outflow = 0.01 cfs @ 10.90 hrs, Volume= 0.009 af, Atten= 95%, Lag= 0.0 min
 Discarded = 0.01 cfs @ 10.90 hrs, Volume= 0.009 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Peak Elev= 116.52' @ 13.58 hrs Surf.Area= 0.003 ac Storage= 0.004 af

Plug-Flow detention time= 179.8 min calculated for 0.009 af (100% of inflow)
 Center-of-Mass det. time= 179.8 min (914.7 - 734.9)

Volume	Invert	Avail.Storage	Storage Description
#1A	114.00'	0.002 af	11.00'W x 10.74'L x 3.50'H Field A 0.009 af Overall - 0.002 af Embedded = 0.007 af x 33.0% Voids
#2A	114.50'	0.002 af	ADS StormTech SC-740 +Cap x 2 Inside #1 Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap 2 Chambers in 2 Rows
		0.005 af	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	114.00'	2.410 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=0.01 cfs @ 10.90 hrs HW=114.04' (Free Discharge)
 ↑**1=Exfiltration** (Exfiltration Controls 0.01 cfs)

Summary for Pond P4: Pervious Pvmt

Inflow Area = 1.585 ac, 86.94% Impervious, Inflow Depth = 7.30" for 100-Year event
 Inflow = 12.63 cfs @ 12.08 hrs, Volume= 0.964 af
 Outflow = 3.34 cfs @ 11.94 hrs, Volume= 0.666 af, Atten= 74%, Lag= 0.0 min
 Discarded = 3.34 cfs @ 11.94 hrs, Volume= 0.666 af

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs
 Peak Elev= 117.03' @ 12.44 hrs Surf.Area= 59,909 sf Storage= 20,218 cf

Plug-Flow detention time= 179.6 min calculated for 0.666 af (69% of inflow)
 Center-of-Mass det. time= 86.7 min (860.9 - 774.2)

Volume	Invert	Avail.Storage	Storage Description
#1	117.33'	13,246 cf	8" Pervious Pavement/Choker Course (Prismatic) Listed below (Recalc) -Impe 40,139 cf Overall x 33.0% Voids
#2	116.67'	13,048 cf	8" Sand Filter Course (Prismatic) Listed below (Recalc) 39,540 cf Overall x 33.0% Voids
#3	116.01'	13,048 cf	8" Pea Gravel and Stone Reservoir (Prismatic) Listed below (Recalc) -Impervic 39,540 cf Overall x 33.0% Voids
		39,342 cf	Total Available Storage

0677-004-SSCC-SW-Post-Permit Mod

Type III 24-hr 100-Year Rainfall=8.50"

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Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
117.33	59,909	0	0
118.00	59,909	40,139	40,139

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
116.67	59,909	0	0
117.33	59,909	39,540	39,540

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
116.01	59,909	0	0
116.67	59,909	39,540	39,540

Device	Routing	Invert	Outlet Devices
#1	Discarded	116.67'	2.410 in/hr Exfiltration over Surface area Phase-In= 0.01'

Discarded OutFlow Max=3.34 cfs @ 11.94 hrs HW=116.68' (Free Discharge)

↑**1=Exfiltration** (Exfiltration Controls 3.34 cfs)

Summary for Link DP1: DP-1: Northwest Wetland

Inflow Area = 4.635 ac, 0.00% Impervious, Inflow Depth = 1.68" for 100-Year event
 Inflow = 4.55 cfs @ 12.42 hrs, Volume= 0.651 af
 Primary = 4.55 cfs @ 12.42 hrs, Volume= 0.651 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.01 hrs

Watershed Maps

EnvyMe, LLC
 497 West Beach Road
 Charleston, Rhode Island 02813
 401-743-7203
 Owner/Architect

DiPrete Engineering
 Engineers
 Two Stafford Court
 Cranston, Rhode Island 02920
 Tel: (401) 943-1000 Fax: (401) 464-6006

NO.	DATE	REVISION	DESCRIPTION

Watershed Map
 Proposed Clubhouse & Pro Shop
 South Shore Village
 SOUTH KINGSFORD, RHODE ISLAND

Sheet
 1 of 1

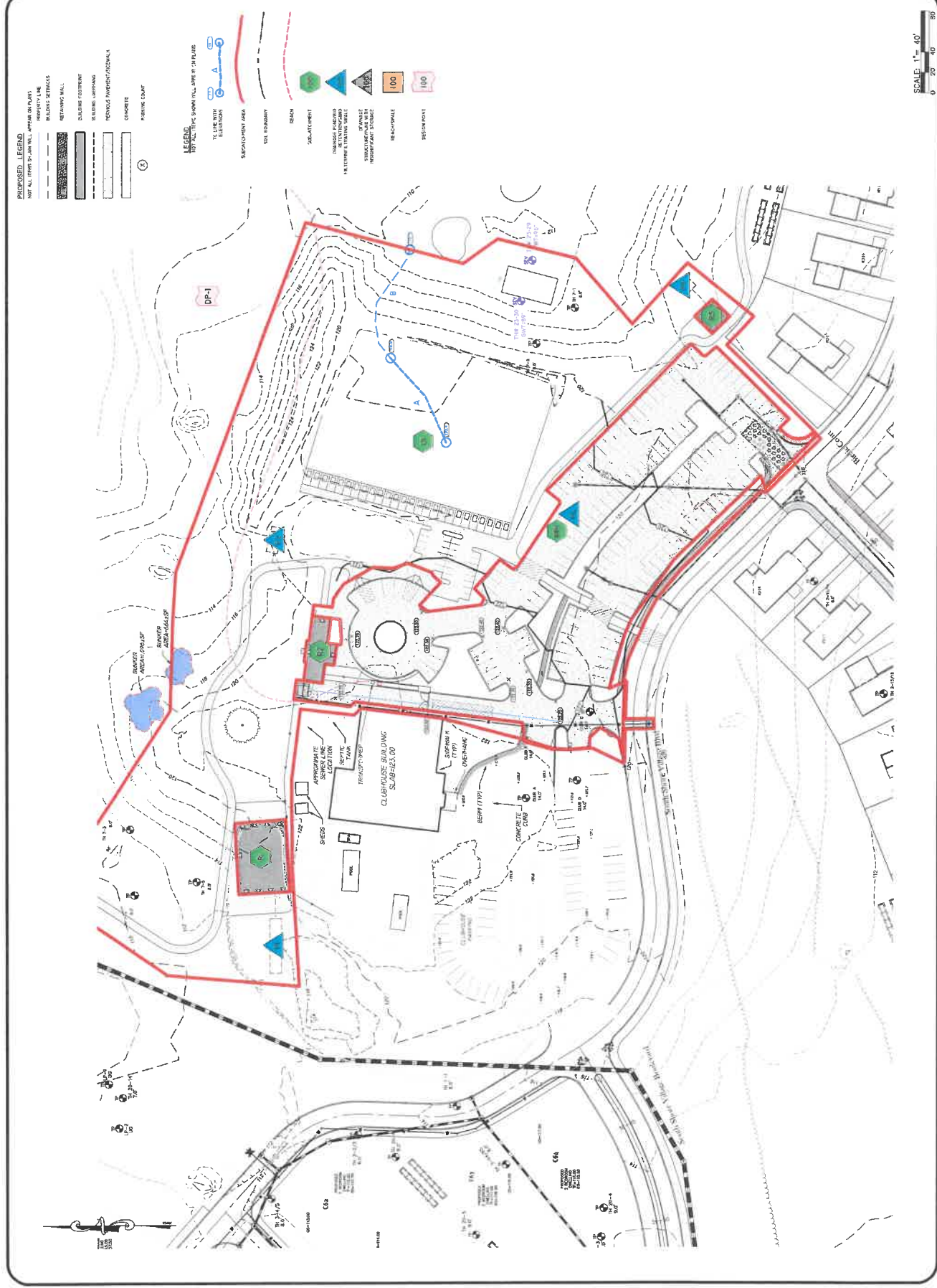
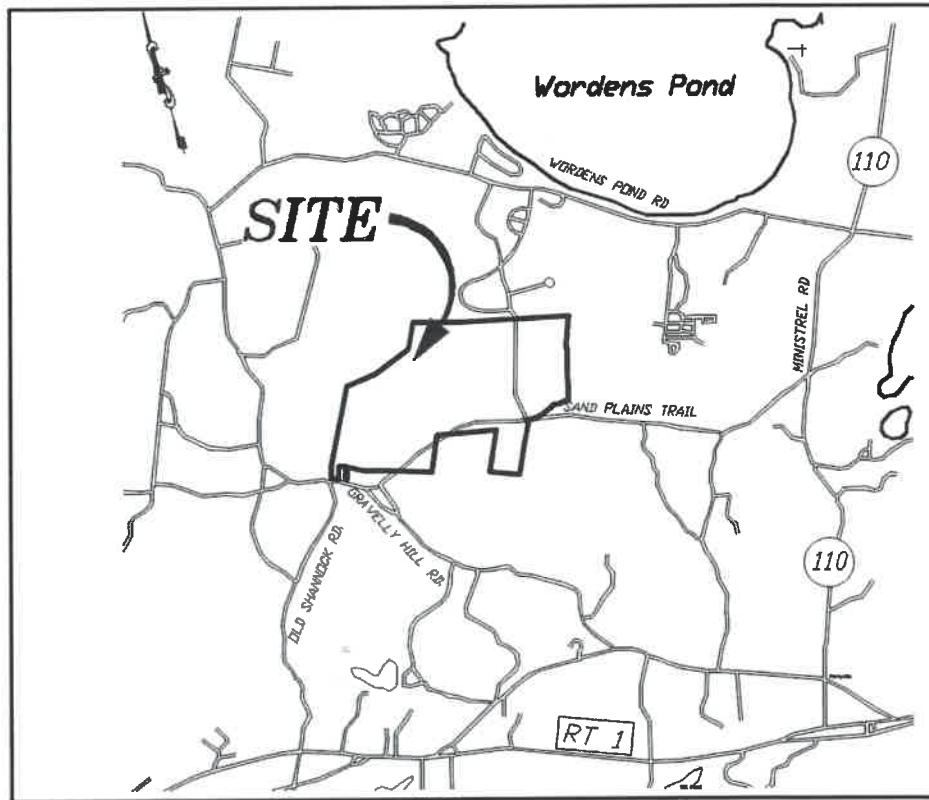


EXHIBIT 14

Stormwater System Operation & Maintenance Plan



South Shore Village Re-Permitting

Located in South Kingstown, RI

Applicant: Envine, LLC

7/1/2022

REVISED: 6/19/2023

Table of Contents

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Operation & Maintenance Plan Overview

An essential component of a successful Stormwater System (SS) is the ongoing Operation and Maintenance (O&M) of the various components of the stormwater drainage, control, and conveyance systems. These components include swales, pipes, catch basins, and treatment/ control devices are commonly referred to as Best Management Practices (BMPs). Failure to provide effective maintenance can reduce the hydraulic capacity and the pollutant removal efficiency of stormwater practices.

Many people expect that stormwater facilities will continue to function correctly forever. However, it is inevitable that deterioration of the stormwater system will occur once it becomes operational. The question is not whether stormwater system maintenance is necessary but how often.

This plan has been developed to proactively address operations and maintenance to minimize potential problems and maximize potential stormwater runoff treatment and management. Ongoing inspections and maintenance will extend the service life of the Best Management Practices.

This plan addresses:

1. Stormwater management system(s) owners;
2. The party or parties responsible for operation and maintenance, including how future property owners will be notified of the presence of the stormwater management system and the requirement for proper operation and maintenance;
3. A description and delineation of public safety features;
4. The routine (scheduled) and non-routine (corrective) maintenance tasks for each BMP to be undertaken after construction is complete and a schedule for implementing those tasks;
5. A plan that is drawn to scale and shows the location of all stormwater BMPs in each treatment train along with the discharge point;
6. An estimated operation and maintenance budget; and
7. Funding source for operation and maintenance activities and equipment.

A major contributor to unmaintained stormwater facilities is a lack of clear ownership and responsibility definition. In order for an inspection and maintenance program to be effective, the roles for each responsibility must be clearly defined prior to construction of a system. This can be accomplished with a maintenance agreement between the site owners and the responsible authority.

This report is suitable for recording as an attachment to a maintenance agreement between the site owner and the responsible authority. A copy of a sample agreement prepared by RIDEM is attached to this report as Appendix B.

Stormwater System Owner / Party Responsible for O&M

Stormwater BMPs are maintained during construction by the site contractor as identified in the Soil Erosion and Sediment Control Plan (SESC) for the site. A copy of the SESC is required to be kept on site during construction. The SESC requires maintenance and inspection of the BMPs during the construction phase of project and requires a log be kept of these activities. Once construction is complete and the contractor's warranty period is elapsed, the contractor must obtain the signature of the stormwater system's owner releasing the contractor from his maintenance and inspection responsibilities. A copy of this release of contractor's responsibility must be attached to this document.

The Owners Association will be the owner of the stormwater system located outside of public right of ways and all stormwater BMP. Upon completion of construction, and creation of the Owners Association, their legal name along with mailing and emergency contact information must be added below.

Owner; _____

Mailing Address; _____

Emergency Contact Name; _____

Phone; _____

Transfer of Ownership

In the event that the owner of any property included in the Owner's Association changes, the current owner (grantor) must provide a copy of this document to the new owner (grantee). In addition, the Owners Association must provide all new members with a copy of this document.

The Stormwater System Owner is the Party Responsible for the ongoing O&M of the system.

The two key components to adequately maintain the stormwater infrastructure are:

1. Performance of periodic and scheduled inspections
2. Performance of scheduled maintenance

The actual operation and maintenance of the system may be performed by a third party designated by the owner. If the owner contracts with a third party for O&M the name, address, and emergency contact information must be added below, and updated if the third-party designee changes.

Name: _____

Mailing Address: _____

Emergency Contact Name: _____

Phone: _____

Public Safety

Public safety was a critical factor in designing the stormwater system. Public safety features included in this design are:

- Accessibility to Stormwater BMPs
- Winter & Non-Winter Maintenance

Accessibility to Stormwater BMPs

As shown on the site plans, a dedicated path is proposed to provide access to all stormwater BMPs from the roadway. This access has been sized to accommodate vehicle access to the BMPs.

Winter Maintenance

The following tasks must be performed to protect public safety during the winter season:

- Roadways and parking lots will be salted/ sanded/ plowed in accordance with applicable Town of South Kingstown and RIDOT guidelines;
- Inspect the open and closed drainage networks adjacent to the snow stockpiles to ensure they are free of clogging and debris;
- Inspect roadways and drainage structures post-storm event to alleviate any signs of icing or damming.

Non-Winter Maintenance

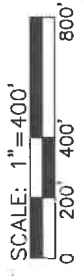
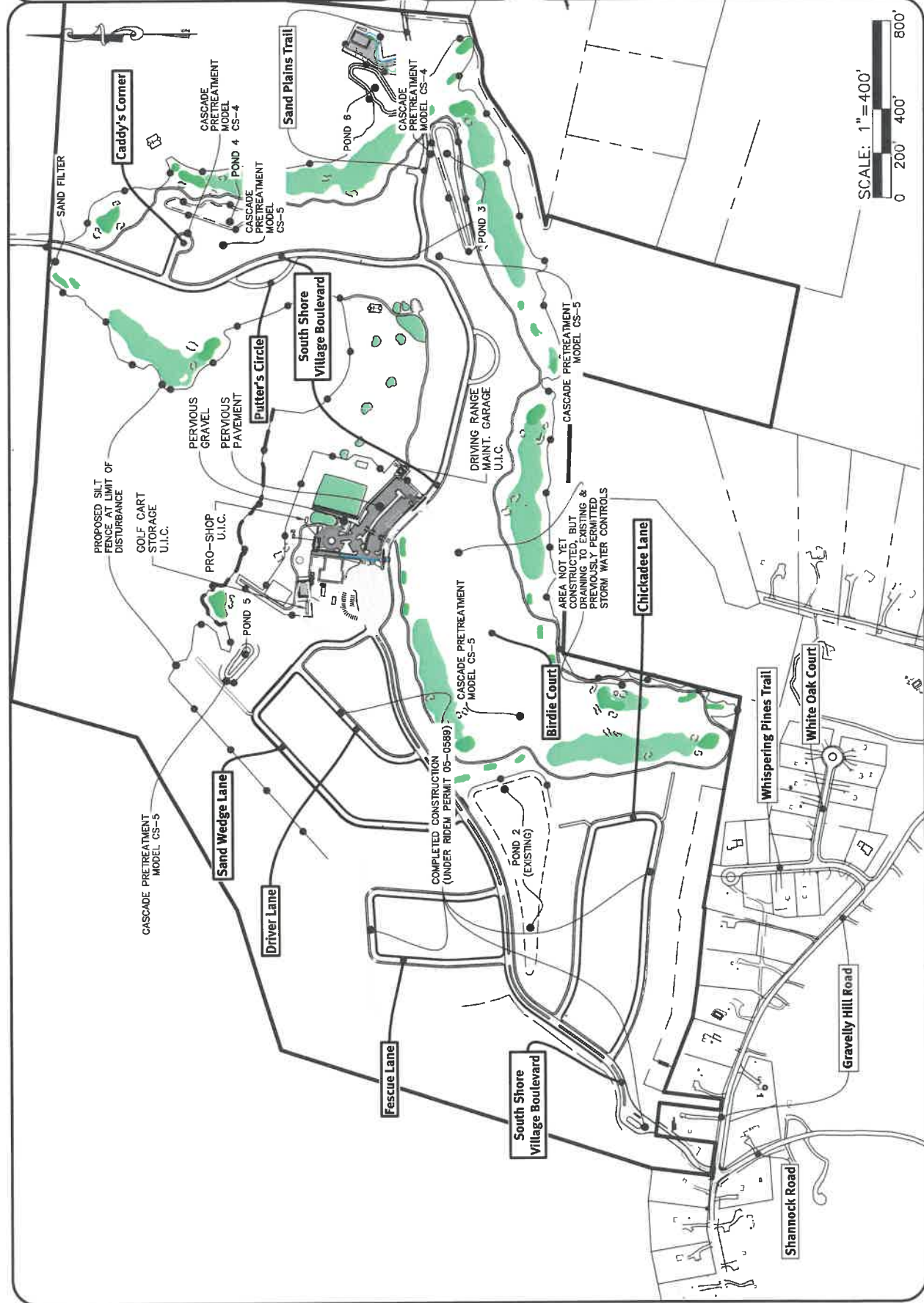
The following tasks must be performed to protect public safety during the non-winter seasons:

- Roadways and parking lots will be swept in accordance with applicable Town of South Kingstown and RIDOT guidelines;
- The stormwater management systems must be inspected and maintained in accordance with the enclosed Operations & Maintenance Plan.

Particular care must be taken in the operation and maintenance of these features.

Stormwater System Plan

A plan identifying each component of the stormwater system is included on the following page.



O&M Plan
South Shore Village Remainder

Date: 06-19-2023
 South Kingstown, Rhode Island

SHEET **1** OF 1

Diprete Engineering

Two Stafford Court Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-666-6006 www.diprete-eng.com

Boston • Providence • Newport

Inspections & Maintenance

Inspections must be performed on a regular basis and scheduled based on the BMP type and configuration. It is not mandatory that all inspectors be trained engineers, but they must have some knowledge or experience with stormwater systems and in general, trained stormwater engineers should direct the inspectors. Follow-up inspections by registered professional engineers must be performed where a routine inspection has revealed a question of structural or hydraulic integrity affecting public safety.

Not all inspections can be conducted by direct human observation. For subsurface systems, video equipment may be required. There may be cases where other specialized equipment is necessary. The inspection program must be tailored to address the operational characteristics of the system.

The inspection process must document observations made in the field and must cover structural conditions, hydraulic operational conditions, evidence of vandalism, condition of vegetation, occurrence of obstructions, unsafe conditions, and build-up of trash, sediments and pollutants.

Maintenance of the stormwater management system is essential and can be divided into two types, scheduled and corrective.

Scheduled maintenance tasks are those that are typically accomplished on a regular basis and can generally be scheduled without referencing inspection reports. These items consist of such things as vegetation maintenance (such as mowing) and trash and debris removal. These tasks are required at well-defined time intervals and are a requirement for all stormwater structural facilities.

Corrective maintenance tasks consist of items such as sediment removal, stream bank stabilization, and outlet structure repairs that are done on an as-needed basis. These tasks are typically scheduled based on inspection results or in response to complaints.

Since specialized equipment may be required, some maintenance tasks can be effectively handled on a contract basis with an outside entity specializing in that field. In addition, some maintenance may also require a formal design and bid process to accomplish the work.

Appendix A provides an "Inspection Schedule & Maintenance Checklist" for the stormwater system components on this site. Completed checklists must be maintained as an ongoing record of inspections for each component of the stormwater system.

In addition to the maintenance of the stormwater system, maintenance of other site improvements can significantly enhance the ability for the BMPs to function as designed. Several of these have been listed below, along with the recommended maintenance.

Lawn, Garden and Landscape Management

- Lawns should be cut no shorter than 1-1/2" in the spring and fall to stimulate root growth, and no shorter than 2 to 3 inches throughout the summer.
- Infiltration ponds should be mowed at least twice per year.
- Fertilize no more than twice per year, once in May-June and once in September-October.
- Avoid spreading fertilizer on impervious surfaces.
- Weeds should be dug or pulled out. Large areas of weeds can be removed by covering with large plastic sheet(s) for a few days.
- Chemical pesticides should be used as a last resort. A healthy lawn is naturally disease resistant.
 - Visible insects can be removed by hand, by spraying with water, or even vacuum cleaning.
 - Store bought traps, specific for a species, can be used.
 - Slugs and other soft bodied insects can be eliminated using diatomaceous earth.
 - Plants infected with bacteria and fungi should be removed and disposed of.
 - Beneficial organisms should be maintained on the property and should be encouraged/ attracted to the property. Homeowners and property facility maintenance personal should become familiar with beneficial organisms.
- Irrigation should be minimal if required at all. Most lawns do not require watering and will become dormant during dry periods.
 - Established lawns require no more than one inch of water per week.
 - Areas should be watered before 9am to avoid evaporation.

Stormwater Pond / Irrigation Pond Management

- At the conclusion of the golf season, or on 15 November at the latest, the irrigation pond shall be pumped down approximately 1' (one foot) below the normal pool elevation to improve downstream sediment removal.

Road and Parking Area Management

Street and Parking Lot Sweeping

- All street and parking areas on site must be swept a minimum of 2 times per year.

Deicing:

- Salt storage areas must be completely covered and located on an impervious surface.
- Runoff must be contained in appropriate areas.
- See The Rhode Island Stormwater Design and Installation Standards Manual Appendix G for approved deicing agents and ways to reduce deicer impacts. The manual Appendices can be found online at:
<http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/pdfs/swdsnappd.pdf>

Sealants:

- Only asphalt-based sealants are permitted, no coal-tar based asphalt sealants can be used on site.

Snow Removal:

- Snow must not be dumped in any water body including rivers, reservoirs, ponds, lakes, wetlands, bays, or the ocean.
- Avoid disposing of snow on top of storm drain catch basins or stormwater drainage swales or ditches.
- Snow must be stored in upland areas, not in or adjacent to water bodies or wetlands. Snow must be stored in a location that will allow snow melt and enter the onsite drainage system so it can be treated by onsite BMPs.

Solid Waste Containment

- Trash and recycling receptacles must be located onsite for all commercial areas.

Reference; Additional information relating to operation and maintenance of specific BMPs can be found in the Rhode Island Stormwater Design and Installation Standards Manual.

www.dem.ri.gov/pubs/regs/regs/water/swmanual.pdf

Estimated Inspections & Maintenance Budget

It is important to be able to budget for the O&M costs associated with the stormwater system. To assist the owner in budgeting, below is an estimate of the costs that may be incurred in maintaining the system. The costs have been estimated on a Yearly basis.

Periodic inspections, if performed by an outside entity will cost approximately \$27,200/yr.

Extended Detention Structure:

For a 25-year finance period, detention structures cost approximately \$268.59 per acre of tributary area per year. The site contains approximately 99.4 acres of area flowing to detention structures. This equates to an approximate cost of \$26,700 per year to maintain the proposed infiltration ponds.

Sand Filter:

For a 20 year maintenance period, sand filter structure cost can be calculated using this equation: $C=10,556 A^{0.534}$ Where A is tributary area in acres. The site has 0.90 acres flowing to the sand filter area and the total 20 year cost would be \$10,000±. This cost equals \$500± per year.

Infiltration Structure:

For a 25 year finance period, Infiltration Structures cost approximately \$1,277.77 per acre of tributary area per year. The site contains approximately 0.125 acres of area flowing to infiltration structures. This equates to an approximate cost of \$160 per year to maintain the infiltration structures.

Pervious Pavement:

Pervious pavement costs approximately \$3,960 per acre of tributary area per year. The site contains approximately 1.38 acres of area flowing to porous pavement. This equates to an approximate cost of \$5,465± per year to maintain the pervious pavement

Based on the costs outlined above, the stormwater system will cost approximately \$32,825 per year to maintain. This is only an estimate and costs may vary.

These costs are the responsibility of the stormwater system owner. Funding for the costs will be provided by the owner.

Reference; Maintenance costs are based on information provided by Horsley Witten during the January 19, 2011 Stormwater Manual Training.

(<http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/stwater/t4guide/slides/sess210.ppt>)

Appendix A – Inspection Schedule & Maintenance Checklists

**Detention / Infiltration Pond
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

Notes:

- Beyond inspection frequency noted in parenthesis, i.e. (quarterly), inspections shall be completed after storms equal to or greater than the 1-year 24-hour Type III storm event (2.7" of rain fall)
- All Checklist Maintenance items are MANDATORY.
- During inspections, if maintenance items are found not to be applicable, note as N/A in comments
- All removed sediments shall be disposed at an approved and permitted location.
- All hazardous debris removed shall be disposed of in accordance with state and federal regulations by a properly licensed contractor
- Sediment shall be removed from stormwater basins when the sediment volume exceeds 10% of the total basin volume. Sediment shall be disposed of in an acceptable manner at an approved and permitted location.
- Infiltration Ponds Only: When infiltration rates decrease below design infiltration rates, remove accumulated surface sediments and rototill pond bottom. Revegetate bottom of infiltration pond as needed

MAINTENANCE ITEM	SATISFACTORY (YES/NO)	COMMENTS
1. Embankment and Emergency Spillway (Annual)		
Vegetation and Ground Cover Adequate		
Embankment Erosion		
Animal Burrows		
Unauthorized Planting		
Cracking, bulging or sliding of dam		
<ul style="list-style-type: none"> • Upstream face 		
<ul style="list-style-type: none"> • Downstream face 		

**Detention / Infiltration Pond
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

<ul style="list-style-type: none"> At or beyond toe 		
<ul style="list-style-type: none"> Downstream 		
<ul style="list-style-type: none"> Upstream 		
<ul style="list-style-type: none"> Emergency Spillway 		
Basin, toe & chimney drains clear and functioning		
Seeps/leaks on downstream face		
Slope protection or riprap failure		
Vertical/horizontal alignment of top of dam "As-Built"		
Emergency Spillway clear of obstructions and debris		
2. Riser and Principal Spillway (Annual)		
Type: Reinforced Concrete____ Corrugated Pipe_____ Masonry_____ Low-flow orifice obstructed		
Internal Low-flow orifice obstructed. Remove filter sock and riser to check.		
Low-flow trash rack <ul style="list-style-type: none"> Debris removal necessary 		
<ul style="list-style-type: none"> Corrosion control 		
Low Flow Filter Sock (Filter Fabric) <ul style="list-style-type: none"> Signs of deterioration, replace if necessary 		
Weir trash rack maintenance <ul style="list-style-type: none"> Debris removal necessary 		
<ul style="list-style-type: none"> Corrosion control 		

**Detention / Infiltration Pond
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

Excessive Sediment accumulation inside riser		
Concrete/Masonry condition riser and barrels		
<ul style="list-style-type: none"> • cracks or displacement 		
<ul style="list-style-type: none"> • Minor spalling (<1") 		
<ul style="list-style-type: none"> • Major spalling (rebars exposed) 		
<ul style="list-style-type: none"> • Joint failures 		
<ul style="list-style-type: none"> • Water tightness 		
Metal pipe Condition		
Control Valve		
<ul style="list-style-type: none"> • Operational/ Exercised 		
<ul style="list-style-type: none"> • Chained and Locked 		
Basin Drain Valve		
<ul style="list-style-type: none"> • Operational/ Exercised 		
Outfall channels functioning		
3. Dry Basin Areas (Annual)		
Vegetation adequate		
Undesirable vegetative growth		
Undesirable woody vegetation		
Low-flow channels clear of obstructions		
Standing water or wet spots		
Annual mowing of vegetation along the maintenance access roads.		

**Detention / Infiltration Pond
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

Annual inspection of vegetation within basin.		
Prune all dead or dying vegetation within the extents of the basin or WVTS.		
Sediment and/or trash accumulation *		
Remove all herbaceous vegetation root stock when overcrowding of the maintenance access to the facility, remove any vegetation that has a negative impact on stormwater flowage through facility, and trim any overgrown vegetation within the basin.		
Replace any/all original vegetation that has died off or has not fully established, as determined at the time of the inspection.		
Vegetation should be reinforced to its original design standards if less than 50% of the original vegetation is established after two years.		
Any invasive vegetation encroaching upon the perimeter of the facility should be pruned or removed if it is prohibiting access to the facility, compromising sight visibility and/or compromising original design vegetation.		
4. Condition of Outfalls (Annual)		
Riprap Failures		
Slope erosion		
Storm drain pipes		
Endwalls/ Headwalls		
Other (specify)		
1. Emergent Vegetation (Annual)		

**Detention / Infiltration Pond
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

Annual mowing of vegetation: Annual mowing of the basin setback is only required along maintenance rights-of-way and the embankment. The remaining setback can be managed as rangeland (mowing every other year) or forest		
Vegetation healthy and growing maintaining 50% surface area coverage of emergent plants after the second growing season (If unsatisfactory, reinforcement plantings needed)		
Dominant emergent plants: Survival of desired emergent plant species. Distribution according to planting plan?		
Evidence of invasive species		
Maintenance of adequate water depths for desired emergent plant species		
Harvesting of emergent plantings needed		
Have sediment accumulations reduced pool volume significantly or are plants “choked” with sediment		

**Detention / Infiltration Pond
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

COMMENTS:

ACTIONS TO BE TAKEN:

**Drainage Structures
(Catch Basins, Manholes, etc.)
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

Notes:

- Beyond inspection frequency noted, inspections shall be completed after storms equal to or greater than the 1-year 24-hour Type III storm event (2.7" of rain fall)
- All Checklist Maintenance items are MANDATORY.
- During inspections, if maintenance items are found not to be applicable, note as N/A in comments
- All removed sediments shall be disposed at an approved and permitted location.
- All hazardous debris removed shall be disposed of in accordance with state and federal regulations by a properly licensed contractor

MAINTENANCE ITEM	SATISFACTORY (YES/NO)	COMMENTS
Semi-annually inspect drainage structures for damage		
Use a vacuum truck or other means to clean out any sediment or debris present in any drainage structure or whenever sediments reach ½ of the sump depth, which ever comes first.		
Semi-annually inspect drainage structures for debris and remove as necessary		

**Permeable Pavement
Operation, Maintenance, and Management
Inspection Checklist**

Project:
Location:
Site Status:

Date:
Time:
Inspector:

Notes:

- Beyond inspection frequency noted in parenthesis, i.e. (quarterly), inspections shall be completed after storms equal to or greater than the 1-year 24-hour Type III storm event (2.7" of rain fall)
- All Checklist Maintenance items are MANDATORY.
- During inspections, if maintenance items are found not to be applicable, note as N/A in comments
- All removed sediments shall be disposed at an approved and permitted location.
- All hazardous debris removed shall be disposed of in accordance with state and federal regulations by a properly licensed contractor

MAINTENANCE ITEM	SATISFACTORY (YES/NO)	COMMENTS
1. Sediment and Debris Cleanout (Quarterly or Manufacturer's Recommendation)		
Contributing area free of sediment and debris		
Contributing area stabilized and mown, with grass clippings removed		
Surface free of sediment and debris (e.g. mulch, leaves, trash, etc.)		
No signs of clogging (e.g., standing water)		
Surface does not require vacuuming		
2. Dewatering (Monthly)		
Permeable pavement dewateres between storms		
3. Underdrain Outfall, If Present (Annual)		
No evidence of erosion		

**Permeable Pavement
Operation, Maintenance, and Management
Inspection Checklist**

Project:
Location:
Site Status:

Date:
Time:
Inspector:

4. Surface repairs (annual)		
Surface has not been sealed		
No evidence of surface deterioration or spalling		
Surface (top and base course) does not need to be Replaced		
5. Vacuum Sweeping or Hosing (Quarterly)		
Quarterly Vacuum Sweeping or Hosing per manufacturer		
6. Miscellaneous		
Minimize use of sand and salt in winter months		
Post signs identifying permeable pavement		
Attached rollers to the bottoms of snowplows to prevent them from catching on the edges of grass pavers and some paving stones		
Annual inspection for damaged and clogged voids		

**Underground System
Operation, Maintenance, and Management
Inspection Checklist**

Project:
Location:
Site Status:

Date:
Time:
Inspector:

Notes:

- Beyond inspection frequency noted in parenthesis, i.e. (quarterly), inspections shall be completed after storms equal to or greater than the 1-year 24-hour Type III storm event (2.7" of rain fall)
- All Checklist Maintenance items are MANDATORY.
- During inspections, if maintenance items are found not to be applicable, note as N/A in comments
- All removed sediments shall be disposed at an approved and permitted location.
- All hazardous debris removed shall be disposed of in accordance with state and federal regulations by a properly licensed contractor
- Repair or complete replacement to Underground Infiltration System Practice is required if system fails to infiltrate fully within 48 hours.
- Inspection Ports are provided over each row of the chambers for inspections. Manholes are provided at one end of each isolator row for access and maintenance.

MAINTENANCE ITEM	SATISFACTORY (YES/NO)	COMMENTS
1. Debris Cleanout (Quarterly)		
The isolator row chamber(s) clear of debris/ floatables or accumulated sediment.		
Inflow pipes clear of debris/ floatables		
Overflow spillway clear of debris/ floatables		
Inlet area clear of debris/ floatables		
2. Dewatering (Annual)		
Chamber dewaterers between storms		
Outlet devices shall be cleaned/repared when draw down exceeds 36 hours.		

**Underground System
Operation, Maintenance, and Management
Inspection Checklist**

Project:

Date:

Location:

Time:

Site Status:

Inspector:

3. Sediment Cleanout of Chamber (Annual)		
No evidence of sedimentation in chamber		
Sedimentation accumulation doesn't yet require cleanout		
Sediment Shall be removed from the system when sediment volume exceeds 10% of the total vault volume		
Remove sediments by hydro-jetting of sediments and vactoring (vacuuming)		
4. Inlets (Quarterly)		
Good condition		
No evidence of disrepair (presence of structural damage)		
5. Aggregate Repairs (Annual)		
Annual inspection for damage		
Annual inspection for hydrocarbon build-up and removal if detected.		
Annual inspection for sediment accumulation in the facility		
Surface of aggregate clean		
Top layer of stone does not need replacement		
Chamber does not need rehabilitation (presence of structural damage)		

**Underground System
Operation, Maintenance, and Management
Inspection Checklist**

Project:

Date:

Location:

Time:

Site Status:

Inspector:

COMMENTS:

ACTIONS TO BE TAKEN:

**Street Sweeping
Operation, Maintenance, and Management
Inspection Checklist**

Project: South Shore Village – Re-Permitting

Date:

Location: South Shore Village Boulevard, South Kingstown, RI

Time:

Site Status:

Inspector:

Notes:

- **Beyond inspection frequency noted in parenthesis, i.e. (quarterly), inspections shall be completed after storms equal to or greater than the 1-year 24-hour Type III storm event (2.7" of rain fall)**
- **All Checklist Maintenance items are MANDATORY.**
- **During inspections, if maintenance items are found not to be applicable, note as N/A in comments**
- **All removed sediments shall be disposed at an approved and permitted location.**
- **All hazardous debris removed shall be disposed of in accordance with state and federal regulations by a properly licensed contractor**

MAINTENANCE ITEM	SATISFACTORY (YES/NO)	COMMENTS
Sweep all roadways two times per year. One of these sweepings must occur after winter sanding operations have concluded.		

COMMENTS:

Cascade Separator[®] Inspection and Maintenance Guide



Maintenance

The Cascade Separator® system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects sediment and debris will depend upon on-site activities and site pollutant characteristics. For example, unstable soils or heavy winter sanding will cause the sediment storage sump to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (i.e. spring and fall). However, more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment wash-down areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

A visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet chamber, flumes or outlet channel. The inspection should also quantify the accumulation of hydrocarbons, trash and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided in this Inspection and Maintenance Guide.

Access to the Cascade Separator unit is typically achieved through one manhole access cover. The opening allows for inspection and cleanout of the center chamber (cylinder) and sediment storage sump, as well as inspection of the inlet chamber and slanted skirt. For large units, multiple manhole covers allow access to the chambers and sump.

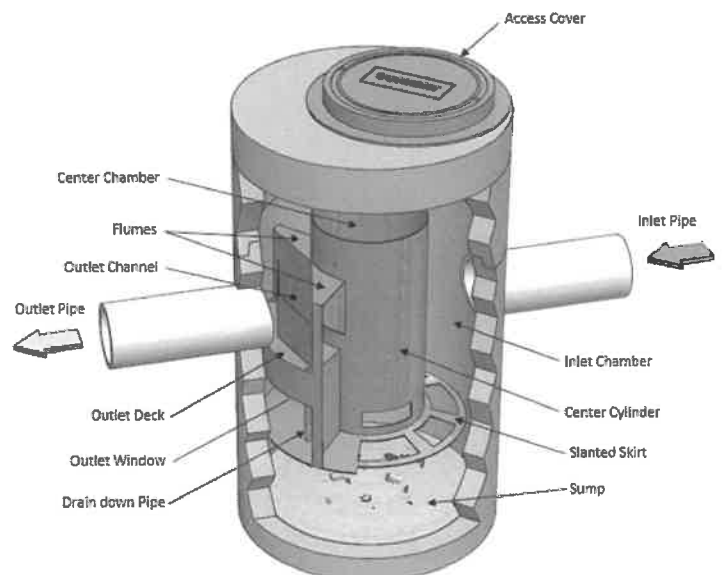
The Cascade Separator system should be cleaned before the level of sediment in the sump reaches the maximum sediment depth and/or when an appreciable level of hydrocarbons and trash has accumulated. If sorbent material is used, it must be replaced when significant discoloration has occurred. Performance may be impacted when maximum sediment storage capacity is exceeded. Contech recommends maintaining the system when sediment level reaches 50% of maximum storage volume. The level of sediment is easily determined by measuring the distance from the system outlet invert (standing water level) to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Finer, silty particles at the top of the pile typically offer less resistance to the end of the rod than larger particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the chart in this document to determine if the height of the sediment pile off the bottom of the sump floor exceeds 50% of the maximum sediment storage.

Cleaning

Cleaning of a Cascade Separator system should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole cover and insert the vacuum tube down through the center chamber and into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The areas outside the center chamber and the slanted skirt should also be washed off if pollutant build-up exists in these areas.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. Then the system should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and to ensure proper safety precautions. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the Cascade Separator system must be done in accordance with local regulations. In many locations, disposal of evacuated sediments may be handled in the same manner as disposal of sediments removed from catch basins or deep sump manholes. Check your local regulations for specific requirements on disposal. If any components are damaged, replacement parts can be ordered from the manufacturer.



Cascade Separator® Maintenance Indicators and Sediment Storage Capacities

Model Number	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	y ³	m ³
CS-3	3	0.9	1.5	0.5	0.4	0.3
CS-4	4	1.2	2.5	0.8	0.7	0.5
CS-5	5	1.3	3	0.9	1.1	0.8
CS-6	6	1.8	3.5	1	1.6	1.2
CS-8	8	2.4	4.8	1.4	2.8	2.1
CS-10	10	3.0	6.2	1.9	4.4	3.3
CS-12	12	3.6	7.5	2.3	6.3	4.8

Note: The information in the chart is for standard units. Units may have been designed with non-standard sediment storage depth.



A Cascade Separator unit can be easily cleaned in less than 30 minutes.



A vacuum truck excavates pollutants from the systems.

Appendix B – RIDEM Sample Stormwater Facility Maintenance Agreement

****A site-specific Stormwater Facility Maintenance Agreement between the Owner and the responsible authority must be developed prior to construction****

Sample Stormwater Facility Maintenance Agreement

THIS AGREEMENT, made and entered into this ____ day of _____, 20____, by and between (Insert Full Name of Owner)

_____ hereinafter called the "Landowner", and the [Local Jurisdiction], hereinafter called the "[Town/City]".
WITNESSETH, that WHEREAS, the Landowner is the owner of certain real property described as (Tax Map/Parcel Identification Number) _____ as recorded by deed in the land records of [Local Jurisdiction] Deed Book _____ Page _____, hereinafter called the "Property".

WHEREAS, the Landowner is proceeding to build on and develop the property; and
WHEREAS, the Site Plan/Subdivision Plan known as _____, (Name of Plan/Development) hereinafter called the "Plan", which is expressly made a part hereof, as approved or to be approved by the [Town/City], provides for detention of stormwater within the confines of the property; and

WHEREAS, the [Town/City] and the Landowner, its successors and assigns, including any homeowners association, agree that the health, safety, and welfare of the residents of [Local Jurisdiction] require that on-site stormwater management facilities be constructed and maintained on the Property; and

WHEREAS, the [Town/City] requires that on-site stormwater management facilities as shown on the Plan be constructed and adequately maintained by the Landowner, its successors and assigns, including any homeowners association.

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

1. The on-site stormwater management facilities shall be constructed by the Landowner, its successors and assigns, in accordance with the plans and specifications identified in the Plan.
2. The Landowner, its successors and assigns, including any homeowners association, shall adequately maintain the stormwater management facilities in accordance with the required Operation and Maintenance Plan. This includes all pipes, channels or other conveyances built to convey stormwater to the facility, as well as all structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate maintenance is herein defined as good working condition so that these facilities are performing their design functions. The Stormwater Best Management Practices Operation, Maintenance and Management Checklists are to be used to establish what good working condition is acceptable to the [Town/City].

-
3. The Landowner, its successors and assigns, shall inspect the stormwater management facility and submit an inspection report annually. The purpose of the inspection is to assure safe and proper functioning of the facilities. The inspection shall cover the entire facilities, berms, outlet structure, basin areas, access roads, etc. Deficiencies shall be noted in the inspection report.
 4. The Landowner, its successors and assigns, hereby grant permission to the [Town/City], its authorized agents and employees, to enter upon the Property and to inspect the stormwater management facilities whenever the [Town/City] deems necessary. The purpose of inspection is to follow-up on reported deficiencies and/or to respond to citizen complaints. The [Town/City] shall provide the Landowner, its successors and assigns, copies of the inspection findings and a directive to commence with the repairs if necessary.
 5. In the event the Landowner, its successors and assigns, fails to maintain the stormwater management facilities in good working condition acceptable to the [Town/City], the [Town/City] may enter upon the Property and take whatever steps necessary to correct deficiencies identified in the inspection report and to charge the costs of such repairs to the Landowner, its successors and assigns. This provision shall not be construed to allow the [Town/City] to erect any structure of permanent nature on the land of the Landowner outside of the easement for the stormwater management facilities. It is expressly understood and agreed that the [Town/City] is under no obligation to routinely maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the [Town/City].
 6. The Landowner, its successors and assigns, will perform the work necessary to keep these facilities in good working order as appropriate. In the event a maintenance schedule for the stormwater management facilities (including sediment removal) is outlined on the approved plans, the schedule will be followed.
 7. In the event the [Town/City] pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like, the Landowner, its successors and assigns, shall reimburse the [Town/City] upon demand, within thirty (30) days of receipt thereof for all actual costs incurred by the [Town/City] hereunder.
 8. This Agreement imposes no liability of any kind whatsoever on the [Town/City] and the Landowner agrees to hold the [Town/City] harmless from any liability in the event the stormwater management facilities fail to operate properly.
 9. This Agreement shall be recorded among the land records of [Local Jurisdiction] and shall constitute a covenant running with the land, and shall be binding on the Landowner, its administrators, executors, assigns, heirs and any other successors in interests, including any homeowners association.

WITNESS the following signatures and seals:

Company/Corporation/Partnership Name (Seal)

By: _____

(Type Name and Title)

The foregoing Agreement was acknowledged before me this ____ day of
_____, 20____, by

____.

NOTARY PUBLIC

My Commission Expires: _____

By: _____

(Type Name and Title)

The foregoing Agreement was acknowledged before me this ____ day of
_____, 20____, by

____.

NOTARY PUBLIC

My Commission Expires: _____

Approved as to Form:

[Town/City] Attorney Date

EXHIBIT 15



**RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ONSITE WASTEWATER TREATMENT SYSTEM CONSTRUCTION PERMIT**
www.dem.ri.gov/septic



APPLICATION No. 1997-088 DATE RECEIVED 1/21/2020 AMOUNT RECEIVED \$ 1000 CHECK # 1000 NOTE

FOR RIDEM USE ONLY

TYPE OF APPLICATION (CHECK ALL THAT APPLY)

NEW BUILDING CONSTRUCTION
 ALTERATION
 REPAIR
 TRANSFER

A/E TECHNOLOGY TYPE
 VARIANCE
 REDESIGN
 JOINT OWTS / WETLANDS PD

SITE INFORMATION

NO. STREET 1000 CITY/TOWN Warwick POLE # 110
 PLAT NUMBER 6 LOT NUMBER 3 SUBDIVISION LOT NUMBER 1000
 LOT SIZE 2.09 SF/ACRES 18000
 SUBDIVISION NAME 1000
 SUBDIVISION SITE SUITABILITY CERTIFICATION # 02-10

OWNER INFORMATION

LAST NAME 1000 FIRST NAME 1000 M.I. 1000
 NO. STREET 1000 CITY/TOWN Warwick ZIP CODE 02886

RIDEM APPLICATION HISTORY

PREVIOUS SITE TESTING YES NO APPLICATION # 1000
 DEPTH TO APPROVED WATER TABLE 10 HOW DETERMINED TV
 TEST HOLE # 1000 DATE EXCAVATED 1/21/2020 WETLANDS WITHIN 200' OF OWTS YES NO
 WETLAND DETERMINATION YES NO RIDEM FILE # 1000 DATE 1/21/2020

LARGE SYSTEM YES NO OGI FILE # IF APPLICABLE 1000 ENVIRONMENTAL MANAGEMENT

DESIGN INFORMATION

BUILDING USE: Residential Commercial Other
 WATER SUPPLY: public water public well private well Water Resources

OF DESIGN UNITS 1000 gallons per (unit) TOTAL DAILY FLOW 1000 gallons
 UNIT DESIGN FLOW 1000 gallons per (unit) TOTAL DAILY FLOW 1000 gallons
 TANK SIZE 1000 gallons DESIGN LOADING RATE 1000 gpd/sf
 MINIMUM REQUIRED LEACHFIELD AREA 1000 square feet
 LEACHFIELD TYPE 1000
 TOTAL AREA OF LEACHFIELD PROVIDED 1000 square feet

CERTIFICATION

Jane P. Clough (print), the undersigned licensed OWTS Designer, certify that I prepared this application and accompanying forms, submittals, plans and sketches in accordance with the RULES of the RIDEM pertaining to OWTS and that all the information provided on this application and accompanying forms, submittals, plans and sketches is true & accurate.

Designer's Signature Jane P. Clough License # D 210
 Designer's Email clough@clough-engineering.com Phone # 401-943-1000

Business/Company Name CLOUGH ENGINEERING
 I certify that a) I am the owner of the property indicated under the site information on this application, b) I will hire a licensed OWTS installer to install the system proposed herein, c) the system will be installed in strict accordance with this application, d) I will hire and retain the licensed OWTS designer of record to witness and inspect the installation of the system, e) I assume all responsibility for the truth and accuracy of this application and all liability and responsibility for any improper installations of the system on this site and agree to hold the RIDEM harmless from any and all claims relating whatsoever to the system. In the case of a transfer application, I acknowledge that the permit application and plans previously approved and accompanying this application are the operative documents subject to certification.

Owner's Phone Number 401-943-1000
 Owner's Email clough@clough-engineering.com
 Owner(s) Signature Jane P. Clough

PERMIT APPROVAL SECTION: DO NOT WRITE BELOW THIS LINE

Based upon the representations of the owner and the owner's agents, including the representations of the owner's OWTS designer, and the truth and accuracy of all information submitted, this application for an OWTS is hereby approved. The RIDEM assumes no responsibility or liability for the future safe operation or maintenance of the approved system, of the fitness or suitability of this system to this site, nor does it assume any responsibility for the accuracy and truth of the owner's, or the owner's agent's representations. This approval is subject to future suspension or revocation in the event that subsequent examination reveals any data indicated on any application, form, submittal, plan or sketch to be incorrect, or not in compliance with the RULES or any conditions at the site, are such that the approved design is not in accordance with the RULES, or in the event that the system discharges inadequately treated wastewater to waters of the State or fails to operate satisfactorily in any other manner.

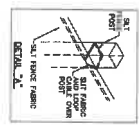
IMPORTANT: Additional terms of approval as circled.

- Bottom of leaching area excavation must be inspected by the RIDEM prior to placement of any gravel or stone.
- System installation must be inspected by RIDEM prior to covering any component of the system with backfill.
- Applicant shall comply with all requirements, conditions and stipulations of variance(s) approved on
- A/E Technology: additional installation, operation or maintenance requirements may apply (see A/E Technology Certification.)
- Joint Permit: Designer of record must contact RIDEM prior to start of any site construction.
- Proper erosion and sedimentation controls must be installed prior to start of construction.
- Proper construction falls within "Coastal Zone". Contact Rhode Island Coastal Resources Management Council.
- Other: No commercial kitchen waste, no commercial food prep, approved for 65 seat lounge/ bar. (Noted services)
- Approved for 90 min. required per capita use of pool.

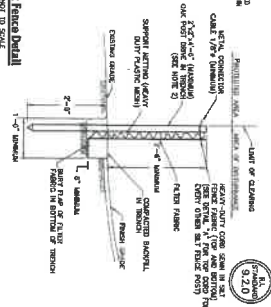
Signature of RIDEM Official [Signature] Date of Approval 12-8-2020 Date of Expiration 12-8-2025

DESIGNER

- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 04 OF THE B.I. SPECIFICATIONS
 2. 2'-0" x 4'-0" DIMENSIONS FOR THIS SIZE OF FILTER SHALL BE LOCATED AS SHOWN IN SECTION 04 OF THE B.I. SPECIFICATIONS
 3. FILTER SHALL BE 100% EFFICIENT FOR REMOVING PARTICLES OF 10 MICRONS OR LARGER
 4. FILTER SHALL BE EQUIVALENT TO THAT SHOWN IN SECTION 04 OF THE B.I. SPECIFICATIONS

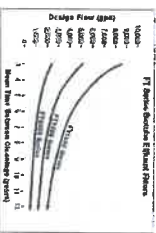


Filter Frame Detail
NOT TO SCALE



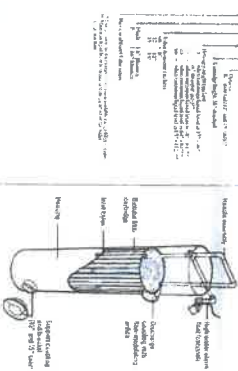
Substitutable Filter to Meet Design Flow and System Cleaning Interval

Substitutable filters are available in a variety of materials and configurations. The filter element shown is a 2'-0" x 4'-0" pleated filter element. The filter element is supported by a frame that is 2'-0" x 4'-0" in size. The filter element is supported by a frame that is 2'-0" x 4'-0" in size.

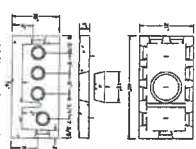


Model Order for Ordering

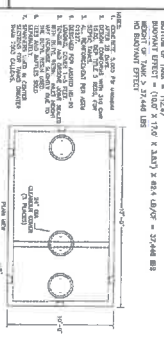
Model Order for Ordering



NOTE: USE FR 1349-388
EQUIVALENT FILTER DETAIL
NOT TO SCALE



Filtering System
Pleated Distribution Box DB-14
NOT TO SCALE



NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
2	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
3	5' Pleated Filter Element	1	EA	150.00	150.00
4	5' Filter Frame	1	EA	75.00	75.00
5	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
6	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
7	5' Pleated Filter Element	1	EA	150.00	150.00
8	5' Filter Frame	1	EA	75.00	75.00
9	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
10	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
11	5' Pleated Filter Element	1	EA	150.00	150.00
12	5' Filter Frame	1	EA	75.00	75.00
13	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
14	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
15	5' Pleated Filter Element	1	EA	150.00	150.00
16	5' Filter Frame	1	EA	75.00	75.00
17	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
18	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
19	5' Pleated Filter Element	1	EA	150.00	150.00
20	5' Filter Frame	1	EA	75.00	75.00
21	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
22	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
23	5' Pleated Filter Element	1	EA	150.00	150.00
24	5' Filter Frame	1	EA	75.00	75.00
25	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
26	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
27	5' Pleated Filter Element	1	EA	150.00	150.00
28	5' Filter Frame	1	EA	75.00	75.00
29	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
30	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
31	5' Pleated Filter Element	1	EA	150.00	150.00
32	5' Filter Frame	1	EA	75.00	75.00
33	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
34	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
35	5' Pleated Filter Element	1	EA	150.00	150.00
36	5' Filter Frame	1	EA	75.00	75.00
37	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
38	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
39	5' Pleated Filter Element	1	EA	150.00	150.00
40	5' Filter Frame	1	EA	75.00	75.00
41	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
42	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
43	5' Pleated Filter Element	1	EA	150.00	150.00
44	5' Filter Frame	1	EA	75.00	75.00
45	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
46	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00
47	5' Pleated Filter Element	1	EA	150.00	150.00
48	5' Filter Frame	1	EA	75.00	75.00
49	2'-0" x 4'-0" Pleated Filter Element	1	EA	100.00	100.00
50	2'-0" x 4'-0" Filter Frame	1	EA	50.00	50.00

Detail Sheet
South Shore Village
South Kingstown, Rhode Island

Envine, LLC
PO Box 1299, Charlestown, Rhode Island 02813
TEL: 401-333-7223

Drawn By: S.L. Design By: J.A.C.

DIPrete Engineering
Two Stafford Court, Cranston, RI 02910
TEL: 401-943-5000 FAX: 401-944-8000 www.diprete-eng.com

Boston • Providence • Newport

EXHIBIT 16

IDENTIFICATION NUMBER: S32-195A(Addendum)

PRELIMINARY SUBDIVISION SUITABILITY

DETERMINATION BY THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

SUBDIVISION: SOUTH SHORE COUNTRY CLUB

TOWN: SOUTH KINGSTOWN

This report pertains to units numbered A21a, A22b, B18a, B18b, C8, C8a, D12a, D70a, E12a, E1, E1a, E2, E3, E4, E5, E1b, E1c, E1d, E1e, E1p, E1g, E5m, E30a and E30b.

Based upon the Percolation Tests, Soil Exploration Tests, and Ground Water Table Determinations and other data furnished with this report, it is the opinion of this office that subdivision units A21a, A22b, B18a, B18b, C8, C8a, D12a, D70a, E12a, E1, E1a, E2, E3, E4, E5, E1b, E1c, E1d, E1e, E1p, E1g, E5m, E30a and E30b, on plans entitled "South Shore Country Club", Gravelly Hill Road, South Kingstown, for South County Sand & Gravel, Co., Inc., by DiPrete Engineering Associates, Inc., appears suitable for the use of onsite wastewater treatment systems provided:

1. Water supply is from a public or community drinking water system from an off site source.
2. The size of the proposed leachfields must be based on the loading rate in the area of the system per rule 32.2.1 and 32.2.2 but not less than 10 minutes/inch (.70 gals/sf/day).
3. The leachfield must be located in the area as listed in item 7 below.
4. All other requirements of the rules and regulations pertaining to onsite wastewater treatment systems in effect at the time of the individual lot application must be met.
5. The specific details of the proposed leachfields are not part of the review, but have been considered for planning purposes only.
6. All proposed construction within minimum distances to existing wetlands as defined in Rule 7 of the current regulations must be reviewed by the Fresh Water Wetlands Section of this Department. In conjunction, an applicability determination must be filed with the Wetlands Section of this Department prior to the submission of individual applications for these cases. This determination must show all filling, roadways, grading and modifications to each lot that may not be shown on the subdivision plan.
7. DESIGN CRITERIA IS AS FOLLOWS:

<u>Lot Number</u>	<u>Design Depth</u>
A21a	8'0" in the area indicated
A22a	8'0" in the area indicated
B18a	5'0" in the area indicated
B18b	5'0" in the area indicated
C8	8'0" in the area indicated
C8a	8'0" in the area indicated
D12a	8'0" in the area indicated
D70a	8'0" in the area indicated
E1, E1a	8'0" in the area indicated
E1b, E1c	8'0" in the area indicated
E1d, E1e	8'0" in the area indicated
E1f, E1g	8'0" in the area indicated
E2, E3	8'0" in the area indicated
E4, E5	8'0" in the area indicated
E5m	8'0" in the area indicated
E12a	8'0" in the area indicated
E30a, E30b	8'0" in the area indicated

The above action is a preliminary determination only. It does not guarantee or constitute current or future approval in whole or in part of onsite wastewater treatment systems required for each lot. Specific approval will be required by the Department of Environmental Management for each system on each lot, which will be based on the onsite wastewater treatment rules and regulations in effect at the time of the submission of the individual application.

Official Signature *Michael J. ...* Title Junior Sanitary Engineer
 Department of Environmental Management Date JUNE 30, 2008

IDENTIFICATION NUMBER: S32-195A(Addendum)

PRELIMINARY SUBDIVISION SUITABILITY

DETERMINATION BY THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

SUBDIVISION: SOUTH SHORE COUNTRY CLUB

TOWN: SOUTH KINGSTOWN

This report pertains to units numbered A21a, A22b, B18a, B18b, C8, C8a, D12a, D70a, E12a, E1, E1a, E2, E3, E4, E5, E1b, E1c, E1d, E1e, E1p, E1g, E5m, E30a and E30b.

Based upon the Percolation Tests, Soil Exploration Tests, and Ground Water Table Determinations and other data furnished with this report, it is the opinion of this office that subdivision units A21a, A22b, B18a, B18b, C8, C8a, D12a, D70a, E12a, E1, E1a, E2, E3, E4, E5, E1b, E1c, E1d, E1e, E1p, E1g, E5m, E30a and E30b, on plans entitled "South Shore Country Club", Gravelly Hill Road, South Kingstown, for South County Sand & Gravel, Co., Inc., by DiPrete Engineering Associates, Inc., appears suitable for the use of onsite wastewater treatment systems provided:

- 7A. The bottom of all systems must be designed to be 5 ft. above the total depth of excavation per Rule 32.8 of the current regulations.
- 7B. To the extent possible maximize distance between drainage and proposed onsite wastewater treatment systems to meet Table 22.1 of the current regulations.

The above action is a preliminary determination only. It does not guarantee or constitute current or future approval in whole or in part of onsite wastewater treatment systems required for each lot. Specific approval will be required by the Department of Environmental Management for each system on each lot, which will be based on the onsite wastewater treatment rules and regulations in effect at the time of the submission of the individual application.

Official Signature *Michael G. ...* Title Junior Sanitary Engineer
Department of Environmental Management Date JUNE 30, 2008

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

ISDS Preliminary Subdivision Suitability Application Form
Soil Evaluation Based Method

Town of Coventry Sheet 1 of 3

Subdivision Name South Shore Country Club Lot Numbers to be considered _____

Location: Gravelly Hill Road, A.P. 65 lots 2-5, 13 & 15

Owner's Name and Mailing Address South County Sand & Gravel, c/o Roland Fiore, 170 Fiore Industrial Drive, Wakefield, RI 02879

Number of Acres 265 +/- Typical Lot Area 20,000 +/- s.f. Typical Bedrooms per Lot: 2 Bedrooms per Modular Home

Water Supply Source: Public Individual Wells Other

Date May 5, 2008 Signature of Owner [Signature]

INSTRUCTION TO ENGINEER OR SURVEYOR:
Refer to "Rules and Regulations Establishing Minimum Standards Relating to Location, Design, Construction, and Maintenance of Individual Sewage Disposal Systems," as amended for soil testing procedures.

SOIL EVALUATION, GROUND WATER TABLE DETERMINATIONS AND LOADING RATES

NOTE: soil evaluation holes must be indexed by an appropriate reference number. The location of each test hole and the index reference number must be shown to scale on the subdivision plan. A four inch diameter perforated standpipe must be set in each test hole. Each standpipe must be labeled in the field with the corresponding index reference number.

Lot No.	Test Hole No.	Date Excavated	Soil Description by Horizon, Depth, Color, Re-dox features, Texture, Structure and Consistence (ex., Bw1, 12"-20", 10YR 5/4, fmd wrc, sl, wab kc, fr)	Soil Category (each horizon)	SHWT Depth	Total Depth
	08-1	3/6/08	A 0-2" 10YR 3/3 sl, 1-gr, vfr Bw 2-28" 10YR 4/6 ls, 1-gr, vfr C1 28-38" 2.5Y 4/4 lcos, 0-sg, L C2 38-80" 2.5Y 6/4 gs, 0-sg, L C3 80-120" 2.5Y 6/3 s, 0-sg, L	3 3 1 1 1	84"	120"
	08-2	3/6/08	A 0-3" 10YR 3/3 sl, 1-gr, vfr Bw 3-30" 10YR 4/6 ls, 1-gr, vfr BC 30-40" 2.5Y 6/4 s, 0-sg, L C1 40-72" 2.5Y 5/3 cbgs, 0-sg, L C2 72-120" 2.5Y 6/3 cos, 0-sg, L	3 3 1 1 1	72"	120"
	08-3	3/6/08	A 0-3" 10YR 3/3 sl, 1-gr, vfr Bw 3-26" 10YR 4/6 ls, 1-gr, vfr BC 26-38" 2.5Y 4/4 lcos, 0-sg, L C1 38-77" 2.5Y 6/4 cos, 0-sg, L C2 77-120" 2.5Y 6/3 lfs, 0-m, fri	3 3 1 1 6	96"	120"
	08-4	3/6/08	A 0-2" 10YR 3/2 sl, 1-gr, vfr Bw 2-30" 10YR 4/4 sl, 1-gr, vfr C1 30-48" 2.5Y 5/4 cos, 0-sg, L C2 48-84" 2.5Y 6/2 s, 0-sg, L C3 84-120" 2.5Y 6/3 cos, 0-sg, L	3 3 1 1 1	84"	120"
	08-5	3/6/08	C1 0-12" 10YR 3/3 ls, 0-m, fri C2 12-40" 10YR 4/6 gls, 0-m, fri C3 40-120" 2.5Y 4/4 s, 0-sg, L	6 6 1	120"	120"
	08-6	3/6/08	C 0-120" 2.5Y 6/2 s, 0-sg, L	1	120"	120"
	08-7	3/6/08	C1 0-18" 2.5Y 5/3 s, 0-sg, L C2 18-46" 2.5Y 5/4 cos, 0-sg, L C3 46-120" 2.5Y 6/3 s, 0-sg, L	1 1 1	120"	120"
	08-8	3/6/08	C1 0-44" 2.5Y 5/3 s, 0-sg, L C2 44-120" 2.5Y 5/4 cos, 0-sg, L	1 1	120"	120"
	08-9	3/6/08	C1 0-38" 2.5Y 5/3 s, 0-sg, L C2 38-120" 2.5Y 6/4 cos, 0-sg, L	1 1	120"	120"
	08-10	3/6/08	C1 0-12" 2.5Y 5/3 s, 0-sg, L C2 12-60" 2.5Y 5/4 cos, 0-sg, L C3 60-120" 2.5Y 6/3 s, 0-sg, L	1 1 1	120"	120"
	08-11	3/6/08	C1 0-40" 2.5Y 5/4 cos, 0-sg, L C2 40-120" 2.5Y 6/3 s, 0-sg, L	1 1	96"	120"
	08-12	3/6/08	C1 0-36" 2.5Y 5/3 cos, 0-sg, L C2 36-84" 2.5Y 6/3 lfs, 0-m, fri C3 84-120" 2.5Y 6/2 lvfs, 0-sg, L	1 6 2	84"	120"
	08-13	3/6/08	C1 0-60" 2.5Y 5/4 cos, 0-sg, L C2 60-120" 2.5Y 6/3 ls, 0-m, vfr	1 6	120"	120"

Lot No.	Test Hole No.	Date Excavated	Soil Description by Horizon, Depth, Color, Re-dox features, Texture, Structure and Consistence (ex., Bw1, 12"-20", 10YR 5/4, fnd wrc, sl, wsb kc, fr)	Soil Category (each horizon)	SHWT Depth	Total Depth
	08-14	3/6/08	C1 0-12" 2.5Y 5/3 s, 0-sg, L C2 12-44" 2.5Y 5/4 cos, 0-sg, L C3 44-120" 2.5Y 6/3 s, 0-sg, L	1 1 1	120"	120"
	08-15	3/6/08	Ap 0-8" 10YR 3/3 sl, 1-gr, vfr Bw1 8-40" 10YR 4/6 sl, 1-gr, vfr Bw2 40-54" 10YR 5/6 ls, 0-m, fri C1 54-96" 2.5Y 5/3 s, 0-sg, L C2 96-120" 2.5Y 5/4 cos, 0-sg, L	3 3 3 1 1	96"	120"
	08-16	3/6/08	Ap 0-10" 10YR 3/2 sl, 1-gr, vfr Bw 10-60" 10YR 4/6 sl, 1-gr, vfr C1 60-96" 2.5Y 5/4 cos, 0-sg, L C2 96-120" 2.5Y 5/3 cos, 0-sg, L	3 3 1 1	96"	120"
	08-17	3/6/08	A 0-4" 10YR 3/3 sl, 1-gr, vfr Bw 4-36" 10YR 4/6 sl, 1-gr, vfr C1 36-80" 10YR 5/4 cos, 0-sg, L C2 80-120" 2.5Y 6/3 s, 0-sg, L	3 3 1 1	96"	120"
	08-18	3/6/08	Ap 0-6" 10YR 3/2 sl, 1-gr, vfr Bw 6-26" 10YR 4/6 sl, 1-sg, vfr C1 26-92" 2.5Y 6/3 s, 0-sg, L C2 92-120" 2.5Y 5/4 gcos, 0-sg, L	3 3 1 1	96"	120"
	08-19	3/6/08	Ap 0-6" 10YR 3/2 sl, 1-gr, vfr Bw 6-32" 10YR 4/6 ls, 1-gr, vfr C1 32-78" 2.5Y 6/2 s, 0-sg, L C2 78-120" 2.5Y 5/4 gcos, 0-sg, L	3 3 1 1	120"	120"
	08-20	3/6/08	Ap 0-10" 10YR 3/2 sl, 1-gr, vfr Bw 10-28" 10YR 4/6 ls, 1-gr, vfr C1 28-42" 2.5Y 6/4 s, 0-sg, L C2 42-120" 2.5Y 6/2 s, 0-sg, L	3 3 1 1	120"	120"
	08-21	3/6/08	Ap 0-7" 10YR 3/4 sl, 1-gr, vfr Bw 7-36" 10YR 4/6 ls, 1-gr, vfr C1 36-78" 2.5Y 6/4 s, 0-sg, L C2 78-120" 2.5Y 6/3 cos, 0-sg, L	3 3 1 1	120"	120"
	08-22	3/6/08	Ap 0-10" 10YR 3/3 sl, 1-gr, vfr Bw 10-28" 10YR 4/6 ls, 1-gr, vfr C1 28-72" 2.5Y 5/3 ls, 0-m, fri C2 72-120" 2.5Y 6/2 cbls, 0-m, fri	3 3 6 6	120"	120"
	08-23	3/6/08	Ap 0-6" 10YR 3/3 sl, 1-gr, vfr Bw 6-30" 10YR 4/6 sl, 1-gr, vfr C 30-120" 2.5Y 5/3 ls, 0-sg, L	3 3 1	120"	120"
	08-24	3/6/08	A 0-3" 10YR 3/2 sl, 1-gr, vfr Bw 3-22" 10YR 4/4 ls, 1-gr, vfr C1 22-72" 2.5Y 5/4 gcbcos, 0-sg, L C2 72-120" 2.5Y 5/4 gcos, 0-sg, L	3 3 1 1	120"	120"
	08-25	3/6/08	Ap 0-3" 10YR 3/3 sl, 1-gr, fri Bw 3-26" 10YR 4/6 ls, 1-gr, fri C1 26-96" 2.5Y 5/3 cbs, 0-sg, L C2 96-120" 2.5Y 5/4 gcos, 0-sg, L	3 3 1 1	96"	120"
	08-26	3/6/08	A 0-3" 10YR 3/3 sl, 1-gr, vfr Bw 3-27" 10YR 4/6 ls, 1-gr, vfr C1 27-96" 2.5Y 5/4 cbcos, 0-sg, L C2 96-120" 2.5Y 5/4 gcb, 0-sg, L	3 3 1 1	96"	120"
	08-27	3/6/08	A 0-3" 10YR 3/3 sl, 1-gr, fri Bw 3-30" 10YR 4/6 ls, 1-gr, fri C1 30-96" 2.5Y 5/3 gcos, 0-sg, L C2 96-120" 2.5Y 5/4 cbs, 0-sg, L	3 3 1 1	96"	120"
	08-28	3/6/08	A 0-4" 10YR 3/3 sl, 0-m, fri Bw 4-28" 10YR 4/4 sl, 0-m, fri C1 28-72" 2.5Y 5/4 gcb, 0-sg, L C2 72-120" 2.5Y 4/4 cbls, 0-sg, L	3 3 1 1	72"	120"
	08-29	3/6/08	A 0-3" 10YR 3/3 sl, 1-sbk, fri Bw 3-29" 10YR 4/6 ls, 1-sbk, fri C1 29-66" 2.5Y 5/4 gcb, 0-sg, L C2 66-120" 2.5Y 4/4 gcb, 0-sg, L	3 3 1 1	60"	120"
	08-30	3/6/08	A 0-4" 10YR 3/3 sl, 1-sbk, fri Bw 4-28" 10YR 4/4 sl, 1-sbk, fri C1 28-72" 2.5Y 5/4 gcb, 0-sg, L C2 72-120" 2.5Y 4/4 cbls, 0-sg, L	3 3 1 1	60"	120"
	08-31	3/6/08	A 0-3" 10YR 3/3 sl, 1-sbk, fri Bw 3-26" 10YR 4/4 sl, 1-sbk, fri C1 26-78" 2.5Y 5/4 g, 0-sg, L C2 78-120" 2.5Y 4/4 gcb, 0-sg, L	3 3 1 1	72"	120"

EXHIBIT 17



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
235 Promenade Street
Providence, Rhode Island 02908

December 20, 2022

Envine, LLC
Lawrence C. LaBlanc, Manager
P.O. Box 1299
Charlestown, RI 02813

Insignificant Alteration – Permit

RE: Wetland Application No. 21-0063, and RIPDES File No. RIR102171, for the property and project located:

Approximately 5,000 feet southwest of the intersection of Worden's Pond Road and Leisure Drive and approximately 3,400 feet northeast of the intersection of Gravelly Hill Road and Shannock Road, Assessor's Plat 65 Lots 3 and 5, South Kingstown, RI.

Dear Mr. LaBlanc:

Kindly be advised that the Department of Environmental Management's ("DEM") Freshwater Wetlands Program ("Program") has completed its review of your **Request for Preliminary Determination** application. This review included a site inspection of the above referenced property ("subject property") and an evaluation of the proposed 285-unit retirement community and nine (9) hole golf course with associated dwellings, septic systems, recreational areas and buildings, roadways, driveways, utilities, landscaping and stormwater control structures as illustrated and detailed on site plans submitted with your application. These site plans were received by the DEM on August 1, 2022.

Our observations of the subject property, review of the site plans and evaluation of the proposed project reveals that alterations of freshwater wetlands are proposed. However, pursuant to 250-RICR-150-15-1.9 of the Rules and Regulations Governing the Administration and Enforcement of the Fresh Water Wetlands Act, 250-RICR-150-15-1, this project may be permitted as an **insignificant alteration** to freshwater wetlands under the following terms and conditions:

Terms and Conditions for Wetlands Application No. 21-0063:

1. This letter is the DEM's permit for this project under the R.I. Fresh Water Wetlands Act, R.I. Gen. Laws § 2-1-18 et seq.
2. This determination also includes your final authorization to discharge storm water associated with construction activity under the **2020 RIDPES General Permit for Stormwater Discharge During Construction Activity ("CGP")**. For future references and inquiry, your permit authorization number is RIPDES No. **RIR102171**.

3. This permit is specifically limited to the project, site alterations and limits of disturbance as detailed on the site plans submitted with your application and received by the DEM on August 1, 2022. A copy of the site plans stamped approved by the DEM is enclosed. Changes or revisions to the project that would alter freshwater wetlands are not authorized without a permit from the DEM.
4. Where the terms and conditions of the permit conflict with the approved site plans, these terms and conditions shall be deemed to supersede the site plans.
5. You must notify this Program in writing of the anticipated start date, and of your contractor's contact information, by submitting the Notice of Start of Construction Form prior to commencement of any permitted site alterations or construction activity. You must also notify this Program in writing upon completion of the project. The Start of Construction Form can be found on the webpage: dem.ri.gov/stormwaterconstruction
6. A copy of the stamped approved site plans and a copy of this permit must be kept at the site at all times during site preparation, construction, and final stabilization. Copies of this permit and the stamped approved plans must be made available for review by any DEM or city/town representative upon request.
7. Within ten (10) days of the receipt of this permit, you must record this permit in the land evidence records of the Town of South Kingstown and supply this Program with written documentation obtained from the Town showing this permit was recorded.
8. The effective date of this permit is the date this letter was issued. This permit expires four (4) years from the date of this letter unless renewed pursuant to the Rules.
9. Any material utilized in this project must be clean and free of matter that could pollute any freshwater wetland.
10. Prior to commencement of site alterations, you shall erect or post a sign resistant to the weather and at least twelve (12) inches wide and eighteen (18) inches long, which boldly identifies the initials "DEM" and the application number of this permit. This sign must be maintained at the site in a conspicuous location until such time that the project is complete.
11. Temporary erosion and sediment controls detailed or described on the approved site plans shall be properly installed at the site prior to or commensurate with site alterations. Such controls shall be properly maintained, replaced, supplemented, or modified as necessary throughout the life of this project to minimize soil erosion and to prevent sediment from being deposited in any wetlands not subject to disturbance under this permit.
12. Upon permanent stabilization of all disturbed soils, temporary erosion and/or sediment controls must be removed.
13. You are responsible for the proper installation, operation, maintenance and stability of any mitigative features, stormwater treatment facilities, and systems of treatment and control that are installed or used in compliance with this permit to prevent harm to adjacent wetlands until documentation is provided that this responsibility has been assigned to another entity.

14. You are obligated to install, utilize and follow all best management practices detailed or described on the approved site plans in the construction of the project to minimize or prevent adverse impacts to any adjacent freshwater wetlands and the functions and values provided by such wetlands.
15. The long-term operation and maintenance plan shall be strictly followed. The long-term O & M Plan shall be that entitled, " Stormwater System Operation & Maintenance Plan, South Shore Village Re-permitting, Located in South Kingstown, RI; Applicant Envine, LLC", dated July 27, 2022, and received by this Program on August 1, 2022, indicated as prepared by DiPrete Engineering.
16. You must provide written certification from a registered land surveyor or registered professional engineer that the stormwater drainage system including any and all basins, piping systems, catch basins, culverts, swales and any other stormwater management control features have been constructed/installed in accordance with the site plans approved by this permit. This written certification must be submitted to this Program within twenty (20) days of its request or upon completion of the project.
17. Artificial lighting authorized by this permit must be directed away from all vegetated wetland areas. Where this is not possible, the use of deflectors to concentrate lighting away from vegetated wetlands must be employed.
18. You are required to employ a Professional Golf Course Superintendent who has obtained a R.I. Pesticide License for the purpose of implementing the Turf Management Program and Integrated Pest Management Program.
19. This Program has made specific revisions to the approved site plans. These revisions are clearly marked in red on the approved plans. Specifically, each sheet of the plan set has been renumbered to reflect a total of 13 sheets.

Please be advised that there are three areas currently on-site where the Limit of Disturbance is not consistent with the approved site plans as depicted. The observed activities in these three areas represent unauthorized alterations of freshwater wetlands on the subject property. None of these areas are of a significant enough concern to warrant enforcement proceedings at this time. You are however, hereby instructed to correct these areas of unauthorized work by undertaking the following measures:

- 1) Silt has eroded and has breached the silt fence in the immediate vicinity of wetland flag number WF-117A. The silt that has been transported beyond the silt fence barrier into Perimeter Wetland must be removed by hand and the fence repaired to prevent additional erosion from entering the subject wetland area. **This must be accomplished as soon as possible, season permitting, but no later than January 6, 2023.**
- 2) Clearing and grading beyond the approved limit of disturbance into Perimeter Wetland has occurred in the vicinity of wetland flags WF-113A and WF-114A. This area measures approximately 10 feet north/south by approximately 20 feet east/west; approximately 200 square feet total. This area of Perimeter Wetland must be replanted with native shrub species consistent with the surrounding shrub vegetation. The selected shrubs shall be no less than 4 feet tall after planting and placed no more than 8 feet on center (a total of at least 6 plants).
- 3) Clearing and grading beyond the approved limit of disturbance into Perimeter Wetland has occurred in the vicinity of wetland flags WF-65D and WF-66D. This area measures approximately 16 feet north/south by approximately 40 feet east/west; approximately 640 square feet total. This area of Perimeter Wetland must be replanted with native shrub species consistent with the surrounding shrub vegetation. The selected shrubs shall be no less than 4 feet tall after planting and placed no more than 8 feet on center (a total of at least 17 plants).

All restoration plantings noted herein must be installed no later than May 1, 2023. Please contact this office upon completion of the required plantings so that a representative of this Program can conduct a compliance inspection of the aforementioned areas.

Pursuant to the provisions in 250-RICR-150-15-1.7(A)(9) and 250-RICR-150-15-1.11(D), as applicable, any properly recorded and valid permit is automatically transferred to the new owner upon sale of the property.

Please be aware that the RIDEM's Rules and Regulations Governing the Establishment of Various Fees (250-RICR-30-00-1) require that RIPDES CGP permit holders to pay an Annual Fee of \$100.00. An invoice will be sent to the owner on record in May/June of each year if the construction was still active as of December 31st of the previous year. The owner will be responsible for the Annual Fee until the construction activity has been completed, the site has been properly stabilized, and a completed Notice of Termination (NOT) has been received by the RIPDES Program.

You are required to comply with the terms and conditions of this permit and to carry out this project in compliance with the Rules at all times. Failure to do so may result in an enforcement action by this Department.

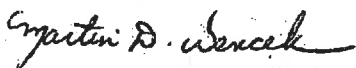
In permitting the proposed alterations, the DEM assumes no responsibility for damages resulting from faulty design or construction.

Kindly be advised that this permit is not equivalent to a verification of the type or extent of freshwater wetlands on site. Should you wish to have the types and extent of freshwater wetlands verified, you may submit the appropriate application in accordance with 250-RICR-150-15-1.8(C).

This permit does not remove your obligation to obtain any local, state, or federal approvals or permits required by ordinance or law and does not relieve you from any duties owed to adjacent landowners with specific reference to any changes in drainage.

Please contact Jane Kelly of this office (telephone: 401-222-4700, ext. 27777420) should you have any questions regarding this letter.

Sincerely,



Martin D. Wencek, Program Supervisor
Office of Water Resources
Freshwater Wetlands Program
MDW/JEK/jek

Enclosure: Approved site plans

cc: Ron Cutlip, Managing On-Site Golf Course Architect
Jamie Gorman, South Kingstown Building Official
Richard Bourbonnais, South Kingstown Public Works Director
Christopher Duhamel, DiPrete Engineering
Nick Pisani, DEM, Stormwater Program

EXHIBIT 18

South Kingstown, Rhode Island
South Shore Village

June 2023

TRAFFIC IMPACT STUDY



BETA

701 George Washington Hwy
Lincoln, Rhode Island 02865
401.333.2382
www.BETA-Inc.com

Proposed Mixed-Use Development

South Shore Village Retirement Community
South Kingstown, Rhode Island

TRAFFIC IMPACT STUDY

Prepared by: BETA GROUP, INC.

Prepared for: Mr. Larry Leblanc
Envine, LLC
PO Box 1299
Charlestown, RI 02813

June 2023



June 30, 2023

Mr. Larry Leblanc
Envine, LLC
PO Box 1299
Charlestown, RI 02813

Re: Proposed Mixed-Use Development
South Shore Village Retirement Community
South Kingstown, Rhode Island

Dear Mr. Leblanc,

BETA Group, Inc., in accordance with our scope of services, has completed a traffic impact study for a proposed mixed-use development project in the Town of South Kingstown, Rhode Island. The site is located along the northerly side of Gravelly Hill Road abutting the Tuckertown Village retirement community to the north. The property is defined by Assessor's Plat 65, Lots 2-5, 13 and 15 that together contain approximately 265 acres of partially developed land.

Based upon our discussions, it is our understanding that the retirement community project that was fully approved and has been under construction since 2015, is proposing a modification to the golf course element of the project. The golf course was originally approved for use only by the village community residents, but now is being considered for use by the general public. The roadway infrastructure and over 60 percent of the homes have been constructed to date. It is anticipated that the golf course, and remainder of the homes will be completed within a two year period. Access and egress to the residential community will remain unchanged with the primary entrance at the existing South Shore Village Boulevard intersection with Gravelly Hill Road and Shannock Road. A secondary access connection will also be provided to the north via Leisure Drive.

The study included herein, was conducted to determine the adequacy of the existing servicing roadways to accommodate anticipated additional traffic that would be generated by allowing public access to the nine-hole golf course, and as an update to the original study, completion of the remaining residential units within the retirement community. An analysis of potential impacts to the roadway capacity and safety has been completed and is discussed in the following report.

Very truly yours,
BETA Group, Inc.

A handwritten signature in black ink, appearing to read "Paul J. Bannon", is written over a light blue circular stamp.

Paul J. Bannon
Associate

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1.0 INTRODUCTION

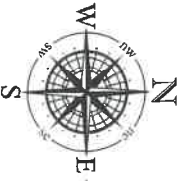
The objective of the following study is to assess the potential traffic impacts associated with changes being requested as part of mixed-use residential/recreational development in the Town of South Kingstown, Rhode Island. The residential retirement community, *South Shore Village*, is situated on a 265 acre property off of Gravelly Hill Road. The development that includes a nine hole golf course, was approved in 2007. Initially, the project's recreational facilities were to be limited to village residents only, and the purpose of this study is to investigate potential traffic impacts associated permitting use of the golf course by the general public.

Construction of the project was initiated in 2015, and it is being developed in five phases. To date Phases 1 through 3 and a portion of Phase 4 representing over 60 percent of the 303 residential units have been completed and are occupied. Currently, the nine-hole golf course, clubhouse and 11 homes are under construction. The remainder of the homes are anticipated to be completed within a two year period.

The study summarized herein focused on both traffic flow efficiency and safety within the immediate vicinity of the subject property, including the existing site access road. The potential impacts associated with the site related traffic have been defined and evaluated in accordance with standard traffic engineering guidelines and procedures.

The traffic engineering study completed for this project included the following:

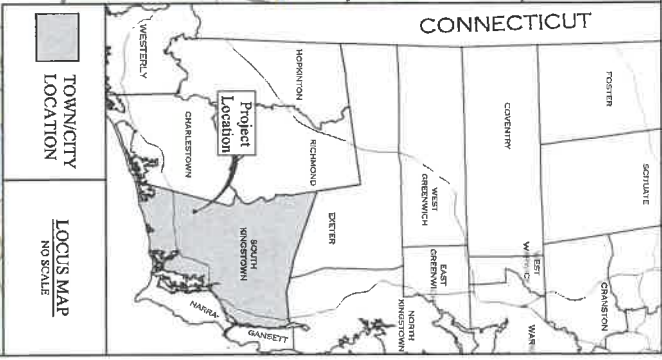
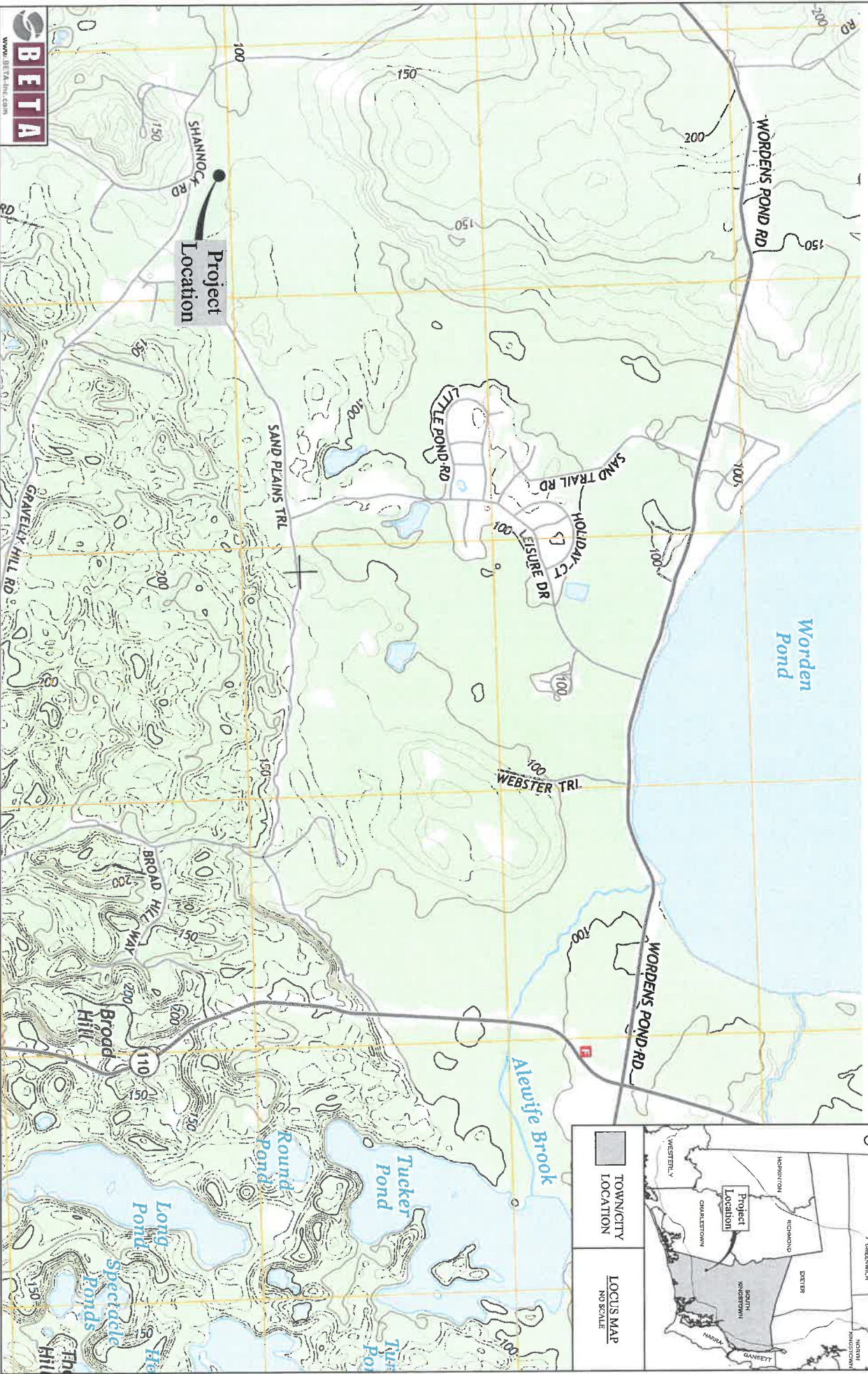
- A traffic counting program to define the existing traffic patterns and operational characteristics along the servicing roadways. The data collection included Automatic Traffic Recorder (ATR) counts on Gravelly Hill Road and Shannock Road, and peak hour manual Turning Movement Counts (TMC) at the intersection of Gravelly Hill Road with Shannock Road and South Shore Village Boulevard.
- An inventory of the physical roadway characteristics of Gravelly Hill Road and Shannock Road in the project area to determine the adequacy of the existing roadway geometric features in reference to safety and operations.
- An analysis of crash records obtained from the South Kingstown Police Department to determine if there are any safety concerns relative to the frequency, severity, or pattern of crashes in the project area.
- An estimate of future traffic volumes for the proposed mixed-use development was calculated using data from the *Trip Generation Manual*, an informational report published by the Institute of Transportation Engineers (ITE).
- Evaluation and analysis of the traffic safety and operations for the existing and future traffic conditions and development of recommendations where necessary, that would be required to maintain safe and efficient traffic flow in the project area.



South Shore Village

SOUTH KINGSTOWN, RHODE ISLAND

Figure 1 - Project Vicinity Map



TOWN/CITY LOCATION
 LOCUS MAP
 NO SCALE

CONNECTICUT

2.0 PROJECT AREA

As noted in the previous section, the proposed retirement community project is located along the northerly side of Gravelly Hill Road in the vicinity of Shannock Road. The 265 acre site before construction of the subject development was primarily wooded with portions cleared and used for a small gravel operation. Since 2015 the property has been cleared further for infrastructure, housing and the golf course construction as part of the *South Shore Village* development. Figure 2 on the following page depicts the general project area, and the boundary lines of the subject property.

Land use in the immediate area can be defined as primarily rural residential in nature, with some small commercial land uses in the site vicinity. The subject property abuts wooded land to the east, single family homes to the south and east along Gravelly Hill Road, and the Tuckertown Village retirement community to the north that links to Wordens Pond Road. The study impact area will focus on the main roadways leading to the site. These roadways would include the primary access roads of Gravelly Hill Road and Shannock Road to the south, and a secondary point of access from Leisure Drive to Wordens Pond Road to the north. The analysis focused on the main study intersection of Gravelly Hill Road with Shannock Road and South Shore Village Boulevard, which will service most of the traffic demands associated with the development. South Shore Village Boulevard will provide direct access to the homes and golf course within the development from these main roadways.

3.0 EXISTING CONDITIONS

3.1 ROADWAYS

Gravelly Hill Road

Gravelly Hill Road is an east/west local road extending between its intersection with Shannock Road to the west and Post Road to the southeast. The road is primarily used by residents who live within the local rural roadway network. In the project area, Gravelly Hill Road is approximately 22-foot wide consisting of 11-foot travel lanes delineated with a double yellow centerline and no shoulders.



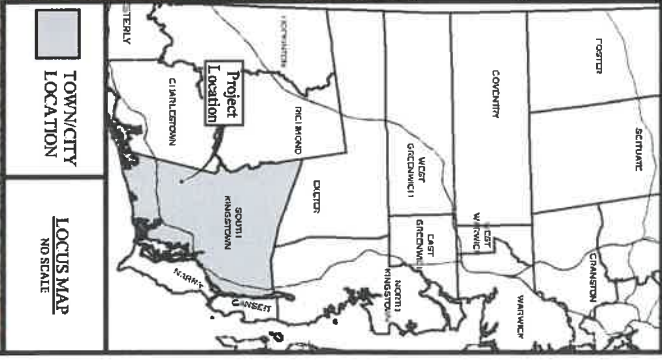
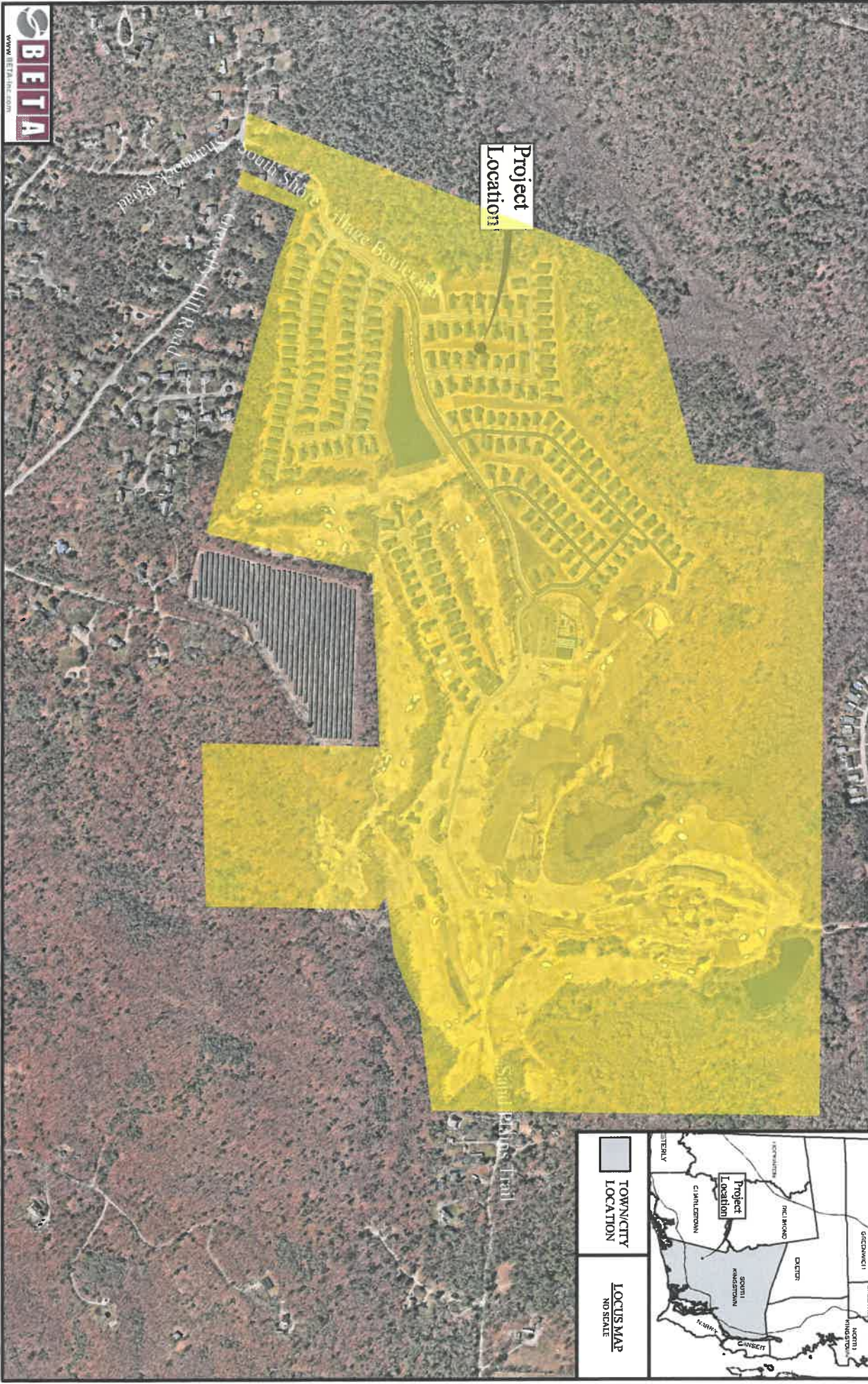
The pavement surface can be classified as being in good to fair condition along the property frontage, with instances of edge cracking and crack sealing treatments. The posted speed limit is 25 mph in the site vicinity. There is no curbing or sidewalks provided along the roadway, consistent with a rural roadway character. The photograph above depicts the typical characteristics of Gravelly Hill Road looking west.



South Shore Village

SOUTH KINGSTOWN, RHODE ISLAND

Figure 2 - Project Area Map



Shannock Road

Shannock Road is a north/south local road extending from Route 1 in South Kingstown to Route 2 in Charlestown. Similar to Gravelly Hill Road, Shannock Road is primarily used by residents travelling through the local roadway network for direct access to their homes. In the project area, Shannock Road is a variable width roadway generally 24-feet wide, consisting of 12-foot travel lanes delineated with a double yellow centerline. The pavement surface can be classified as being in fair condition along the property frontage, with instances of edge cracking, patched potholes and crack sealing treatments along the roadway. The posted speed limit is 25 mph in the site vicinity. There is no curbing or sidewalks provided along the roadway consistent with a rural residential character. The photograph above depicts the typical characteristics of Shannock Road looking north in the immediate project area.



Wordens Pond Road

Wordens Pond Road is a local, two-lane, rural minor collector road running from Ministerial Road (Route 110) to the east, to Shannock Road west of Biscuit City Road, while being bordered by Worden Pond to the north. The 25-foot wide paved roadway has typical cross section of 12.5-foot travel lanes delineated by a double yellow centerline and no defined shoulders. The alignment of the roadway can be describe as undulating and curving throughout its length. In the immediate vicinity of the access to Tuckertown Village (Leisure Drive), the roadway is relatively straight and level. Based upon a field review of the roadway within the immediate area of its intersection with Leisure Drive, the existing roadway geometry and vehicle operating characteristics promote a safe and efficient flow of traffic along Wordens Pond Road. The posted speed limit of the roadway is 25 mph.



Leisure Drive

Leisure Drive is an east/west local residential roadway serving the Tuckertown Village retirement community. The street has a variable pavement cross-section, averaging 25 feet wide with no pavement markings to provide lane delineation, typical of a neighborhood subdivision street. No curbing or sidewalks are provided along the roadway, though lighting is located adjacent to the roadway near its intersection with Wordens Pond Road. At this intersection, no stop sign is present to control traffic, however, a stop line is marked on the approach to Wordens Pond Road. Leisure Drive is posted at 20 mph and contains several speed bumps over its length. The paved roadway, which is in fair condition, extends from Wordens Pond Road



to its terminus at the subject development property line and will be extended into *South Shore Village* for a gated linkage between the residential retirement communities. The alignment of Leisure Drive can be described as relatively straight and level with no limiting factors for sight distance.

3.2 INTERSECTIONS

Gravelly Hill Road at Shannock Road and South Shore Village Boulevard

Gravelly Hill Road intersects Shannock Road and South Shore Village Boulevard to form a four way stop controlled junction. The South Shore Boulevard approach was added in 2015 to service the new development. Gravelly Hill Road comprises the eastern leg, South Shore Village Boulevard the northern leg, and Shannock Road comprises the southern and western leg. Stop signs and stop line markings are present on each of



the approaches to the intersection. Additionally, the Shannock Road approaches have advanced warning signs alerting motorists of the upcoming stop condition. Due to the low volume nature of both local roadways, the intersection was found to operate efficiently with minimal delays and no congestion.

3.3 TRAFFIC DATA

Existing traffic flow characteristics for this area were developed from a traffic counting program conducted by BETA Group in May 2023. The data collection included seven-day Automatic Traffic Recorder (ATR) counts on Gravelly Hill Road and the section of Shannock Road south of Gravelly Hill Road. A peak hour Manual Turning Movement Count (TMC) was also conducted at the intersection of Gravelly Hill Road with South Shore Village Boulevard and Shannock Road.

Based upon the May 2023 ATR data, Gravelly Hill Road was found to service approximately 320 vehicles per day (VPD). During the morning peak period between 7:00 to 10:00 AM, Gravelly Hill Road was found to steadily increase in traffic volumes with a peak of approximately 27 vehicles per hour (vph) occurring between 9:00 and 10:00 AM (9 westbound/18 eastbound). The afternoon volumes also steadily increased between 12:00 and 4:00 PM, with a peak of 27 vph occurring from 3:00 and 4:00 PM (12 westbound/15 eastbound).

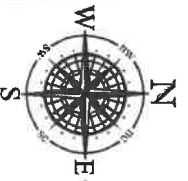
The ATR data for Shannock Road found the roadway services approximately 820 vehicles per day (VPD). During the morning peak period between 7:00 to 10:00 AM, Shannock Road increased steadily with a peak of approximately 57 vehicles per hour (vph) between 9:00 and 10:00 AM (25 northbound/32 southbound). The afternoon volumes increased between 12:00 and 4:00 PM, with a peak of 79 vph occurring from 3:00 and 4:00 PM (41 northbound/38 southbound).

Review of the June 2023 TMC data, determined that the morning peak hour at the study intersection occurred between 8:45 AM and 9:45 AM, where a total of 126 vph were serviced, while the afternoon peak hour occurred between 3:15 PM and 4:15 PM with a total of 150 vph being serviced. Based on the ATR and TMC data, the study area roadways defined experience low daily and hourly traffic volumes resulting in minimal delays for motorist travelling along the roadways and through intersections. Figure 3 on the following page depicts the morning and afternoon peak hour turning movement volumes at the study intersection utilized in our analysis. Complete count information can be found in the Appendix.

4.0 SAFETY ANALYSIS

To determine if there are any limiting factors affecting safety relating to access to the proposed mixed-use project, the physical characteristics of Shannock Road (east/west) and Gravelly Hill Road in the project area were investigated. These limiting factors would potentially include horizontal or vertical roadway geometry changes or roadside obstructions that limit sight distances for vehicles traveling along the road or entering the road from a side street or driveway location. In this instance, the sight distance standard is necessary to permit turning vehicles to safely enter and exit the site access road, South Shore Village Boulevard.

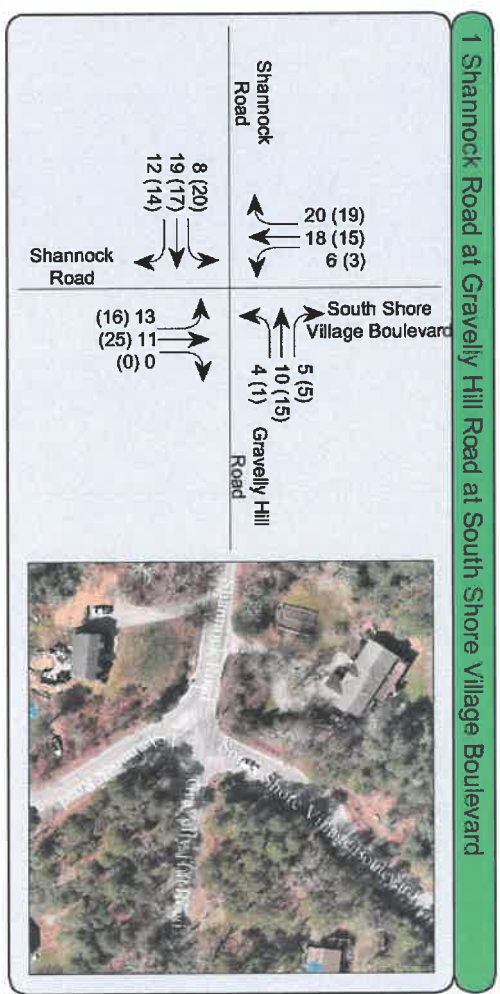
In addition to reviewing geometric roadway conditions, speed data was also obtained to determine the 85th percentile speed for drivers within the project area. The 85th percentile speed is considered as a *design speed* and represents the speed at which 85 percent of drivers are travelling at or slower and is utilized in the analysis of required sight distances. The most recent edition of the American Association



South Shore Village

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Figure 3 - Existing Traffic Volumes



of State Highway and Transportation Official's (AASHTO's) publication *A Policy on Geometric Design of Highways and Streets* is referenced for required stopping sight distances based on the design speeds for each roadway. The stopping sight distance is the minimum distance that a vehicle driving along the roadway requires in order to adequately react and safely come to a stop to avoid a collision.

The horizontal and vertical curvature of Shannock Road (east/west) and Gravelly Hill Road in the immediate vicinity of their intersection can be described as straight and level, with slight horizontal curvature to the west. Based upon the existing roadway geometry as defined, the measured sight distances along the roadways are greater than 500 feet to the east and to the west of the intersection. These values are greater than AAASHTO's recommended minimum sight distance of 155 feet for the posted speed limit of 25 mph, and the 250 feet based on the 85th percentile vehicle speed of 35 mph measured on Gravelly Hill Road in advance of the intersection. It should be noted that the intersection providing access to the site is controlled by an all-way stop condition, resulting in low speeds and no issues relative to sight lines for safe access and egress from the development.

Also, as part of the safety analysis, a review of crash statistics within the study area was completed. Data was obtained from the Town of South Kingstown Police Department for the latest full three-year period (2018, 2019, and 2022) to determine if any location in the immediate vicinity of the development experienced a high frequency or pattern of crashes. Due to the COVID-19 pandemic, the 2020 and 2021 data were not requested as traffic patterns and volumes were notably impacted and not representative of average traffic conditions. A total of one crash occurred in the project area over the three-year study period, which resulted in an injury. The single vehicle crash occurred on Shannock Road and was due to the driver speeding through a horizontal curve and veering off the road. With the defined roadway conditions and such a low frequency of crashes within the study area, there were no identifiable roadway deficiencies warranting safety enhancements.

5.0 IMPACT ANALYSIS

5.1 TRIP GENERATION

To determine the traffic impact of a proposed development, estimates of anticipated traffic to be generated by a particular land use must be calculated. As previously discussed, the proposed 265 acre development consists of 303 single residential condominium units and a nine hole golf course with clubhouse amenities. Approximately 60 percent of the residential units have been constructed to date and the traffic volumes have been captured in the updated data collection program. The golf course and the remainder of the homes will be completed over the next two years.

To be conservative in our analysis, it was assumed for this study that out of the total of 303 condominiums approved for the site, 125 residential units remain to be built and occupied, along with the nine hole golf course that is presently under construction. Access/egress to the development is provided at the existing site access road defined as South Shore Village Boulevard at its intersection with Gravelly Hill Road and Shannock Road. As noted previously a secondary gated site access is also proposed to the north with the extension of Leisure Drive from Tuckertown Village. To be conservative in our analysis, all site related

traffic was distributed to and from the south via the Gravelly Hill Road junction. Figure 4 on the following page depicts the proposed site plan for the *South Shore Village* development.

For this project, estimated traffic volumes for the mixed-use development were based on the use of trip generation data obtained from the *Trip Generation Manual*, an informational report published by the Institute of Transportation Engineers (ITE), a national professional organization for traffic and transportation engineers. The data provided in the ITE report are based on extensive traffic studies for numerous types of land uses (residential, commercial, industrial, etc.).

For the remaining residential units to be constructed, Land Use Code (LUC) 251 Senior Adult Housing – Single Family was reviewed for applicability in developing an estimate of site related vehicles trips, while Land Use Code 430 – Golf Course was utilized for the nine-hole golf course vehicle trips. It should be noted that the trips estimated for the golf course use do not account for internal capture from the residential homes in the development, and therefore represent a conservative estimate of vehicle trips entering and exiting the site for this use. Table 2 below summarizes the peak hour site trips for the remainder of the project that have been estimated utilizing the land use code data available from the *Trip Generation Manual*. The appropriate worksheets from the manual are included in the Appendix, along with the trip estimate calculations.

TABLE 1 – Trip Generation Estimate

<u>Description</u>		<u>Enter</u>	<u>Exit</u>	<u>Total</u>
<u>Weekday AM Peak Hour</u>				
ITE Land Use Code 251	Senior Adult Housing – Single Family	15	31	46
ITE Land Use Code 430	Golf Course	<u>13</u>	<u>3</u>	<u>16</u>
	Total	28	34	62
<u>Weekday PM Peak Hour</u>				
ITE Land Use Code 251	Senior Adult Housing – Single Family	32	21	53
ITE Land Use Code 430	Golf Course	<u>14</u>	<u>12</u>	<u>26</u>
	Total	46	33	79

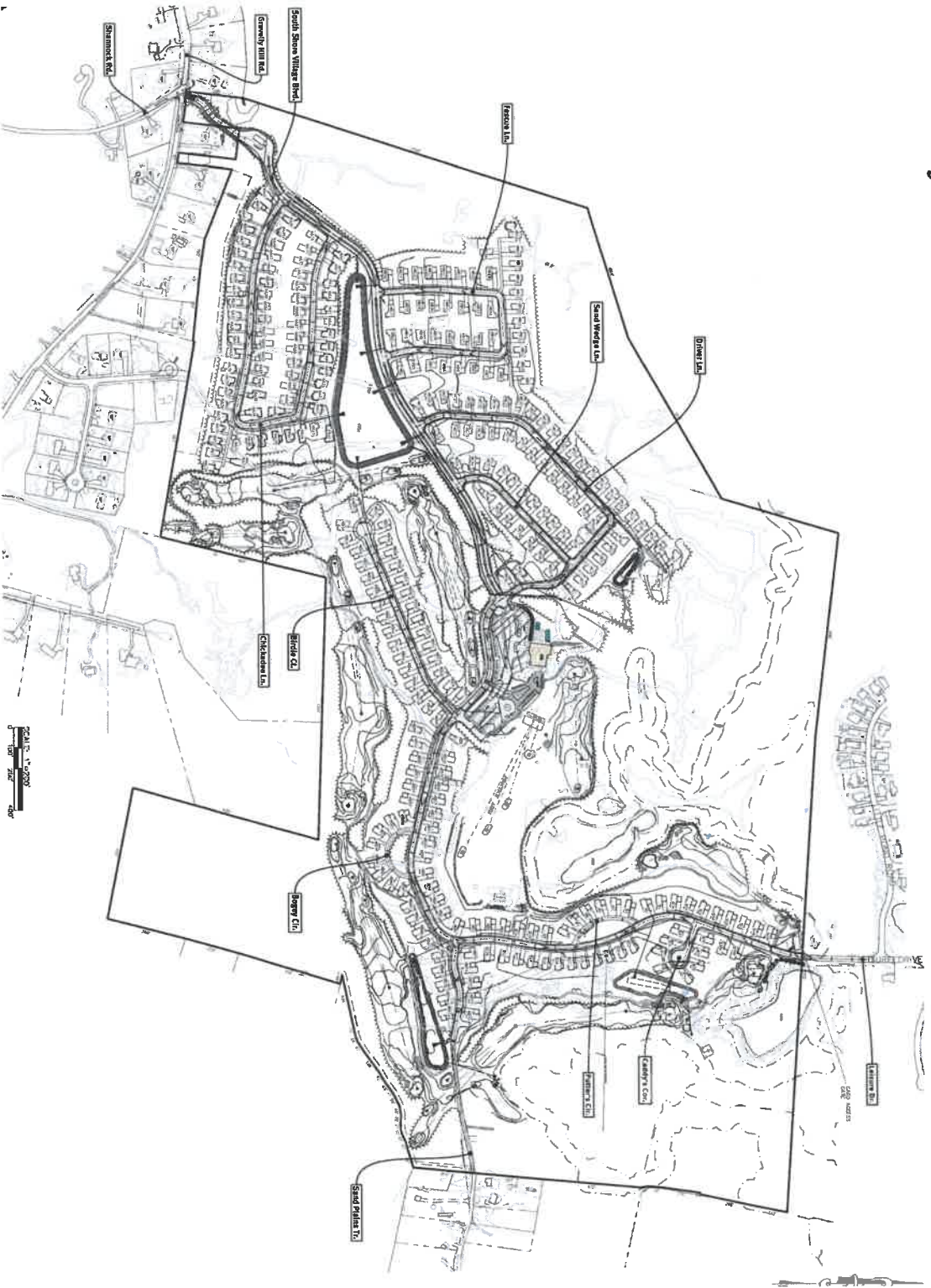
5.2 FUTURE TRAFFIC CONDITIONS

In order to properly assess the potential traffic impacts from a development, future traffic conditions of area roadways should be estimated for the period when the development is constructed and fully occupied. Typically, the expansion of base traffic is calculated when a project is to be constructed over an extended period, typically five years. The Town of South Kingstown has seen a minimal population increase of approximately 0.004 percent over the past decade, which was increased to a half percent to maintain a conservative assessment. The half percent rate was applied to the existing volumes for a five year period to establish a Future 2028 No-Build condition on the servicing roadways. The proposed

South Shore Village

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Figure 4 - Site Layout



Site Plan provided by DiPrete Engineering

residential development was then added to the No-Build values to establish the Future 2028 Build traffic condition. Figure 5 on the following page depicts the estimated future traffic volumes at the study intersection. In developing the intersection volumes to be analyzed under build conditions, trips to/from the site were assumed to be consistent with existing conditions at the intersection of Gravelly Hill Road with Shannock Road and South Shore Village Boulevard.

5.3 OPERATIONAL ANALYSIS

The key to any traffic impact analysis is the evaluation of roadway operations during peak traffic periods on the servicing roadway system. This condition would occur when the site-generated traffic, combined with the traffic volumes on the main roadway, result in the highest one-hour volume serviced along a roadway segment, or through an intersection. Review of the traffic data found that the weekday morning and afternoon peak hours would represent this worst-case combination of site-generated traffic with the servicing roadway peak traffic period.

The Highway Capacity Manual methodology provides the most accurate means of evaluating traffic capacity and delays for roadways and intersections. The results of this procedure are expressed in terms of Level of Service (LOS). Level of Service is a qualitative measure of traffic flow efficiency based on anticipated vehicle delays. For example, LOS “A” represents the best condition with little or no delay, while LOS “F” indicates that the roadway/intersection is at full capacity resulting in extended vehicle delays and potential queuing. Table 2 outlines the Level of Service delay criteria presented in the Highway Capacity Manual for signalized and unsignalized intersections.

TABLE 2 – Highway Capacity Manual Criteria

Level of Service	Unsignalized Delay Per Vehicle (sec)	Signalized Delay Per Vehicle (sec)
A	<10	<10
B	>10 and <15	>10 and <20
C	>15 and <25	>20 and <35
D	>25 and <35	>35 and <55
E	>35 and <50	>55 and <80
F	>50	>80

The study area intersection was analyzed for the weekday morning and afternoon peak hours. The capacity analysis worksheets are included in the Appendix and the results are summarized in the tables provided on the following page. Tables 3 through 5 depict the Existing, Future No-Build, and Future Build conditions, respectively, at the study intersection of Gravelly Hill Road with Shannock Road and South Shore Village Boulevard. As can be seen in the tables, the unsignalized study intersection was determined to have all critical movements operate at LOS A or better during both the morning and afternoon peak hours. This good operational condition continues under the Future No-Build and Future Build conditions, with only minimal increases in vehicle delay time experienced and no congestion at the intersection.

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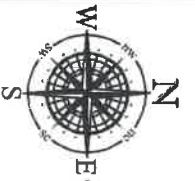
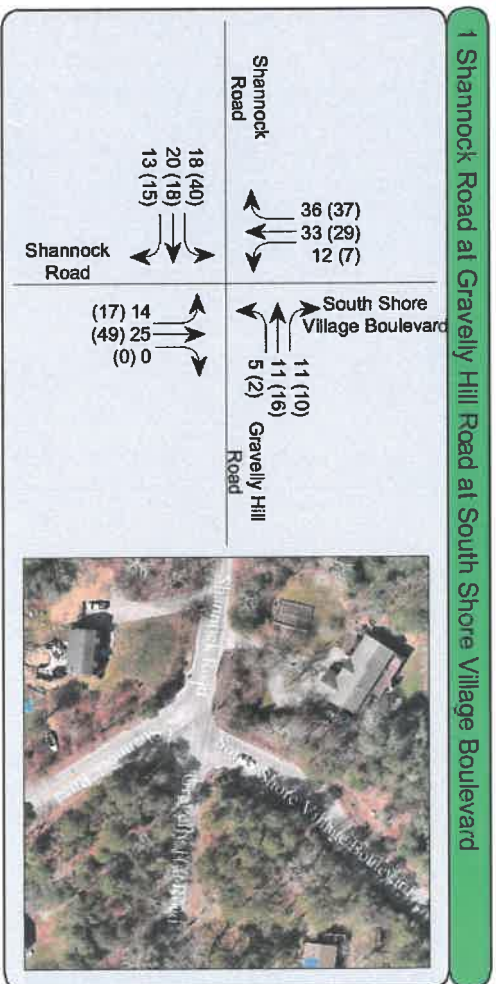


Figure 5 - Proposed Traffic Volumes



LEGEND:

- ↔ TURN LANE
- XXX AM PEAK VOLUMES (8:45 TO 9:45)
- (XXX) PM PEAK VOLUMES (3:15 TO 4:15)
- STUDY INTERSECTION

TABLE 3 – Level of Service Summary (Existing Conditions)

Location / Movement	2023 EXISTING CONDITIONS							
	AM Peak Hour				PM Peak Hour			
	LOS	Delay	95 th % Queue Length (veh.)	v/c	LOS	Delay	95 th % Queue Length (veh.)	v/c
Gravelly Hill Road at Shannock Road and South Shore Village Boulevard (U)								
Shannock Road NB I	A	7.5	1	0.03	A	7.5	1	0.06
South Shore Village Boulevard SB	A	7.1	1	0.06	A	7.3	1	0.05
Shannock Road EB	A	7.4	1	0.05	A	7.5	1	0.07
Gravelly Hill Road WB	A	7.1	1	0.02	A	7.2	1	0.03

(U) – Unsignalized

TABLE 4 – Level of Service Summary (No-Build Conditions)

Location / Movement	2028 NO-BUILD CONDITIONS							
	AM Peak Hour				PM Peak Hour			
	LOS	Delay	95 th % Queue Length (veh.)	v/c	LOS	Delay	95 th % Queue Length (veh.)	v/c
Gravelly Hill Road at Shannock Road and South Shore Village Boulevard (U)								
Shannock Road NB	A	7.5	1	0.04	A	7.6	1	0.08
South Shore Village Boulevard SB	A	7.1	1	0.06	A	7.4	1	0.06
Shannock Road EB	A	7.4	1	0.06	A	7.5	1	0.08
Gravelly Hill Road WB	A	7.1	1	0.03	A	7.3	1	0.03

(U) – Unsignalized

TABLE 5 – Level of Service Summary (Build Conditions)

Location / Movement	2028 BUILD CONDITIONS							
	AM Peak Hour				PM Peak Hour			
	LOS	Delay	95 th % Queue Length (veh.)	v/c	LOS	Delay	95 th % Queue Length (veh.)	v/c
Gravelly Hill Road at Shannock Road and South Shore Village Boulevard (U)								
Shannock Road NB	A	7.7	1	0.06	A	7.9	1	0.10
South Shore Village Boulevard SB	A	7.4	1	0.10	A	7.7	1	0.10
Shannock Road EB	A	7.7	1	0.07	A	7.9	1	0.11
Gravelly Hill Road WB	A	7.2	1	0.04	A	7.4	1	0.04

(U) – Unsignalized

6.0 CONCLUSIONS AND RECOMMENDATIONS

In summary, the study has shown that the proposed mixed-use development project access and circulation plan has been designed to provide a level of traffic safety and efficiency on the servicing roadway system. The safety of the study intersection of Gravelly Hill Road with Shannock Road and South Shore Village Boulevard was reviewed for geometry and sight distances. This intersection was determined to provide sufficient sight distances in accordance with AASHTO criteria for visibility and decision making of drivers attempting to enter/exit main street traffic from a minor approach. Analysis of the crash data revealed a low frequency of occurrence in crashes within the study area and no discernible trends that warrant mitigation.

The results of the operational analysis determined that the estimated increase in peak hour traffic resulting from completion of the residential retirement community including the 9-hole golf course will have a negligible effect on overall traffic operations along Gravelly Hill Road and Shannock Road in the project area and specifically at their junction. The study intersection is estimated to operate efficiently with minor delays particularly during the daily morning and afternoon peak hours when the development project was estimated to generate its highest daily traffic volumes in combination with adjacent street traffic peaks.

Therefore, based upon the data collected on the servicing roadways, the analysis completed as part of this study, it can be concluded that the future traffic conditions resulting from the proposed *South Shore Village* retirement community project will provide for adequate and safe access to a public street, and will not have a detrimental effect on public safety and welfare in the study area.

i

¹Aerial Images provided in this document were obtained from *Nearmap*.

APPENDIX

- A. Traffic Volume Data
- B. Traffic Crash Data
- C. Trip Generation
- D. Operational Analysis

APPENDIX A – Traffic Volume Data

Automatic Traffic Recorder Count

Shannock Road (North / South)

Gravelly Hill Road

Turning Movement Count

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard

A

Automatic Traffic Recorder Count

Shannock Road (North / South)

Gravelly Hill Road

Shannock Road (North / South)

Traffic Volumes

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Time	5/15/23 Mon	5/16/23 Tue	5/17/23 Wed	5/18/23 Thu	5/19/23 Fri	Weekday Average	5/20/23 Sat	5/21/23 Sun
12:00 AM	*	*	*	4	2	3	6	4
01:00	*	*	*	2	1	2	4	0
02:00	*	*	*	1	1	1	1	1
03:00	*	*	*	1	0	0	3	1
04:00	*	*	*	1	3	2	2	0
05:00	*	*	*	4	6	5	7	1
06:00	*	*	*	31	27	29	25	6
07:00	*	*	*	33	37	35	24	18
08:00	*	*	*	72	59	66	40	28
09:00	*	*	*	61	60	60	40	48
10:00	*	*	1	48	59	36	58	54
11:00	*	*	70	72	64	69	53	64
12:00 PM	*	*	71	69	70	70	53	69
01:00	*	*	63	62	71	65	53	79
02:00	*	*	66	75	59	67	40	64
03:00	*	*	79	85	82	82	31	87
04:00	*	*	69	69	80	73	46	63
05:00	*	*	51	63	71	62	45	40
06:00	*	*	35	46	66	49	31	37
07:00	*	*	37	40	35	37	28	24
08:00	*	*	15	28	39	27	23	21
09:00	*	*	11	16	27	18	13	4
10:00	*	*	9	2	26	12	7	4
11:00	*	*	7	8	10	8	2	6
Total	0	0	584	893	955	878	635	723
Percent	0.0%	0.0%	66.5%	101.7%	108.8%		72.3%	82.3%
AM Peak			11:00	08:00	11:00	11:00	10:00	11:00
Volume			70	72	64	69	58	64
PM Peak			03:00	03:00	03:00	03:00	12:00 PM	03:00
Volume			79	85	82	82	53	87

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Time	5/22/23 Mon	5/23/23 Tue	5/24/23 Wed	5/25/23 Thu	5/26/23 Fri	Weekday Average	5/27/23 Sat	5/28/23 Sun
12:00 AM	3	5	1	*	*	3	*	*
01:00	1	0	2	*	*	1	*	*
02:00	2	0	0	*	*	1	*	*
03:00	0	0	0	*	*	0	*	*
04:00	1	1	1	*	*	1	*	*
05:00	9	10	10	*	*	10	*	*
06:00	33	34	28	*	*	32	*	*
07:00	36	42	46	*	*	41	*	*
08:00	50	42	64	*	*	52	*	*
09:00	41	57	61	*	*	53	*	*
10:00	42	68	42	*	*	51	*	*
11:00	54	55	33	*	*	47	*	*
12:00 PM	65	74	1	*	*	47	*	*
01:00	54	49	*	*	*	52	*	*
02:00	52	47	*	*	*	50	*	*
03:00	67	84	*	*	*	76	*	*
04:00	53	67	*	*	*	60	*	*
05:00	60	58	*	*	*	59	*	*
06:00	45	57	*	*	*	51	*	*
07:00	30	32	*	*	*	31	*	*
08:00	24	19	*	*	*	22	*	*
09:00	9	13	*	*	*	11	*	*
10:00	5	10	*	*	*	8	*	*
11:00	1	2	*	*	*	2	*	*
Total	737	826	289	0	0	761	0	0
Percent	96.8%	108.5%	38.0%	0.0%	0.0%		0.0%	0.0%
AM Peak	11:00	10:00	08:00			09:00		
Volume	54	68	64			53		
PM Peak	03:00	03:00	12:00 PM			03:00		
Volume	67	84	1			76		

Project Name: South Shore Village
 Town / City: State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

5/15/2023 Time	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1:00	*	*	*	*	*	*	4	2	0	2	0	3	6	0	4	0
2:00	*	*	*	*	*	*	2	0	0	1	0	2	0	3	0	0
3:00	*	*	*	*	*	*	1	0	0	0	1	0	0	0	1	0
4:00	*	*	*	*	*	*	0	1	0	0	0	0	2	1	1	0
5:00	*	*	*	*	*	*	1	0	0	0	0	0	1	1	0	0
6:00	*	*	*	*	*	*	1	3	2	2	2	4	5	2	0	1
7:00	*	*	*	*	*	*	10	21	9	9	10	20	9	10	0	6
8:00	*	*	*	*	*	*	9	24	8	8	8	26	10	14	4	14
9:00	*	*	*	*	*	*	19	53	18	18	18	47	11	29	10	18
10:00	*	*	*	*	*	*	32	29	37	37	28	33	16	16	14	34
11:00	*	*	*	*	*	*	18	30	24	23	14	22	19	19	22	32
12:00 PM	*	*	*	*	*	*	30	42	34	40	30	38	18	18	35	37
1:00	*	*	*	*	*	*	43	30	38	33	31	35	27	26	27	42
2:00	*	*	*	*	*	*	30	31	34	40	30	35	26	27	37	32
3:00	*	*	*	*	*	*	44	44	31	30	37	30	18	22	34	30
4:00	*	*	*	*	*	*	48	48	37	36	46	39	12	19	42	45
5:00	*	*	*	*	*	*	32	37	37	39	41	35	14	32	42	30
6:00	*	*	*	*	*	*	31	32	32	37	34	33	18	27	33	21
7:00	*	*	*	*	*	*	22	22	24	43	25	24	12	19	23	14
8:00	*	*	*	*	*	*	26	14	14	24	23	14	10	18	9	15
9:00	*	*	*	*	*	*	19	9	9	23	17	10	12	11	15	6
10:00	*	*	*	*	*	*	11	5	11	11	10	8	3	10	4	0
11:00	*	*	*	*	*	*	1	1	5	5	4	8	4	3	2	2
Total	0	0	0	0	0	0	428	465	444	511	412	465	258	377	342	381
Day	0	0	0	0	0	0	893	955	877	877	877	635	723	723	723	723
AM Peak	11:00		11:00		11:00		9:00		11:00		8:00		10:00		11:00	
Volume	27		43		27		32		34		30		19		27	
PM Peak	3:00		12:00 PM		3:00		12:00 PM		6:00		3:00		12:00 PM		3:00	
Volume	45		38		48		38		43		46		27		42	

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

5/22/2023 Time	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	2	1	4	1	1	0	*	*	*	*	2	1	*	*	*	*
1:00	1	0	0	0	2	0	*	*	*	*	1	0	*	*	*	*
2:00	0	2	0	0	0	0	*	*	*	*	0	1	*	*	*	*
3:00	0	0	0	0	0	0	*	*	*	*	0	0	*	*	*	*
4:00	1	0	0	0	0	1	*	*	*	*	0	1	*	*	*	*
5:00	3	6	4	6	3	7	*	*	*	*	3	6	*	*	*	*
6:00	11	22	12	22	10	18	*	*	*	*	11	21	*	*	*	*
7:00	8	28	10	32	13	33	*	*	*	*	10	31	*	*	*	*
8:00	12	38	11	31	15	49	*	*	*	*	13	39	*	*	*	*
9:00	18	23	21	36	26	35	*	*	*	*	22	31	*	*	*	*
10:00	16	26	17	51	17	25	*	*	*	*	17	34	*	*	*	*
11:00	26	28	21	34	14	19	*	*	*	*	20	27	*	*	*	*
12:00 PM	32	33	42	32	0	1	*	*	*	*	25	22	*	*	*	*
1:00	27	27	23	26	*	*	*	*	*	*	25	26	*	*	*	*
2:00	25	27	21	26	*	*	*	*	*	*	23	26	*	*	*	*
3:00	36	31	42	42	*	*	*	*	*	*	39	36	*	*	*	*
4:00	26	27	33	34	*	*	*	*	*	*	30	30	*	*	*	*
5:00	36	24	39	19	*	*	*	*	*	*	38	22	*	*	*	*
6:00	25	20	34	23	*	*	*	*	*	*	30	22	*	*	*	*
7:00	14	16	20	12	*	*	*	*	*	*	17	14	*	*	*	*
8:00	17	7	13	6	*	*	*	*	*	*	15	6	*	*	*	*
9:00	6	3	8	5	*	*	*	*	*	*	7	4	*	*	*	*
10:00	3	2	7	3	*	*	*	*	*	*	5	2	*	*	*	*
11:00	1	0	1	1	*	*	*	*	*	*	1	0	*	*	*	*
Total	346	391	383	443	101	188	0	0	0	0	354	402	0	0	0	0
Day	737		826		289		0		0		756		0		0	
AM Peak	11:00	8:00	9:00	10:00	9:00	8:00					9:00	8:00				
Volume	26	38	21	51	26	49					22	39				
PM Peak	3:00	12:00 PM	12:00 PM	3:00	12:00 PM						3:00	3:00				
Volume	36	33	42	42	1	1					39	36				
Comb Total	737	826	873	893	955	1633	635	723								
ADT	ADT: 782		AADT: 782		873		893		955		1633		635		723	

Speeds

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

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 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/17/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	1	0	0	6	12	6	2	0	0	0	0	0	0	27
12:00 PM	0	1	1	6	12	12	0	1	0	0	0	0	0	33
1:00	0	0	1	5	11	9	4	1	0	0	0	0	0	31
2:00	0	0	0	8	8	14	5	1	0	0	0	0	0	36
3:00	1	0	0	3	24	14	1	2	0	0	0	0	0	45
4:00	0	1	0	4	4	17	9	0	0	0	0	0	0	35
5:00	0	1	0	2	7	15	4	1	0	0	0	0	0	30
6:00	0	0	1	0	6	2	1	1	0	0	0	0	0	11
7:00	0	1	0	4	5	5	4	0	0	0	0	0	0	19
8:00	0	0	2	1	2	5	0	0	0	0	0	0	0	10
9:00	0	0	0	2	4	0	2	0	0	0	0	0	0	8
10:00	0	0	0	0	2	2	1	1	0	0	0	0	0	6
11:00	0	0	0	0	1	0	1	0	0	0	0	0	0	2
Total	2	4	5	41	98	101	34	8	0	0	0	0	0	293

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/18/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	2	1	0	1	0	0	0	0	0	4
1:00	0	0	0	0	2	0	0	0	0	0	0	0	0	2
2:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
6:00	0	0	1	1	4	3	1	0	0	0	0	0	0	10
7:00	0	0	0	1	3	4	1	0	0	0	0	0	0	9
8:00	0	0	0	1	9	6	3	0	0	0	0	0	0	19
9:00	0	2	0	1	15	12	2	0	0	0	0	0	0	32
10:00	0	0	0	2	11	4	1	0	0	0	0	0	0	18
11:00	0	0	1	3	10	12	4	0	0	0	0	0	0	30
12:00 PM	0	0	1	2	9	13	5	1	0	0	0	0	0	31
1:00	0	0	1	7	8	11	1	0	0	0	0	0	0	28
2:00	0	0	0	3	22	15	4	0	0	0	0	0	0	44
3:00	1	0	0	1	21	18	7	0	0	0	0	0	0	48
4:00	0	0	0	1	12	11	8	0	0	0	0	0	0	32
5:00	0	1	0	3	8	12	7	0	0	0	0	0	0	31
6:00	0	0	1	3	7	10	0	1	0	0	0	0	0	22
7:00	1	1	2	3	4	10	5	0	0	0	0	0	0	26
8:00	0	0	1	2	7	6	3	0	0	0	0	0	0	19
9:00	0	1	0	2	3	5	0	0	0	0	0	0	0	11
10:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
11:00	0	0	0	0	3	3	0	2	0	0	0	0	0	8
Total	2	5	8	38	162	156	52	5	0	0	0	0	0	428

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

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 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/19/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	1	1	0	0	0	0	0	0	0	2
1:00	0	0	0	0	0	0	0	1	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	1	1	0	0	0	0	0	0	0	2
6:00	0	0	1	3	3	0	2	0	0	0	0	0	0	9
7:00	0	0	0	1	1	5	1	0	0	0	0	0	0	8
8:00	0	0	2	2	7	5	2	0	0	0	0	0	0	18
9:00	0	1	0	4	9	6	3	0	0	0	0	0	0	23
10:00	0	0	2	3	12	7	0	0	0	0	0	0	0	24
11:00	0	2	1	4	6	18	2	1	0	0	0	0	0	34
12:00 PM	0	0	0	7	19	11	2	1	0	0	0	0	0	40
1:00	0	0	0	8	9	15	1	0	0	0	0	0	0	33
2:00	0	0	0	4	11	11	3	0	1	0	0	0	0	30
3:00	0	0	0	3	15	11	7	0	0	0	0	0	0	36
4:00	0	1	0	5	13	11	8	1	0	0	0	0	0	39
5:00	0	1	0	1	18	15	1	1	0	0	0	0	0	37
6:00	0	0	2	5	12	19	4	0	1	0	0	0	0	43
7:00	0	0	0	4	2	10	8	0	0	0	0	0	0	24
8:00	0	1	0	5	12	4	1	0	0	0	0	0	0	23
9:00	0	0	0	3	4	4	0	0	0	0	0	0	0	11
10:00	0	0	0	0	3	1	1	0	0	0	0	0	0	5
11:00	0	0	0	0	0	1	1	0	0	0	0	0	0	2
Total	0	6	8	62	158	156	47	5	2	0	0	0	0	444

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
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 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/20/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	1	3	2	0	0	0	0	0	0	0	6
1:00	0	0	0	0	1	1	1	0	0	0	0	0	0	3
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	1	0	1	0	0	0	0	0	0	2
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	0	0	0	2	3	0	0	0	0	0	0	0	0	5
6:00	0	2	0	2	4	1	0	0	0	0	0	0	0	9
7:00	0	0	0	0	5	2	3	0	0	0	0	0	0	10
8:00	0	0	1	1	5	4	0	0	0	0	0	0	0	11
9:00	0	2	0	2	2	8	1	1	0	0	0	0	0	16
10:00	0	0	0	6	7	4	2	0	0	0	0	0	0	19
11:00	0	0	1	2	9	6	0	0	0	0	0	0	0	18
12:00 PM	0	1	0	4	11	10	1	0	0	0	0	0	0	27
1:00	0	0	0	2	16	5	3	0	0	0	0	0	0	26
2:00	0	0	0	6	5	7	0	0	0	0	0	0	0	18
3:00	0	0	0	1	2	6	3	0	0	0	0	0	0	12
4:00	0	1	0	2	2	7	2	0	0	0	0	0	0	14
5:00	0	0	0	2	8	7	0	1	0	0	0	0	0	18
6:00	0	0	0	4	4	4	0	0	0	0	0	0	0	12
7:00	0	0	0	0	7	3	0	0	0	0	0	0	0	10
8:00	0	1	1	2	0	7	0	1	0	0	0	0	0	12
9:00	0	0	0	2	1	0	0	0	0	0	0	0	0	3
10:00	0	0	0	2	2	0	0	0	0	0	0	0	0	4
11:00	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total	0	7	3	45	99	84	17	3	0	0	0	0	0	258

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

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 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/21/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	1	1	2	0	0	0	0	0	0	0	4
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
3:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	1	2	0	0	1	0	0	0	0	0	4
8:00	0	0	1	1	4	4	0	0	0	0	0	0	0	10
9:00	0	0	2	1	2	8	1	0	0	0	0	0	0	14
10:00	0	0	0	1	8	9	4	0	0	0	0	0	0	22
11:00	0	1	2	3	7	13	1	0	0	0	0	0	0	27
12:00 PM	0	0	2	5	11	13	6	0	0	0	0	0	0	37
1:00	0	0	1	7	7	14	7	1	0	0	0	0	0	37
2:00	0	0	0	4	16	12	2	0	0	0	0	0	0	34
3:00	1	0	2	7	18	12	1	1	0	0	0	0	0	42
4:00	0	0	0	1	9	21	2	0	0	0	0	0	0	33
5:00	0	1	0	1	9	4	4	0	0	0	0	0	0	19
6:00	0	0	1	4	7	7	3	1	0	0	0	0	0	23
7:00	0	0	0	2	3	3	1	0	0	0	0	0	0	9
8:00	0	0	1	3	5	5	1	0	0	0	0	0	0	15
9:00	0	0	0	2	0	2	0	0	0	0	0	0	0	4
10:00	0	0	0	1	0	0	1	0	0	0	0	0	0	2
11:00	0	0	0	0	0	3	1	0	0	0	0	0	0	4
Total	1	2	12	45	110	133	35	4	0	0	0	0	0	342

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/22/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2
1:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	0	3	0	0	0	0	0	0	0	0	3
6:00	0	0	1	1	5	4	0	0	0	0	0	0	0	11
7:00	0	0	0	0	3	4	1	0	0	0	0	0	0	8
8:00	0	0	0	4	4	4	0	0	0	0	0	0	0	12
9:00	0	0	0	4	9	4	1	0	0	0	0	0	0	18
10:00	0	0	0	0	9	7	0	0	0	0	0	0	0	16
11:00	1	0	1	4	10	6	4	0	0	0	0	0	0	26
12:00 PM	0	0	0	2	14	11	5	0	0	0	0	0	0	32
1:00	0	0	1	1	12	11	2	0	0	0	0	0	0	27
2:00	0	0	0	2	10	8	5	0	0	0	0	0	0	25
3:00	0	0	0	3	13	15	5	0	0	0	0	0	0	36
4:00	0	1	0	6	5	9	5	0	0	0	0	0	0	26
5:00	0	0	1	6	14	8	4	2	0	0	1	0	0	36
6:00	0	0	1	0	8	14	2	0	0	0	0	0	0	25
7:00	0	0	0	1	3	7	1	2	0	0	0	0	0	14
8:00	0	1	1	3	6	6	0	0	0	0	0	0	0	17
9:00	0	0	0	1	3	1	1	0	0	0	0	0	0	6
10:00	0	0	0	0	1	1	0	1	0	0	0	0	0	3
11:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	1	2	6	39	132	123	36	6	0	0	1	0	0	346

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/23/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	2	2	0	0	0	0	0	0	0	4
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	1	2	1	0	0	0	0	0	0	0	4
6:00	0	1	0	1	5	3	2	0	0	0	0	0	0	12
7:00	0	0	0	0	2	6	2	0	0	0	0	0	0	10
8:00	0	0	0	1	5	3	1	1	0	0	0	0	0	11
9:00	0	0	0	5	11	4	0	0	1	0	0	0	0	21
10:00	0	0	1	4	5	6	1	0	0	0	0	0	0	17
11:00	0	0	1	2	11	5	1	0	1	0	0	0	0	21
12:00 PM	0	0	0	3	24	13	2	0	0	0	0	0	0	42
1:00	0	0	0	2	9	7	2	3	0	0	0	0	0	23
2:00	0	0	0	1	7	8	4	1	0	0	0	0	0	21
3:00	2	0	1	3	17	13	6	0	0	0	0	0	0	42
4:00	0	0	1	4	9	12	7	0	0	0	0	0	0	33
5:00	0	1	0	3	13	16	6	0	0	0	0	0	0	39
6:00	0	0	0	9	9	12	3	1	0	0	0	0	0	34
7:00	0	0	0	2	9	5	4	0	0	0	0	0	0	20
8:00	0	2	0	4	3	4	0	0	0	0	0	0	0	13
9:00	0	0	0	4	3	1	0	0	0	0	0	0	0	8
10:00	0	0	1	1	2	3	0	0	0	0	0	0	0	7
11:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	2	4	5	51	148	124	41	6	2	0	0	0	0	383

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: North, Lane 1

5/24/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1:00	0	0	0	0	0	0	0	1	1	0	0	0	0	2
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	1	1	1	0	0	0	0	0	0	0	0	3
6:00	0	0	3	1	1	2	3	0	0	0	0	0	0	10
7:00	0	0	0	1	7	3	2	0	0	0	0	0	0	13
8:00	0	0	1	2	4	4	4	0	0	0	0	0	0	15
9:00	0	0	0	8	14	4	0	0	0	0	0	0	0	26
10:00	0	0	0	0	6	11	0	0	0	0	0	0	0	17
11:00	0	0	0	3	6	4	1	0	0	0	0	0	0	14
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	0	0	5	16	39	29	10	1	1	0	0	0	0	101
Grand Total	8	30	52	337	946	906	272	38	5	0	1	0	0	2595
Stats			Percentile	15th	50th	85th	95th							
			Speed	30	35	39	42							
			Mean Speed (Average)	34.5										
			10 MPH Pace Speed	30-39										
			Number in Pace	1841										
			Percent in Pace	70.9%										
			Number > 25 MPH	2505										
			Percent > 25 MPH	96.5%										

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

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 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/17/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11:00	0	1	1	7	21	13	0	0	0	0	0	0	0	43
12:00 PM	0	2	1	8	14	11	2	0	0	0	0	0	0	38
1:00	1	0	2	3	17	9	0	0	0	0	0	0	0	32
2:00	2	0	5	4	13	5	0	0	1	0	0	0	0	30
3:00	0	0	2	5	11	15	1	0	0	0	0	0	0	34
4:00	1	1	3	9	9	8	3	0	0	0	0	0	0	34
5:00	2	0	0	2	12	3	2	0	0	0	0	0	0	21
6:00	0	0	1	5	11	3	4	0	0	0	0	0	0	24
7:00	0	0	0	2	10	4	2	0	0	0	0	0	0	18
8:00	0	0	0	1	2	0	2	0	0	0	0	0	0	5
9:00	0	0	0	1	1	0	1	0	0	0	0	0	0	3
10:00	0	0	0	0	2	1	0	0	0	0	0	0	0	3
11:00	0	0	0	1	1	1	2	0	0	0	0	0	0	5
Total	6	4	15	49	124	73	19	0	1	0	0	0	0	291

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/18/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	1	1	1	0	0	0	0	0	0	3
6:00	0	1	4	6	3	4	3	0	0	0	0	0	0	21
7:00	0	0	3	5	6	7	1	1	0	0	0	0	1	24
8:00	0	0	4	12	23	11	2	1	0	0	0	0	0	53
9:00	0	2	3	6	11	5	2	0	0	0	0	0	0	29
10:00	0	0	2	11	9	6	2	0	0	0	0	0	0	30
11:00	0	1	1	10	21	7	2	0	0	0	0	0	0	42
12:00 PM	0	1	4	8	11	12	0	2	0	0	0	0	0	38
1:00	0	0	4	3	17	5	5	0	0	0	0	0	0	34
2:00	0	1	3	4	15	5	2	1	0	0	0	0	0	31
3:00	0	0	0	4	23	10	0	0	0	0	0	0	0	37
4:00	0	0	3	9	16	9	0	0	0	0	0	0	0	37
5:00	1	0	1	4	14	8	4	0	0	0	0	0	0	32
6:00	1	0	0	6	10	6	1	0	0	0	0	0	0	24
7:00	0	0	2	3	3	6	0	0	0	0	0	0	0	14
8:00	0	0	1	2	3	2	1	0	0	0	0	0	0	9
9:00	0	0	0	0	4	0	1	0	0	0	0	0	0	5
10:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	6	35	94	190	104	28	5	0	0	0	0	1	465

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/19/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	1	0	1	0	0	0	0	0	0	3
5:00	0	0	0	2	0	1	0	1	0	0	0	0	0	4
6:00	0	0	5	6	3	2	2	0	0	0	0	0	0	18
7:00	0	0	0	7	11	9	2	0	0	0	0	0	0	29
8:00	0	1	2	10	13	11	4	0	0	0	0	0	0	41
9:00	0	0	4	5	16	12	0	0	0	0	0	0	0	37
10:00	1	0	1	8	14	9	2	0	0	0	0	0	0	35
11:00	0	1	3	6	9	10	1	0	0	0	0	0	0	30
12:00 PM	1	0	2	9	9	8	1	0	0	0	0	0	0	30
1:00	1	0	4	8	17	8	0	0	0	0	0	0	0	38
2:00	0	0	2	7	10	7	1	2	0	0	0	0	0	29
3:00	0	1	3	9	23	9	1	0	0	0	0	0	0	46
4:00	0	0	6	12	14	6	3	0	0	0	0	0	0	41
5:00	1	0	0	4	14	10	3	2	0	0	0	0	0	34
6:00	0	0	1	2	12	6	1	1	0	0	0	0	0	23
7:00	0	0	0	1	5	0	5	0	0	0	0	0	0	11
8:00	0	0	0	6	5	5	0	0	0	0	0	0	0	16
9:00	0	1	0	4	5	6	0	0	0	0	0	0	0	16
10:00	0	0	0	6	9	4	2	0	0	0	0	0	0	21
11:00	0	0	0	2	3	2	1	0	0	0	0	0	0	8
Total	4	4	33	115	194	125	30	6	0	0	0	0	0	511

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
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 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/20/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
3:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	0	0	1	0	0	1	0	0	0	0	0	0	0	2
6:00	0	0	2	6	3	4	1	0	0	0	0	0	0	16
7:00	0	0	0	4	7	2	1	0	0	0	0	0	0	14
8:00	0	0	0	5	19	4	1	0	0	0	0	0	0	29
9:00	1	0	0	5	10	7	1	0	0	0	0	0	0	24
10:00	0	0	3	15	8	11	2	0	0	0	0	0	0	39
11:00	0	0	3	10	9	13	0	0	0	0	0	0	0	35
12:00 PM	1	0	2	8	11	3	1	0	0	0	0	0	0	26
1:00	0	0	0	6	16	3	2	0	0	0	0	0	0	27
2:00	0	0	1	7	7	6	1	0	0	0	0	0	0	22
3:00	0	1	2	3	9	4	0	0	0	0	0	0	0	19
4:00	0	0	1	6	17	6	1	1	0	0	0	0	0	32
5:00	0	0	0	11	7	6	1	1	1	0	0	0	0	27
6:00	0	0	1	4	5	9	0	0	0	0	0	0	0	19
7:00	0	0	2	7	8	0	1	0	0	0	0	0	0	18
8:00	0	0	0	4	4	3	0	0	0	0	0	0	0	11
9:00	0	0	0	4	6	0	0	0	0	0	0	0	0	10
10:00	0	0	0	3	0	0	0	0	0	0	0	0	0	3
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	19	109	147	83	13	2	1	0	0	0	0	377

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

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 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/21/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
6:00	0	0	0	1	2	2	1	0	0	0	0	0	0	6
7:00	0	0	0	3	5	5	0	1	0	0	0	0	0	14
8:00	1	0	0	4	10	3	0	0	0	0	0	0	0	18
9:00	0	1	3	9	13	8	0	0	0	0	0	0	0	34
10:00	0	0	3	4	17	4	3	1	0	0	0	0	0	32
11:00	0	0	0	12	15	8	2	0	0	0	0	0	0	37
12:00 PM	0	0	1	7	14	5	5	0	0	0	0	0	0	32
1:00	1	1	2	13	14	11	0	0	0	0	0	0	0	42
2:00	1	1	1	4	15	7	1	0	0	0	0	0	0	30
3:00	1	0	2	14	24	1	3	0	0	0	0	0	0	45
4:00	0	0	1	7	17	5	0	0	0	0	0	0	0	30
5:00	1	0	0	5	6	9	0	0	0	0	0	0	0	21
6:00	0	0	1	2	6	3	2	0	0	0	0	0	0	14
7:00	0	0	0	1	9	5	0	0	0	0	0	0	0	15
8:00	0	0	0	4	1	1	0	0	0	0	0	0	0	6
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	1	0	1	0	0	0	0	0	0	2
11:00	0	0	1	0	1	0	0	0	0	0	0	0	0	2
Total	5	3	15	90	170	78	18	2	0	0	0	0	0	381

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/22/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	2	0	0	0	0	0	0	0	0	2
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	1	2	2	0	1	0	0	0	0	0	6
6:00	0	0	3	6	9	3	1	0	0	0	0	0	0	22
7:00	0	0	4	3	12	7	2	0	0	0	0	0	0	28
8:00	0	1	4	11	15	6	1	0	0	0	0	0	0	38
9:00	0	0	2	2	11	7	0	1	0	0	0	0	0	23
10:00	0	0	0	6	10	8	2	0	0	0	0	0	0	26
11:00	0	0	2	8	12	4	2	0	0	0	0	0	0	28
12:00 PM	0	0	0	7	14	10	2	0	0	0	0	0	0	33
1:00	0	0	1	5	16	4	1	0	0	0	0	0	0	27
2:00	2	0	2	5	12	4	2	0	0	0	0	0	0	27
3:00	1	0	2	6	13	7	2	0	0	0	0	0	0	31
4:00	0	0	0	5	15	4	3	0	0	0	0	0	0	27
5:00	0	0	3	3	13	2	3	0	0	0	0	0	0	24
6:00	0	0	2	4	8	4	2	0	0	0	0	0	0	20
7:00	0	0	1	2	8	3	0	1	1	0	0	0	0	16
8:00	0	0	1	1	3	2	0	0	0	0	0	0	0	7
9:00	0	0	0	2	0	1	0	0	0	0	0	0	0	3
10:00	0	0	0	0	0	1	1	0	0	0	0	0	0	2
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	1	27	77	175	80	24	3	1	0	0	0	0	391

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Shannock Road
 Location: Approximately 500' south of Gravelly Hill Road

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 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/23/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	2	3	1	0	0	0	0	0	0	0	6
6:00	0	1	4	6	7	1	3	0	0	0	0	0	0	22
7:00	0	0	3	6	11	9	3	0	0	0	0	0	0	32
8:00	0	3	6	5	12	4	1	0	0	0	0	0	0	31
9:00	0	0	2	8	15	6	4	1	0	0	0	0	0	36
10:00	0	0	4	13	17	13	4	0	0	0	0	0	0	51
11:00	0	0	1	6	13	13	0	1	0	0	0	0	0	34
12:00 PM	1	1	0	10	16	2	2	0	0	0	0	0	0	32
1:00	0	0	1	5	8	10	2	0	0	0	0	0	0	26
2:00	0	0	3	7	12	2	1	1	0	0	0	0	0	26
3:00	1	1	0	11	13	11	5	0	0	0	0	0	0	42
4:00	0	0	0	6	17	5	5	0	0	1	0	0	0	34
5:00	0	0	3	3	6	4	3	0	0	0	0	0	0	19
6:00	0	1	0	6	9	6	1	0	0	0	0	0	0	23
7:00	0	0	1	1	6	3	1	0	0	0	0	0	0	12
8:00	0	0	0	1	4	0	1	0	0	0	0	0	0	6
9:00	0	0	0	1	1	3	0	0	0	0	0	0	0	5
10:00	0	0	0	1	1	1	0	0	0	0	0	0	0	3
11:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	2	8	28	98	172	95	36	3	0	1	0	0	0	443

Project Name: South Shore Village
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 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: South, Lane 2

5/24/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	0	0	1	1	3	0	1	1	0	0	0	0	0	7
6:00	0	0	3	4	6	1	4	0	0	0	0	0	0	18
7:00	0	0	0	6	14	11	1	1	0	0	0	0	0	33
8:00	1	0	3	11	22	9	2	1	0	0	0	0	0	49
9:00	1	0	0	3	22	6	3	0	0	0	0	0	0	35
10:00	0	0	0	9	12	3	1	0	0	0	0	0	0	25
11:00	0	1	2	2	7	3	0	0	0	0	0	0	4	19
12:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	1
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	2	1	9	36	87	33	12	3	1	0	0	0	4	188
Grand Total	26	28	181	668	1259	671	180	24	4	1	0	0	5	3047
Stats	Percentile		15th	50th	85th	95th								
	Speed		27	32	37	41								
	Mean Speed (Average)		32.6											
	10 MPH Pace Speed		30-39											
	Number in Pace		1930											
	Percent in Pace		63.3%											
	Number > 25 MPH		2812											
	Percent > 25 MPH		92.3%											

Gravelly Hill Road

Traffic Volumes

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Time	5/15/23 Mon	5/16/23 Tue	5/17/23 Wed	5/18/23 Thu	5/19/23 Fri	Weekday Average	5/20/23 Sat	5/21/23 Sun
12:00 AM	*	*	*	0	0	0	5	0
01:00	*	*	*	0	0	0	1	0
02:00	*	*	*	0	0	0	0	0
03:00	*	*	*	1	1	1	2	0
04:00	*	*	*	1	1	1	0	0
05:00	*	*	*	4	2	3	0	0
06:00	*	*	*	13	14	14	1	1
07:00	*	*	*	19	16	18	11	5
08:00	*	*	*	28	22	25	19	16
09:00	*	*	*	24	28	26	21	15
10:00	*	*	14	26	19	20	5	25
11:00	*	*	28	11	27	22	14	19
12:00 PM	*	*	21	19	22	21	34	17
01:00	*	*	21	23	28	24	16	26
02:00	*	*	30	29	20	26	12	19
03:00	*	*	26	30	26	27	10	17
04:00	*	*	28	23	19	23	17	19
05:00	*	*	18	36	23	26	14	13
06:00	*	*	17	17	19	18	8	18
07:00	*	*	15	12	12	13	10	8
08:00	*	*	8	11	13	11	2	6
09:00	*	*	7	9	18	11	3	1
10:00	*	*	4	2	14	7	4	2
11:00	*	*	0	1	3	1	0	0
Total	0	0	237	339	347	338	209	227
Percent	0.0%	0.0%	70.1%	100.3%	102.7%		61.8%	67.2%
AM Peak			11:00	08:00	09:00	09:00	09:00	10:00
Volume			28	28	28	26	21	25
PM Peak			02:00	05:00	01:00	03:00	12:00 PM	01:00
Volume			30	36	28	27	34	26

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Start Date: 5/17/2023
 End Date: 5/24/2023

Time	5/22/23 Mon	5/23/23 Tue	5/24/23 Wed	5/25/23 Thu	5/26/23 Fri	Weekday Average	5/27/23 Sat	5/28/23 Sun
12:00 AM	0	0	0	*	*	0	*	*
01:00	1	0	1	*	*	1	*	*
02:00	0	1	1	*	*	1	*	*
03:00	1	1	1	*	*	1	*	*
04:00	1	1	2	*	*	1	*	*
05:00	6	5	5	*	*	5	*	*
06:00	16	16	12	*	*	15	*	*
07:00	14	18	21	*	*	18	*	*
08:00	24	26	19	*	*	23	*	*
09:00	30	26	29	*	*	28	*	*
10:00	16	33	23	*	*	24	*	*
11:00	12	27	5	*	*	15	*	*
12:00 PM	23	21	7	*	*	17	*	*
01:00	21	29	*	*	*	25	*	*
02:00	23	21	*	*	*	22	*	*
03:00	22	28	*	*	*	25	*	*
04:00	21	22	*	*	*	22	*	*
05:00	16	29	*	*	*	22	*	*
06:00	9	18	*	*	*	14	*	*
07:00	7	13	*	*	*	10	*	*
08:00	4	5	*	*	*	4	*	*
09:00	5	3	*	*	*	4	*	*
10:00	3	3	*	*	*	3	*	*
11:00	0	0	*	*	*	0	*	*
Total	275	346	126	0	0	300	0	0
Percent	91.7%	115.3%	42.0%	0.0%	0.0%		0.0%	0.0%
AM Peak	09:00	10:00	09:00			09:00		
Volume	30	33	29			28		
PM Peak	12:00 PM	01:00	12:00 PM			01:00		
Volume	23	29	7			25		

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Start Date: 5/17/2023
 End Date: 5/24/2023

5/15/2023 Time	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12:00 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM Peak Volume	11:00		11:00		11:00		8:00		8:00		8:00		11:00		11:00	
	8		20		10		18		10		9		7		17	
PM Peak Volume	3:00		2:00		3:00		5:00		3:00		1:00		3:00		12:00 PM	
	11		21		13		26		12		19		10		24	
	79		158		110		229		100		247		55		154	
	237		339		339		347		107		232		209		64	
	237		339		339		347		107		232		209		64	
	227		227		227		227		227		227		227		227	
	163		163		163		163		163		163		163		163	

Project Name: South Shore Village
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Start Date: 5/17/2023
 End Date: 5/24/2023

5/22/2023	Monday		Tuesday		Wednesday		Thursday		Friday		Weekday Average		Saturday		Sunday	
	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB
12:00 AM	0	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*
1:00	0	1	0	0	0	0	0	*	*	*	*	*	*	*	*	*
2:00	0	0	0	1	0	1	*	*	*	*	*	*	*	*	*	*
3:00	0	1	0	1	0	1	*	*	*	*	*	*	*	*	*	*
4:00	0	1	0	1	0	2	*	*	*	*	*	*	*	*	*	*
5:00	1	5	1	4	1	4	*	*	*	*	*	*	*	*	*	*
6:00	5	11	5	11	5	7	*	*	*	*	*	*	*	*	*	*
7:00	6	8	5	13	4	17	*	*	*	*	*	*	*	*	*	*
8:00	6	18	7	19	6	13	*	*	*	*	*	*	*	*	*	*
9:00	8	22	10	16	10	19	*	*	*	*	*	*	*	*	*	*
10:00	6	10	7	26	6	17	*	*	*	*	*	*	*	*	*	*
11:00	1	11	8	19	1	4	*	*	*	*	*	*	*	*	*	*
12:00 PM	7	16	7	14	7	0	*	*	*	*	*	*	*	*	*	*
1:00	5	16	7	22	*	*	*	*	*	*	*	*	*	*	*	*
2:00	9	14	7	14	*	*	*	*	*	*	*	*	*	*	*	*
3:00	7	15	6	22	*	*	*	*	*	*	*	*	*	*	*	*
4:00	8	13	6	16	*	*	*	*	*	*	*	*	*	*	*	*
5:00	4	12	4	25	*	*	*	*	*	*	*	*	*	*	*	*
6:00	3	6	3	15	*	*	*	*	*	*	*	*	*	*	*	*
7:00	1	6	5	8	*	*	*	*	*	*	*	*	*	*	*	*
8:00	2	2	0	5	*	*	*	*	*	*	*	*	*	*	*	*
9:00	2	3	1	2	*	*	*	*	*	*	*	*	*	*	*	*
10:00	2	1	0	3	*	*	*	*	*	*	*	*	*	*	*	*
11:00	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*
Total	83	192	89	257	40	86	0	0	0	0	83	214	0	0	0	0
Day	275		346		126		0		0		297		0		0	
AM Peak	9:00	9:00	9:00	10:00	9:00	9:00					9:00	9:00				
Volume	8	22	10	26	10	19					9	19				
PM Peak	2:00	12:00 PM	12:00 PM	5:00	12:00 PM						2:00	1:00				
Volume	9	16	7	25	7						8	19				
Comb Total	275		346		363		339		347		636		209		227	
ADT	ADT: 292		AAAT: 292													

Speeds

Project Name: South Shore Village
 Town / City: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: West, Lane 1

5/17/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	0	0	2	0	4	1	0	0	0	0	0	0	0	7
11:00	0	0	0	2	5	1	0	0	0	0	0	0	0	8
12:00 PM	0	1	0	1	1	1	0	0	0	0	0	0	0	4
1:00	0	0	0	2	2	0	0	0	0	0	0	0	0	4
2:00	1	0	3	2	3	0	0	0	0	0	0	0	0	9
3:00	0	0	1	3	5	1	1	0	0	0	0	0	0	11
4:00	0	0	3	2	2	2	0	0	0	0	0	0	0	9
5:00	0	1	1	1	1	0	0	0	0	0	0	0	0	4
6:00	1	0	0	4	2	0	1	0	0	0	0	0	0	8
7:00	0	0	1	3	2	0	0	0	0	0	0	0	0	6
8:00	0	0	0	0	3	0	0	0	0	0	0	0	0	3
9:00	0	0	4	0	2	0	0	0	0	0	0	0	0	6
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	2	15	20	32	6	2	0	0	0	0	0	0	79

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 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: West, Lane 1

5/18/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	3	1	1	0	0	0	0	0	0	0	0	5
7:00	0	0	0	1	2	1	1	0	0	0	0	0	0	5
8:00	0	0	0	4	6	0	0	0	0	0	0	0	0	10
9:00	0	0	0	0	5	4	0	0	0	0	0	0	0	9
10:00	1	0	1	2	3	0	0	0	0	0	1	0	0	8
11:00	0	0	0	2	0	0	0	0	0	0	0	0	0	2
12:00 PM	1	0	0	1	4	1	0	0	0	0	0	0	0	7
1:00	0	0	1	1	4	0	1	0	0	0	0	0	0	7
2:00	0	0	3	6	2	0	0	0	0	0	0	0	0	11
3:00	1	0	1	6	4	1	0	0	0	0	0	0	0	13
4:00	0	2	0	2	3	1	0	0	0	0	0	0	0	8
5:00	1	0	1	1	5	1	0	0	0	0	0	1	0	10
6:00	0	1	1	4	0	0	0	0	0	0	0	0	0	6
7:00	0	0	1	1	0	0	0	0	0	0	0	0	0	2
8:00	0	1	0	1	2	0	0	0	0	0	0	0	0	4
9:00	0	0	0	0	0	2	0	0	0	0	0	0	0	2
10:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4	4	12	33	42	11	2	0	0	0	1	1	0	110

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 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: West, Lane 1

5/19/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	1	0	3	1	1	0	0	1	0	0	0	0	0	7
7:00	0	0	0	1	2	0	0	0	0	0	0	0	0	3
8:00	0	0	0	1	4	0	0	0	0	0	0	0	0	5
9:00	0	0	0	4	3	2	0	0	0	0	0	0	0	9
10:00	0	0	0	0	4	0	0	0	0	0	0	0	0	4
11:00	0	1	1	4	4	0	0	0	0	0	0	0	0	10
12:00 PM	0	0	0	2	1	2	0	0	0	0	0	0	0	5
1:00	0	0	3	1	3	2	0	0	0	0	0	0	0	9
2:00	1	0	1	3	2	0	0	0	0	0	0	0	0	7
3:00	0	1	2	3	4	2	0	0	0	0	0	0	0	12
4:00	0	0	1	1	0	1	0	0	0	0	0	0	0	3
5:00	0	0	1	2	4	0	0	0	0	0	0	0	0	7
6:00	0	0	1	1	3	0	1	0	0	0	0	0	0	6
7:00	0	0	0	0	3	0	0	0	0	0	0	0	0	3
8:00	0	0	0	4	0	0	0	0	0	0	0	0	0	4
9:00	0	0	0	1	2	0	0	0	0	0	0	0	0	3
10:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
11:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	2	2	13	30	41	10	1	1	0	0	0	0	0	100

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 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: West, Lane 1

5/20/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	2
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	2	0	0	0	0	0	0	0	0	0	2
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
8:00	0	0	0	1	2	0	0	0	0	0	0	0	0	3
9:00	0	0	0	2	2	0	0	0	0	0	0	0	0	4
10:00	0	0	0	0	1	0	1	0	0	0	0	0	0	2
11:00	0	0	1	4	1	1	0	0	0	0	0	0	0	7
12:00 PM	0	0	1	6	2	1	0	0	0	0	0	0	0	10
1:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
2:00	0	0	3	1	2	1	0	0	0	0	0	0	0	7
3:00	0	0	0	1	1	2	0	0	0	0	0	0	0	4
4:00	0	0	2	0	2	0	1	0	0	0	0	0	0	5
5:00	0	0	0	2	2	1	0	0	0	0	0	0	0	5
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
8:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	8	22	17	6	2	0	0	0	0	0	0	55

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Direction: West, Lane 1

5/21/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	1	2	0	0	0	0	0	0	0	0	3
9:00	0	1	0	1	3	1	0	0	0	0	0	0	0	6
10:00	1	0	0	5	0	3	0	0	0	0	0	0	0	9
11:00	0	0	0	1	3	0	0	0	0	0	0	0	0	4
12:00 PM	0	0	1	1	2	1	0	0	0	0	0	0	0	5
1:00	1	0	2	2	1	1	0	0	0	0	0	0	0	7
2:00	0	0	1	4	1	2	0	0	0	0	0	0	0	8
3:00	0	0	0	1	3	1	0	0	0	0	0	0	0	5
4:00	0	0	1	2	2	0	0	0	0	0	0	0	0	5
5:00	0	0	0	1	2	0	0	0	0	0	0	0	0	3
6:00	0	0	1	1	2	0	0	0	0	0	0	0	0	4
7:00	0	0	1	0	2	0	0	0	0	0	0	0	0	3
8:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
9:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	7	21	23	10	0	0	0	0	0	0	0	64

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 End Date: 5/24/2023

Direction: West, Lane 1

5/22/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
6:00	1	0	2	2	0	0	0	0	0	0	0	0	0	5
7:00	0	0	0	1	4	1	0	0	0	0	0	0	0	6
8:00	0	0	0	2	2	2	0	0	0	0	0	0	0	6
9:00	0	0	1	1	3	2	1	0	0	0	0	0	0	8
10:00	0	0	0	3	3	0	0	0	0	0	0	0	0	6
11:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
12:00 PM	2	0	0	3	1	1	0	0	0	0	0	0	0	7
1:00	0	0	1	0	3	1	0	0	0	0	0	0	0	5
2:00	0	0	0	5	3	1	0	0	0	0	0	0	0	9
3:00	0	0	1	5	0	1	0	0	0	0	0	0	0	7
4:00	0	0	0	1	7	0	0	0	0	0	0	0	0	8
5:00	0	0	0	1	2	1	0	0	0	0	0	0	0	4
6:00	0	0	0	1	0	2	0	0	0	0	0	0	0	3
7:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:00	1	0	0	1	0	0	0	0	0	0	0	0	0	2
9:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
10:00	0	0	0	0	1	1	0	0	0	0	0	0	0	2
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4	0	7	27	31	13	1	0	0	0	0	0	0	83

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Direction: West, Lane 1

5/23/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
6:00	1	0	2	0	2	0	0	0	0	0	0	0	0	5
7:00	0	0	0	3	1	1	0	0	0	0	0	0	0	5
8:00	0	0	0	4	0	3	0	0	0	0	0	0	0	7
9:00	0	0	0	3	6	1	0	0	0	0	0	0	0	10
10:00	0	0	0	2	3	2	0	0	0	0	0	0	0	7
11:00	0	1	0	3	3	0	0	0	0	0	0	0	1	8
12:00 PM	0	0	0	2	4	1	0	0	0	0	0	0	0	7
1:00	0	0	1	3	1	2	0	0	0	0	0	0	0	7
2:00	0	0	2	5	0	0	0	0	0	0	0	0	0	7
3:00	0	0	1	3	1	1	0	0	0	0	0	0	0	6
4:00	0	0	2	0	3	1	0	0	0	0	0	0	0	6
5:00	0	1	0	1	2	0	0	0	0	0	0	0	0	4
6:00	1	0	0	1	1	0	0	0	0	0	0	0	0	3
7:00	0	0	0	1	2	2	0	0	0	0	0	0	0	5
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	2	8	31	30	14	0	0	0	0	0	0	1	89

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Direction: West, Lane 1

5/24/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
6:00	2	0	2	0	0	1	0	0	0	0	0	0	0	5
7:00	0	0	0	3	1	0	0	0	0	0	0	0	0	4
8:00	0	0	0	2	4	0	0	0	0	0	0	0	0	6
9:00	0	0	1	4	4	1	0	0	0	0	0	0	0	10
10:00	0	0	0	4	1	1	0	0	0	0	0	0	0	6
11:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
12:00 PM	1	1	0	0	0	0	1	0	1	2	0	1	0	7
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	3	1	3	14	10	4	1	0	1	2	0	1	0	40
Grand Total	20	12	73	198	226	74	9	1	1	2	1	2	1	620
Stats			Percentile	15th	50th	85th	95th							
			Speed	25	30	35	37							
			Mean Speed (Average)	29.9										
			10 MPH Pace Speed	25-34										
			Number in Pace	421										
			Percent in Pace	67.9%										
			Number > 25 MPH	515										
			Percent > 25 MPH	83.1%										

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/17/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	*	*	*	*	*	*	*	*	*	*	*	*	*	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	1	0	1	3	1	1	0	0	0	0	0	0	0	7
11:00	0	0	2	10	7	1	0	0	0	0	0	0	0	20
12:00 PM	0	0	3	10	2	2	0	0	0	0	0	0	0	17
1:00	1	1	0	5	9	1	0	0	0	0	0	0	0	17
2:00	0	1	1	8	10	1	0	0	0	0	0	0	0	21
3:00	2	1	3	4	4	1	0	0	0	0	0	0	0	15
4:00	0	0	5	5	9	0	0	0	0	0	0	0	0	19
5:00	0	0	4	6	4	0	0	0	0	0	0	0	0	14
6:00	0	0	1	2	4	2	0	0	0	0	0	0	0	9
7:00	0	0	0	5	3	1	0	0	0	0	0	0	0	9
8:00	0	0	2	1	1	1	0	0	0	0	0	0	0	5
9:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1
10:00	0	0	0	0	3	0	1	0	0	0	0	0	0	4
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4	3	22	59	57	12	1	0	0	0	0	0	0	158

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/18/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	0	0	1	2	1	0	0	0	0	0	0	0	0	4
6:00	0	3	0	0	4	1	0	0	0	0	0	0	0	8
7:00	0	1	3	3	5	2	0	0	0	0	0	0	0	14
8:00	1	0	2	5	5	5	0	0	0	0	0	0	0	18
9:00	0	0	0	6	8	1	0	0	0	0	0	0	0	15
10:00	2	2	1	6	6	1	0	0	0	0	0	0	0	18
11:00	1	0	3	2	3	0	0	0	0	0	0	0	0	9
12:00 PM	1	1	0	4	5	1	0	0	0	0	0	0	0	12
1:00	0	0	2	4	9	1	0	0	0	0	0	0	0	16
2:00	0	0	1	10	6	0	1	0	0	0	0	0	0	18
3:00	0	0	2	10	3	1	0	1	0	0	0	0	0	17
4:00	1	0	3	5	4	1	1	0	0	0	0	0	0	15
5:00	0	1	4	12	8	1	0	0	0	0	0	0	0	26
6:00	0	0	3	3	4	1	0	0	0	0	0	0	0	11
7:00	0	0	1	7	1	1	0	0	0	0	0	0	0	10
8:00	0	1	0	2	3	1	0	0	0	0	0	0	0	7
9:00	0	1	0	2	4	0	0	0	0	0	0	0	0	7
10:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1
11:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Total	7	10	26	83	81	18	3	1	0	0	0	0	0	229

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/19/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
6:00	1	0	2	1	3	0	0	0	0	0	0	0	0	7
7:00	0	0	0	5	4	2	2	0	0	0	0	0	0	13
8:00	1	1	1	3	7	3	1	0	0	0	0	0	0	17
9:00	0	0	1	9	5	4	0	0	0	0	0	0	0	19
10:00	0	0	4	5	4	1	1	0	0	0	0	0	0	15
11:00	1	0	4	7	4	1	0	0	0	0	0	0	0	17
12:00 PM	0	0	2	7	5	3	0	0	0	0	0	0	0	17
1:00	0	1	7	7	3	1	0	0	0	0	0	0	0	19
2:00	0	1	2	6	3	1	0	0	0	0	0	0	0	13
3:00	0	0	2	7	5	0	0	0	0	0	0	0	0	14
4:00	0	0	4	3	7	2	0	0	0	0	0	0	0	16
5:00	0	1	3	3	7	2	0	0	0	0	0	0	0	16
6:00	0	0	1	6	5	1	0	0	0	0	0	0	0	13
7:00	0	0	1	6	2	0	0	0	0	0	0	0	0	9
8:00	0	0	1	6	2	0	0	0	0	0	0	0	0	9
9:00	0	1	0	5	9	0	0	0	0	0	0	0	0	15
10:00	0	0	4	4	4	0	0	0	0	0	0	0	0	12
11:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Total	4	5	39	92	82	21	4	0	0	0	0	0	0	247

Project Name: South Shore Village
 Town / City: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/20/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	2	0	1	0	0	0	0	0	0	0	0	3
1:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7:00	0	0	2	3	4	1	0	0	0	0	0	0	0	10
8:00	1	0	1	8	2	3	1	0	0	0	0	0	0	16
9:00	0	1	1	7	7	0	1	0	0	0	0	0	0	17
10:00	0	0	1	1	1	0	0	0	0	0	0	0	0	3
11:00	0	0	1	2	4	0	0	0	0	0	0	0	0	7
12:00 PM	1	1	2	6	12	1	1	0	0	0	0	0	0	24
1:00	2	0	1	8	3	1	0	0	0	0	0	0	0	15
2:00	0	0	1	2	1	1	0	0	0	0	0	0	0	5
3:00	0	0	0	3	3	0	0	0	0	0	0	0	0	6
4:00	0	0	2	6	4	0	0	0	0	0	0	0	0	12
5:00	1	0	0	3	4	1	0	0	0	0	0	0	0	9
6:00	0	0	0	6	2	0	0	0	0	0	0	0	0	8
7:00	0	0	0	6	0	3	0	0	0	0	0	0	0	9
8:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
9:00	0	0	1	1	0	1	0	0	0	0	0	0	0	3
10:00	0	0	1	3	0	0	0	0	0	0	0	0	0	4
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	2	17	66	49	12	3	0	0	0	0	0	0	154

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/21/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
7:00	0	0	3	0	1	1	0	0	0	0	0	0	0	5
8:00	1	0	4	4	3	1	0	0	0	0	0	0	0	13
9:00	1	1	0	5	1	1	0	0	0	0	0	0	0	9
10:00	1	1	2	7	4	1	0	0	0	0	0	0	0	16
11:00	1	2	2	4	5	0	1	0	0	0	0	0	0	15
12:00 PM	0	0	2	2	8	0	0	0	0	0	0	0	0	12
1:00	2	1	2	11	3	0	0	0	0	0	0	0	0	19
2:00	0	1	1	4	3	1	1	0	0	0	0	0	0	11
3:00	0	0	1	8	3	0	0	0	0	0	0	0	0	12
4:00	2	0	4	4	4	0	0	0	0	0	0	0	0	14
5:00	0	1	1	3	4	1	0	0	0	0	0	0	0	10
6:00	0	0	1	4	7	1	1	0	0	0	0	0	0	14
7:00	0	0	0	2	3	0	0	0	0	0	0	0	0	5
8:00	0	0	3	1	0	1	0	0	0	0	0	0	0	5
9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00	0	1	0	0	1	0	0	0	0	0	0	0	0	2
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8	8	26	60	50	8	3	0	0	0	0	0	0	163

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/22/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	2	2	0	1	0	0	0	0	0	0	5
6:00	1	1	3	3	2	0	1	0	0	0	0	0	0	11
7:00	1	0	0	4	1	2	0	0	0	0	0	0	0	8
8:00	0	0	2	10	6	0	0	0	0	0	0	0	0	18
9:00	1	0	2	10	6	3	0	0	0	0	0	0	0	22
10:00	1	1	0	1	6	1	0	0	0	0	0	0	0	10
11:00	1	0	2	3	3	2	0	0	0	0	0	0	0	11
12:00 PM	1	0	2	4	8	1	0	0	0	0	0	0	0	16
1:00	0	2	3	4	5	2	0	0	0	0	0	0	0	16
2:00	0	1	1	6	5	1	0	0	0	0	0	0	0	14
3:00	0	1	3	6	5	0	0	0	0	0	0	0	0	15
4:00	1	0	1	9	1	0	1	0	0	0	0	0	0	13
5:00	1	0	2	3	5	1	0	0	0	0	0	0	0	12
6:00	0	0	1	1	4	0	0	0	0	0	0	0	0	6
7:00	0	2	1	1	2	0	0	0	0	0	0	0	0	6
8:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2
9:00	0	0	0	2	0	1	0	0	0	0	0	0	0	3
10:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8	9	24	71	63	14	3	0	0	0	0	0	0	192

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/23/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00	0	0	0	1	2	1	0	0	0	0	0	0	0	4
6:00	2	2	0	2	5	0	0	0	0	0	0	0	0	11
7:00	1	2	1	4	4	1	0	0	0	0	0	0	0	13
8:00	0	1	4	6	4	4	0	0	0	0	0	0	0	19
9:00	0	0	2	6	6	2	0	0	0	0	0	0	0	16
10:00	1	0	3	9	11	2	0	0	0	0	0	0	0	26
11:00	2	2	1	6	7	1	0	0	0	0	0	0	0	19
12:00 PM	0	0	2	3	7	2	0	0	0	0	0	0	0	14
1:00	1	2	2	9	6	2	0	0	0	0	0	0	0	22
2:00	1	1	0	7	4	1	0	0	0	0	0	0	0	14
3:00	1	2	7	8	3	1	0	0	0	0	0	0	0	22
4:00	2	0	1	6	4	3	0	0	0	0	0	0	0	16
5:00	0	0	7	8	8	2	0	0	0	0	0	0	0	25
6:00	0	0	1	5	9	0	0	0	0	0	0	0	0	15
7:00	2	0	2	3	0	1	0	0	0	0	0	0	0	8
8:00	0	0	0	2	1	0	1	0	0	1	0	0	0	5
9:00	0	0	0	2	0	0	0	0	0	0	0	0	0	2
10:00	0	0	1	2	0	0	0	0	0	0	0	0	0	3
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	14	12	34	89	83	23	1	0	0	1	0	0	0	257

Project Name: South Shore Village
 Town / City, State: South Kingstown, RI
 Roadway: Gravelly Hill Road
 Location: Approximately 450' east of Shannock Road

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865
 401.333.2382

Start Date: 5/17/2023
 End Date: 5/24/2023

Direction: East, Lane 2

5/24/2023	0 - 15	> 15 -	> 20 -	> 25 -	> 30 -	> 35 -	> 40 -	> 45 -	> 50 -	> 55 -	> 60 -	> 65 -	> 70	Total
Time	MPH	20 MPH	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	70 MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
2:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1
4:00	0	0	1	1	0	0	0	0	0	0	0	0	0	2
5:00	0	0	0	2	1	1	0	0	0	0	0	0	0	4
6:00	0	1	1	3	2	0	0	0	0	0	0	0	0	7
7:00	0	0	0	8	5	3	1	0	0	0	0	0	0	17
8:00	1	0	3	6	1	1	1	0	0	0	0	0	0	13
9:00	0	0	4	8	7	0	0	0	0	0	0	0	0	19
10:00	0	0	2	5	10	0	0	0	0	0	0	0	0	17
11:00	0	1	0	0	2	1	0	0	0	0	0	0	0	4
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
2:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
3:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
4:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
5:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
6:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
7:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
8:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
9:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Total	2	2	11	35	28	6	2	0	0	0	0	0	0	86
Grand Total	52	51	199	555	493	114	20	1	0	1	0	0	0	1486
Stats			Percentile	15th	50th	85th	95th							
			Speed	24	29	34	37							
			Mean Speed (Average)	28.5										
			10 MPH Pace Speed	25-34										
			Number in Pace	1042										
			Percent in Pace	70.1%										
			Number > 25 MPH	1184										
			Percent > 25 MPH	79.7%										

A

Turning Movement Count

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865

Project: South Shore Village
 Town/City: South Kingstown, RI
 Location: Shannock Road at Gravelly Hill
 Weather: 70s and Sunny

File Name : Gravelly Hill at Shannock
 Site Code : 10936.00
 Start Date : 6/13/2023
 Page No : 1

Groups Printed- All Vehicles - Bikes - Heavy Vehicles

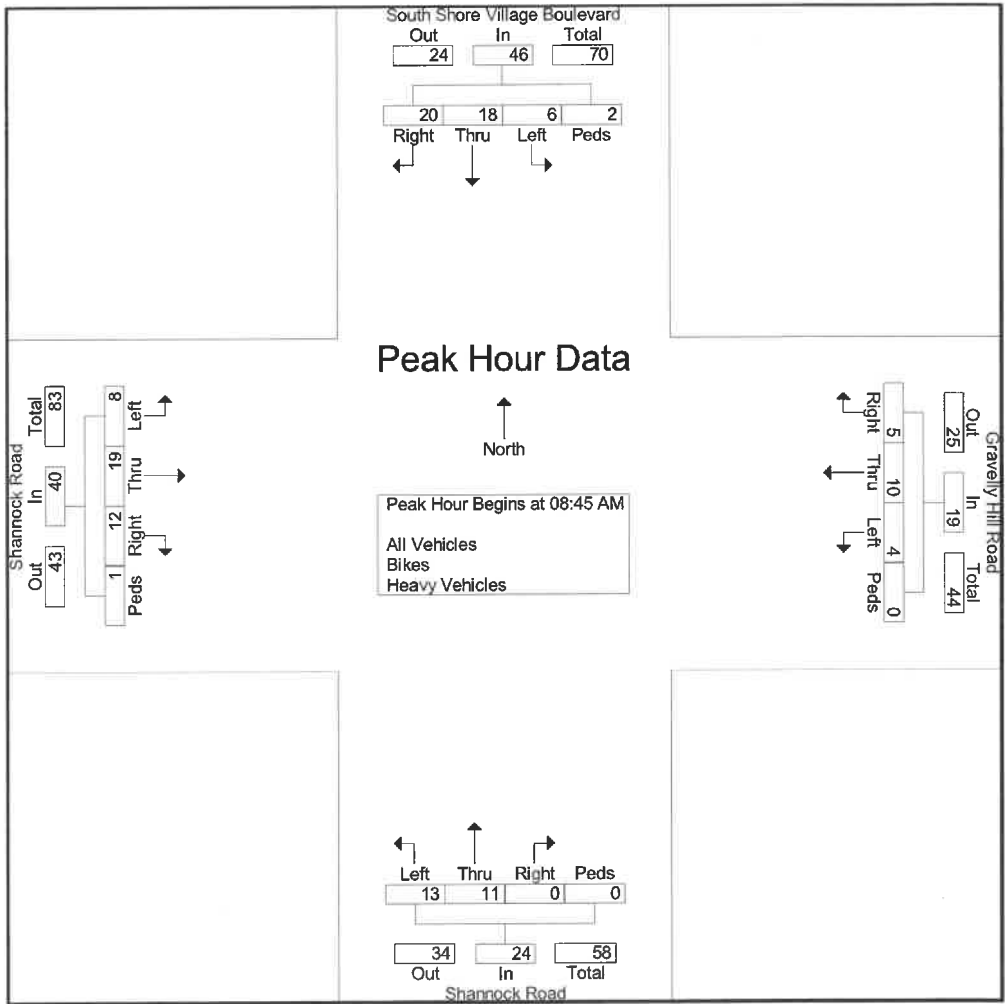
Start Time	South Shore Village Boulevard Southbound					Gravelly Hill Road Westbound					Shannock Road Northbound					Shannock Road Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
08:30 AM	0	3	2	0	5	1	0	1	0	2	5	2	1	0	8	2	6	0	0	8	23
08:45 AM	1	5	3	1	10	2	2	0	0	4	5	4	0	0	9	4	8	3	0	15	38
Total	1	8	5	1	15	3	2	1	0	6	10	6	1	0	17	6	14	3	0	23	61
09:00 AM	1	5	6	0	12	2	2	2	0	6	1	2	0	0	3	3	4	3	1	11	32
09:15 AM	2	4	3	0	9	0	3	1	0	4	3	1	0	0	4	1	4	3	0	8	25
09:30 AM	2	4	8	1	15	0	3	2	0	5	4	4	0	0	8	0	3	3	0	6	34
09:45 AM	0	4	3	0	7	0	3	1	0	4	1	2	0	0	3	2	2	4	0	8	22
Total	5	17	20	1	43	2	11	6	0	19	9	9	0	0	18	6	13	13	1	33	113
10:00 AM	1	5	5	0	11	0	4	4	0	8	2	1	1	0	4	7	6	3	1	17	40
*** BREAK ***																					
Total	1	5	5	0	11	0	4	4	0	8	2	1	1	0	4	7	6	3	1	17	40
*** BREAK ***																					
02:30 PM	0	0	3	0	3	3	2	1	0	6	3	1	1	0	5	0	5	4	0	9	23
02:45 PM	0	7	5	0	12	2	4	2	0	8	6	6	0	0	12	2	1	2	0	5	37
Total	0	7	8	0	15	5	6	3	0	14	9	7	1	0	17	2	6	6	0	14	60
03:00 PM	2	1	4	0	7	0	4	3	0	7	1	6	1	0	8	5	1	3	0	9	31
03:15 PM	2	5	8	0	15	0	4	2	0	6	4	8	0	0	12	7	2	3	0	12	45
03:30 PM	0	5	4	0	9	1	2	0	0	3	3	8	0	0	11	4	4	5	0	13	36
03:45 PM	1	2	2	0	5	0	3	2	0	5	5	5	0	0	10	4	3	3	0	10	30
Total	5	13	18	0	36	1	13	7	0	21	13	27	1	0	41	20	10	14	0	44	142
04:00 PM	0	3	5	0	8	0	6	1	0	7	4	4	0	0	8	5	8	3	0	16	39
04:15 PM	2	2	1	0	5	0	1	2	0	3	1	4	0	0	5	6	6	5	0	17	30
Grand Total	14	55	62	2	133	11	43	24	0	78	48	58	4	0	110	52	63	47	2	164	485
Apprch %	10.5	41.4	46.6	1.5		14.1	55.1	30.8	0		43.6	52.7	3.6	0		31.7	38.4	28.7	1.2		
Total %	2.9	11.3	12.8	0.4	27.4	2.3	8.9	4.9	0	16.1	9.9	12	0.8	0	22.7	10.7	13	9.7	0.4	33.8	
All Vehicles																					
% All Vehicles	92.9	96.4	90.3	100	93.2	72.7	88.4	91.7	0	87.2	91.7	100	50	0	94.5	88.5	88.9	89.4	100	89	91.1
Bikes	0	0	3	0	3	0	1	0	0	1	1	0	0	0	1	2	3	1	0	6	11
% Bikes	0	0	4.8	0	2.3	0	2.3	0	0	1.3	2.1	0	0	0	0.9	3.8	4.8	2.1	0	3.7	2.3
Heavy Vehicles																					
% Heavy Vehicles	7.1	3.6	4.8	0	4.5	27.3	9.3	8.3	0	11.5	6.2	0	50	0	4.5	7.7	6.3	8.5	0	7.3	6.6

BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865

Project: South Shore Village
 Town/City: South Kingstown, RI
 Location: Shannock Road at Gravelly Hill
 Weather: 70s and Sunny

File Name : Gravelly Hill at Shannock
 Site Code : 10936.00
 Start Date : 6/13/2023
 Page No : 3

Start Time	South Shore Village Boulevard Southbound					Gravelly Hill Road Westbound					Shannock Road Northbound					Shannock Road Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 08:30 AM to 11:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:45 AM																					
08:45 AM	1	5	3	1	10	2	2	0	0	4	5	4	0	0	9	4	8	3	0	15	38
09:00 AM	1	5	6	0	12	2	2	2	0	6	1	2	0	0	3	3	4	3	1	11	32
09:15 AM	2	4	3	0	9	0	3	1	0	4	3	1	0	0	4	1	4	3	0	8	25
09:30 AM	2	4	8	1	15	0	3	2	0	5	4	4	0	0	8	0	3	3	0	6	34
Total Volume	6	18	20	2	46	4	10	5	0	19	13	11	0	0	24	8	19	12	1	40	129
% App. Total	13	39.1	43.5	4.3		21.1	52.6	26.3	0		54.2	45.8	0	0		20	47.5	30	2.5		
PHF	.750	.900	.625	.500	.767	.500	.833	.625	.000	.792	.650	.688	.000	.000	.667	.500	.594	1.00	.250	.667	.849

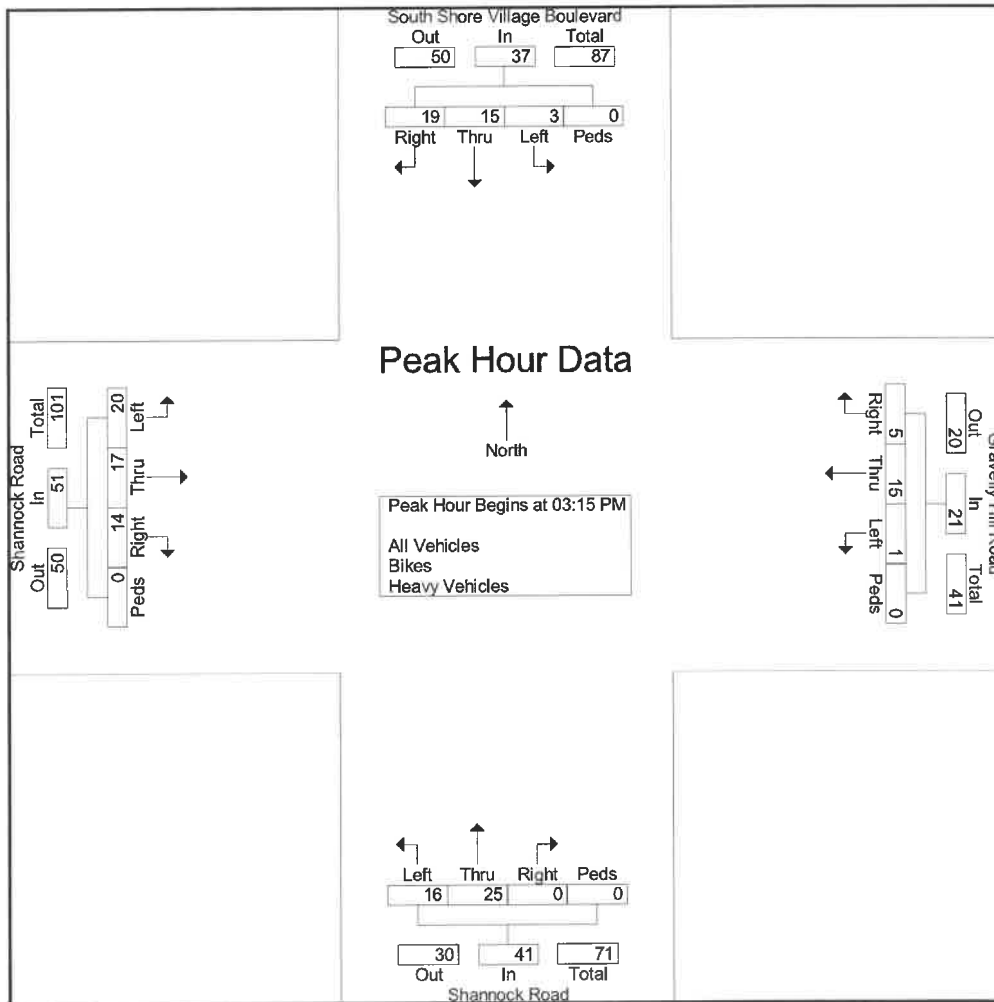


BETA Group, Inc.
 701 George Washington Highway
 Lincoln, Rhode Island 02865

Project: South Shore Village
 Town/City: South Kingstown, RI
 Location: Shannock Road at Gravelly Hill
 Weather: 70s and Sunny

File Name : Gravelly Hill at Shannock
 Site Code : 10936.00
 Start Date : 6/13/2023
 Page No : 4

Start Time	South Shore Village Boulevard Southbound					Gravelly Hill Road Westbound					Shannock Road Northbound					Shannock Road Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 03:00 PM to 04:15 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 03:15 PM																					
03:15 PM	2	5	8	0	15	0	4	2	0	6	4	8	0	0	12	7	2	3	0	12	45
03:30 PM	0	5	4	0	9	1	2	0	0	3	3	8	0	0	11	4	4	5	0	13	36
03:45 PM	1	2	2	0	5	0	3	2	0	5	5	5	0	0	10	4	3	3	0	10	30
04:00 PM	0	3	5	0	8	0	6	1	0	7	4	4	0	0	8	5	8	3	0	16	39
Total Volume	3	15	19	0	37	1	15	5	0	21	16	25	0	0	41	20	17	14	0	51	150
% App. Total	8.1	40.5	51.4	0		4.8	71.4	23.8	0		39	61	0	0		39.2	33.3	27.5	0		
PHF	.375	.750	.594	.000	.617	.250	.625	.625	.000	.750	.800	.781	.000	.000	.854	.714	.531	.700	.000	.797	.833



APPENDIX B – Traffic Crash Data

**January 2018 through December 2019 and January 2022 through December
2022**

Shannock Road

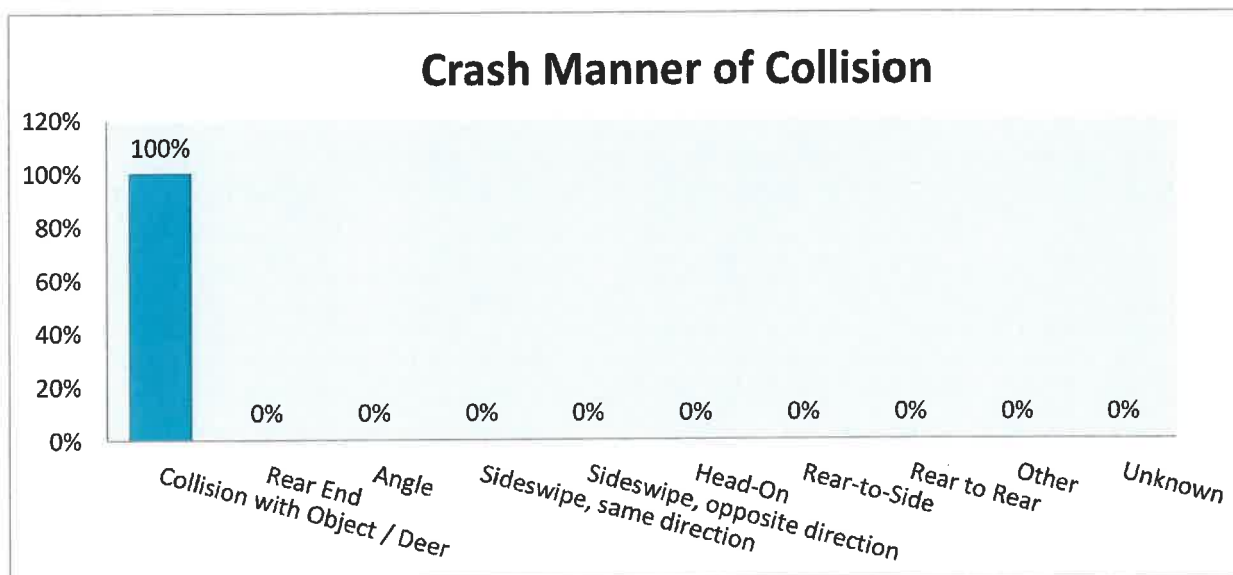
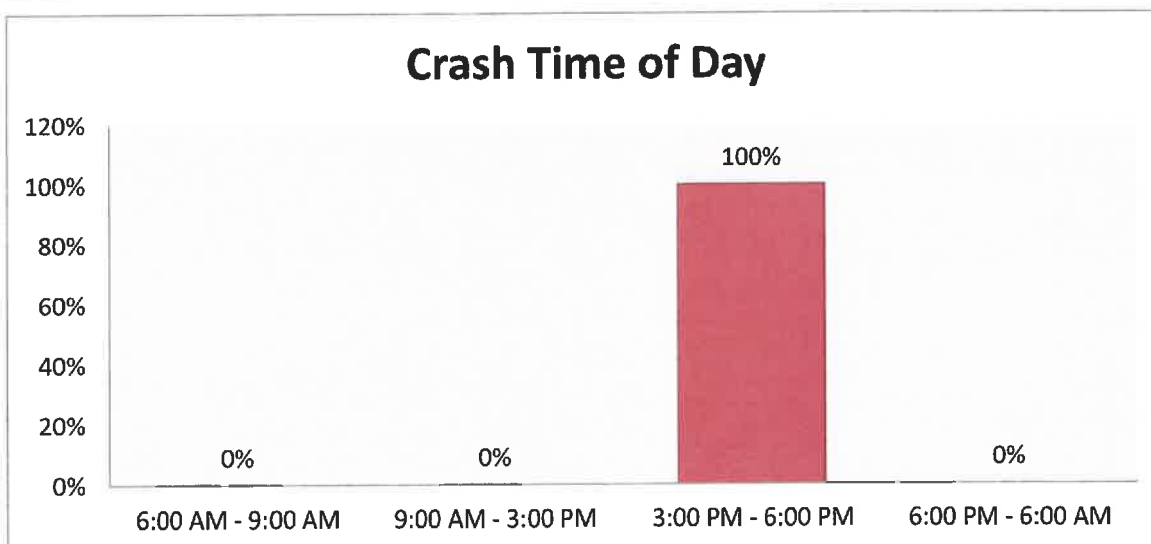
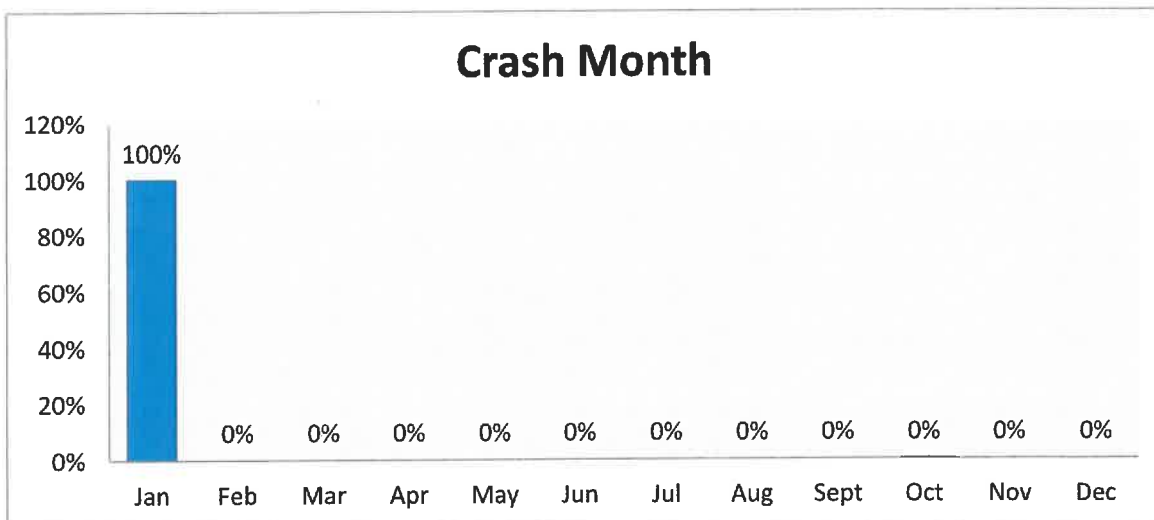
Crash Data Summary

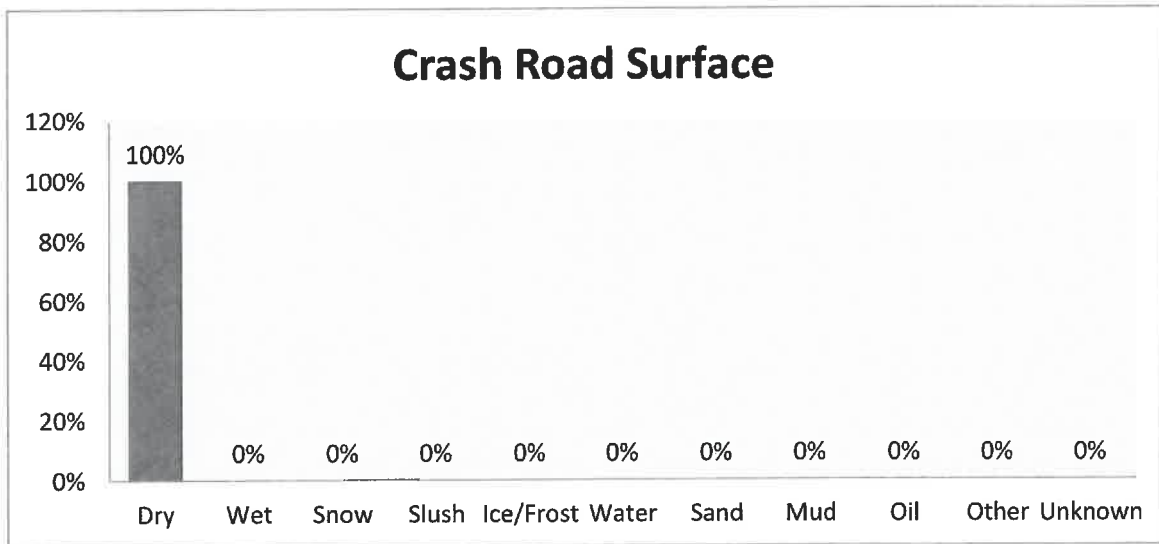
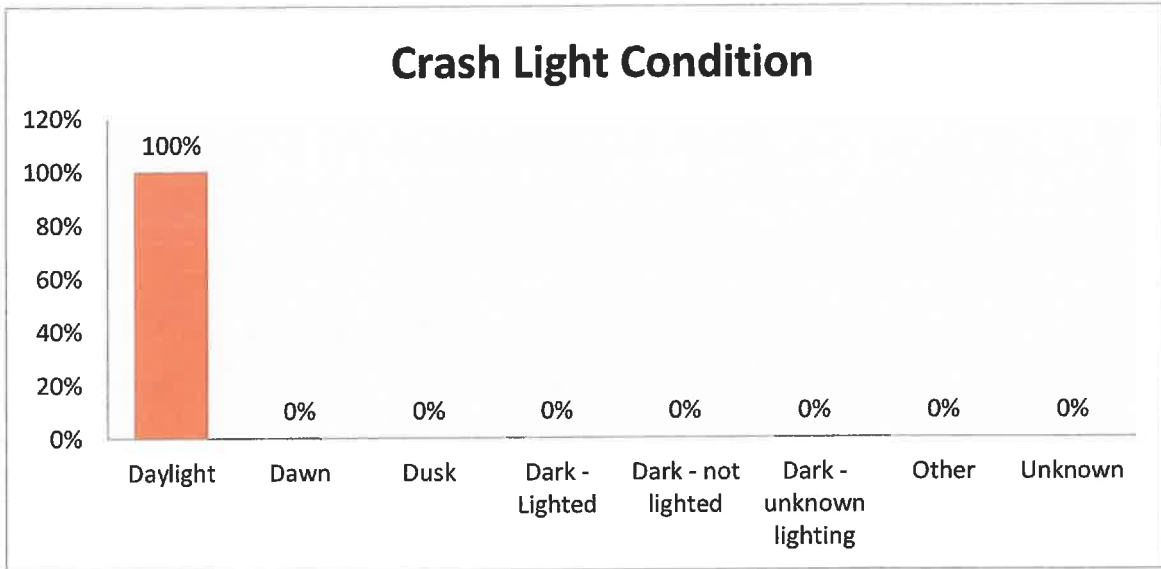
	Year			Total	Average per Year
	2018	2019	2022		
Roadways					
Shannock Road	1	0	0	1	1
Total	1	0	0	1	1

Shannock Road

	2018	2019	2022	Total	Percent
Collision Type					
Rear End	0	0	0	0	0%
Angle	0	0	0	0	0%
Head-On	0	0	0	0	0%
Pedestrian	0	0	0	0	0%
Sideswipe, Same Direction	0	0	0	0	0%
Sideswipe, Opposite Direction	0	0	0	0	0%
Rear-to-Side	0	0	0	0	0%
Rear-to-Rear	0	0	0	0	0%
Collision with Object / Deer	1	0	0	1	100%
Other	0	0	0	0	0%
Unknown	0	0	0	0	0%
Crash Severity					
Property	0	0	0	0	0%
Injury	1	0	0	1	100%
Fatal	0	0	0	0	0%
Light Condition					
Daylight	1	0	0	1	100%
Dawn	0	0	0	0	0%
Dusk	0	0	0	0	0%
Dark - Lighted	0	0	0	0	0%
Dark - Not Lighted	0	0	0	0	0%
Dark - Unknown Lighting	0	0	0	0	0%
Other	0	0	0	0	0%
Unknown	0	0	0	0	0%
Road Condition					
Dry	1	0	0	1	100%
Wet	0	0	0	0	0%
Snow	0	0	0	0	0%
Slush	0	0	0	0	0%
Ice/Frost	0	0	0	0	0%
Water	0	0	0	0	0%
Sand	0	0	0	0	0%
Mud, Dirt, Gravel	0	0	0	0	0%
Oil	0	0	0	0	0%
Other	0	0	0	0	0%
Unknown	0	0	0	0	0%
Hour of Day					
6:00 AM - 9:00 AM	0	0	0	0	0%
9:00 AM - 3:00 PM	0	0	0	0	0%
3:00 PM - 6:00 PM	1	0	0	1	100%
6:00 PM - 6:00 AM	0	0	0	0	0%
Total Crashes:	1	0	0	1	

Crash Data Summary Charts





APPENDIX C – Trip Generation

ITE Trip Generation Summary

Site Trip Distribution

ITE Land Use Code

ITE Land Use Code 251 – Senior Adult Housing – Single Family

ITE Land Use Code 430 – Golf Course

C

ITE Trip Generation Summary

Trip Generation Summary

Summary;

	<u>Description</u>	<u>Enter</u>	<u>Exit</u>	<u>Total</u>
<i><u>Weekday AM Peak Hour</u></i>				
ITE Land Use Code 251	Senior Adult Housing - Single Family	15	31	46
ITE Land Use Code 430	Golf Course	13	3	16
	Total	28	34	62
<i><u>Weekday PM Peak Hour</u></i>				
ITE Land Use Code 251	Senior Adult Housing - Single Family	32	21	53
ITE Land Use Code 430	Golf Course	14	12	26
	Total	46	33	79

Calculations;

ITE Land Use Code 251 Senior Adult Housing - Single Family (125 Dwelling Units)

Independent Variable (X) = Dwelling Units

$X = 125$

AM Peak*Directional Distribution:*

33% Entering 67% Exiting

$$\begin{aligned} \text{LN(T)} &= 0.76 \times \text{LN(X)} + 0.16 \\ \text{T} &= 0.76 \times 4.83 + 0.16 \\ \text{T} &= 46 \end{aligned}$$

$$\begin{array}{r} \text{Enter: } 15 \\ \text{Exit: } 31 \\ \hline \text{Total: } 46 \end{array}$$

AM Peak*Directional Distribution:*

61% Entering 39% Exiting

$$\begin{aligned} \text{LN(T)} &= 0.78 \times \text{LN(X)} + 0.2 \\ \text{T} &= 0.78 \times 4.83 + 0.2 \\ \text{T} &= 53 \end{aligned}$$

$$\begin{array}{r} \text{Enter: } 32 \\ \text{Exit: } 21 \\ \hline \text{Total: } 53 \end{array}$$

ITE Land Use Code 430 Golf Course (9 Holes)

Independent Variable (X) = Holes

$X = 9$

AM Peak*Directional Distribution:*

79% Entering 21% Exiting

$$\begin{aligned} \text{T} &= 1.76 \times (X) \\ \text{T} &= 1.76 \times 9 \\ \text{T} &= 16 \end{aligned}$$

$$\begin{array}{r} \text{Enter: } 13 \\ \text{Exit: } 3 \\ \hline \text{Total: } 16 \end{array}$$

PM Peak*Directional Distribution:*

53% Entering 47% Exiting

$$\begin{aligned} \text{T} &= 2.91 \times (X) \\ \text{T} &= 2.91 \times 9 \\ \text{T} &= 26 \end{aligned}$$

$$\begin{array}{r} \text{Enter: } 14 \\ \text{Exit: } 12 \\ \hline \text{Total: } 26 \end{array}$$

C

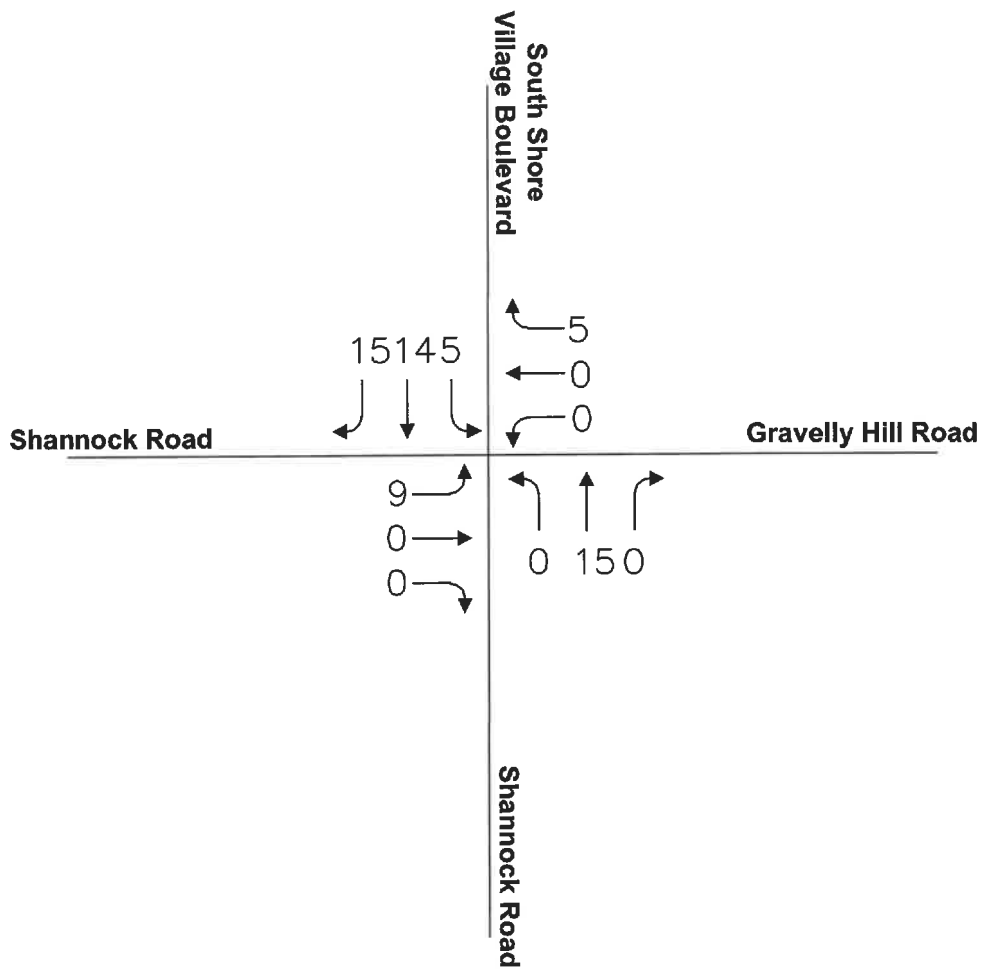
Site Trip Distribution

Site Trips:

Enter: 28
Exit: 34
Total: 62



SITE



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**SITE TRIP DISTRIBUTION
WEEKDAY AM PEAK HOUR**

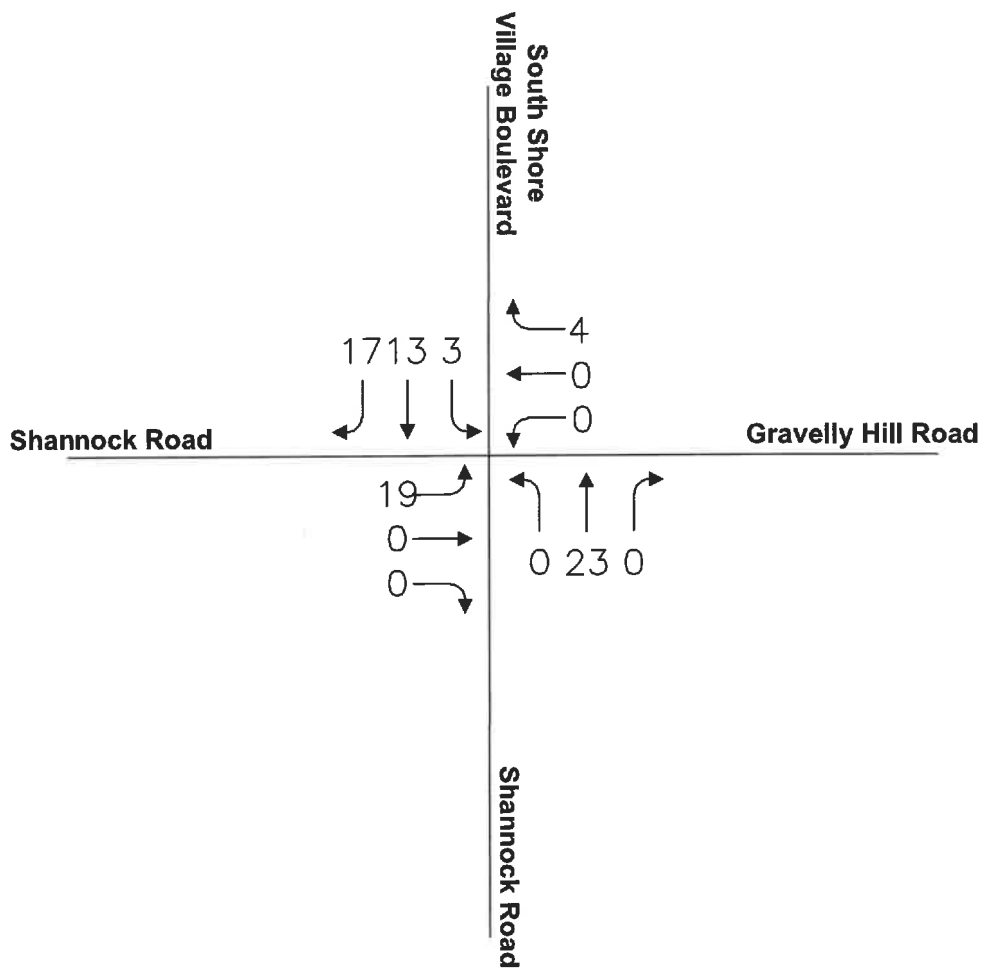
**PROPOSED MIXED-USE DEVELOPMENT
SOUTH KINGSTOWN, RHODE ISLAND**

Site Trips:

Enter: 46
Exit: 33
Total: 79



SITE



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**SITE TRIP DISTRIBUTION
WEEKDAY PM PEAK HOUR**

**PROPOSED MIXED-USE DEVELOPMENT
SOUTH KINGSTOWN, RHODE ISLAND**

C

ITE Land Use Code

ITE Land Use Code 251 – Senior Adult Housing

ITE Land Use Code 430 – Golf Course

ITE Land Use Code 251 – Senior Adult Housing

Land Use: 251

Senior Adult Housing—Single-Family

Description

Senior adult housing—single-family sites are independent living developments that are called various names including retirement communities, age-restricted housing, and active adult communities. The development has a specific age restriction for its residents, typically a minimum of 55 years of age for at least one resident of the household.

Residents in these communities are typically considered active and requiring little to no medical supervision. The percentage of retired residents varies by development. The development may include amenities such as a golf course, swimming pool, 24-hour security, transportation, and common recreational facilities. They generally lack centralized dining and on-site health facilities.

The dwelling units can be either detached or attached. The types of housing types represented by sites in the database include traditional single-family detached homes, patio homes, duplexes, and townhouses. Single-family attached housing includes any single-family housing unit that shares a wall with an adjoining dwelling unit, whether the walls are for living space, a vehicle garage, or storage space.

Senior adult housing—multifamily (Land Use 252), congregate care facility (Land Use 253), assisted living (Land Use 254), and continuing care retirement community (Land Use 255) are related land uses.

Additional Data

Caution should be used when applying trip rates for this land use as it may contain a wide variety of studies ranging from communities with very active, working residents to communities with older, retired residents. As more data become available, consideration will be given to future stratification of this land use.

Many factors affected the trip rates for detached senior adult housing. Factors such as the average age of residents, development location and size, affluence of residents, employment status, and vehicular access should be taken into consideration when conducting an analysis. Some developments were located within close proximity to medical facilities, restaurants, shopping centers, banks, and recreational activities.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (<https://www.ite.org/technical-resources/topics/trip-and-parking-generation/>).

For the six sites for which data were provided for both occupied dwelling units and total dwelling units, an average of 98 percent of the units were occupied.

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Delaware, Florida, Maryland, New Jersey, New York, Pennsylvania, Virginia, and Washington.

Source Numbers

221, 289, 398, 421, 500, 550, 598, 601, 602, 629, 930, 1015, 1060, 1074

Senior Adult Housing - Single-Family (251)

Vehicle Trip Ends vs: Dwelling Units

On a: **Weekday,**

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 34

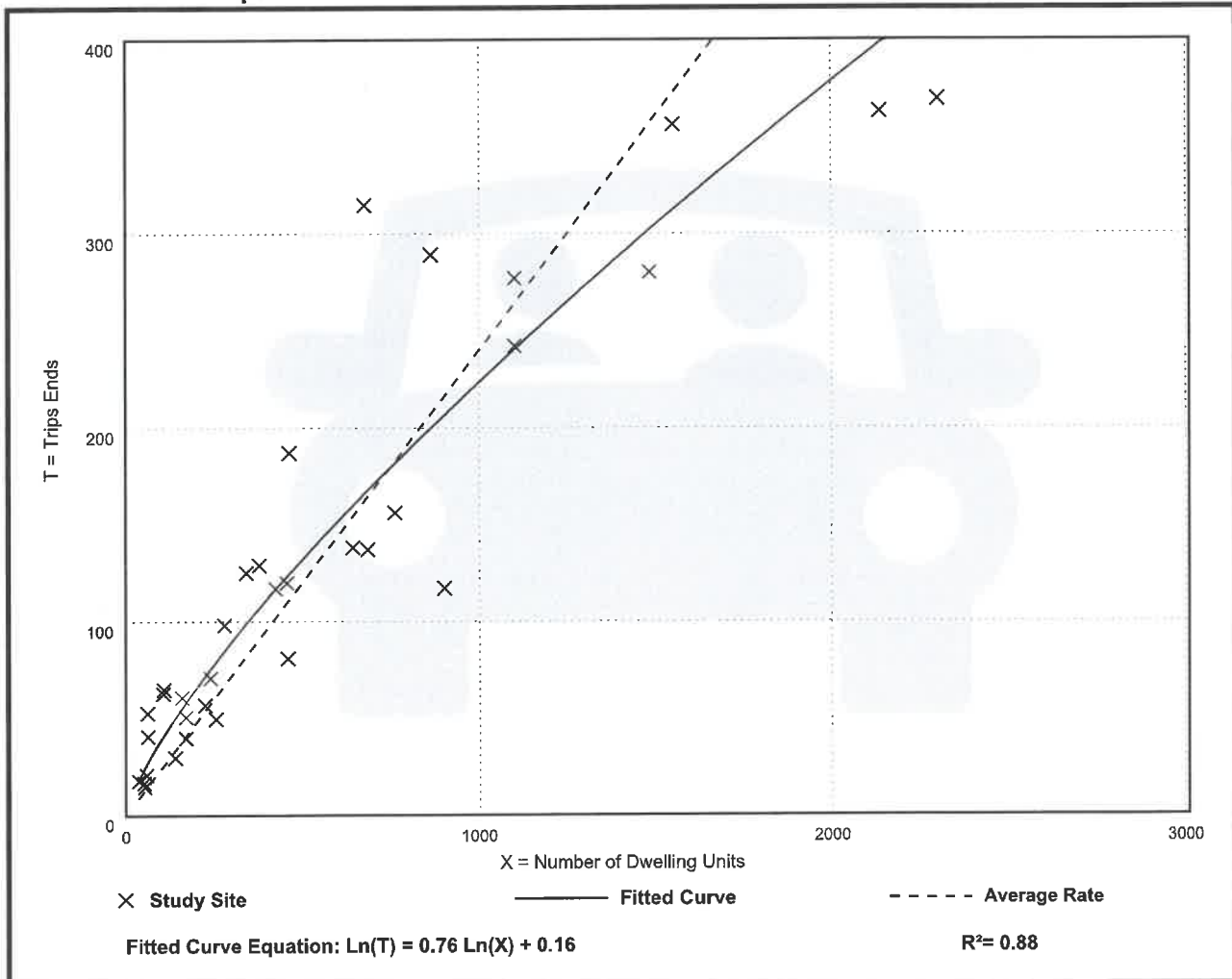
Avg. Num. of Dwelling Units: 557

Directional Distribution: 33% entering, 67% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.24	0.13 - 0.84	0.10

Data Plot and Equation



Senior Adult Housing - Single-Family (251)

Vehicle Trip Ends vs: Dwelling Units

On a: **Weekday,**

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 35

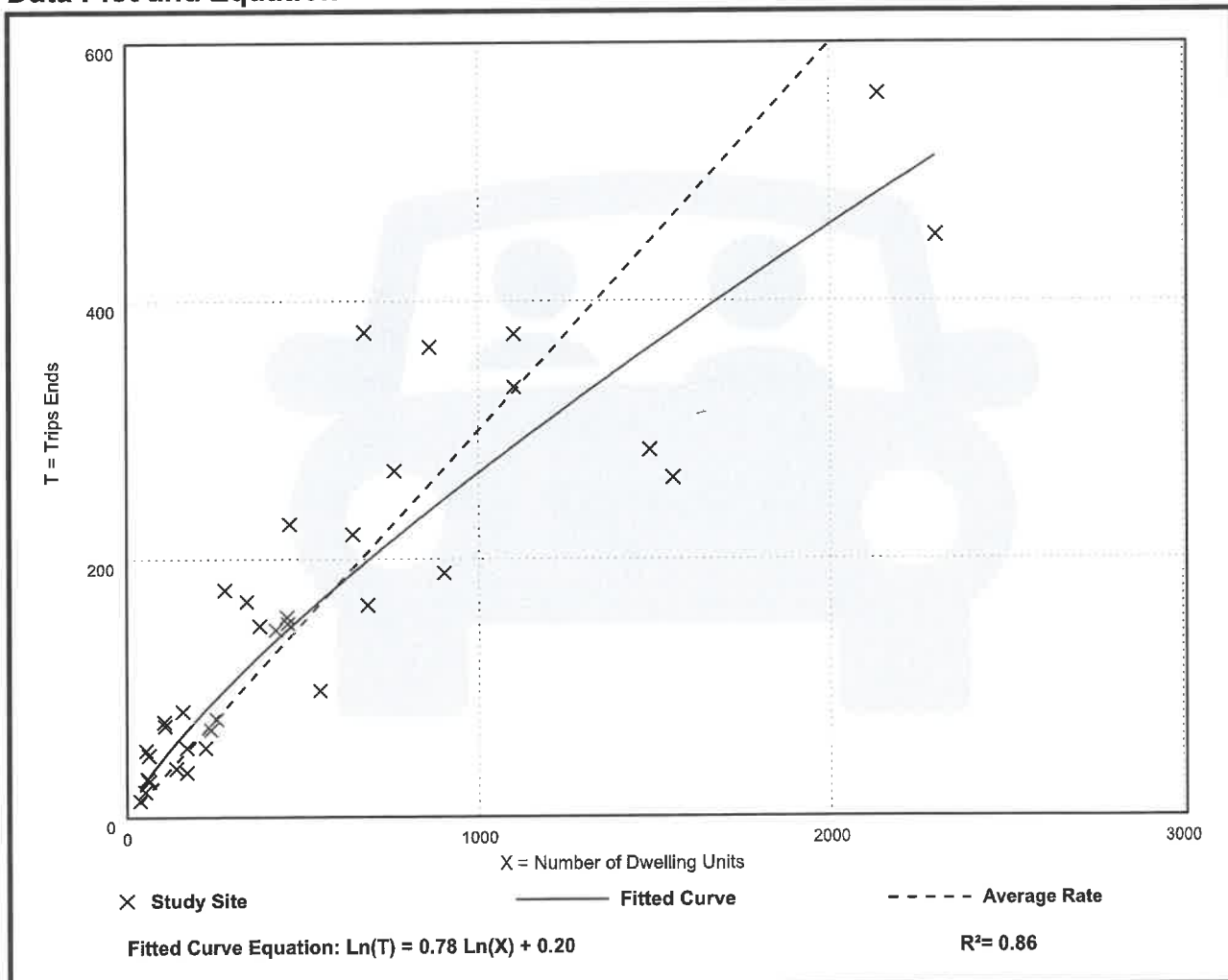
Avg. Num. of Dwelling Units: 556

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.30	0.17 - 0.95	0.12

Data Plot and Equation



ITE Land Use Code 430 – Golf Course

Land Use: 430

Golf Course

Description

A golf course is an expansive landscaped area that includes a series of golf holes, each consisting of a tee, fairway, and putting green. The site may have a driving range, clubhouse with a pro shop, restaurant, lounge, or banquet facility. Miniature golf course (Land Use 431), golf driving range (Land Use 432), and multipurpose recreational facility (Land Use 435) are related uses.

Additional Data

The golf courses in this land use are 9-, 18-, and 36-hole municipal courses.

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, New Jersey, New York, Oregon, Pennsylvania, and Vermont.

Source Numbers

378, 407, 440, 629, 728, 925, 940, 970

Golf Course (430)

Vehicle Trip Ends vs: Holes

On a: **Weekday,**

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 15

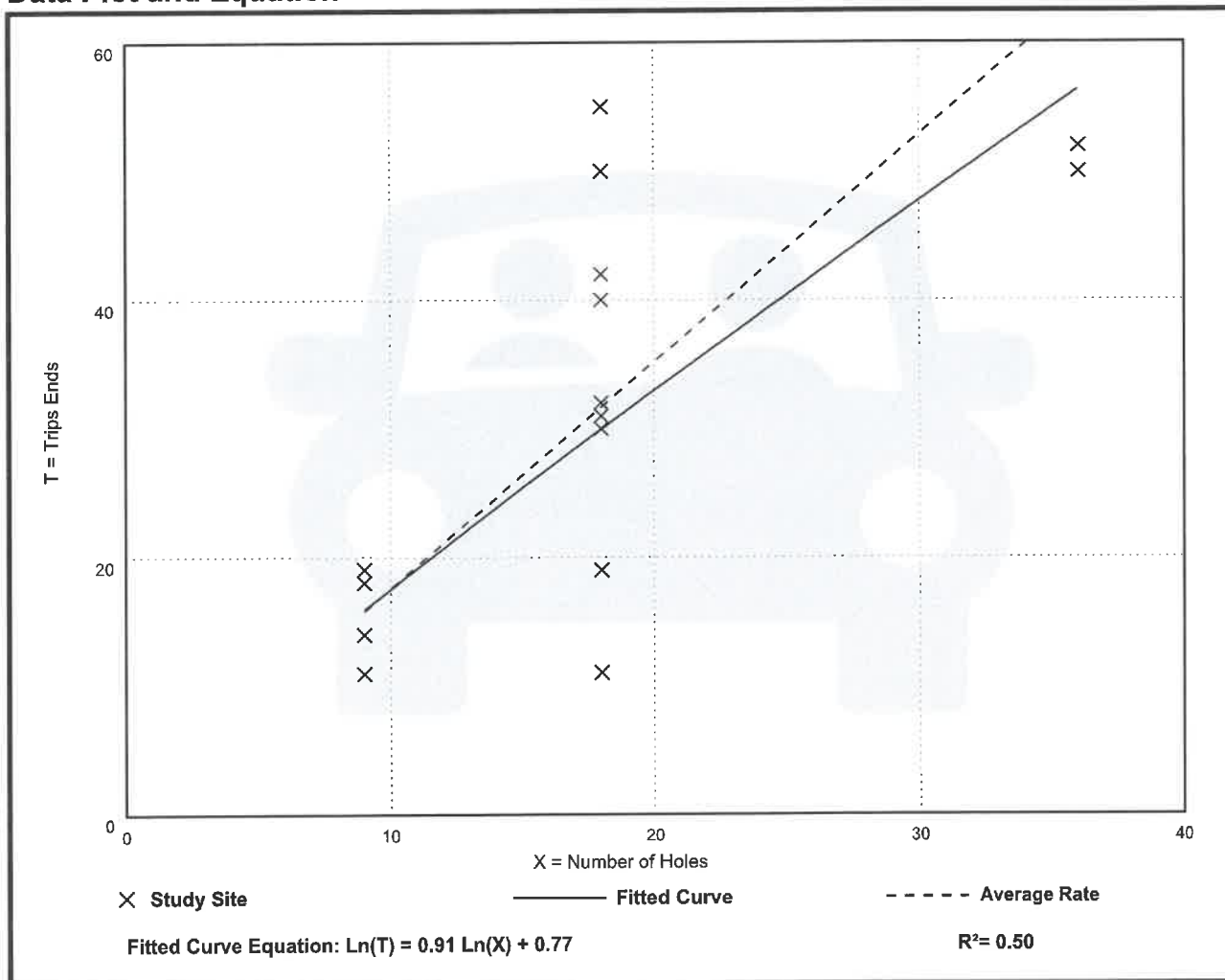
Avg. Num. of Holes: 18

Directional Distribution: 79% entering, 21% exiting

Vehicle Trip Generation per Hole

Average Rate	Range of Rates	Standard Deviation
1.76	0.61 - 3.06	0.64

Data Plot and Equation



Golf Course (430)

Vehicle Trip Ends vs: Holes

On a: **Weekday,**

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 14

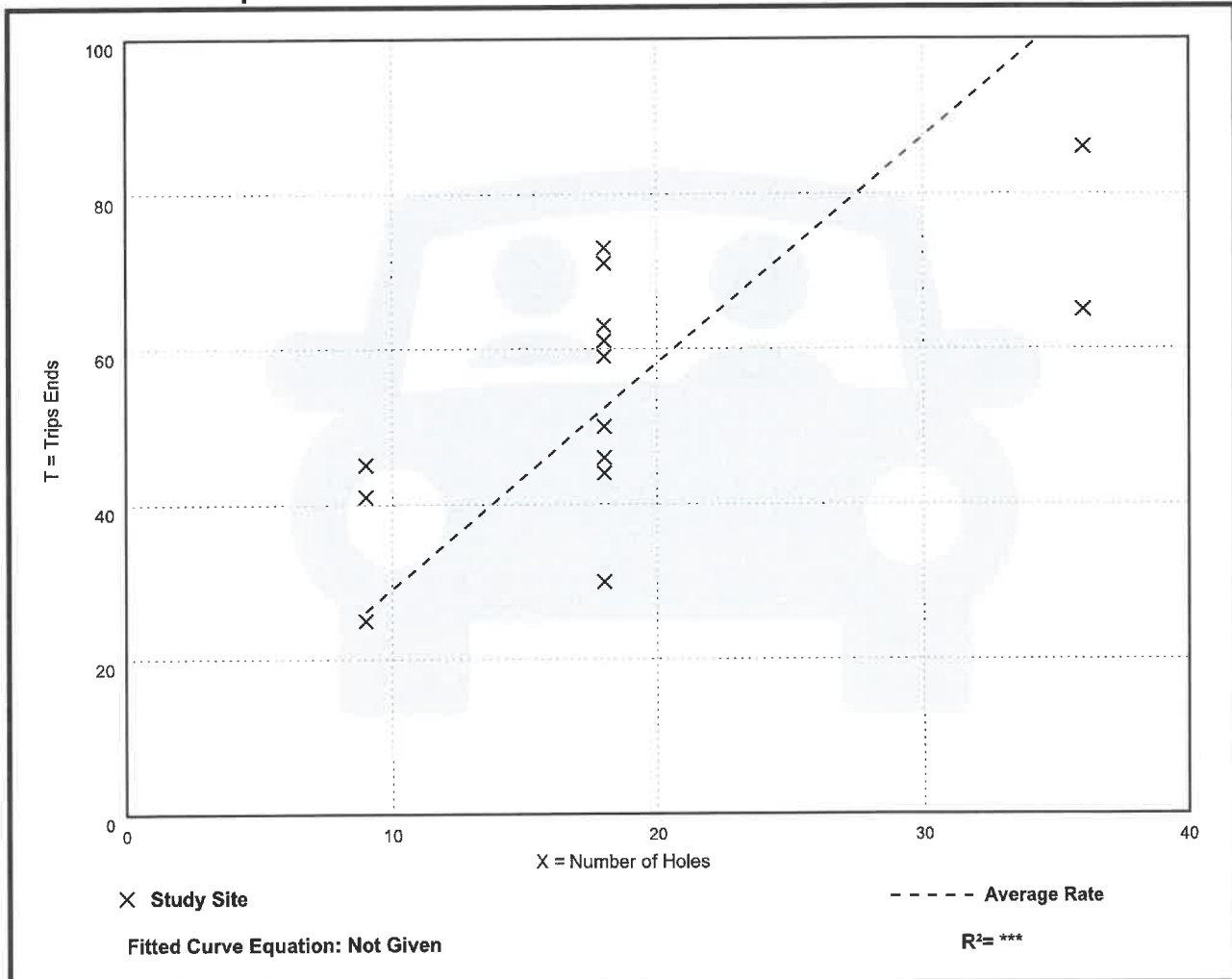
Avg. Num. of Holes: 19

Directional Distribution: 53% entering, 47% exiting

Vehicle Trip Generation per Hole

Average Rate	Range of Rates	Standard Deviation
2.91	1.67 - 5.00	0.93

Data Plot and Equation



APPENDIX D – Operational Analysis

Existing Conditions

Shannock Road at Gravelly Hill Road and South Shore Village

Future No-Build Conditions

Shannock Road at Gravelly Hill Road and South Shore Village

Future Build Conditions

Shannock Road at Gravelly Hill Road and South Shore Village

D

Existing Weekday AM / PM Peak Hour

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard



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Turning Movement Diagram

Major Street: Shannock Road

Minor Street: Gravelly Hill Road

City/Town: South Kingstown, RI

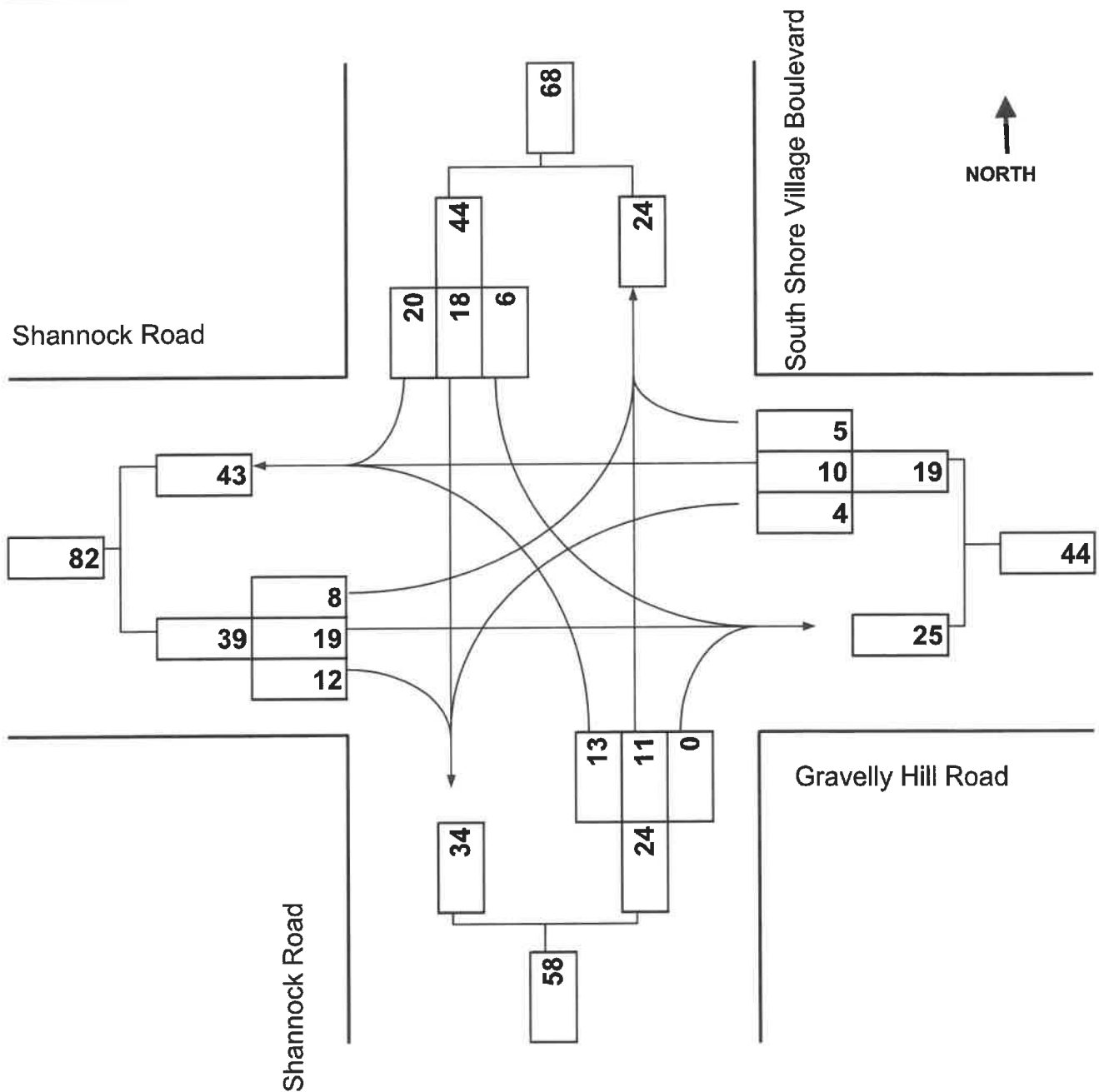
Day of Week: Weekday

Reference No.: 10936

Peak Period: AM Peak Hour

Existing: 2023 Volumes

Future: N/A



3: Shannock Road & Gravelly Hill Road & South Shore Village Boulevard

Intersection

Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	8	19	12	4	10	5	13	11	0	6	18	20
Future Vol, veh/h	8	19	12	4	10	5	13	11	0	6	18	20
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Heavy Vehicles, %	11	11	9	0	11	8	8	0	33	0	3	9
Mvmt Flow	9	22	14	5	12	6	15	13	0	7	21	24
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.4	7.1	7.5	7.1
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	54%	21%	21%	14%
Vol Thru, %	46%	49%	53%	41%
Vol Right, %	0%	31%	26%	45%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	24	39	19	44
LT Vol	13	8	4	6
Through Vol	11	19	10	18
RT Vol	0	12	5	20
Lane Flow Rate	28	46	22	52
Geometry Grp	1	1	1	1
Degree of Util (X)	0.034	0.052	0.025	0.055
Departure Headway (Hd)	4.303	4.099	3.958	3.795
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	830	871	900	940
Service Time	2.342	2.138	2.003	1.834
HCM Lane V/C Ratio	0.034	0.053	0.024	0.055
HCM Control Delay	7.5	7.4	7.1	7.1
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0.1	0.2



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Turning Movement Diagram

Major Street: Shannock Road

City/Town: South Kingstown, RI

Reference No.: 10936

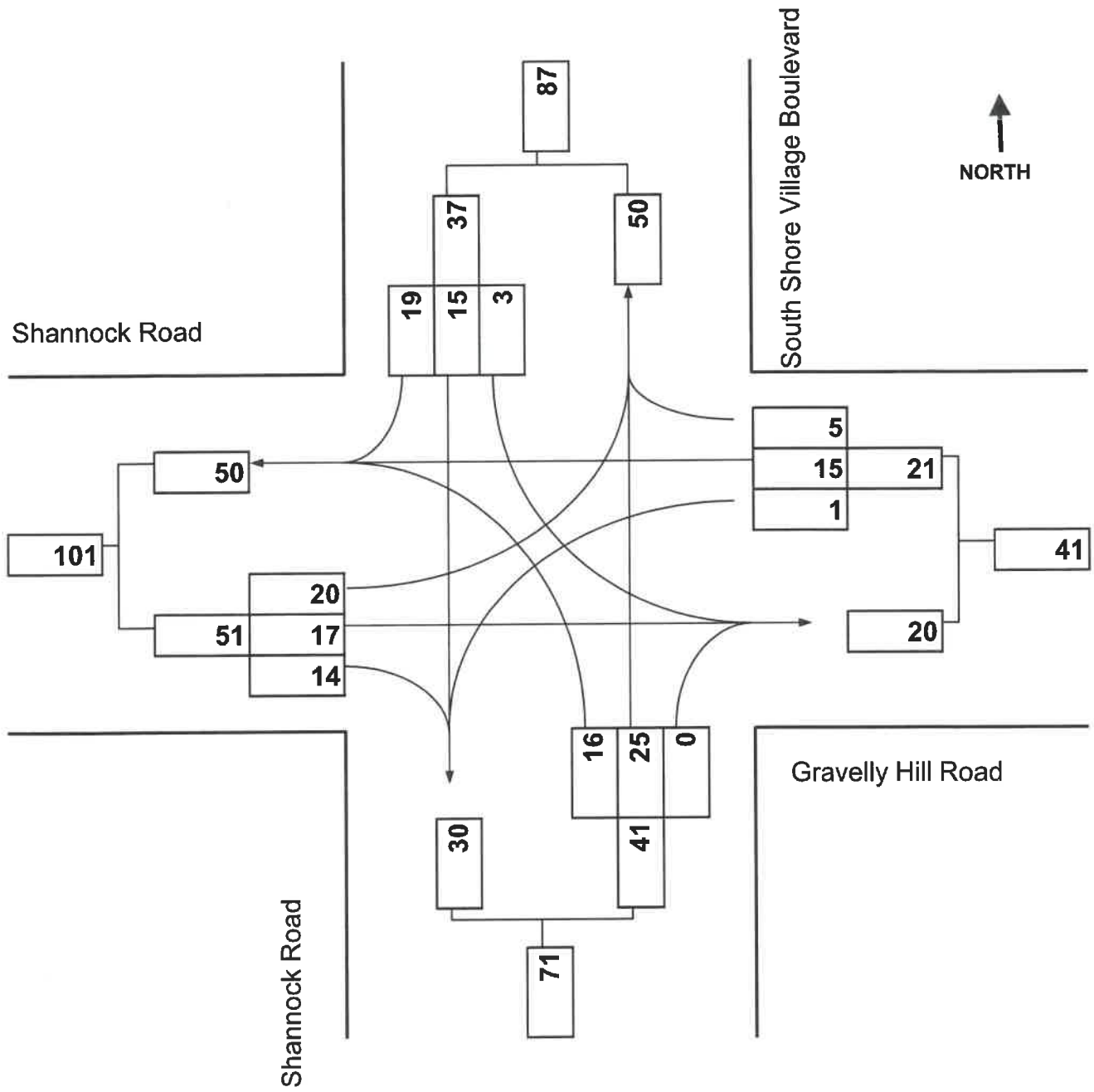
Existing: 2023 Volumes

Minor Street: Gravelly Hill Road

Day of Week: Weekday

Peak Period: PM Peak Hour

Future: N/A



3: Shannock Road & Gravelly Hill Road & South Shore Village Boulevard

Intersection

Intersection Delay, s/veh	7.4
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	17	14	1	15	5	16	25	0	3	15	19
Future Vol, veh/h	20	17	14	1	15	5	16	25	0	3	15	19
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	6	0	7	5	8	8	4	0	50	14	4	6
Mvmt Flow	24	20	17	1	18	6	19	30	0	4	18	23
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.5	7.2	7.5	7.3
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	39%	39%	5%	8%
Vol Thru, %	61%	33%	71%	41%
Vol Right, %	0%	27%	24%	51%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	41	51	21	37
LT Vol	16	20	1	3
Through Vol	25	17	15	15
RT Vol	0	14	5	19
Lane Flow Rate	49	61	25	45
Geometry Grp	1	1	1	1
Degree of Util (X)	0.058	0.07	0.029	0.05
Departure Headway (Hd)	4.231	4.098	4.063	4.034
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	841	868	874	881
Service Time	2.283	2.151	2.123	2.09
HCM Lane V/C Ratio	0.058	0.07	0.029	0.051
HCM Control Delay	7.5	7.5	7.2	7.3
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.2	0.2	0.1	0.2

D

2028 Future No-Build Weekday AM / PM Peak Hour

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard



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Turning Movement Diagram

Major Street: Shannock Road

City/Town: South Kingstown, RI

Reference No.: 10936

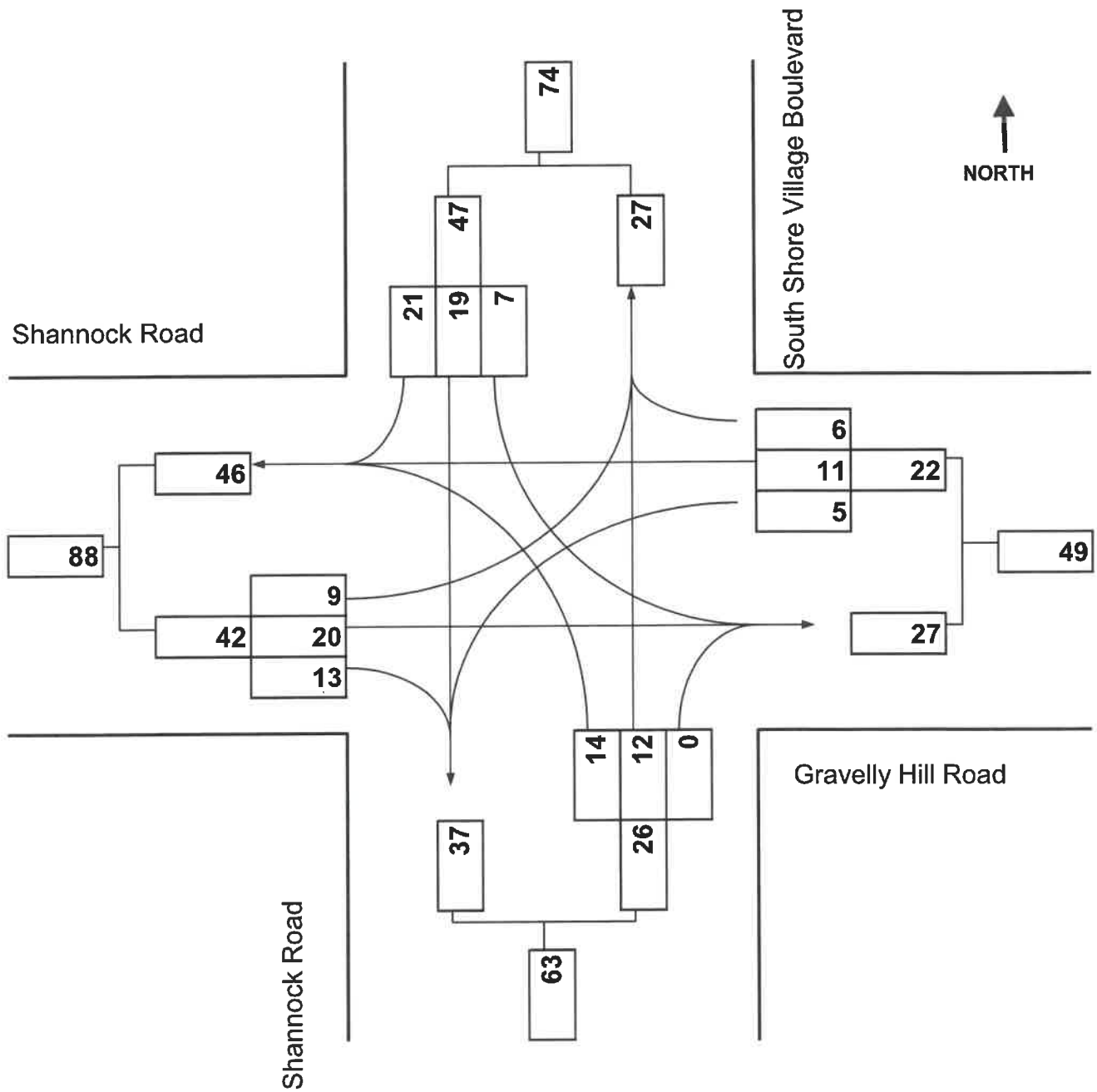
Existing: N/A

Minor Street: Gravelly Hill Road

Day of Week: Weekday

Peak Period: AM Peak Hour

Future: 2028 No Build



3: Shannock Road & Gravelly Hill Road & South Shore Village Boulevard

Intersection

Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔			↔			↔			↔	
Traffic Vol, veh/h	9	20	13	5	11	6	14	12	0	7	19	21
Future Vol, veh/h	9	20	13	5	11	6	14	12	0	7	19	21
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Heavy Vehicles, %	11	11	9	0	11	8	8	0	33	0	3	9
Mvmt Flow	11	24	15	6	13	7	16	14	0	8	22	25
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.4	7.1	7.5	7.1
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	54%	21%	23%	15%
Vol Thru, %	46%	48%	50%	40%
Vol Right, %	0%	31%	27%	45%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	26	42	22	47
LT Vol	14	9	5	7
Through Vol	12	20	11	19
RT Vol	0	13	6	21
Lane Flow Rate	31	49	26	55
Geometry Grp	1	1	1	1
Degree of Util (X)	0.037	0.056	0.029	0.059
Departure Headway (Hd)	4.317	4.112	3.968	3.815
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	826	867	897	934
Service Time	2.361	2.156	2.017	1.859
HCM Lane V/C Ratio	0.038	0.057	0.029	0.059
HCM Control Delay	7.5	7.4	7.1	7.1
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0.2	0.1	0.2

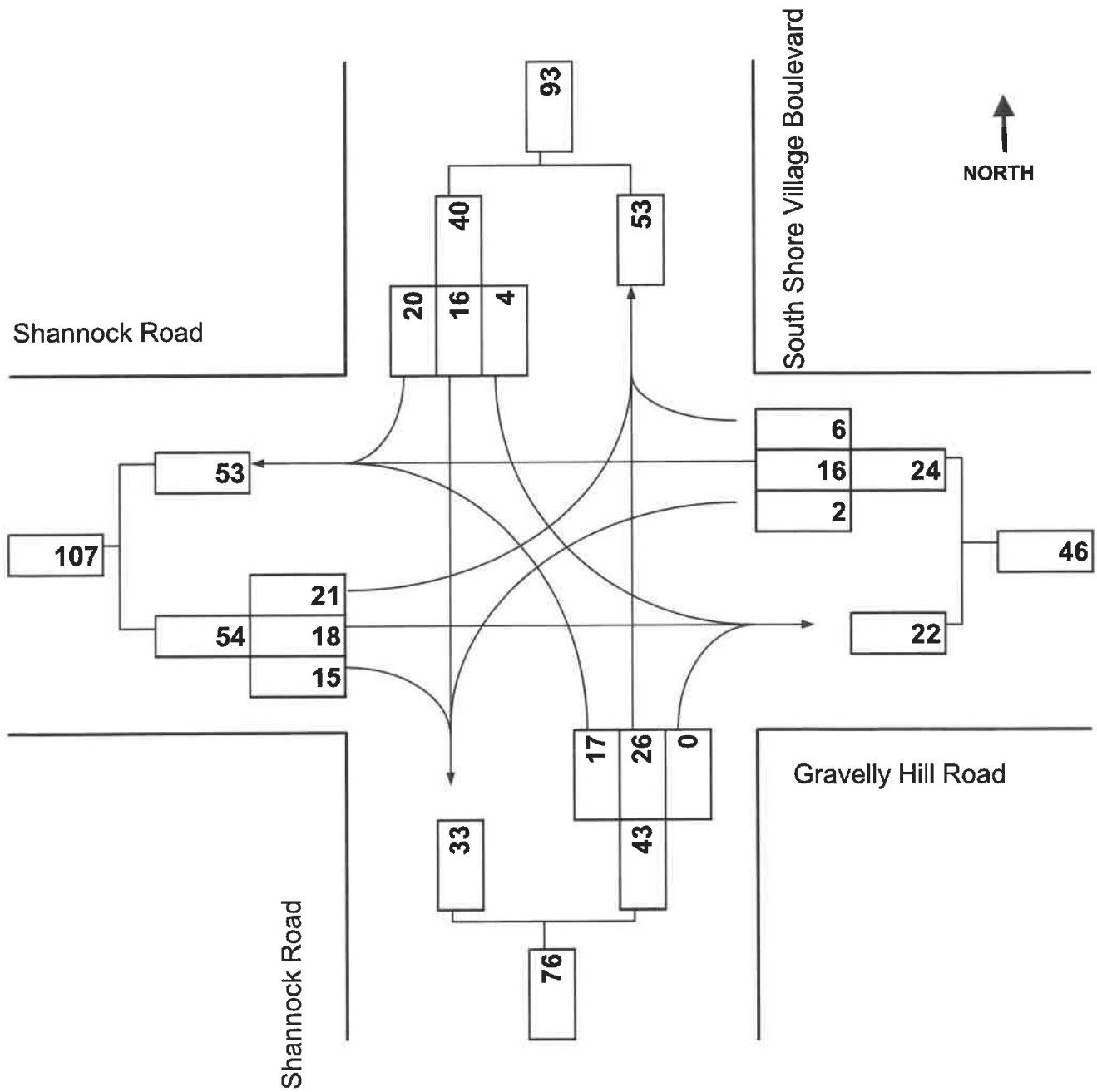


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Turning Movement Diagram

Major Street: Shannock Road
City/Town: South Kingstown, RI
Reference No.: 10936
Existing: N/A

Minor Street: Gravelly Hill Road
Day of Week: Weekday
Peak Period: PM Peak Hour
Future: 2028 No Build



3: Shannock Road & Gravelly Hill Road & South Shore Village Boulevard

Intersection

Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	21	18	15	2	16	6	17	26	0	4	16	20
Future Vol, veh/h	21	18	15	2	16	6	17	26	0	4	16	20
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	6	0	7	5	8	8	4	0	50	14	4	6
Mvmt Flow	25	22	18	2	19	7	20	31	0	5	19	24
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.5	7.3	7.6	7.4
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	39%	8%	10%
Vol Thru, %	60%	33%	67%	40%
Vol Right, %	0%	28%	25%	50%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	43	54	24	40
LT Vol	17	21	2	4
Through Vol	26	18	16	16
RT Vol	0	15	6	20
Lane Flow Rate	52	65	29	48
Geometry Grp	1	1	1	1
Degree of Util (X)	0.061	0.074	0.033	0.054
Departure Headway (Hd)	4.248	4.109	4.075	4.062
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	837	865	870	875
Service Time	2.303	2.165	2.14	2.12
HCM Lane V/C Ratio	0.062	0.075	0.033	0.055
HCM Control Delay	7.6	7.5	7.3	7.4
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.2	0.2	0.1	0.2

D

2028 Future Build Weekday AM / PM Peak Hour

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard

Shannock Road at Gravelly Hill Road and South Shore Village Boulevard



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Turning Movement Diagram

Major Street: Shannock Road

City/Town: South Kingstown, RI

Reference No.: 10936

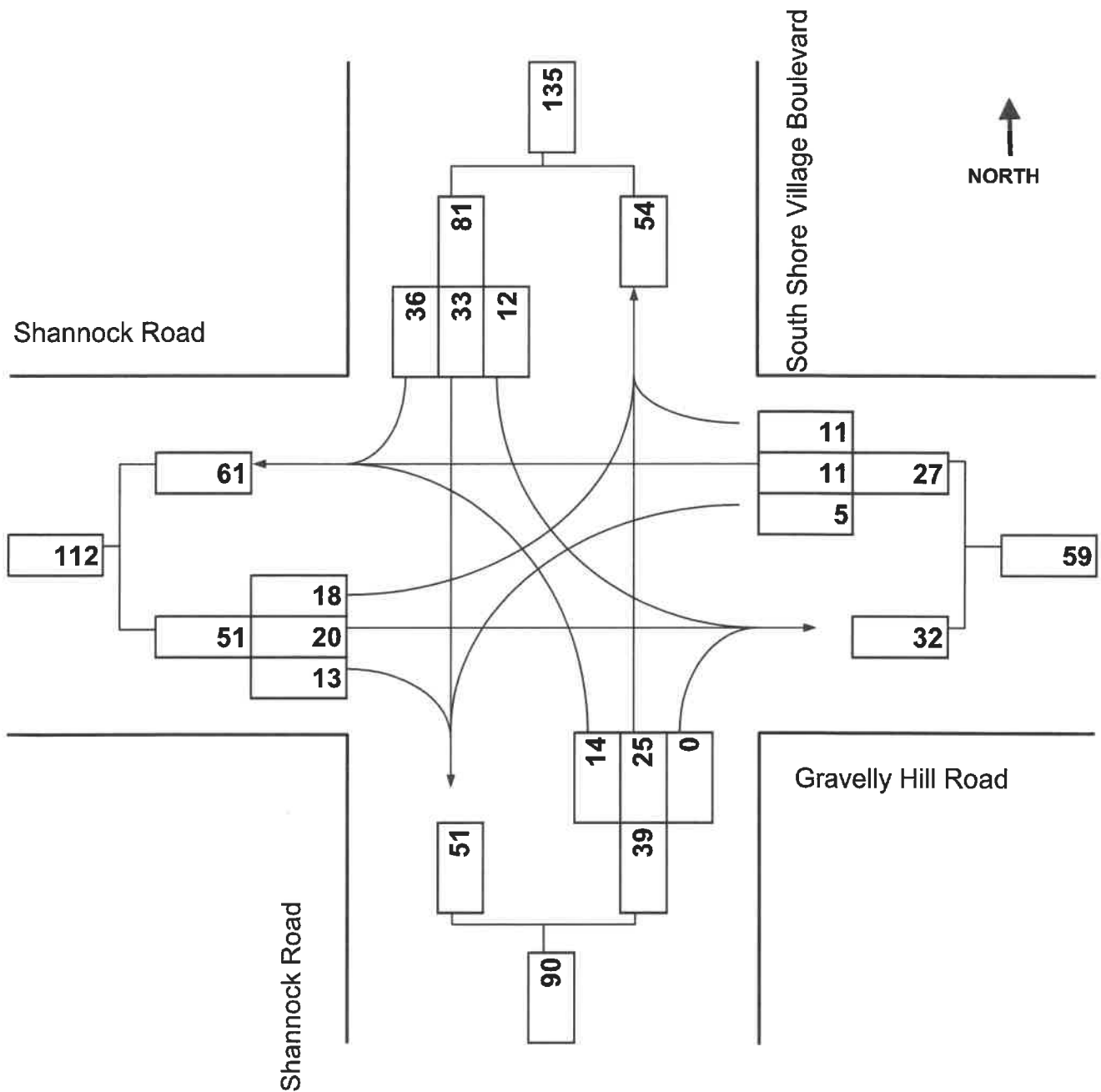
Existing: N/A

Minor Street: Gravelly Hill Road

Day of Week: Weekday

Peak Period: AM Peak Hour

Future: 2028 Build



3: Shannock Road & Gravelly Hill Road & South Shore Village Boulevard

Intersection

Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	18	20	13	5	11	11	14	25	0	12	33	36
Future Vol, veh/h	18	20	13	5	11	11	14	25	0	12	33	36
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Heavy Vehicles, %	11	11	9	0	11	8	8	0	33	0	3	9
Mvmt Flow	21	24	15	6	13	13	16	29	0	14	39	42
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.7	7.2	7.7	7.4
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	36%	35%	19%	15%
Vol Thru, %	64%	39%	41%	41%
Vol Right, %	0%	25%	41%	44%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	39	51	27	81
LT Vol	14	18	5	12
Through Vol	25	20	11	33
RT Vol	0	13	11	36
Lane Flow Rate	46	60	32	95
Geometry Grp	1	1	1	1
Degree of Util (X)	0.055	0.071	0.035	0.102
Departure Headway (Hd)	4.34	4.274	3.984	3.856
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	818	830	887	921
Service Time	2.404	2.341	2.06	1.917
HCM Lane V/C Ratio	0.056	0.072	0.036	0.103
HCM Control Delay	7.7	7.7	7.2	7.4
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.2	0.2	0.1	0.3

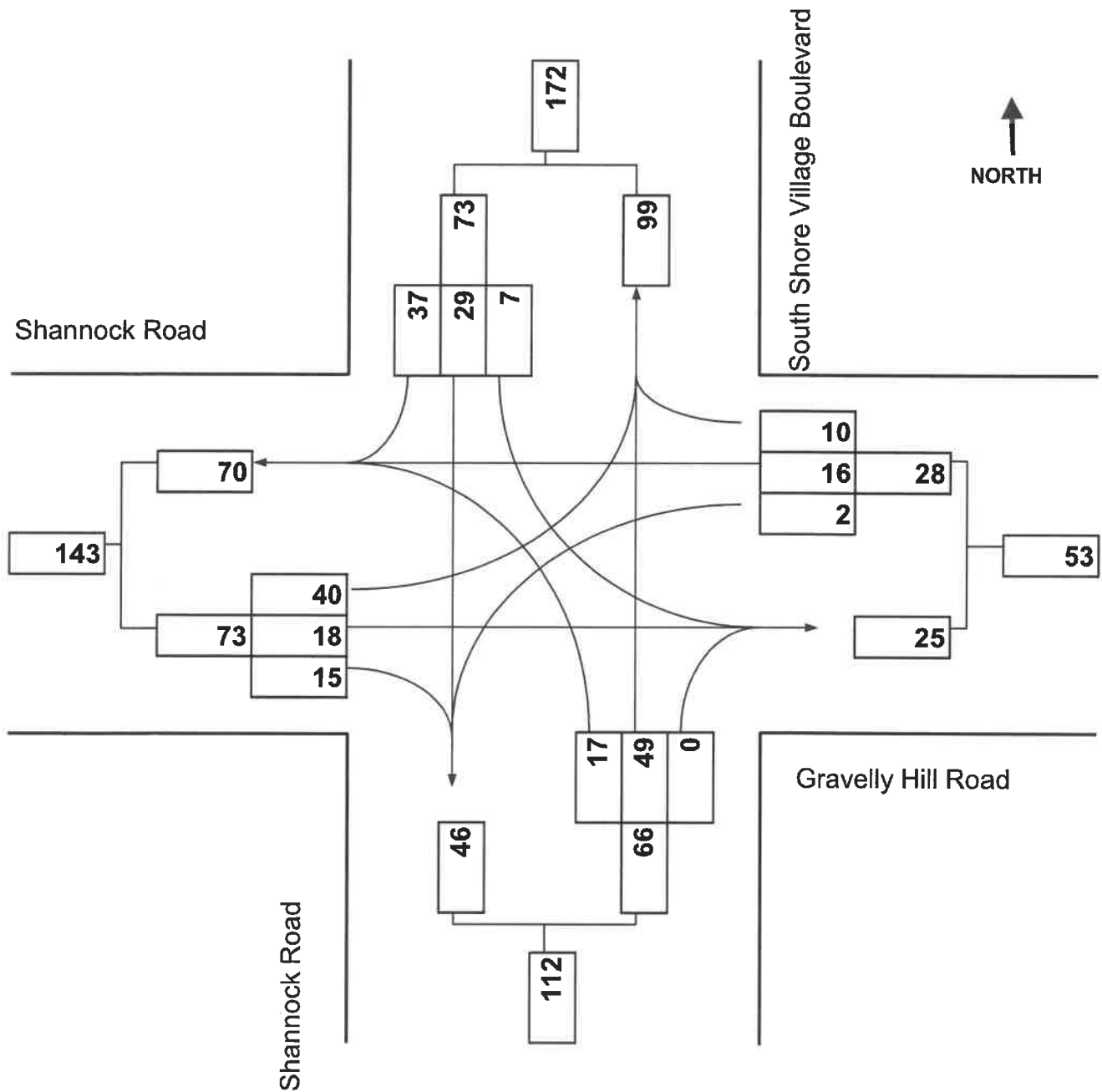


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Turning Movement Diagram

Major Street: Shannock Road
City/Town: South Kingstown, RI
Reference No.: 10936
Existing: N/A

Minor Street: Gravelly Hill Road
Day of Week: Weekday
Peak Period: PM Peak Hour
Future: 2028 Build



3: Shannock Road & Gravelly Hill Road & South Shore Village Boulevard

Intersection

Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	40	18	15	2	16	10	17	49	0	7	29	37
Future Vol, veh/h	40	18	15	2	16	10	17	49	0	7	29	37
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	6	0	7	5	8	8	4	0	50	14	4	6
Mvmt Flow	48	22	18	2	19	12	20	59	0	8	35	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	7.9	7.4	7.9	7.7
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	26%	55%	7%	10%
Vol Thru, %	74%	25%	57%	40%
Vol Right, %	0%	21%	36%	51%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	66	73	28	73
LT Vol	17	40	2	7
Through Vol	49	18	16	29
RT Vol	0	15	10	37
Lane Flow Rate	80	88	34	88
Geometry Grp	1	1	1	1
Degree of Util (X)	0.095	0.105	0.04	0.101
Departure Headway (Hd)	4.299	4.304	4.259	4.126
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	821	819	846	854
Service Time	2.392	2.403	2.259	2.22
HCM Lane V/C Ratio	0.097	0.107	0.04	0.103
HCM Control Delay	7.9	7.9	7.4	7.7
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	0.4	0.1	0.3

EXHIBIT 19

DEVELOPMENT PLAN REVIEW CHECKLIST

To initiate the application, the applicant shall submit to the Administrative Officer:

- ✓ 1. Sixteen (16) copies of the Project Review Application Form, printed double-sided;
- ✓ 2. Two (2) copies of the Project Team Form*;
- ✓ 3. One (1) notarized Owner Authorization Form for each owner of property proposed for development*;
- ✓ 4. Six (6) full size, paper copies of each required plan, as indicated in Sections (B), and (C), below;
- ✓ 5. The number of copies of each of the required supporting materials indicated in Section (D), below, printed double-sided as may be appropriate; and
- ✓ 6. PDFs of all application materials (all application forms, plans, and supporting materials), which are to be uploaded to the Town's FTP site.

**Forms must be submitted with each application. If no change has occurred in the Project Team or related to the ownership of the parcel since Conceptual Master Plan review and approval, duplicate copies may be submitted with notation of current date of submittal.*

If subsequent submittal of a revised plan set is required, the Administrative Officer will indicate how many full size and/or reduced copies are required. Each revised plan set shall also be submitted as a PDF(s). **When the plan set is ready for review by the Planning Board, ten (10) reduced (11 x 17) copies of the plan set will be required.**

The Administrative Officer shall have the authority to determine if any of the requirements of this Checklist are not applicable to the proposed development and therefore not required for a Certificate of Completeness to be issued.

(A) Every plan sheet submitted pursuant to Sections (B) and (C), below, shall contain the following information:

- ✓ 1. Name of the proposed land development project All Sheets
- ✓ 2. Name and address of the applicant All Sheets
- ✓ 3. Name and address of the property owner All Sheets
- ✓ 4. Name, address and telephone number of the engineer and/or land surveyor who prepared the plan All Sheets
- ✓ 5. Date of plan preparation, with all revision date(s), if any All Sheets
- ✓ 6. Graphic scale All Sheets
- ✓ 7. True north arrow Sheets 1 thru 6

- ✓ 8. Plat and lot number(s) of the land being developed All Sheets
- ✓ 9. Zoning district(s) of the land being developed; if more than one district, zoning boundary lines must be shown Sheets 3 and 5
- ✓ 10. Perimeter boundary lines of the development, drawn so as to distinguish them from other property lines, with dimensions indicated Sheets 1 thru 6
- ✓ 11. Location, width and names of existing public and private streets within and immediately adjacent to the development parcel(s) Sheets 1 thru 6
- ✓ 12. Perimeters of wetland areas on the development parcel(s), if any, as flagged by a certified Sheets 3 thru 6 wetlands biologist and verified by RIDEM, and associated wetland buffers as defined by RIDEM
- ✓ 13. Buffer areas, as defined by RIDEM, for any wetlands located on parcels adjacent to and extending into the development parcel(s) Sheets 3 thru 6
- ✓ 14. Coastal features adjacent to the development parcel(s), if any, as identified or flagged by a certified wetlands biologist and verified by RI CRMC, and associated wetland buffers as defined by RI CRMC NA
- ✓ 15. Boundaries and notation of the FEMA Flood Zones within and immediately adjacent to the development, including base flood elevation data for applicable zones Sheet 5

(B) Existing Conditions Plan(s) Sheet 5 and Boundary Survey Plan

The applicant shall submit an Existing Conditions Plan(s), which shall accurately depict the following information, in addition to the information listed in (A), above:

- ✓ 1. Area of the development parcel(s) See Boundary Survey Plan
- ✓ 2. Existing easements and rights-of-way within or adjacent to the development parcel(s), with a notation of the Book and Page reference to the South Kingstown Land Evidence Records See Boundary Survey Plan
- ✓ 3. Plat and lot numbers of all abutting property and property immediately across any adjacent public or private streets See Boundary Survey Plan
- ✓ 4. Names of abutting property owners and property owners immediately across any adjacent public or private streets See Boundary Survey Plan
- ✓ 5. Notation of existing ground cover with depiction of any existing wooded areas See Boundary Survey Plan
- 6. Location and size of trees with a caliper of fifteen inches or greater that are within the area proposed for disturbance or alteration NA

- ✓ 7. Boundaries and notation of the soil types classifications for the entire area of the development parcel(s), as identified by the most recent USDA RI Soil Survey See provided WebSoil Survey report
- ✓ 8. 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 See provided WebSoil Survey report
- ✓ 9. Depiction of areas of existing, active agricultural use, or if no such use is present on the site, a notation indicating such Sheet 5
- ✓ 10. Existing contours at intervals of two (2) feet, with identification of ridge lines of existing hills Sheet 5
- ✓ 11. Boundaries of applicable watersheds for the subject parcel Sheet 2
- ✓ 12. Location and approximate coverage of any existing streets, driveways, farm roads, woods roads, and/or trails that have been in public use (pedestrian, equestrian, bicycle, etc.) Sheet 5 and Boundary Survey Plan
- ✓ 13. Accurate location, size, and use/type of existing buildings or significant above-ground structures on the development parcel(s) Sheet 5 and Boundary Survey Plan
- ✓ 14. Approximate location and size of existing buildings or significant above-ground structures on parcels immediately adjacent to the development parcel(s) Sheet 5 and Boundary Survey Plan
- ✓ 15. Accurate location, size, and type of all 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 Sheets 5 and 6
- ✓ 16. Location and assumed perimeter of historic cemeteries on or immediately adjacent to the development parcel(s), or, if no historic cemeteries are present on the site, a notation indicating such See Boundary Survey Plan
- ✓ 17. Location of any unique historic features present on the site, including but not limited to stone walls, or if none, a notation indicating such
- ✓ 18. Location of any unique natural features present on the site, or if none, a notation indicating such
- ✓ 19. Notation indicating that the development parcel(s) are located or not located within the following areas of special concern: Sheet 5
 - ✓ a. Natural Heritage Areas, as defined by RIDEM
 - b. The area under the jurisdiction of the Narrow River Special Area Management Plan, as defined by RI CRMC

- c. The area under the jurisdiction of the Salt Ponds Region Special Area Management Plan, as defined by RI CRMC
 - d. The Town of South Kingstown Groundwater Protection Overlay District
 - e. Areas within a TMDL watershed, as identified by RIDEM and the Town of South Kingstown
 - f. An OWTS Critical Resource Area, as defined by RIDEM
 - g. A Drinking Water Supply Watershed, as defined by RIDEM
- ✓ 20. Notation indicating that the development parcel(s) or any buildings(s) within the parcel is or is not listed on the National Register of Historic Places Sheet 5
 - ✓ 21. 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 See Boundary Survey Plan

(C) Proposed Conditions Plan(s) Sheets 6 and 7

The applicant shall submit a Proposed Conditions Plan(s). Any utility, monumentation, or other physical improvement details shown within the Plan(s) shall conform to the standards found within the Subdivision and Land Development Regulations. The Proposed Conditions Plan(s) shall accurately depict the following information, in addition to the information listed in (A), above:

- ✓ 1. Location, size, and use/type of proposed buildings and structures Sheet 6
- ✓ 2. Any proposed on- and/or off-site improvements, including access drives, loading areas, parking areas, sidewalks, and bicycle paths Sheet 6
- 3. Proposed easements and rights-of-way within the subdivision parcel(s), or those to be acquired adjacent to the development parcel(s) as may be necessary NA
- ✓ 4. 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 telecommunications infrastructure, as may be required for site development Sheet 6
- 5. If proposed, plan and profile design information for any extension of public or private utility infrastructure NA
- 6. Location, dimension, and proposed use of any area of land proposed to be set aside as open space NA

- ✓ 7. The locations and design details of any On-Site Wastewater Treatment System(s) proposed for use within the development See OWTS Plans
- 8. The locations of any private or community wells proposed for use within the development NA
- ✓ 9. Limits of disturbance/work relative to on- and off-site improvements and infrastructure installation Sheet 4
- ✓ 10. Grading plan(s), to show proposed contours at 2-foot intervals for all grading proposed for on- and off-site improvements Sheet 6
- ✓ 11. Landscape plan(s), 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 See Landscape Plans
- ✓ 12. Stormwater management plan(s), to show accurate designs and details of proposed stormwater management infrastructure, including type, location, and configuration, prepared by a Registered Professional Engineer See Drainage Plans and Stormwater Management Report
- ✓ 13. Soil erosion, run-off and sedimentation control plan(s) Sheet 4 and SESC report
- ✓ 14. All utility and site improvement related details, including those related to the installation of streets, sidewalks, drainage systems, and utility infrastructure both on- and off-site, as applicable Sheets 6 and 7
- 15. Proposed phasing, including depiction of which on- and off-site improvements are to be installed in which phase, if applicable NA
- ✓ 16. Certification by a RI Registered Professional Engineer that the construction drawings are correct All Sheets

(D) Supporting Materials

The following supporting materials must be submitted at the time of application:

- ✓ 1. For developments proposing an increase to lot building coverage and/or total impervious surface within the development parcels, **2 copies** of drainage calculations, associated explanatory narrative, and all supporting documentation, including an Operations and Maintenance manual for the system **Provided**
- ✓ 2. For developments proposing new service by public water, **2 copies** of a written statement from the appropriate water company or district that the proposed plan, with plan revision date indicated, has been reviewed and which provides: **Existing Service**
 - 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
- NA 3. For developments proposing new service by public sewer, **2 copies** of a written statement from the Town of South Kingstown Department of Public Services that the proposed plan, with plan revision date indicated, has been reviewed and which provides:
- 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
- ✓ 4. For developments proposing new service by OWTS(s), **2 copies** of an On-Site Wastewater Treatment System permit issued by RIDEM Pending
- NA 5. For developments proposing new physical access to a State right-of-way, **2 copies** of a RIDOT Physical Alteration Permit
- NA 6. For developments proposing use of existing physical access to a State right-of-way, **2 copies** of an amendment to the original RIDOT Physical Alteration Permit, or of a letter from RIDOT indicating that no further RIDOT approval is necessary
- ✓ 7. For developments with freshwater wetlands present on the development parcel(s), **2 copies** of either:
- RIDEM Insignificant Alteration Permit No. 21-0063
- An RIDEM wetlands permit, if required pursuant to RIDEM rules and regulations; or
 - A letter of non-jurisdiction from RIDEM
- ✓ 8. **2 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 RIDEM Insignificant Alteration Permit No. 21-0063
- NA 9. For developments with coastal features and/or buffer areas adjacent to or within the subdivision parcel(s), **2 copies** of a Preliminary Determination, including coastal feature verification, from the Coastal Resources Management Council
- ✓ 10. **2 copies** of written confirmation that the applicable Fire District has reviewed the proposed plan(s) and approves the proposed design relative to emergency vehicle access and fire suppression requirements Pending

EXHIBIT 20

ABUTTERS WITHIN 200' A.P. 65, LOT 3

PLAT	LOT	LOCATION	OWNER	CO OWNER	ADDRESS	CITY, STATE, ZIP
60	4-39	110 HOLIDAY COURT	FONTES, LAWRENCE J & DONNA LEE		110 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-82	205 LITTLE POND ROAD	RAE GWENNETH &	MARCOUX GEORGETTE B	PO BOX 729	WAKEFIELD, RI 02879
60	4-128	20 BLUE SPRUCE LANE	BECKER SARAH E		20 BLUE SPRUCE LANE	WAKEFIELD, RI 02879
60	4-114	71 LITTLE POND ROAD	DEVOE, MARK F.	DEVOE, CHERYL C	71 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-76	21 PINE TREE LANE	EGAN, THOMAS C IRRV TRUST	EGAN, JOYCE A IRRV TRUST	21 PINE TREE LN	WAKEFIELD, RI 02879
60	4-227	100 STARLIGHT DRIVE	RUSSILLO DANTE JR	BEACH CLAUDIA ELEANOR	100 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-224	15 STELLAR WAY	GABRIEL, GREGORY ET UX	GABRIEL, SUSAN	15 STELLAR WAY	WAKEFIELD, RI 02879
60	4-120	29 BLUE SPRUCE LANE	HILTON, NANCY J		29 BLUE SPRUCE LANE	WAKEFIELD, RI 02879
60	4-28	9 HOLIDAY COURT	BRIGGS TIMOTHY	BRIGGS MARGUERITE T/E	9 HOLIDAY COURT BOX 4-1	WAKEFIELD, RI 02879
60	4-35	62 HOLIDAY COURT	JOHNSON, PAUL E		62 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-203	405 LEISURE DRIVE	ULLRICH JAMES J JR		427 LEISURE DR	WAKEFIELD, RI 02879
60	4-36	78 HOLIDAY COURT	GIORDANO JOHN ET UX	GIORDANO DIANE	78 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-112	81 LITTLE POND ROAD	NATLE JOSEPHINE &	BARDELLI LAURA	81 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-83	199 LITTLE POND ROAD	KEM FAMILY TRUST		199 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-192	305 LEISURE DRIVE	BEAUFORT, LOUISE B		305 LEISURE DR	WAKEFIELD, RI 02879
60	4-13	107 HOLIDAY COURT	PERRETTI MARCIA L	SPENCE JESSICA L J/T	107 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-203	405 LEISURE DRIVE	SCICHLONE REVOCABLE TRUST		550 SAN JOAQUIN ROAD	POINCIANA, FL 34759
60	4	WORDENS POND ROAD	TUCKERTOWN VILLAGE PARK LLC		434 LEISURE DR	WAKEFIELD, RI 02879
60	4-53	29 COMFORT LANE	STONE PETER J TRUST		29 COMFORT LANE	SOUTH KINGSTOWN, RI 02879
60	4-45	158 HOLIDAY COURT	LOMBARDI VIVIAN TRUST		158 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-136	3 CRANBERRY RUN	LUTHER, EVELYN E		3 CRANBERRY RUN	WAKEFIELD, RI 02879

60	4-94	143 LITTLE POND ROAD	GENTILE, LAURA B		143 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-140	24 CRANBERRY RUN	FERRAU FAMILY TRUST		24 CRANBERRY RUN	WAKEFIELD, RI 02879
60	4-212	10 STARLIGHT DRIVE	THAYER GARY P &	PAMELA J	10 STARLIGHT DRIVE	WAKEFIELD, RI 02879
60	4-97	131 LITTLE POND ROAD	BUTTERWORTH, GARY A ET UX	ELIZABETH A	131 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-22	51 HOLIDAY COURT	NICOL, PATRICIA D		51 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-93	149 LITTLE POND ROAD	BACKBOM ERIC S	BACKBOM LESLIE Y T/E	149 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-183	26 QUIET WAY	HUTTER NORENE		26 QUIET WAY	WAKEFIELD, RI 02879
60	4-19	73 HOLIDAY COURT	CALENDA, ANTHONY	CALENDA, KRISTEN	73 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-172	84 PITCH PINE PLACE	BROWN RITA M		84 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-15	99 HOLIDAY COURT	BARROWS DONALD F &	LINDA H TRST AGREE	99 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-218	74 STARLIGHT DRIVE	MCALLEER, DAVID E SR ET UX	MCALLEER, BARBARA A	74 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-98	127 LITTLE POND ROAD	WOODS, KENNETH E	WOODS, MARGARET	127 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-137	8 CRANBERRY RUN	JOHNSON, CAROL A & CUMMINGS,	KENNETH J	8 CRANBERRY RUN	SOUTH KINGSTOWN, RI 02879
60	4-156	210 LITTLE POND ROAD	PASQUAL, BARBARA S		210 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-153	188 LITTLE POND ROAD	HOLDREDGE ANN &	INGALLS BRIAN	188 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-9	127 HOLIDAY COURT	MACMULLEN JULIE A FARMER, DAVID AND GLORIA (EST)		100 WAYLAND TRL	NARRAGANSETT, RI 02882
60	4-101	10 HEALEY BROOK COURT	MELDONIAN MIMI A		10 HEALEY BROOK CT	WAKEFIELD, RI 02879
60	4-132	33 CRANBERRY RUN	MILLER PETER	MILLER BARBARA T/E	33 CRANBERRY RUN	WAKEFIELD, RI 02879
60	4-168	79 PITCH PINE PLACE	WILLCOX, KRISTY	HEALEY, MATTHEW	79 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-204	411 LEISURE DRIVE	PIDDES, RUTH J		411 LEISURE DR	WAKEFIELD, RI 02879
60	4-100	2 HEALEY BROOK COURT	HENNESSY DEBORAH		2 HEALEY BROOK COURT	WAKEFIELD, RI 02879

60	4-147	126 LITTLE POND ROAD	RILEY JANE E (EST)		126 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-55	13 COMFORT LANE	BROWN CAROL		13 COMFORT LANE	WAKEFIELD, RI 02879
60	4-144	100 LITTLE POND ROAD	MAHONEY, JAMES A III & ROSE B		100 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-30	18 HOLIDAY COURT	WRIGHT, THOMAS B & JEAN M		18 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-34	50 HOLIDAY COURT	GOTTBURG RONALD E &	EDNA S	50 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-126	8 BLUE SPRUCE LANE	MULROY, ASUNTA & ROBERT		8 BLUE SPRUCE LN	WAKEFIELD, RI 02879
60	4-139	18 CRANBERRY RUN	WHITE, WILLIAM W ETUX	MARIEANNE	18 CRANBERRY RUN	WAKEFIELD, RI 02879
60	4-230	25 STARLIGHT DRIVE	LOPES JOSEPH M	LOPES GINA M T/E	25 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-181	36 QUIET WAY	MCCORMICK, DAVID J ET UX	MCCORMICK, JACQUELINE J	36 QUIET WAY	WAKEFIELD, RI 02879
60	4-49	12 COMFORT LANE	FREZZA ALANE V		12 COMFORT LANE	WAKEFIELD, RI 02879
60	4-8	131 HOLIDAY COURT	BELL ANDREA PARADIS		131 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-27	13 HOLIDAY COURT	PARKER JUDITH L		13 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-115	63 LITTLE POND ROAD	DOYLE MICHAEL P &	ANN MARIE	7180 MARGATE BLVD	MARGATE, FL 33063
60	4-162	43 PITCH PINE PLACE	BLOOM RICHARD & MARY		43 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-125	2 BLUE SPRUCE LANE	NETSEL, JOSEPH F & JOHN DAVID	C/O JOHN NETSEL	2 CHATHAM CT	NORTH BRUNSWICK, NJ 08902
60	4-143	90 LITTLE POND ROAD	MORGERA, JOSEPH JR & LORRAINE		90 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-164	57 PITCH PINE PLACE	SATRYANO, JAMES D &	MICHAELINA M	95 PITCH PINE PL #N9	WAKEFIELD, RI 02879
60	4-68	58 PINE TREE LANE	ATKINSON, FREDERICK S &	PAULA M	58 PINE TREE LN	WAKEFIELD, RI 02879
60	4-195	337 LEISURE DRIVE	FRY MARYANN		337 LEISURE DR	WAKEFIELD, RI 02879
60	4-77	3 PINE TREE LANE	SHILLING, RUTH E		3 PINE TREE LN	WAKEFIELD, RI 02879
60	4-229	110 STARLIGHT DRIVE	TISDELL, LYNDA J		110 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-187	40 PITCH PINE PLACE	FERRAU, THERESA A		40 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-96	135 LITTLE POND ROAD	WHITTING, SALLY A		135 LITTLE POND RD	WAKEFIELD, RI 02879

60	4-2	159 HOLIDAY COURT	AUDET LIONEL E IRREV TRUST		159 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-87	181 LITTLE POND ROAD	OLDHAM, SANDRA J (LL)	SIGILLO, JOHN A	181 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-52	37 COMFORT LANE	PAASCH, RICHARD L & LEE-ANN		37 COMFORT LN	WAKEFIELD, RI 02879
60	4-103	18 HEALEY BROOK COURT	DORSI ISIDORE V &	THERESA A	18 HEALEY BROOK CT	WAKEFIELD, RI 02879
60	4-67	50 PINE TREE LANE	WILLIAMS SHERENE J & HARVEY LINDA R IRREV LIV TRUST	KENNETH L	50 PINE TREE LN	WAKEFIELD, RI 02879
60	4-12	111 HOLIDAY COURT	SANTAGUIDA, GRACE M		111 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-202	395 LEISURE DRIVE	PRESTON DR WILLIAM E &	CELEST A	55 POTUCCOS RING RD	WOLCOTT, CT 06716
60	4-42	136 HOLIDAY COURT	CURRY BRUCE B &	ROSEMARY	136 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-109	95 LITTLE POND ROAD	WALLING, TRUDI		95 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-148	134 LITTLE POND ROAD	LARKIN, BARBARA J		7 LANCER LN	STAMFORD, CT 06905
60	4-70	61 PINE TREE LANE	SATRYANO, JAMES D &	MICHAELINA M	61 PINE TREE LN	WAKEFIELD, RI 02879
60	4-170	95 PITCH PINE PLACE	LANDOLFI VINCENT J &	LORIBETH	95 PITCH PINE PL #N9	WAKEFIELD, RI 02879
60	4-116	57 LITTLE POND ROAD	FOSTER, GARY W ET UX	FOSTER, MARY F	57 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-180	40 QUIET WAY	HIMMEL PETER B &	NANCY	40 QUIET WAY	WAKEFIELD, RI 02879
60	4-64	18 PINE TREE LANE	KAMEL MARIA	MCCLOSKEY JOHN V III	18 PINE TREE LANE	WAKEFIELD, RI 02879
60	4-167	73 PITCH PINE PLACE	MCELROY, GLORIA		73 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-58	281 LEISURE DRIVE	MATTESON JOAN A & SKUCE JOAN		281 LEISURE DR	WAKEFIELD, RI 02879
60	4-40	124 HOLIDAY COURT	MALE, ALISON L		124 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-161	31 PITCH PINE PLACE	LACASSE, WILLIAM G &	ELIZABETH C	31 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-81	211 LITTLE POND ROAD	THOMPSON, WILLIAM C III &	SUSAN	211 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-110	91 LITTLE POND ROAD	DEMPESEY, JOHN J ET UX	DEMPESEY, ANN F	91 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-72	51 PINE TREE LANE	WOOD, RODERICK		51 PINE TREE LANE	SOUTHWICK, MA 01077
60	4-4	149 HOLIDAY COURT			74 GRADVILLE ROAD	

60	4-90	165 LITTLE POND ROAD	NEWMAN GRACE E		ANIMAL RES LEAGUE OF SO RI	165 LITTLE POND RD 195 LITTLE POND ROAD	WAKEFIELD, RI WAKEFIELD, RI 02879
60	4-84	195 LITTLE POND ROAD	RICHARD EMILY C (LL) &				WAKEFIELD, RI 02879
60	4-63	2 PINE TREE LANE	ELLIOTT KENNETH F & AMALIA M			2 PINE TREE LANE	WAKEFIELD, RI 02879
60	4-207	408 LEISURE DRIVE	FUSCO LOUIS R & JANICE L			408 LEISURE DRIVE	WAKEFIELD, RI 02879
60	4-43	144 HOLIDAY COURT	HAZARD MICHELLE A ET AL		HAZARD HARRISON F	144 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-154	194 LITTLE POND ROAD	WHITTAKER, CHERYL A			194 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-46	164 HOLIDAY COURT	AUDET AMY A			164 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-17	91 HOLIDAY COURT	LANNON IRENE A (LL) &		JOHN J	91 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-91	161 LITTLE POND ROAD	LOWELL GERALD R &		MESSINA JOAN C	161 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-169	91 PITCH PINE PLACE	JOHNSON GALEN A		JOHNSON JEAN M T/E	91 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-78	221 LEISURE DRIVE	BROWNELL, BARBARA ANN			221 LEISURE DR	WAKEFIELD, RI 02879
60	4-130	50 LITTLE POND ROAD	RICE JOHN F			50 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-160	25 PITCH PINE PLACE	MCCORMICK IRREV TRUST			25 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-66	38 PINE TREE LANE	CARRILLO, DANIEL T ETUX		KATHRYN	38 PINE TREE LN	WAKEFIELD, RI 02879-4465
60	4-163	47 PITCH PINE PLACE	DESAULNIERS ROBERT J &		SHARON M	47 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-14	103 HOLIDAY COURT	KENYON, SARA			103 HOLIDAY CT	SOUTH KINGSTOWN, RI 02879
60	4-54	23 COMFORT LANE	GOLDBERG ROBERT S		SEGARRA-GOLDBERG FRANCINE	19 KENSINGTON DR	HOPEWELL JUNCTION, NY 12533
60	4-73	45 PINE TREE LANE	BOGUTT PETER K &		ELIZABETH A	45 PINE TREE LANE	WAKEFIELD, RI 02879
60	4-151	170 LITTLE POND ROAD	GAUL FAMILY TRUST			170 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-26	19 HOLIDAY COURT	PAFUMI, ROBERT G SR ET ALS			282 WILBRAHAM RD	MONSON, MA 01057
60	4-179	41 QUIET WAY	BOUCHARD JOHN		BOUCHARD LORI T/E	41 QUIET WAY	WAKEFIELD, RI 02879
60	4-48	8 COMFORT LANE	KIRBY, ROSE (EST)		C/O PATRICIA FALCO	8 COMFORT LN BOX C10	WAKEFIELD, RI 02879
60	4-75	31 PINE TREE LANE	RICKES, CATHERINE I		RICKES, RORY B	31 PINE TREE LN	WAKEFIELD, RI 02879

60	4-74	39 PINE TREE LANE	SOUZA MARY ANN		39 PINE TREE LANE	WAKEFIELD, RI 02879
60	4-108	101 LITTLE POND ROAD	GABRIEL GREGORY & SUSAN		15 STELLAR WAY	WAKEFIELD, RI 02879
60	4-189	30 PITCH PINE PLACE	FEIFER, PATRICIA A		30 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-188	34 PITCH PINE PLACE	TOCCO SALVATORE A		34 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-158	9 PITCH PINE PLACE	VAZQUEZ ROBERTO & STEPHANIE		9 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-25	25 HOLIDAY COURT	LABRIE NORMA GENE LYVING	TRUST	12 MAYFLOWER CIRCLE	LEICESTER, MA 01524
60	4-129	26 BLUE SPRUCE LANE	DORSI GINA M		26 BLUE SPRUCE LANE	WAKEFIELD, RI 02879
60	4-37	92 HOLIDAY COURT	STANLEY ELMER W (LE)	HALLA EMILY REV. LIV TRUST AGREEMENT	92 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-157	1 PITCH PINE PLACE	BROADBENT, WILLIAM H		1 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-185	14 QUIET WAY	AGIN, ELIZABETH B REV TRUST		14 QUIET WAY	WAKEFIELD, RI 02879
60	4-16	95 HOLIDAY COURT	ASTING, WENDY G MACDONALD, ALEXANDER & OLINDA		95 HOLIDAY CT SITE #13	WAKEFIELD, RI 02879
60	4-23	33 HOLIDAY COURT	ARNOLD ARLENE C		33 HOLIDAY CT 141 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-95	141 LITTLE POND ROAD	FRYE KENNETH J &	MARY LOUGHRAN	29 QUIET WAY	WAKEFIELD, RI 02879
60	4-177	29 QUIET WAY	DEMPSEY JOAN M REVOC TRST		11 HEALEY BROOK COURT	WAKEFIELD, RI 02879
60	4-107	11 HEALEY BROOK COURT	RATHBONE, ROY L		3 BLUE SPRUCE LN	WAKEFIELD, RI 02879
60	4-124	3 BLUE SPRUCE LANE	PEVEAR WILLIAM W JR &	MARY C	60 PINE TREE LANE	WAKEFIELD, RI 02879
60	4-69	60 PINE TREE LANE	CULL CECELIA M &	STAGG KATHLEEN C	371 LEISURE DR	WAKEFIELD, RI 02879-4418
60	4-199	371 LEISURE DRIVE	RYDER DENNIS E &	SMITH DIANE E	185 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-86	185 LITTLE POND ROAD	COSTA, DENNIS CASTLE, WALTER F & WALTER F JR	COSTA, PATRICIA M	66 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-174	66 PITCH PINE PLACE	LOPES LOUIS J & MARY F		133 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-7	133 HOLIDAY COURT			100 STARLIGHT DRIVE	WAKEFIELD, RI 02879
60	4-50	18 COMFORT LANE		RUSSILLO DANTE JR	34 MORRIS ST	WEBSTER, MA 01570
60	4-21	55 HOLIDAY COURT				

60	4-171	92 PITCH PINE PLACE	HANSON WILLIAM A &	KANDILYNE	92 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-194	325 LEISURE DRIVE	CLARKE, RICHARD V	STEERE FAMILY IRREV TRUST	325 LEISURE DRIVE	WAKEFIELD, RI 02879
60	4-118	45 LITTLE POND ROAD	STEERE, CARLTON K ET UX (LL)		45 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-3	153 HOLIDAY COURT	ROSSI, RICHARD A & ROSEMARIE		153 HOLIDAY CT	SOUTH KINGSTOWN, RI 02879
60	4-10	121 HOLIDAY COURT	SCHERBEN ANDREW J &	GINA M	121 HOLIDAY COURT	SOUTH KINGSTOWN, RI 02879
60	4-145	108 LITTLE POND ROAD	MAINE, KEITH G		108 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-121	23 BLUE SPRUCE LANE	COMBS, ELEANOR (EST)	C/O COMBS PATRICIA	70 BARKER ST APT 312	MT KISCO, NY 10549
60	4-106	17 HEALEY BROOK COURT	LEEGER BRENDA J		17 HEALEY BROOK COURT	WAKEFIELD, RI 02879
60	4-205	419 LEISURE DRIVE	BROOKS WILLIAM F JR TRUST		419 LEISURE DR	WAKEFIELD, RI 02879
60	4-119	34 LITTLE POND ROAD	CURRIE, HUGH D (EST) & BEVERLY-ANN		34 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-186	6 QUIET WAY	BALCH KAREN M TRUST		6 QUIET WAY	WAKEFIELD, RI 02879
60	4-1	165 HOLIDAY COURT	VANDEMARK, RUTH C		165 HOLIDAY CT	WAKEFIELD, RI 02879-4483
60	4-226	7 STELLAR WAY	EDDY, RICHARD H		7 STELLAR WAY	WAKEFIELD, RI 02879
60	4-208	414 LEISURE DRIVE	RATTEY, PAULINE		414 LEISURE DR	WAKEFIELD, RI 02879
60	4-79	225 LITTLE POND ROAD	VIERLING, STEPHEN T		225 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-11	115 HOLIDAY COURT	NONNENMACHER REBECCA L	PINEDA HEIDI L J/T	115 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-228	106 STARLIGHT DRIVE	BORSAY, RONALD R		106 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-65	26 PINE TREE LANE	SAXON ROBERT C		26 PINE TREE LANE	WAKEFIELD, RI 02879
60	4-80	219 LITTLE POND ROAD	HITTE, HELEN IRREV TRUST OLSON, ROBERT A ETUX CHERYL A		219 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-232	7 STARLIGHT DRIVE			7 STARLIGHT DR	WAKEFIELD, RI 02879-7807
60	4-211	434 LEISURE DRIVE	VILLAGE AT WORDENS POND LLC		14 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-31	24 HOLIDAY COURT	HOFFMAN KENNETH V		24 HOLIDAY COURT	WAKEFIELD, RI 02879

60	4-18	83 HOLIDAY COURT	CLARK, HENRY C &	SANTAGUIDA, CAROL L	83 HOLIDAY COURT	SOUTH KINGSTOWN, RI 02879
60	4-47	4 COMFORT LANE	FAHLMAN-BAWDEN ROBERTA D		4 COMFORT LN	WAKEFIELD, RI 02879
60	4-62	251 LEISURE DRIVE	WARDWELL JULIE A		251 LEISURE DRIVE	WAKEFIELD, RI 02879
60	4-197	355 LEISURE DRIVE	FRYE, CANDACE C TRUST		355 LEISURE DR	WAKEFIELD, RI 02879
60	4-217	68 STARLIGHT DRIVE	TRAHAN RICHARD R &	LYDIA A	68 STARLIGHT DRIVE	SOUTH KINGSTOWN, RI 02879
60	4-175	7 QUIET WAY	COUGHLAN, BARBARA		7 QUIET WAY	WAKEFIELD, RI 02879
60	4-191	18 PITCH PINE PLACE	FITZGERALD, CHRISTIN		18 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-61	261 LEISURE DRIVE	BRODEUR ROBERT J	BRODEUR PAULINE E T/E	261 LEISURE DRIVE	WAKEFIELD, RI 02879
60	4-6	141 HOLIDAY COURT	SYLVIA EDWARD T & MAUREEN A		141 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-20	65 HOLIDAY COURT	SHEPARD DOUGLAS C &	DONNA	65 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-149	148 LITTLE POND ROAD	LONERGAN, MARY E REV TRUST		148 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-102	16 HEALEY BROOK COURT	HOLLINGWORTH LILYNE M	IRREVOC TRUST	16 HEALEY BROOK COURT	WAKEFIELD, RI 02879
60	4-165	63 PITCH PINE PLACE	MORGAN CHARLES W & STANHOPE, DONALD F LIV TRUST	ELIZABETH J STANHOPE, SUSAN F LIV TRUST	63 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-213	18 STARLIGHT DRIVE			18 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-127	14 BLUE SPRUCE LANE	JUDGE, MARIE C		14 BLUE SPRUCE LN	WAKEFIELD, RI 02879
60	4-117	51 LITTLE POND ROAD	DOUGLAS, PATRICIA A		51 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-220	84 STARLIGHT DRIVE	VANASSE, HERVE R & BARBARA A		84 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-155	200 LITTLE POND ROAD	HARRIS JUDY LIVING TRUST		200 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-41	130 HOLIDAY COURT	GARDINER JEANNE		130 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-85	189 LITTLE POND ROAD	POTTER, BARBARA D.		189 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-122	15 BLUE SPRUCE LANE	RESMINI CHERYL D		15 BLUE SPRUCE LANE	WAKEFIELD, RI 02879
60	4-142	80 LITTLE POND ROAD	BRANCA DOROTHY V &	ERBAN ROBIN	239 SWEET ALLEN FARM RD	WAKEFIELD, RI 02879

60	4-166	69 PITCH PINE PLACE	ERSKINE, MICHAEL P & SHARON A		69 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-134	17 CRANBERRY RUN	THOLANDER STEPHEN M	THOLANDER MAUREEN B T/E	17 CRANBERRY RUN	WAKEFIELD, RI 02879
60	4-111	85 LITTLE POND ROAD	CHAMBERS ORIE R SR &	ELIZABETH A	85 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-223	14 STELLAR WAY	R. CURTIS WAKEMAN REV TRUST		14 STELLAR WAY	WAKEFIELD, RI 02879
60	4-216	62 STARLIGHT DRIVE	COOK ELIZABETH H		62 STARLIGHT DRIVE	WAKEFIELD, RI 02879
60	4-141	32 CRANBERRY RUN	WHITE DAVID W &	PATRICIA B	32 CRANBERRY RUN	SOUTH KINGSTOWN, RI 02879
60	4-182	32 QUIET WAY	JORDAN SUSAN M 2016 TRUST		32 QUIET WAY	WAKEFIELD, RI 02879
60	4-32	30 HOLIDAY COURT	DOWNNEY RICHARD E (LL) ET ALS		30 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-146	116 LITTLE POND ROAD	DIMONE, THEODORE A	DIMONE, NANCY A	116 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-219	78 STARLIGHT DRIVE	SMALL, GAYLE J REVOCABLE	LIVING TRUST	78 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-113	75 LITTLE POND ROAD	HARRIS TIMOTHY	HARRIS DARLENE (T/E)	1208 NEWGATE RD	WEST SUFFIELD, CT 06093
60	4-193	315 LEISURE DRIVE	PLATEK IRREVOCABLE	TRUST OF 2022	315 LEISURE DRIVE	WAKEFIELD, RI 02879
60	4-44	150 HOLIDAY COURT	DAWLEY ARTHUR W SR &	CAROL P	150 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-159	17 PITCH PINE PLACE	GAROFALIO, ELIZABETH D & TUCKERTOWN VILLAGE PARK LLC	MARIBETH	17 PITCH PINE PLACE	WAKEFIELD, RI 02879
60	4-57	14 LITTLE POND ROAD			434 LEISURE DR	WAKEFIELD, RI 02879
60	4-59	291 LEISURE DRIVE	BEAUDRY MICHAEL	BEAUDRY MADELINE A	291 LEISURE DR	WAKEFIELD, RI 02879
60	4-5	145 HOLIDAY COURT	BUTLER MARYLOU &	CARMICHAEL ALLISON A	145 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-215	36 STARLIGHT DRIVE	HUTCHINSON PETER R &	CHERYL A	36 STARLIGHT DRIVE	WAKEFIELD, RI 02879
60	4-231	19 STARLIGHT DRIVE	RICCITELLI, ELAINE M & ADAM R		19 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-222	10 STELLAR WAY	MENIHAN JOHN J JR	MENIHAN CYDNEY AFRJAT	10 STELLAR WAY	WAKEFIELD, RI 02879
60	4-92	157 LITTLE POND ROAD	AMODEO CHERYL		157 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-150	160 LITTLE POND ROAD	MCCABE SUSAN M		160 LITTLE POND ROAD	WAKEFIELD, RI 02879

60	4-71	59 PINE TREE LANE	SOETBEER, MICHAEL	SOETBEER, JANE T.	59 PINE TREE LANE	WAKEFIELD, RI 02879
60	4-210	426 LEISURE DRIVE	MALCOLM THOMAS R & SHEILA A		426 LEISURE DRIVE	WAKEFIELD, RI 02879
60	4-200	379 LEISURE DRIVE	HAMILTON, CONSTANCE JOHNSON, HAROLD A & KATHARINE		379 LEISURE DR	WAKEFIELD, RI 02879
60	4-38	106 HOLIDAY COURT	WHITTING, STEWART L & VIRGINIA M	JOINT REV LIV TRUST AGREEMENT	106 HOLIDAY CT	WAKEFIELD, RI 02879
60	4-196	347 LEISURE DRIVE	MCCARTHY MARIA R &	KASHTAN CARINN M	347 LEISURE DR	WAKEFIELD, RI 02879
60	4-178	37 QUIET WAY		PELLLEGRINO, TRACY	37 QUIET WAY	WAKEFIELD, RI 02879
60	4-198	365 LEISURE DRIVE	PELLLEGRINO, CATHERINE		365 LEISURE DR	WAKEFIELD, RI 02879
60	4-60	271 LEISURE DRIVE	ROSSIGNOL, CHESTER & JANICE		271 LEISURE DR	WAKEFIELD, RI 02879
60	4-89	171 LITTLE POND ROAD	REED MARY ANN L		171 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-33	40 HOLIDAY COURT	MARTINELLI, DONALD J &	DENISE A	8 GODDARD ST	BLACKSTONE, MA 01504
60	4-56	5 COMFORT LANE	AMARAL, STEVEN		5 COMFORT LN	WAKEFIELD, RI 02879
60	4-214	26 STARLIGHT DRIVE	BURNS JEANNE M & BRUCE R		26 STARLIGHT DRIVE	WAKEFIELD, RI 02879
60	4-221	88 STARLIGHT DRIVE	RICHARDSON ROBERT J & PLYMESSER, KENNETH T	DENISE A	88 STARLIGHT DR	WAKEFIELD, RI 02879
60	4-24	31 HOLIDAY COURT	SULLIVAN, CANDACE C		100 HERITAGE DR	KINGSTON, RI 02881
60	4-133	25 CRANBERRY RUN	FORBES, SANDRA G		1793 LAKE SHORE RD	CHAZY, NY 12921
60	4-99	121 LITTLE POND ROAD	MILLER, JON P & MARK S		121 LITTLE POND RD	WAKEFIELD, RI 02879-4490
60	4-104	20 HEALEY BROOK COURT	DESMOND REVOCABLE TRUST	C/O GRACE MORAN	20 HEALEY BROOK CT	WAKEFIELD, RI 02879
60	4-209	420 LEISURE DRIVE	GOURLEY, SUZAN		420 LEISURE DR	WAKEFIELD, RI 02879
60	4-201	387 LEISURE DRIVE	ABBOTT SHEILA M		17 WATCH HILL DR	FISHKILL, NY 12524
60	4-173	76 PITCH PINE PLACE	BUBNIS, MARY		76 PITCH PINE PL	WAKEFIELD, RI 02879
60	4-51	22 COMFORT LANE	VIELE, JOSEPH M & JOANNE		22 COMFORT LANE	WAKEFIELD, RI 02879
60	4-123	11 BLUE SPRUCE LANE	ELIZABETH C		11 BLUE SPRUCE LN	WAKEFIELD, RI 02879
60	4-225	11 STELLAR WAY			11 STELLAR WAY	WAKEFIELD, RI 02879
60	4-105	19 HEALEY BROOK COURT			19 HEALEY BROOK COURT	WAKEFIELD, RI 02879

60	4-135	11 CRANBERRY RUN	BARSTOW, CAROL		11 CRANBERRY RUN	WAKEFIELD, RI 02879
60	4-29	12 HOLIDAY COURT	WALSH KAREN A	PRINCE DANIEL J	12 HOLIDAY COURT	WAKEFIELD, RI 02879
60	4-190	24 PITCH PINE PLACE	ALMONTE, KATHLEEN		24 PITCH PINE PL	WAKEFIELD, RI 02879-4537
60	4-152	180 LITTLE POND ROAD	NOONAN, PATRICK A &	NEWELL, JOYCE E	180 LITTLE POND RD	WAKEFIELD, RI 02879
60	4-88	175 LITTLE POND ROAD	SMYTH JOHN J III &	CYNTHIA T	175 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-131	66 LITTLE POND ROAD	ADAIR MARGARET E		66 LITTLE POND ROAD	WAKEFIELD, RI 02879
60	4-184	20 QUIET WAY	WALDMAN STEPHANIE		20 QUIET WAY	WAKEFIELD, RI 02879
60	4-138	12 CRANBERRY RUN	GALLANT DENNIS L		12 CRANBERRY RUN	WAKEFIELD, RI 02879
66	23	WORDENS POND ROAD	WORDENS POND FAMILY CAMPGROUND		PO BOX 5249 17 MATUNUCK BEACH RD	WAKEFIELD, RI 02880
65	1	SHANNOCK ROAD	SOUTH KINGSTOWN LAND TRUST			WAKEFIELD, RI 02879
65	3-27	99 CHICKADEE LANE #A27	GALLAGHER PATRICIA A TRUST		99 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-153	7 DRIVER LANE	LYSKAWA ERVIN B	CADY PATRICIA ANN T/E	12 GILBERT DR APT 401	MERRIMACK, NH 03054
65	3-210	45 BIRDIE COURT	REGO JEROME B	REGO JANET M T/E	45 BIRDIE CT	WAKEFIELD, RI 02879
65	3-35	55 CHICKADEE LANE #A35	JUDGE GARY D & DEBRA E		55 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-218	101 BIRDIE COURT	KLESSE RICHARD C REV TRUST		101 BIRDIE CT D31	WAKEFIELD, RI 02879
65	3-124	144 DRIVER LANE	MARTIN JOSEPH P ET UX	MARTIN CATHERINE A	144 DRIVER LN C3	WAKEFIELD, RI 02879
65	3-222	100 BIRDIE COURT	LUKON MARCIA A		100 BIRDIE CT UNIT D35	WAKEFIELD, RI 02879
65	3-226	74 BIRDIE COURT	ENVINE LLC		PO BOX 12999	CHARLESTOWN, RI 02813
65	3-123	150 DRIVER LANE	SIMPSON JEAN M		150 DRIVER LN	WAKEFIELD, RI 02879
65	3-109	33 FESCUE LANE #B31	RILEY, DENNIS M ET UX	RILEY, SUZANNE D	33 FESCUE LN #B31	WAKEFIELD, RI 02879
65	3-212	61 BIRDIE COURT	O'GORMAN JOHN J	O'GORMAN ANNE D	61 BIRDIE COURT	WAKEFIELD, RI 02879
65	3-66	184 CHICKADEE LANE #A66	GENTILE, LOIS		184 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-129	118D DRIVER LANE	WAGNER, DAVID	WAGNER, MARIA	118D DRIVER LN #C8	WAKEFIELD, RI 02879

65	3-119	127 FESCUE LANE #B41	RAK, MARILYN		127 FESCUE LN #B41	WAKEFIELD, RI 02879
65	3-171	40 SAND WEDGE LANE	RILEY FAMILY REV TRUST		40 SANDWEDGE LN	WAKEFIELD, RI 02879
65	3-81	104 FESCUE LANE #B5	KENYON, KEITH E ET UX	KENYON, JUDY M	104 FESCUE LANE	WAKEFIELD, RI 02879
65	3-14	145 CHICKADEE LANE #A14	LUBANKO, DAVID	LUBANKO, MARGERY	145 CHICKADEE LANE A-14	WAKEFIELD, RI 02879
65	3-142	60 DRIVER LANE	PANELLA, DEBORAH S		60 DRIVER LN	WAKEFIELD, RI 02879
65	3-131	118C DRIVER LANE	SMILLIE FAMILY TRUST		118 C DRIVER LN	WAKEFIELD, RI 02879
65	3-37	39 CHICKADEE LANE #A37	ABBATE ROCCO V &	MAUREEN E	39 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-89	74 FESCUE LANE #B13	TIERNEY, WILLIAM F ET UX	TIERNEY, SUSAN F	74 FESCUE LN #B13	WAKEFIELD, RI 02879
65	3-48	38 CHICKADEE LANE #A48	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813-0916
65	3-1	229 CHICKADEE LANE #A1	NELLE FAMILY LIVING TRUST		229 CHICKADEE LANE A1	WAKEFIELD, RI 02879
65	3-54	72 CHICKADEE LANE #A54	MONTE FAMILY IRREV TRUST		72 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-71	212 CHICKADEE LANE #A71	FAUSEK LIVING TRUST		212 CHICKADEE LANE A71	SOUTH KINGSTOWN, RI 02879
65	3-13	149 CHICKADEE LANE #A13	EDLER THOMAS E REVOC	LIVING TRUST	149 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-130	118F DRIVER LANE	POWELL, RICHARD M ET UX	POWELL, SUSAN M	118F DRIVER LN	WAKEFIELD, RI 02879
65	3-23	111 CHICKADEE LANE #A23	CASUCCI DAVID P &	LORRAINE P	111 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-26	101 CHICKADEE LANE #A26	WARNER CAROL		101 CHICKADEE LANE A26	WAKEFIELD, RI 02879
65	3-98	46 FESCUE LANE #B20	DURAND MICHAEL L FAMILY REV TR		46 FESCUE LN #B20	WAKEFIELD, RI 02879
65	3-40	21 CHICKADEE LANE #A40	LEVITT FAMILY LIVING TRUST		21 CHICKADEE LN #A40	WAKEFIELD, RI 02879
65	3-24	109 CHICKADEE LANE #A24	HALTER FRANK & PUERINI	JANET	109 CHICKADEE LANE A24	WAKEFIELD, RI 02879
65	3-33	65 CHICKADEE LANE #A33	LONGVAL ANDRE L &	CYNTHIA J	65 CHICKADEE LANE A33	WAKEFIELD, RI 02879
65	3-155	27 DRIVER LANE	GOFF WILLIAM J ET UX	GOFF SUSAN V	27 DRIVER LN	WAKEFIELD, RI 02879
65	3-224	86 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813

65	3-118	121 FESCUE LANE #B40	PLANTE, STEPHEN ET UX	PLANTE, LORRAINE	121 FESCUE LN #B40	WAKEFIELD, RI 02879
65	3-133	118A DRIVER LANE	WEISSMAN KURT H ET UX WOOD, THOMAS SMITH 2016 TRUST	WEISSMAN PATRICIA	118A DRIVER LN 115 BELLAVISTA DRIVE	WAKEFIELD, RI 02879
65	3-148	26 DRIVER LANE	HARRALL RICHARD A		26 DRIVER LN	WAKEFIELD, RI 02879
65	3-95	56 FESCUE LANE #B18A	MITCHELL, MICHAEL		56 FESCUE LN #B18A	WAKEFIELD, RI 02879
65	3-18	131 CHICKADEE LANE #A18	KIERNAN, JAMES E & CAROL A	REV TRUST AGRMT	11420 HIDDEN COVE CT	TRINITY, FL 34655
65	3-77	132 FESCUE LANE #B1	SHORE, MICHAEL A ET UX	SHORE, LORI G	132 FESCUE LN #B1	WAKEFIELD, RI 02879
65	3-138	86 DRIVER LANE	SCHORR, DAVID G ET UX	SCHMITT, SUZANNE N	86 DRIVER LN C-16	WAKEFIELD, RI 02879
65	3-168	60 SAND WEDGE LANE	HARRIS MARK R		60 SAND WEDGE LN # C-46	WAKEFIELD, RI 02879
65	3-88	78 FESCUE LANE #B12	DREISBACH, JUDITH D		78 FESCUE LANE UNIT B12	WAKEFIELD, RI 02879
65	3-62	158 CHICKADEE LANE #A62	CROY FREDERICK M	CROY STACI M T/E	158 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-141	66 DRIVER LANE	SPARROW, EDWARD J JR ET UX	SPARROW, PATRICIA M	66 DRIVER LN #C19	WAKEFIELD, RI 02879
65	3-70	210 CHICKADEE LANE #A70	KILGORE SUSAN		210 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-10	171 CHICKADEE LANE #A10	MISIOREK THOMAS & GOVE DAVID A REVOCABLE TRUST	LOUISE	171 CHICKADEE LANE 135 RHODE ISLAND AVE	WAKEFIELD, RI 02879
65	3-211	53 BIRDIE COURT	CHRISTY THERESA MUENKEL		254 WEST POINT TERRACE	NEWPORT, RI 02840
65	3-163	89 DRIVER LANE				W HARTFORD, CT 06107
65	3-162	83 DRIVER LANE	MITCHELL SALLY A	MITCHELL ROBERT A T/E	83 DRIVER LN #C40	WAKEFIELD, RI 02879
65	3-137	94 DRIVER LANE	GRAFELD MICHAEL C ET UX	GRAFELD BARBARA J	94 DRIVER LN	WAKEFIELD, RI 02879
65	3-79	118 FESCUE LANE #B3	SCHWEGMAN, RICHARD D ET UX	SCHWEGMAN, MARIE E	118 FESCUE LN #B3	WAKEFIELD, RI 02879
65	3-115	101 FESCUE LANE #B37	KATZ, FELICE A		101 FESCUE LN #B37	WAKEFIELD, RI 02879
65	3-117	115 FESCUE LANE #B39	CALLAGHAN FAMILY IRRV TRST		115 FESCUE LN	WAKEFIELD, RI 02879
65	3-45	16 CHICKADEE LANE #A45	WAITE MICHAEL D ET UX	WAITE KATHY L	16 CHICKADEE LN #A45	WAKEFIELD, RI 02879
65	3-221	102 BIRDIE COURT	KONISH JOHN F JR	KONISH MONICA T/E	102 BIRDIE CT UNIT D34	WAKEFIELD, RI 02879

65	3	SAND PLAINS TRAIL	ENVINE LLC			PO BOX 1299	CHARLESTOWN, RI 02813
65	3-28	91 CHICKADEE LANE #A28	PLANTE JOHN F &	KATHLEEN A		91 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-32	69 CHICKADEE LANE #A32	JACQUES EDWARD			69 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-63	160 CHICKADEE LANE #A63	MARGOLIS REVOCABLE LIVING TRUST			160 CHICKADEE LANE A63	SOUTH KINGSTOWN, RI 02879
65	3-116	109 FESCUE LANE #B38	COLANTINO, LINDA S			109 FESCUE LN #B38	WAKEFIELD, RI 02879
65	3-47	30 CHICKADEE LANE #A47	SWANSON ROBERT &	JUDITH		15 RADCLIFFE RD	WELLESLEY, MA 02482
65	3-101	28 FESCUE LANE #B23	ORNSTEIN, GAIL J			28 FESCUE LN #B23	WAKEFIELD, RI 02879
65	3-236	6 BIRDIE COURT	ENVINE LLC			PO BOX 1299	CHARLESTOWN, RI 02813
65	3-8	183 CHICKADEE LANE #A8	MCCANN JOHN & MARANN LIV TR			183 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-215	81 BIRDIE COURT	HIGGINBOTTOM RONALD C	HIGGINBOTTOM MARY E T/E		81 BIRDIE COURT	WAKEFIELD, RI 02879
65	3-216	87 BIRDIE COURT	GIZA CHARLENE A REV TRUST			87 BIRDIE CT	WAKEFIELD, RI 02879
65	3-96	58 FESCUE LANE #B18B	HOEHL, MICHAEL A	TOBIN, JUDITH		58 FESCUE LANE UNIT B18B	WAKEFIELD, RI 02879
65	3-86	84 FESCUE LANE #B10	KLENSCH, E. GABRIELE			84 FESCUE LANE	WAKEFIELD, RI 02879
65	3-36	47 CHICKADEE LANE #A36	SEVIGNY FAMILY IRREV TRUST			47 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-43	7 CHICKADEE LANE #A43	KITTELSON JAMES R &	JACQUELINE C		PO BOX 5524	WAKEFIELD, RI 02880
65	3-219	103 BIRDIE COURT	DEVIZIA RONALD J SR	DEVIZIA DIANE M T/E		103 BIRDIE CT	WAKEFIELD, RI 02879
65	3-106	13 FESCUE LANE #B28	DEGNAN, WILLIAM ET UX	DEGNAN, HONI ANN		13 FESCUE LN #B28	WAKEFIELD, RI 02879
65	3-39	31 CHICKADEE LANE #A39	ASHER FAMILY REVOCABLE TRUST			31 CHICKADEE LANE A39	SOUTH KINGSTOWN, RI 02879
65	3-15	143 CHICKADEE LANE #A15	TAMAYO, THOMAS A	TAMAYO, THERESA S		143 CHICKADEE LN #A15	WAKEFIELD, RI 02879
65	3-150	16 DRIVER LANE	FIRMINO MARY ANN			16 DRIVER LN	WAKEFIELD, RI 02879
65	3-5	199 CHICKADEE LANE #A5	RANDALL JARED P &	DEBORAH		199 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-68	198 CHICKADEE LANE #A68	BROWN, GILBERT C			198 CHICKADEE LANE	WAKEFIELD, RI 02879

65	3-132	118B DRIVER LANE	GUILLOTTE DAVID P & MARGARET R		118 B DRIVER LN	WAKEFIELD, RI 02879
65	3-174	18 SAND WEDGE LANE	NESTOR TIMOTHY E	NESTOR MARGARET E	18 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-135	108 DRIVER LANE	WONG, MICHAEL P ET UX	WONG, NANCY M	1 WALNUT HILL RD	MILLIS, MA 02054
65	3-83	92 FESCUE LANE #B7	WILDER, DAVID E ET UX	WILDER, SHERRY M	92 FESCUE LN #B7	WAKEFIELD, RI 02879
65	3-92	60 FESCUE LANE #B16	HARNOIS JOINT LIVING TRUST	JT LIVING TRUST	60 FESCUE LN #B16	WAKEFIELD, RI 02879
65	3-87	82 FESCUE LANE #B11	CARON ROBERT R & ELLEN TRUST		82 FESCUE LN #B11	WAKEFIELD, RI 02879
65	3-120	133 FESCUE LANE #B42	FILIPPONE FAMILY TRUST		133 FESCUE LN #B42	WAKEFIELD, RI 02879
65	3-220	105 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-160	67 DRIVER LANE	TREZVANT, MIGUEL A		67 DRIVER LN	WAKEFIELD, RI 02879
65	3-234	18 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-85	88 FESCUE LANE #B9	CONNORS ELIZABETH C		88 FESCUE LANE #B9	WAKEFIELD, RI 02879
65	3-122	156 DRIVER LANE	PAYETTE SANDRA D	LAGOZE CARL J T/E	156 DRIVER LANE, UNIT C1	WAKEFIELD, RI 02879
65	3-84	86 FESCUE LANE #B8	BERKE, CRAIG ET UX	BERKE, JENNIFER	86 FESCUE LN	WAKEFIELD, RI 02879
65	3-60	134 CHICKADEE LANE #A60	BEASLEY KEVIN J &	MARY C	134 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-158	49 DRIVER LANE	MARCHIONE SHIRLEY A		49 DRIVER LN	WAKEFIELD, RI 02879
65	3-136	100 DRIVER LANE	TOBIN, DANIEL ET UX	TOBIN, JANET	100 DRIVER LN UNIT C14	WAKEFIELD, RI 02879
65	3-30	79 CHICKADEE LANE #A30	MIS REVOCABLE LIVING	TRUST	79 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-51	56 CHICKADEE LANE #A51	VALERIEN DIANE T		56 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-167	70 SAND WEDGE LANE	KOS TERESA A DEC OF TRUST		70 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-178	23 SAND WEDGE LANE	NARDONE GIRARD F	NARDONE VIRGINIA F T/E	23 SAND WEDGE LANE	WAKEFIELD, RI 02879
65	3-109	33 FESCUE LANE #B31	RILEY, DENNIS M ET UX	RILEY, SUZANNE D	33 FESCUE LN #B31	WAKEFIELD, RI 02879
65	3-170	46 SAND WEDGE LANE	MATTERA FREDERICK J	MATTERA PATRICIA A	46 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-80	110 FESCUE LANE #B4	DUPERE, DAVID ET UX	DUPERE, PATRICIA	5 STRATFORD RD	DORWOOD, MA 02062

65	3-107	19 FESCUE LANE #B29	JONES, WILLIAM A	HEFFRON, ANNE E	19 FESCUE LN #B29	WAKEFIELD, RI 02879
65	3-76	115 CHICKADEE LANE #A22A	HERSHMAN STUART W &	ANN-MARIE	48 SMILEY AVE	MANSFIELD, MA 02048
65	3-102	22 FESCUE LANE #B24	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813-0916
65	3-57	94 CHICKADEE LANE #A57	OERTLE SUSAN L THE DESMOND FAMILY 2021 REV TR		94 CHICKADEE LANE A57	WAKEFIELD, RI 02879
65	3-4	209 CHICKADEE LANE #A4			209 CHICKADEE LN #A4	WAKEFIELD, RI 02879
65	3-69	200 CHICKADEE LANE #A69	NISSLEY JEFFREY R &	JOANNA M	200 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-73	222 CHICKADEE LANE #A73	FISH, DAVID W	FISH, CHRISTINE	222 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-159	61 DRIVER LANE	GESUALDI ANTHONY J ET UX	GESUALDI ANNA	61 DRIVER LN	WAKEFIELD, RI 02879
65	3-217	95 BIRDIE COURT	COADY ROBERT S	COADY MARY A T/E	95 BIRDIE CT	WAKEFIELD, RI 02879
65	3-154	21 DRIVER LANE	DAVIS BARRY S	DAVIS BARBARA S T/E	21 DRIVER LN UNIT C32	WAKEFIELD, RI 02879
65	3-164	93 DRIVER LANE	MORRONGIELLO ANTHONY J	MORRONGIELLO ABBE S	93 DRIVER LN	WAKEFIELD, RI 02879
65	3-19	129 CHICKADEE LANE #A19	NILAND PATRICK G TRUST AGMT		129 CHICKADEE LN #A19	WAKEFIELD, RI 02879
65	3-172	34 SAND WEDGE LANE	ROMAN FAMILY IRRV TRUST		34 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-21	119 CHICKADEE LANE #A21	STEELE THOMAS M &	ELIZABETH M TRUST AGREEMENT	119 CHICKADEE LN #A21	WAKEFIELD, RI 02879
65	3-74	228 CHICKADEE LANE #A74	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-84	86 FESCUE LANE #B8	BERKE, CRAIG ET UX	BERKE, JENNIFER	86 FESCUE LN	WAKEFIELD, RI 02879
65	3-135	108 DRIVER LANE	WONG, MICHAEL P ET UX	WONG, NANCY M	1 WALNUT HILL RD	MILLIS, MA 02054
65	3-2	221 CHICKADEE LANE #A2	SCOPPETTI ANDREW & ELAINE		221 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-126	128 DRIVER LANE	KATZ LAWRENCE H T/E	KATZ JUDITH	128 DRIVER LANE UNIT C5	WAKEFIELD, RI 02879
65	3-127	124 DRIVER LANE	BEDNARCIC EDWARD D	BEDNARCIC PAULA J	106 INDIAN TRL	CHATHAM, NY 12037
65	3-111	45 FESCUE LANE #B33	PULCINI, DAVID A ET UX	PULCINI, SHARON A	45 FESCUE LN #B33	WAKEFIELD, RI 02879
65	3-58	98 CHICKADEE LANE #A58	LOPES MIGUEL J &	TREZVANT-LOPES ANITA	98 CHICKADEE LANE A58	WAKEFIELD, RI 02879
65	3-209	39 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813

65	3-121	310 SOUTH SHORE VILLAGE BLVD	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813-0916
65	3-214	73 BIRDIE COURT	MORRISON TINA M		73 BIRDIE CT BOX 206	WAKEFIELD, RI 02879
65	3-12	159 CHICKADEE LANE #A12	JANNITTO, PETER L JR TRUST	WHITTMAN, ELIZABETH A TRUST	159 CHICKADEE LN #A1	WAKEFIELD, RI 02879
65	3-223	94 BIRDIE COURT	HARRIS MICHAEL D	HARRIS CHERYL C T/E	94 BIRDIE CT	WAKEFIELD, RI 02879
65	3-49	44 CHICKADEE LANE #A49	LONG IRREVOCABLE TRUST		44 CHICKADEE LANE #A49	WAKEFIELD, RI 02879
65	3-181	45 SAND WEDGE LANE	LUPPO STEPHEN B & CATHY A		45 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-91	62 FESCUE LANE #B15	HEY, VINCENT		62 FESCUE LANE	WAKEFIELD, RI 02879
65	3-211	53 BIRDIE COURT	GOVE DAVID A REVOCABLE TRUST		135 RHODE ISLAND AVE	NEWPORT, RI 02840
65	3-42	11 CHICKADEE LANE #A42	QUENSTEDT BRIAN REVOC	TRUST	11 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-225	80 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-128	118E DRIVER LANE	GOING KENNETH R JR ET UX	GOING CHRISTINE M	24 CONIFER CT	NORTHPORT, NY 11768
65	3-72	218 CHICKADEE LANE #A72	GARVIN, TIMOTHY & PATRICIA A		218 CHICKADEE LANE	SOUTH KINGSTOWN, RI 02879
65	3-82	96 FESCUE LANE #B6	WEBB, DONALD L		96 FESCUE LN #B6	WAKEFIELD, RI 02879
65	3-78	126 FESCUE LANE #B2	BRASSARD, RACHEL	BRASSARD, JEAN ARTHUR	126 FESCUE LN #B2	WAKEFIELD, RI 02879
65	3-65	174 CHICKADEE LANE #A65	TOFIL, ELAINE A	REV LIVING TRUST	16 TREAT AVE	STAMFORD, CT 06906
65	3-97	50 FESCUE LANE #B19	BROSIOUS, CRAIG D ET UX	BROSIOUS, CAROLYN R	50 FESCUE LN	WAKEFIELD, RI 02879
65	3-16	141 CHICKADEE LANE #A16	HIMSEY DAVID G & DIANNE TRUST		141 CHICKADEE LN UNIT A16	WAKEFIELD, RI 02879
65	3-213	67 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-90	70 FESCUE LANE #B14	TORNSTROM, ERIC ET UX	TORNSTROM, BARBARA A	70 FESCUE LANE #B14	WAKEFIELD, RI 02879
65	3-7	185 CHICKADEE LANE #A7	SZLATENYI VALERIE		185 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-179	31 SAND WEDGE LANE	ALLEN LIVING TRUST		31 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-85	88 FESCUE LANE #B9	CONNORS ELIZABETH C		88 FESCUE LANE #B9	WAKEFIELD, RI 02879

65	3-44	8 CHICKADEE LANE #A44	SMITH GARY & JUDITH DEC	OF TRUST	8 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-161	75 DRIVER LANE	JOHANNESEN CHRISTINE I		75 DRIVER LN	WAKEFIELD, RI 02879
65	3-55	80 CHICKADEE LANE #A55	HEMMERLE FREDRICK C	HEMMERLE MARTHA G T/E	80 CHICKADEE LANE UNIT A55	WAKEFIELD, RI 02879
65	3-144	50 DRIVER LANE	BEDARD, ANDRE R	RAJOTTE, DONNA A	4014 AVENIDA DELTURA	N FT MYERS, FL 33903
65	3-166	125 DRIVER LANE	MCLEROY RENEE M		125 DRIVER LN UNIT C44	WAKEFIELD, RI 02879
65	3-98	46 FESCUE LANE #B20	DURAND MICHAEL L FAMILY REV TR		46 FESCUE LN #B20	WAKEFIELD, RI 02879
65	3-6	197 CHICKADEE LANE #A6 496 SOUTH SHORE VILLAGE BLVD	DESROSIERS SUSAN E (LE)		197 CHICKADEE LN	WAKEFIELD, RI 20879
65	3-190		ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-176	8 SAND WEDGE LANE	TRU FRIEND INVESTMENTS LLC		8 SANDWEDGE LN	WAKEFIELD, RI 02879
65	3-136	100 DRIVER LANE	TOBIN, DANIEL ET UX	TOBIN, JANET	100 DRIVER LN UNIT C14	WAKEFIELD, RI 02879
65	3-94	54 FESCUE LANE #B18	DEMBEK, THADDEUS J & DORENE M	FAMILY TRUST 2016	1036 SLEEPY HOLLOW RD	PASO ROBLES, CA 93446
65	3-152	6 DRIVER LANE	LILLA JEFFREY	VON WALD DEBORAH J/T	6 DRIVER LANE	WAKEFIELD, RI 02879
65	3-56	84 CHICKADEE LANE #A56	HERZOG ROBERT H &	BONNIE S	84 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-52	58 CHICKADEE LANE #A52	DOWLING JANE M		58 CHICKADEE LANE	SOUTH KINGSTOWN, RI 02879
65	3-100	34 FESCUE LANE #B22	SPECTOR MYRNA W		34 FESCUE LN	WAKEFIELD, RI 02879
65	3-143	54 DRIVER LANE	GRAHAM JOAN K 2022 TRUST		54 DRIVER LN	WAKEFIELD, RI 02879
65	3-22	113 CHICKADEE LANE #A22	KOWAL FAMILY TRUST		113 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-225	80 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-173	26 SAND WEDGE LANE	SULLIVAN FRANCIS D JR	SULLIVAN JANICE A	26 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-149	20 DRIVER LANE	SCHREIER MICHAEL ET UX	SCHREIER LORRAINE	20 DRIVER LN #C27	WAKEFIELD, RI 02879
65	3-114	95 FESCUE LANE #B36	CULLIGAN, SUANNE E		95 FESCUE LN #B36	WAKEFIELD, RI 02879
65	3-227	66 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813

65	3-50	48 CHICKADEE LANE #A50	TELLIER, C J FAMILY TRUST		48 CHICKADEE LANE A50	WAKEFIELD, RI 02879
65	3-64	172 CHICKADEE LANE #A64	BLAKE INCOME TRUST THE		172 CHICKADEE LANE	SOUTH KINGSTOWN, RI 02879
65	3-186	179 DRIVER LANE	MCGRATH JOHN P III	MCGRATH CONSTANCE T/E	179 DRIVER LN UNIT C64	WAKEFIELD, RI 02879
65	3-141	66 DRIVER LANE	SPARROW, EDWARD J JR ET UX	SPARROW, PATRICIA M	66 DRIVER LN #C19	WAKEFIELD, RI 02879
65	3-140	74 DRIVER LANE	HELWIG, GEORGE W ET UX	SALLEY, NADINE A	74 DRIVER LN	WAKEFIELD, RI 02879
65	3-165	105 DRIVER LANE	LIESE PAUL C ET UX	LIESE HELGA A	105 DRIVER LN	WAKEFIELD, RI 02879
65	3-3	215 CHICKADEE LANE #A3	BARANDIARAN GREGORY &	ANTOINETTE	215 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-93	52 FESCUE LANE #B17	HIRSBRUNNER, DIETER R	HIRSBRUNNER, PEARL E	52 FESCUE LANE	WAKEFIELD, RI 02879
65	3-38	37 CHICKADEE LANE #A38	BROWN DONALD P	BROWN CYNTHIA J T/E	137 LIBERTY CHURCH RD	EXETER, RI 02822
65	3-59	104 CHICKADEE LANE #A59	RODRIGUES GENEVIEVE ANN &	LYDIA	104 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-112	63 FESCUE LANE #B34	O'REILLY, KEVIN D ET UX	O'REILLY, JILL M	63 FESCUE LN #B34	WAKEFIELD, RI 02879
65	3-147	32 DRIVER LANE	PELLETIER LOUISE MARIE		32 DRIVER LN UNIT C25	WAKEFIELD, RI 02879
65	3-180	37 SAND WEDGE LANE	SZCZEBAK GARY J	SZCZEBAK DENISE M T/E	37 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-75	117 CHICKADEE LANE #A21A	RODDY, PAMELA M		117 CHICKADEE LN #A21	WAKEFIELD, RI 02879
65	3-175	14 SAND WEDGE LANE	MARZELLA VINCENT M RE V TR	MARZELLA JOANNE S REV TR	9 HOLLY RIDGE RD	VALHALLA, NY 10595
65	3-20	121 CHICKADEE LANE #A20	WALL BILLY P & SUZANNE		121 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-100	34 FESCUE LANE #B22	SPECTOR MYRNA W		34 FESCUE LN	WAKEFIELD, RI 02879
65	3-9	175 CHICKADEE LANE #A9	MINNICK WILLIAM C &	MARGARET A	175 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-67	186 CHICKADEE LANE #A67	TEMPLEMAN, KEITH SHERMAN	LYNCH, KATHRYN M	3291 SW BOBALINK WAY	PALM CITY, FL 34990
65	3-53	68 CHICKADEE LANE #A53	BRISSART ELAINE M &	CATHY	68 CHICKADEE LANE	WAKEFIELD, RI 02879
65	3-17	139 CHICKADEE LANE #A17	GILLEPSIE H PATRICK &	MARY ANN	139 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-182	53 SAND WEDGE LANE	COTE RICHARD ET UX PAULA A		53 SAND WEDGE LN	WAKEFIELD, RI 02879

65	3-25	107 CHICKADEE LANE #A25	MAYEWSKI, JOAN M TRUST			PO BOX 187	GLENSDALE SPGS, NC 28629-0187
65	3-206	13 BIRDIE COURT	ENVINE LLC			PO BOX 1299	CHARLESTOWN, RI 02813
65	3-145	44 DRIVER LANE	FERACO LAURA L REV LIV TR VAUGHN CHARLENE L REV LIV TRUST			44 DRIVER LN	WAKEFIELD, RI 02879
65	3-183	61 SAND WEDGE LANE				61 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-134	114 DRIVER LANE	DECIA, GIORGIO ET UX			114 DRIVER LN #C12	WAKEFIELD, RI 02879
65	3-205	5 BIRDIE COURT	ENVINE LLC			PO BOX 1299	CHARLESTOWN, RI 02813
65	3-105	5 FESCUE LANE #B27	GEMMA IANE N LIVING TRUST			5 FESCUE LN	WAKEFIELD, RI 02879
65	3-139	80 DRIVER LANE	NAVIN JEFFREY S ET UX		NAVIN LISA S	64 FORESTVIEW LN	PONTE VEDRA, FL 32081
65	3-184	69 SAND WEDGE LANE	LEBLANC LAWRENCE C			P.O.BOX 1299	CHARLESTOWN, RI 02813
65	3-125	136 DRIVER LANE	WHELOCK LESLIE GAIL			136 DRIVER LN	WAKEFIELD, RI 02879
65	3-157	39 DRIVER LANE	SICORD PATRICIA E			39 DRIVER LN	WAKEFIELD, RI 02879
65	3-41	19 CHICKADEE LANE #A41	DE ALMO JAMES J & DEBRA A			19 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-151	10 DRIVER LANE	PINSLY, MITCHELL S ET UX		PINSLY, SANDRA F	10 DRIVER LN	WAKEFIELD, RI 02879
65	3-29	87 CHICKADEE LANE #A29	BEHIE, GREGORY RALPH ET UX		BEHIE, JEANNE MARIE	87 CHICKADEE LANE #A29	WAKEFIELD, RI 02879
65	3-105	5 FESCUE LANE #B27	GEMMA JANE N LIVING TRUST			5 FESCUE LN	WAKEFIELD, RI 02879
65	3-31	75 CHICKADEE LANE #A31	BROOKS/DIONNE REVOC		TRUST	75 CHICKADEE LANE A31	WAKEFIELD, RI 02879
65	3-140	74 DRIVER LANE	HELWIG, GEORGE W ET UX		SALLEY, NADINE A	74 DRIVER LN	WAKEFIELD, RI 02879
65	3-169	54 SAND WEDGE LANE	THAYER PAUL F ET UX		THAYER ANN E	54 SAND WEDGE LN UNIT C47	WAKEFIELD, RI 02879
65	3-208	31 BIRDIE COURT	ENVINE LLC			PO BOX 1299	CHARLESTOWN, RI 02813
65	3-177	4 SAND WEDGE LANE	FRAIOLI FRANK JR		WARREN VICKIE A	4 SAND WEDGE LN	WAKEFIELD, RI 02879
65	3-113	75 FESCUE LANE #B35	SPIELMAN, HOWARD & JOAN		LIVING TRUST	75 FESCUE LN #B35	WAKEFIELD, RI 02879
65	3-108	25 FESCUE LANE #B30	CUDDY, GEORGE A			25 FESCUE LANE #B30	WAKEFIELD, RI 02879
65	3-156	33 DRIVER LANE	MINKLE CORINE A REV TRUST			33 DRIVER LN	WAKEFIELD, RI 02879

65	3-46,	20 CHICKADEE LANE #A46	MERLINO ANNE		20 CHICKADEE LANE # A46	WAKEFIELD, RI 02879
65	3-185	171 DRIVER LANE	SERPA DAVID	SERPA DULCE M T/E	171 DRIVER LANE #C63	WAKEFIELD, RI 02879
65	3-235	12 BIRDIE COURT	ENVINE LLC		PO BOX 1299	CHARLESTOWN, RI 02813
65	3-99	40 FESCUE LANE #B21	WAGNER, KAREN L		40 FESCUE LN #B21	WAKEFIELD, RI 02879
65	3-34	57 CHICKADEE LANE #A34	DOWD JOHN W & CATHEEEN J	REVOCABLE TRUST	57 CHICKADEE LN	WAKEFIELD, RI 02879
65	3-61	154 CHICKADEE LANE #A61	LARNEY, JOHN J IRREV TRUST		154 CHICKADEE LANE #A61	WAKEFIELD, RI 02879
65	3-113	75 FESCUE LANE #B35	SPIELMAN, HOWARD & JOAN	LIVING TRUST	75 FESCUE LN #B35	WAKEFIELD, RI 02879
65	3-146	38 DRIVER LANE	SHERAN SHARON OKEEFE		38 DRIVER LN	WAKEFIELD, RI 02879
65	3-111	45 FESCUE LANE #B33	PULCINI, DAVID A ET UX	PULCINI, SHARON A	45 FESCUE LN #B33	WAKEFIELD, RI 02879
65	3-11	161 CHICKADEE LANE #A11	LUCCZAK JOHN R & TRI-LEVEL CONSTRUCTION CO INC	VICTORIA N	161 CHICKADEE LANE A11	WAKEFIELD, RI 02879
66	25	SAND PLAINS TRAIL			51 TOMAHAWK TRAIL S	WAKEFIELD, RI 02879
66	9	264 SAND PLAINS TRAIL	MASSON, MARK P JR & SARAH		264 SAND PLAINS TRAIL	WAKEFIELD, RI 02879
66	28	359 SAND PLAINS TRAIL	CALITRI JOSHUA		30 SUNSET AVE	WAKEFIELD, RI 02879
66	27	SAND PLAINS TRAIL	SAND PLAINS LLC		30 SUNSET AVE	WAKEFIELD, RI 02879
66	4	352 SAND PLAINS TRAIL	BELANGER EDWARD J &	KATHERINE M	352 SAND PLAINS TRAIL	WAKEFIELD, RI 02879
66	3	370 SAND PLAINS TRAIL	FULLER, KARISSA & MICHAEL		370 SAND PLAINS TR	WAKEFIELD, RI 02879
66	44	SAND PLAINS TRAIL	STEDMAN, JOHN E		145 STONEY ACRES WAY	WAKEFIELD, RI 02879
72-2	21	150 KENYON WOODS WAY	DIERAUF DIANA L TRUST		156 JUNIPER RD	WAKEFIELD, RI 02879
72-2	21	150 KENYON WOODS WAY	DIERAUF DIANA L TRUST		156 JUNIPER RD	WAKEFIELD, RI 02879
65	10	699 SHANNOCK ROAD	SMITH, DOUGLAS M		699 SHANNOCK RD	WAKEFIELD, RI 02879
65	16	685 SHANNOCK ROAD	BECK, ROBERT W & MARY F		685 SHANNOCK RD	WAKEFIELD, RI 02879
66	30	GRAVELLY HILL ROAD	DEMETRICK, JOHN C ET ALS		PO BOX 284	PEACE DALE, RI 02883
65	14	823 GRAVELLY HILL ROAD	SCHULTHEIS ERIC		823 GRAVELLY HILL ROAD	WAKEFIELD, RI 02879

65	12	805 GRAVELLY HILL ROAD	TREMBLAY, KAREN A			805 GRAVELLY HILL RD	WAKEFIELD, RI 02879
72-1	42	785 GRAVELLY HILL ROAD	RAPOSA, WILLIAM A REVOCABLE	LIVING TRUST & SUE E REV LIV TRST		785 GRAVELLY HILL RD	WAKEFIELD, RI 02879
72-1	41	765 GRAVELLY HILL ROAD	BABCOCK, SCOTT W ETUX LOIS V			765 GRAVELLY HILL RD	WAKEFIELD, RI 02879
72-1	40	753 GRAVELLY HILL ROAD	CUNNINGHAM, DAVID L ETUX	JENNIFER L		753 GRAVELLY HILL RD	WAKEFIELD, RI 02879
72-1	39	731 GRAVELLY HILL ROAD	BAILLIE, WILLIAM R			731 GRAVELLY HILL RD	WAKEFIELD, RI 02879
72-2	33	131 KENYON WOODS WAY	STEELE, MARK A & SUSAN E			PO BOX 98	WAKEFIELD, RI 02880
73-1	18	GRAVELLY HILL ROAD	STEDMAN, JOHN E ETUX LINDA M			145 STONEY ACRES WAY	WAKEFIELD, RI 02879
72-1	31	704 SHANNOCK ROAD	LINK, THOMAS F AND JOSEPHINE			704 SHANNOCK RD	WAKEFIELD, RI 02879
72-1	30	676 SHANNOCK ROAD	TARASEVICH, PAUL ETUX KAREN A			676 SHANNOCK RD	WAKEFIELD, RI 02879
72-1	17	657 SHANNOCK ROAD	BORSA, SANDRA A (LL) ETALS			657 SHANNOCK RD	WAKEFIELD, RI 02879-4754
72-2	42	61 WHISPERING PINE TRAIL	SWEENEY MATTHEW J	SWEENEY AMY K		61 WHISPERING PINE TRAIL	WAKEFIELD, RI 02879
72-1	15	800 GRAVELLY HILL ROAD	CHIRNSIDE REBECCA	RAICHE ANDREW D I/T		800 GRAVELLY HILL RD	WAKEFIELD, RI 02879
72-2	41	52 WHISPERING PINE TRAIL	BROCK, EDMUND J & CHERYL M			52 WHISPERING PINE TRAIL	WAKEFIELD, RI 02879
72-2	43	51 WHISPERING PINE TRAIL	WILKINSON, PETER W & LINDA S			51 WHISPERING PINE TRAIL	WAKEFIELD, RI 02879
72-2	38	GRAVELLY HILL ROAD	STEDMAN, JOHN E ETUX LINDA M			145 STONEY ACRES WAY	WAKEFIELD, RI 02879
72-2	24	601A GRAVELLY HILL ROAD	KROUSON IAN P ET UX	KROUSON SORALLY		601 GRAVELLY HILL RD	WAKEFIELD, RI 02879
72-2	32	111 KENYON WOODS WAY	ARAUJO, RANDALL J ET UX	RADEMACHER, MELISSA R		111 KENYON WOODS WAY	WAKEFIELD, RI 02879
73-1	16	GRAVELLY HILL ROAD	SUMMERS ROSEMARY	SUMMERS PHILLIP T/E		151 OSPREY ROAD	MATUNUCK, RI 02879
72-2	34	143 KENYON WOODS WAY	HARTMAN JACK E			PO BOX 14	SLOCUM, RI 02877