

# Lower Sand Hill Road Truck Traffic Study

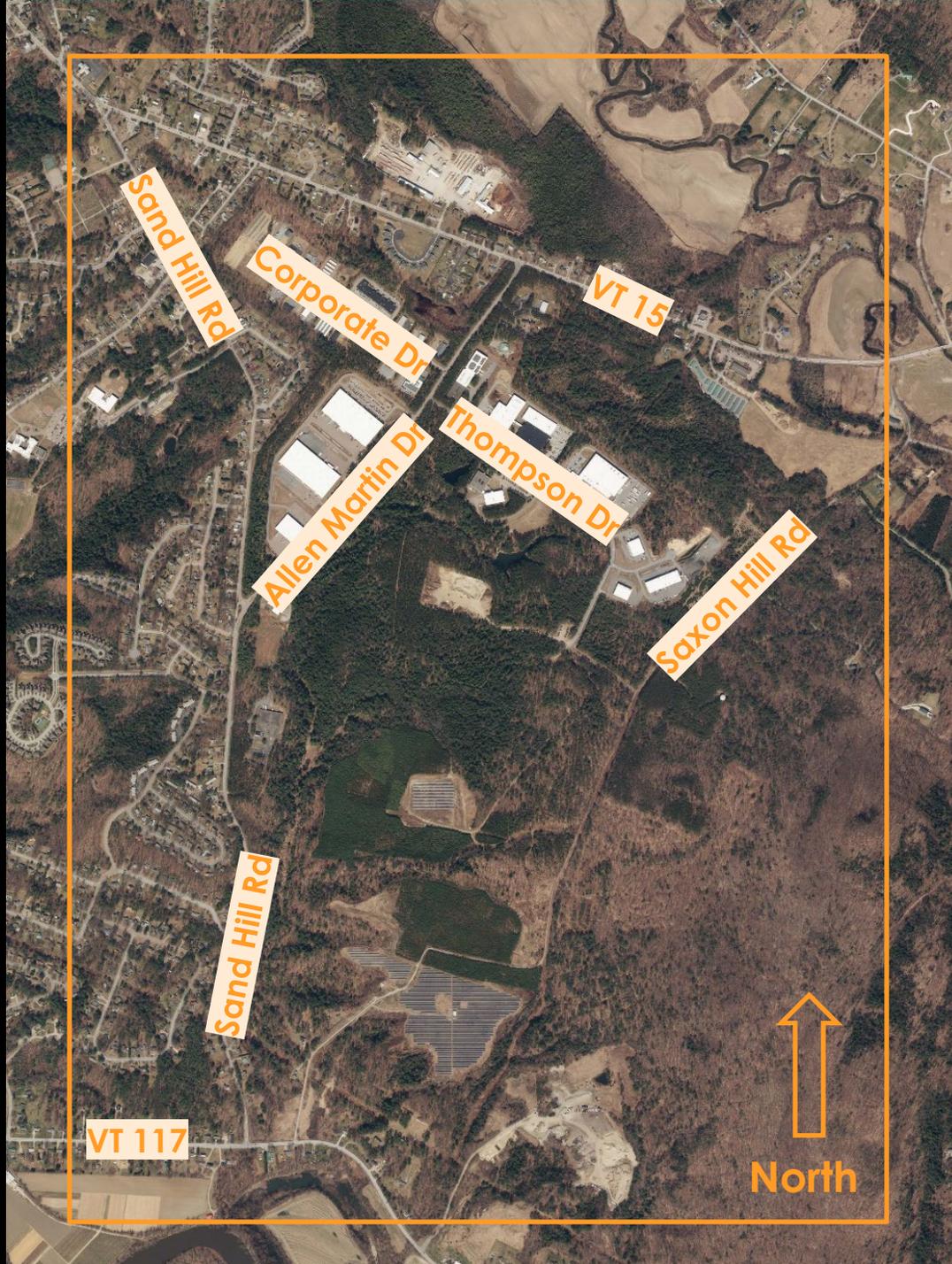
## Project Presentation #1 – 3/13/2025



# Tonight's Purpose

- Project Area & Overview
- Review Existing Conditions
- Gather Public Input

# Project Area



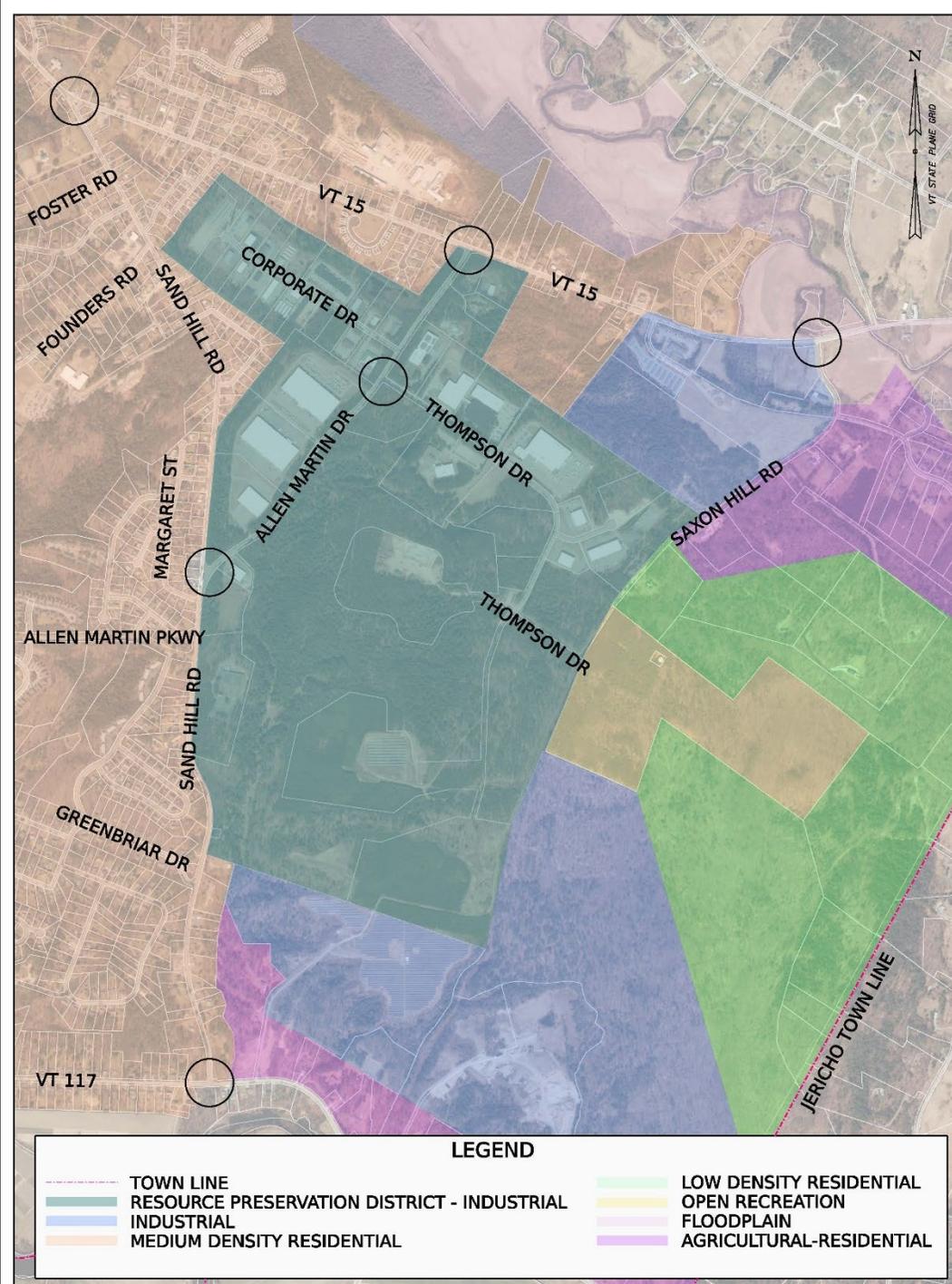
# Study Goals

- Analyze truck traffic
  - Commercial/Industrial
  - Existing/Future (Full Buildout)
- Determine roadway deficiencies & safety issues
- Develop recommendations

# Example Recommendations

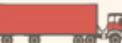
- Geometric Improvements
- Signal Installation/Retiming
- Alternate Truck Routes
- Access Management
- Safety Improvements
- Monitoring Conditions

# Existing Conditions

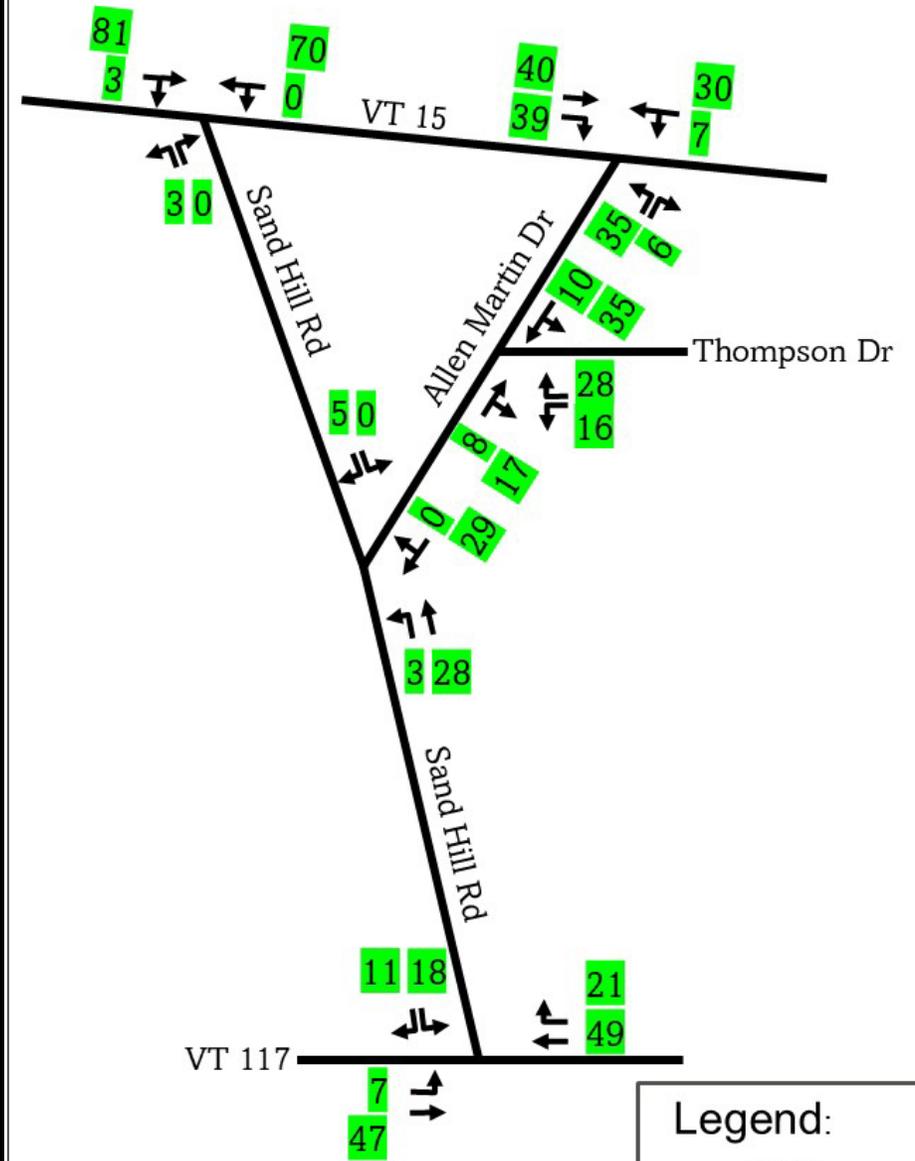


# Truck Travel Data

## 12 Hours – 6am to 6pm

<b>Class 1</b> Motorcycles		<b>Class 7</b> Four or more axle, single unit	
<b>Class 2</b> Passenger cars		<b>Class 8</b> Four or less axle, single trailer	
			
			
			
<b>Class 3</b> Four tire, single unit		<b>Class 9</b> 5-Axle tractor semitrailer	
			
			
<b>Class 4</b> Buses		<b>Class 10</b> Six or more axle, single trailer	
			
			
<b>Class 5</b> Two axle, six tire, single unit		<b>Class 12</b> Six axle, multi-trailer	
			
			
<b>Class 6</b> Three axle, single unit		<b>Class 13</b> Seven or more axle, multi-trailer	
			
			
			

## Truck Counts



VT 117 counts from 9/27/2023

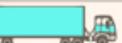
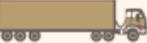
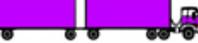
All other counts collected 11/12/2024

Legend:

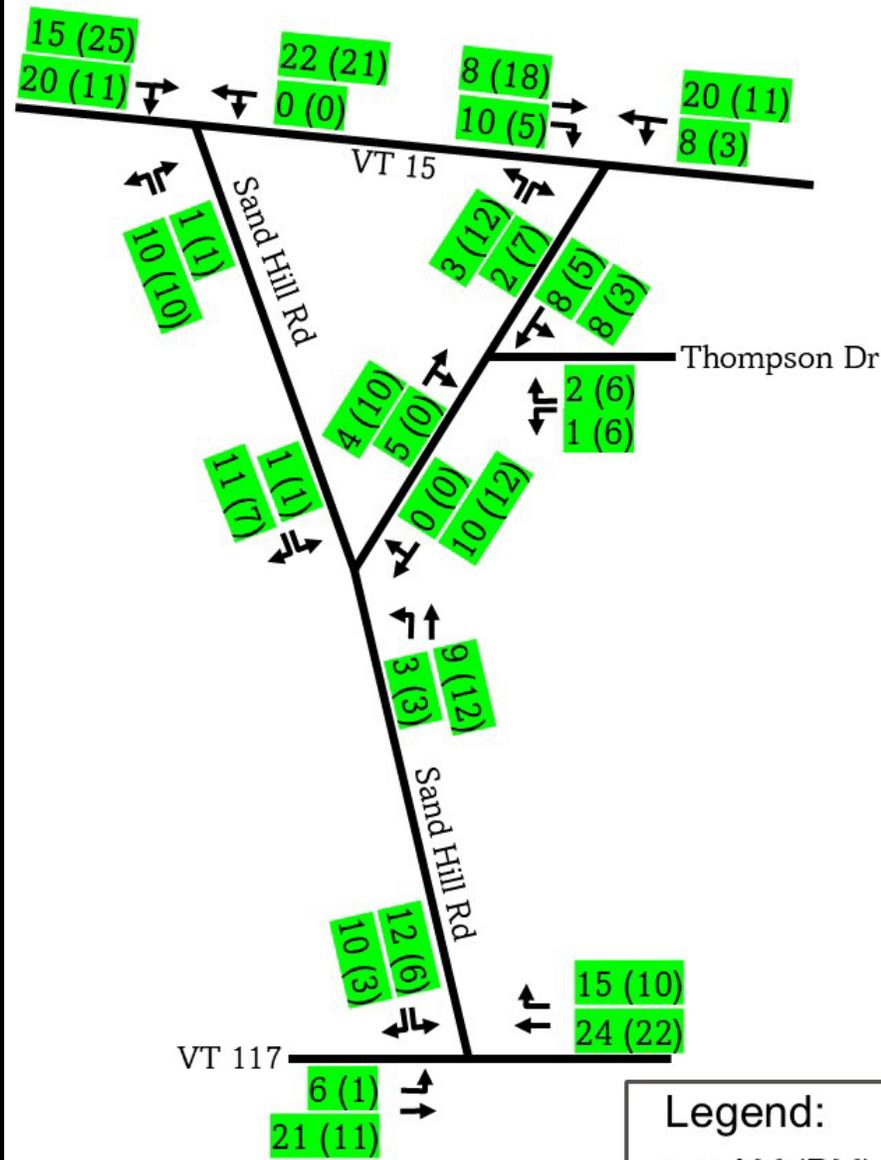
← = 12-Hour  
Truck Volumes

# Heavy Vehicle Data

## AM & PM Peak Hours

<b>Class 1</b> Motorcycles		<b>Class 7</b> Four or more axle, single unit	
<b>Class 2</b> Passenger cars		<b>Class 8</b> Four or less axle, single trailer	
			
			
<b>Class 3</b> Four tire, single unit		<b>Class 9</b> 5-Axle tractor semitrailer	
			
			
<b>Class 4</b> Buses		<b>Class 10</b> Six or more axle, single trailer	
			
		<b>Class 11</b> Five or less axle, multi-trailer	
<b>Class 5</b> Two axle, six tire, single unit		<b>Class 12</b> Six axle, multi-trailer	
			
		<b>Class 13</b> Seven or more axle, multi-trailer	
			
			

## Heavy Vehicle Counts AM and (PM)



VT 117 counts from 9/27/2023

All other counts collected 11/12/2024

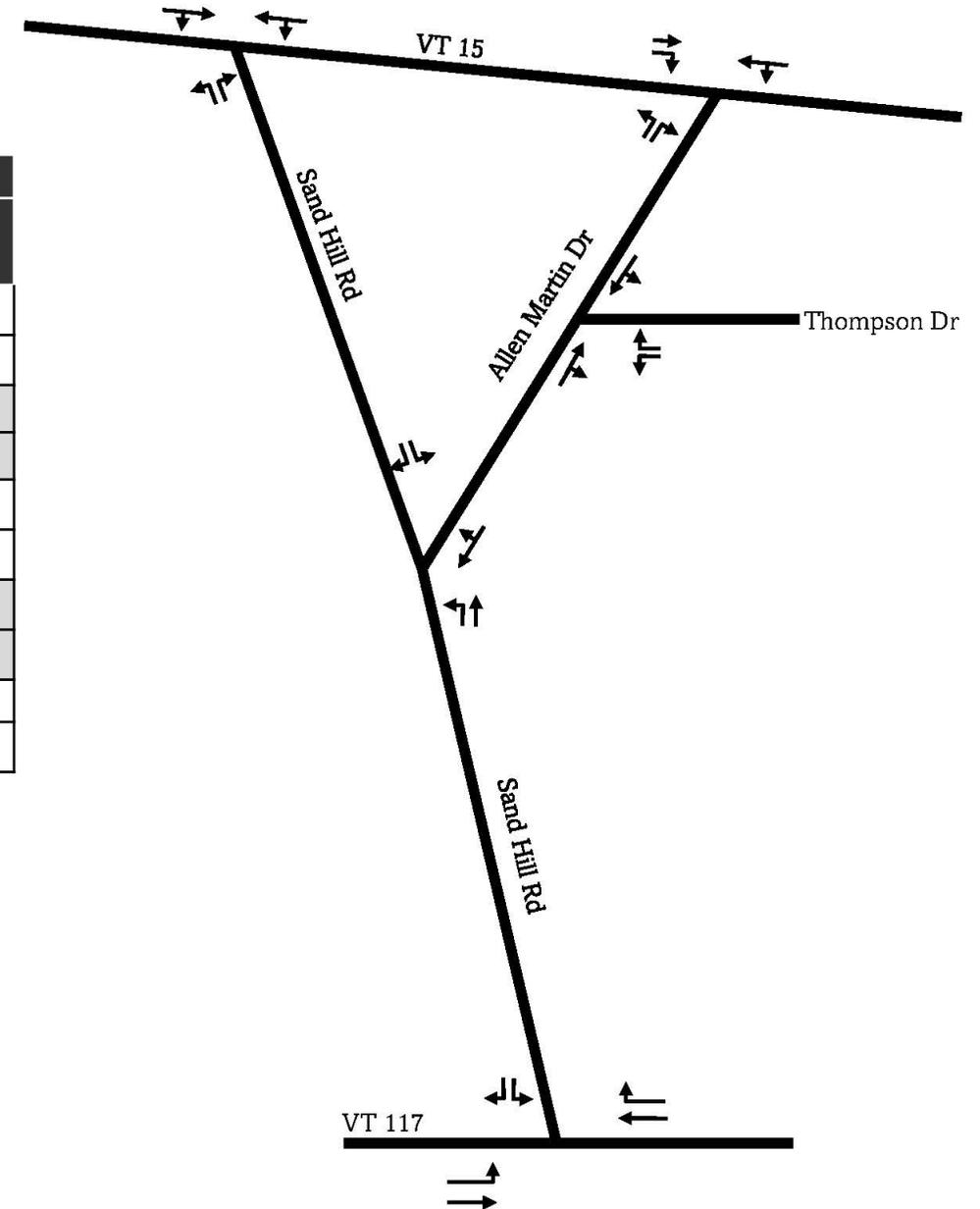
# Traffic Operations

			Existing (2024)			
	Control	Condition	Peak Hour	LOS <sup>1</sup>	Delay <sup>2</sup>	V/C <sup>3</sup>
VT 15 / Sand Hill Rd	Stop	NB Left from Sand Hill Rd	AM	F	174.0	1.21
			PM	F	184.0	1.24
VT 15 / Allen Martin Dr	Stop	NB Left from Allen Martin Dr	AM	C	23.7	0.37
			PM	F	68.6	1.00
Allen Martin Dr / Thompson Dr	Stop	WB Left from Thompson Rd	AM	B	11.8	0.16
			PM	C	15.0	0.31
Sand Hill Rd / Allen Martin Dr	Stop	SB Left from Sand Hill Rd	AM	C	16.7	0.08
			PM	C	20.7	0.15
VT 117 / Sand Hill Rd	Signal	Overall	AM	B	13.9	0.61
			PM	C	22.9	0.73

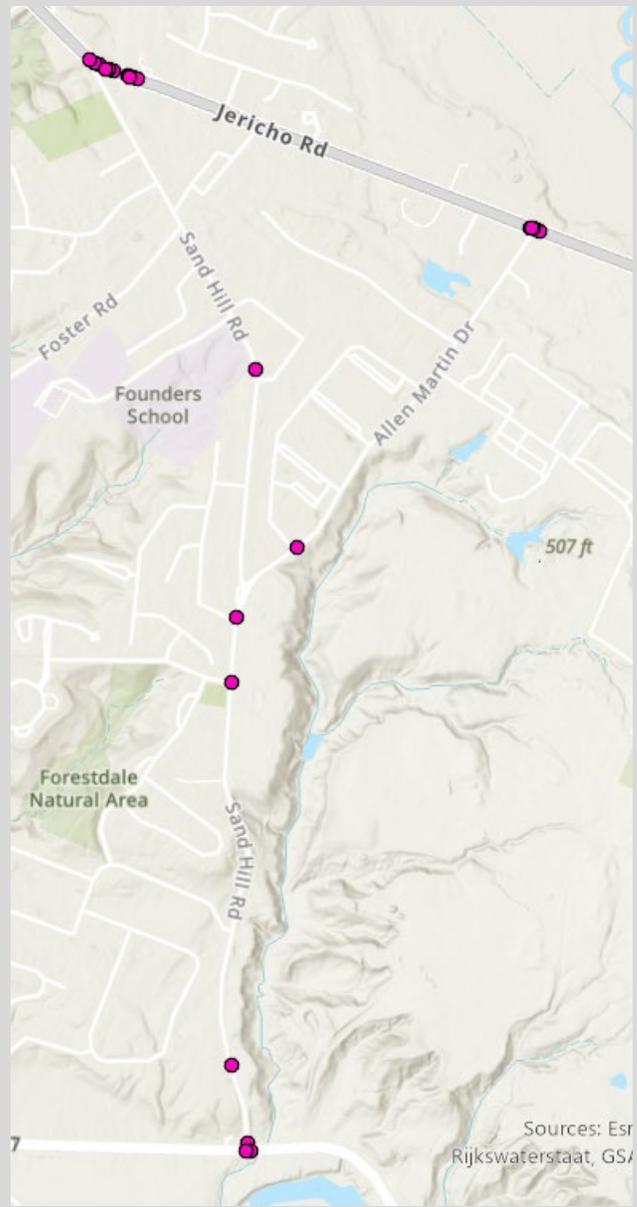
<sup>1</sup> LOS= Level of Service

<sup>2</sup> Delay = Average delay expressed in seconds per vehicle

<sup>3</sup> V/C = Volume-to-capacity ratio for intersection



# Crash Data 2019-2023



Year	VT 15 / Sand Hill Rd	VT 15 / Allen Martin Dr	VT 117 / Sand Hill Rd	Sand Hill Rd	Allen Martin Dr	Thompson Dr
2019	6	2	5	2	0	0
2020	1	4	2	1	0	0
2021	1	2	1	0	0	0
2022	1	0	5	1	0	0
2023	3	4	1	0	1	1
<b>Total</b>	<b>12</b>	<b>12</b>	<b>14</b>	<b>4</b>	<b>1</b>	<b>1</b>
<b>Type</b>						
Angle	7	3	2	0	0	0
Rear-end	1	2	2	0	0	1
Head-on	0	2	2	2	1	0
Single Vehicle	1	0	3	1	0	0
Sideswipe	1	1	1	0	0	0
Broadside	0	3	3	0	0	0
Unknown/Other	2	1	1	1	0	0
<b>Total</b>	<b>12</b>	<b>12</b>	<b>14</b>	<b>4</b>	<b>1</b>	<b>1</b>
<b>Severity</b>						
Property Damage	7	10	10	1	1	1
Personal Injury	0	2	4	3	0	0
Fatality	5	0	0	0	0	0
<b>Total</b>	<b>12</b>	<b>12</b>	<b>14</b>	<b>4</b>	<b>1</b>	<b>1</b>
<b>Weather</b>						
Clear	5	6	5	1	0	1
Cloudy	4	2	1	2	1	0
Rain	2	2	0	0	0	0
Snow/Ice	1	2	8	1	0	0
<b>Total</b>	<b>12</b>	<b>12</b>	<b>14</b>	<b>4</b>	<b>1</b>	<b>1</b>

Source: VTrans Crash Data Query

# Saxon Hill Industrial Park (SHIP)

- Industrial, Permitted for Development
- Industrial, Not Yet Permitted
- Industrial, Developed
- Conservation Recreation
- Medium Density Residential

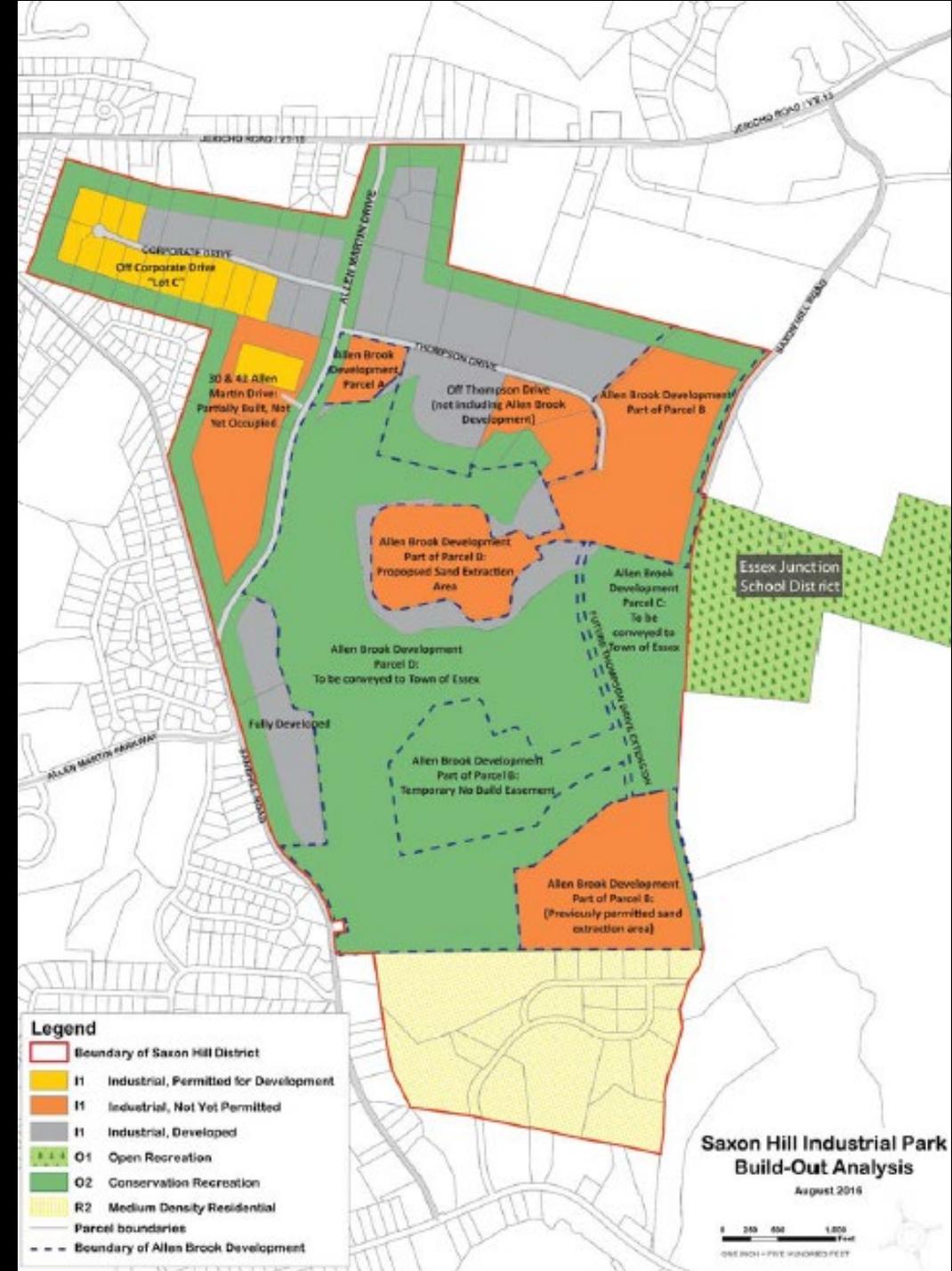


Image Source:  
RSG Final Scoping Report Allen Martin Drive and VT-15 Intersection Scoping Study (2017)

# Public Input Received

Too loud - noise has gotten worse in recent years

Engine noise uphill / engine brakes downhill

Air pollution - dust and diesel exhaust

Ground shakes when trucks drive by

Sidewalk without buffer too close to trucks

Create new truck route: VT 117 to Thompson Drive

Route trucks from VT 289 to VT 15 to Allen Martin Drive

Too many trucks

Any  
additional  
input?

What  
have we  
missed?

# Thank You!

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