

Hummel, Robert

From: Jack Dawley <jdawley@northlandresidential.com>
Sent: Thursday, December 16, 2021 11:09 AM
To: Hummel, Robert; Santos, Michael
Cc: Giles Ham (gham@rdva.com); Jack Dawley
Subject: [EXTERNAL]FW: 8058 - Speed, Sight Lines and Stop Signs - McLean District project - Belmont MA
Attachments: Conceptual Improvements Plan.pdf; VHB sight distances plan.pdf; Sight Line Pictures.pdf
Importance: High

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Robert and Michael,

Based on an abutter question about Chapel Driveway sight lines, the Planning Board requested that I and my Team provide a response for their adjudication of the question. This email string and associated attachments constitutes the applicant's response. I have copied the Town's Traffic Peer Review consultant, as the technical nature of the subject matter will likely lead to their request for an independent review by someone with subject matter knowledge.

Michael, appreciating the time of year and the short timeline, would it be possible for you to review and provide a written response on the analysis that the Board could review at their upcoming Tuesday meeting? I have asked Giles Ham to reach out to you on Monday to review their work product.

Much appreciated,

Jack

John C. Dawley
President & CEO
Northland Residential Corporation

O – 781-229-4704
C - 617-797-6704

From: Giles Ham [mailto:gham@rdva.com]
Sent: Wednesday, December 15, 2021 11:05 AM
To: Jack Dawley <jdawley@northlandresidential.com>
Cc: Curtis Quitzau <CQuitza@VHB.com>; Jennifer Connors <JConnors@rdva.com>
Subject: FW: 8058 - Speed, Sight Lines and Stop Signs - McLean District project - Belmont MA

Jack

As requested, VAI has reviewed the sight distances for vehicles exiting the chapel drives along Olmsted drive. The attached graphic prepared by VHB depicts the available and required sight distances. Coming down the hill at the driveways there is a 3% downgrade with a required sight distance of 158 feet. The available sight distance is in excess of this requirement. Coming up the hill there is an approximate 9% upgrade and only 140 feet is required and is

provided. We have also attached 2 pictures which depict the view of a vehicle exiting the driveway either forwards or backwards from 160 feet.

Also attached is an updated signage plan for the project. We have added additional safety enhancement signage to the plan. The new signs include a 3-way stop at the site driveway, 20 MPH speed limit signs and pedestrian signs.

We trust that this information is useful and addresses comments raised by the Planning Board and the neighbors.

F. Giles Ham P.E.



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From: Jennifer Conners <JConners@rdva.com>
Sent: Wednesday, December 15, 2021 10:55 AM
To: Giles Ham <gham@rdva.com>
Subject: RE: 8058 - Speed, Sight Lines and Stop Signs - McLean District project - Belmont MA

Jennifer S. Conners
Transportation Engineer
Vanasse & Associates inc
main 978-474-8800 | direct 978-269-6839

Consistent with the Governor's Reopening Massachusetts strategy, VAI is encouraging staff to continue to work remotely when possible. Please be assured that our staff is available by phone and email, and that we are committed to providing the same level of service and client responsiveness during this transitional period.

From: Jennifer Conners
Sent: Wednesday, December 15, 2021 10:50 AM
To: Giles Ham <gham@rdva.com>
Subject: 8058 - Speed, Sight Lines and Stop Signs - McLean District project - Belmont MA

Hi Giles,

Please find attached plans and pictures, as requested.



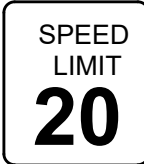



Regards,
Jen

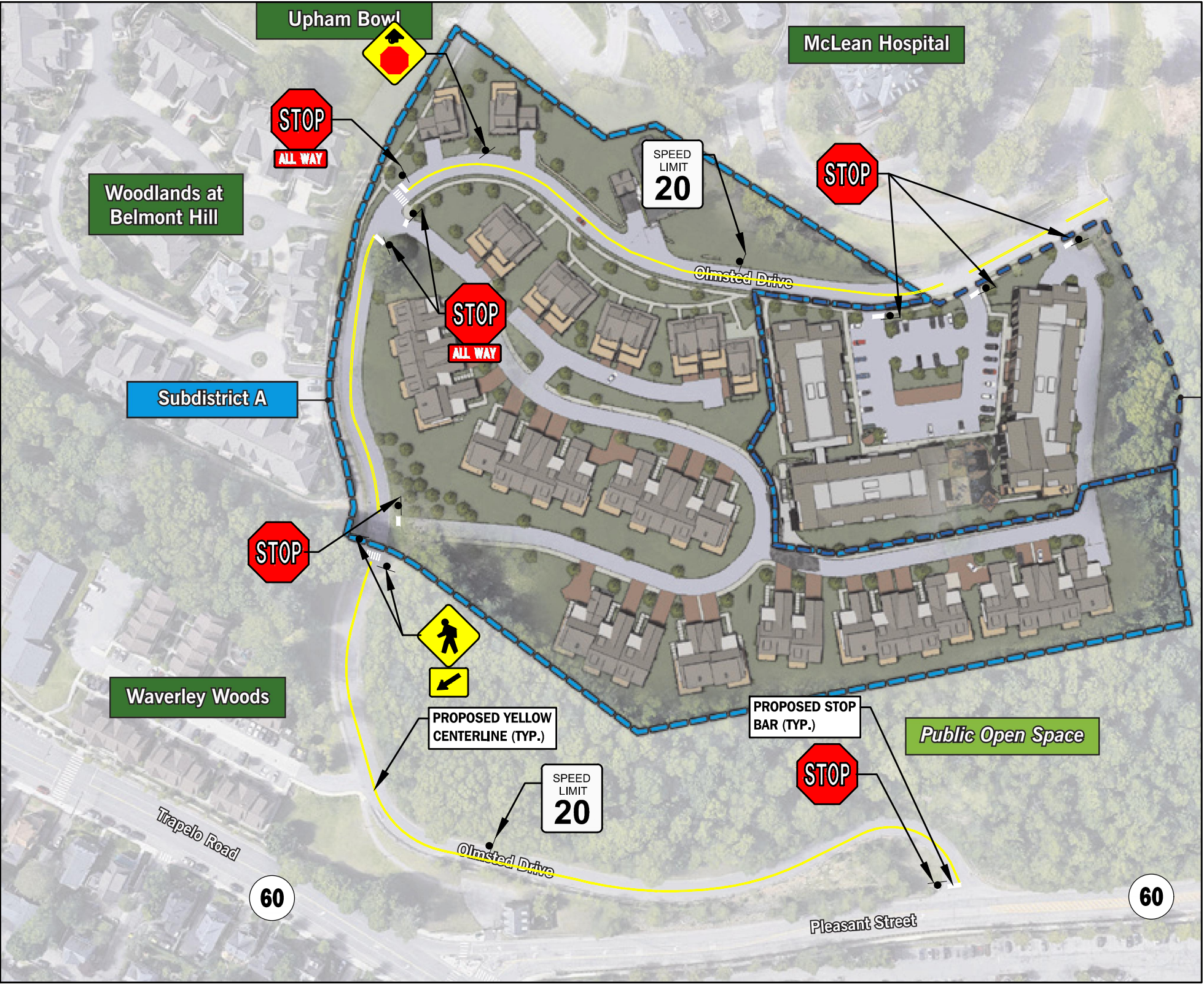
Jennifer S. Conners
Transportation Engineer

35 New England Business Center Drive, Suite 140

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SIGN LEGEND	
R1-1	
R1-4	
R2-1	
W3-1	
W11-2	
W16-7P	



NOTES: 1. THIS PLAN IS FOR REVIEW PURPOSES ONLY
AND IS NOT INTENDED FOR CONSTRUCTION.



Table 2-1: Stopping Sight Distance

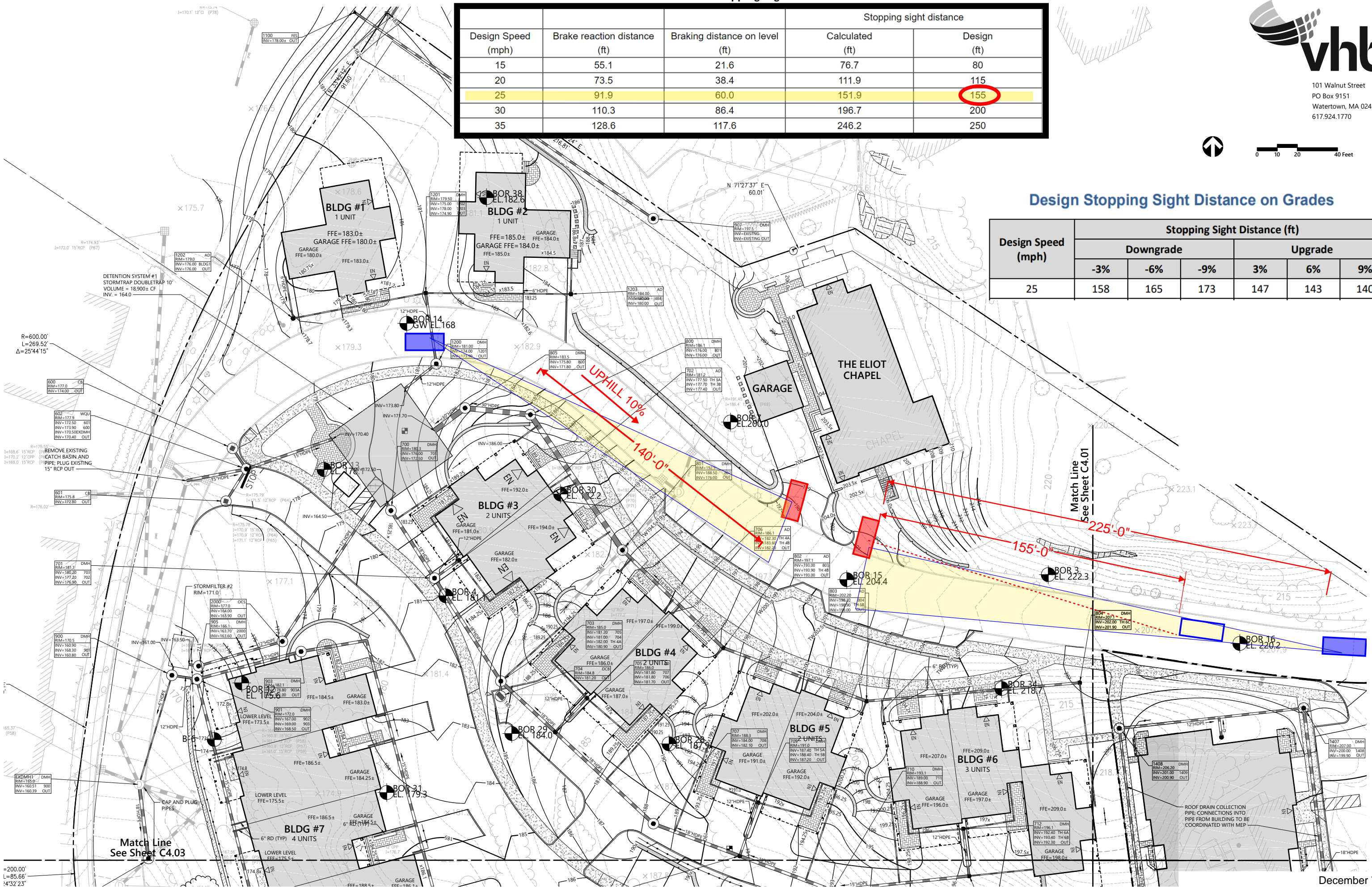
Design Speed (mph)	Brake reaction distance (ft)	Braking distance on level (ft)	Stopping sight distance	
			Calculated (ft)	Design (ft)
15	55.1	21.6	76.7	80
20	73.5	38.4	111.9	115
25	91.9	60.0	151.9	155
30	110.3	86.4	196.7	200
35	128.6	117.6	246.2	250



0 10 20 40 Feet

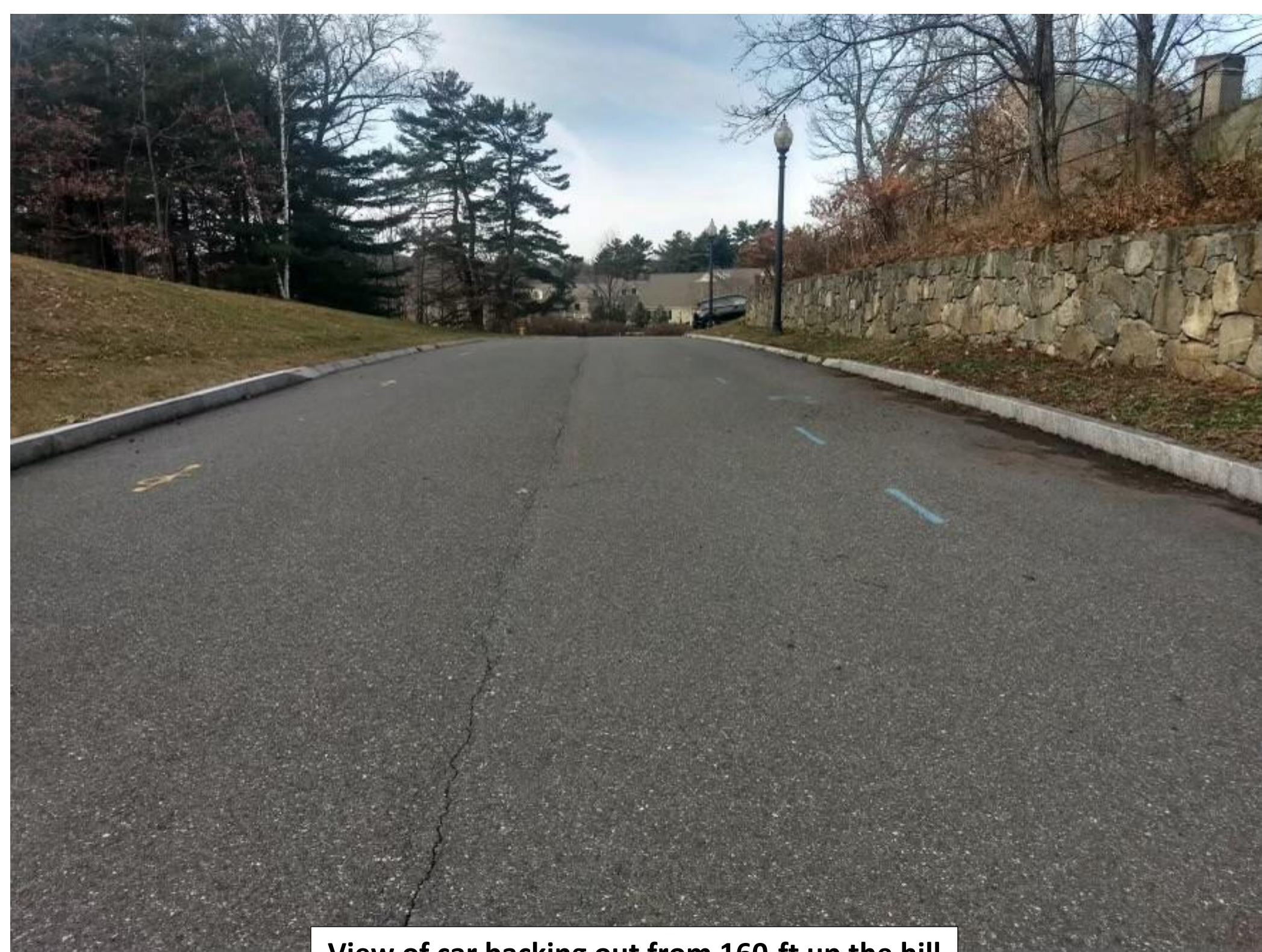
Design Stopping Sight Distance on Grades

Design Speed (mph)	Stopping Sight Distance (ft)					
	Downgrade			Upgrade		
	-3%	-6%	-9%	3%	6%	9%
25	158	165	173	147	143	140





View of car exiting from 160-ft up the hill



View of car backing out from 160-ft up the hill