



NORFOLK FIRE DEPARTMENT

117 MAIN STREET
NORFOLK, MASSACHUSETTS 02056

COLEMAN C. BUSHNELL
FIRE CHIEF

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October 11, 2017

Mr. Michael Kulesza
Chairman
Zoning Board of Appeals
Town of Norfolk
One Liberty Lane
Norfolk, MA 02056

Dear Mr. Kulesza;

Earlier today I met with representatives from DiPlacido Development regarding Abbyville. The purpose of the discussion was to review correspondence from GREEN INTERNATIONAL AFFILIATES (GIA), Inc. as authored by Mr. William J. Scully, P.E., Director of Transportation Planning, which referenced a peer review performed by the Beta Group, Inc., dated July 27, 2017. While the Fire Department was not privy to these documents until today, it was the Fire Department's belief a response was warranted.

Referring to GIA's correspondence, two items of interest to the Fire Department were noted under 3. and 4. Both points referenced the ability of fire apparatus, specifically a fire department ladder truck, to maneuver through the roadways of Abbyville. Concerning the round-about configurations GIA employed the technology of the AutoTurn software and determined with minor adjustments such fire apparatus could traverse these components of the development's roadway system. Furthermore, the analysis of the dead-ends or cul-de-sacs provided adequate maneuverability of a fire department ladder truck as noted through the performance analysis under AutoTurn 10. To accomplish this, minor adjustments were needed under the following cul-de-sacs:

- Green Circle
- Thayer Circle
- Daniel Drive
- Waite Circle
- Horseshoes at Lots #52-55, Lots #56-58

GIA concludes that revised plans will be submitted for review and anticipated acceptance as compliant.

Forthwith the Fire Department notes that under the provisions of M.G.L. c. 148, BOARD OF FIRE PREVENTION REGULATIONS, 527 CMR: 1.00 MASSACHUSETTS

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Mr. Kulesza, Chairman, Zoning Board of Appeals

RE: Abbyville

COMPREHENSIVE FIRE SAFETY CODE, National Fire Protection Association (NFPA), Standard 1, *Fire Code* – 2012 edition, Section 18, Fire Department Access and Water Supply, the analysis performed by GIA complies with the requirements of Sections 18.1.1.3 and 18.1.1.4, i.e. such plans analyzed for Fire Department Access Road (FDAR) documented through swept path analysis and turn simulation software. The implementation of the AutoTurn software satisfies this requirement as empirical data noting the ability of fire apparatus to deliver emergent service.

Therefore the FDAR configuration for Abbyville complies with the applicable provisions of 527 CMR: 1.00, MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE.

Sincerely,

Coleman C. Bushnell
Fire Chief
EFO, CFO, MIFireE

Cc: DiPlacido Development, via email

www.virtualnorfolk.org