Bergman & Associates
PROFESSIONAL ENGINEERS

Prepared For:
Bergman & Associates and
Town of Bedford
Site Address:
38 Crosby Drive
Bedford, MA 01730

Prepared By:
Caron & Associates Design
Benjamin & Eric Caron
301 Concord Street
Haverhill, MA 01830
(978) 360-3671
ben@cadsims.com

General Information:
Balloon Flown at N42° 30' 42.54090", W71° 14' 46.28967" Elev=223.26'
Balloon Test for these renderings was completed Friday 5/15/2015
Bottom of Red 7' diameter balloon = 200' AGL
Top of proposed Tower Steel shown = 200' AGL per client instructions
Photographs were taken only when the inclination was reported
as near vertical by an associate on site throughout the test.
Weather conditions were clear skies and calm winds becoming light around 12:45 A.M.
When the existing water tank was visible, that was the reference used for the 3D model
(not the balloon) as it was precisely surveyed and a more stable reference for the simulations.

For visual reference only. Actual visibility is dependent upon weather conditions, season, sunlight, and viewer location.

Based upon discussions with client regarding tower dimensions & tower loading information emails from carriers.

Bedford, MA ~ (5/19/2015)
Photographic Renderings

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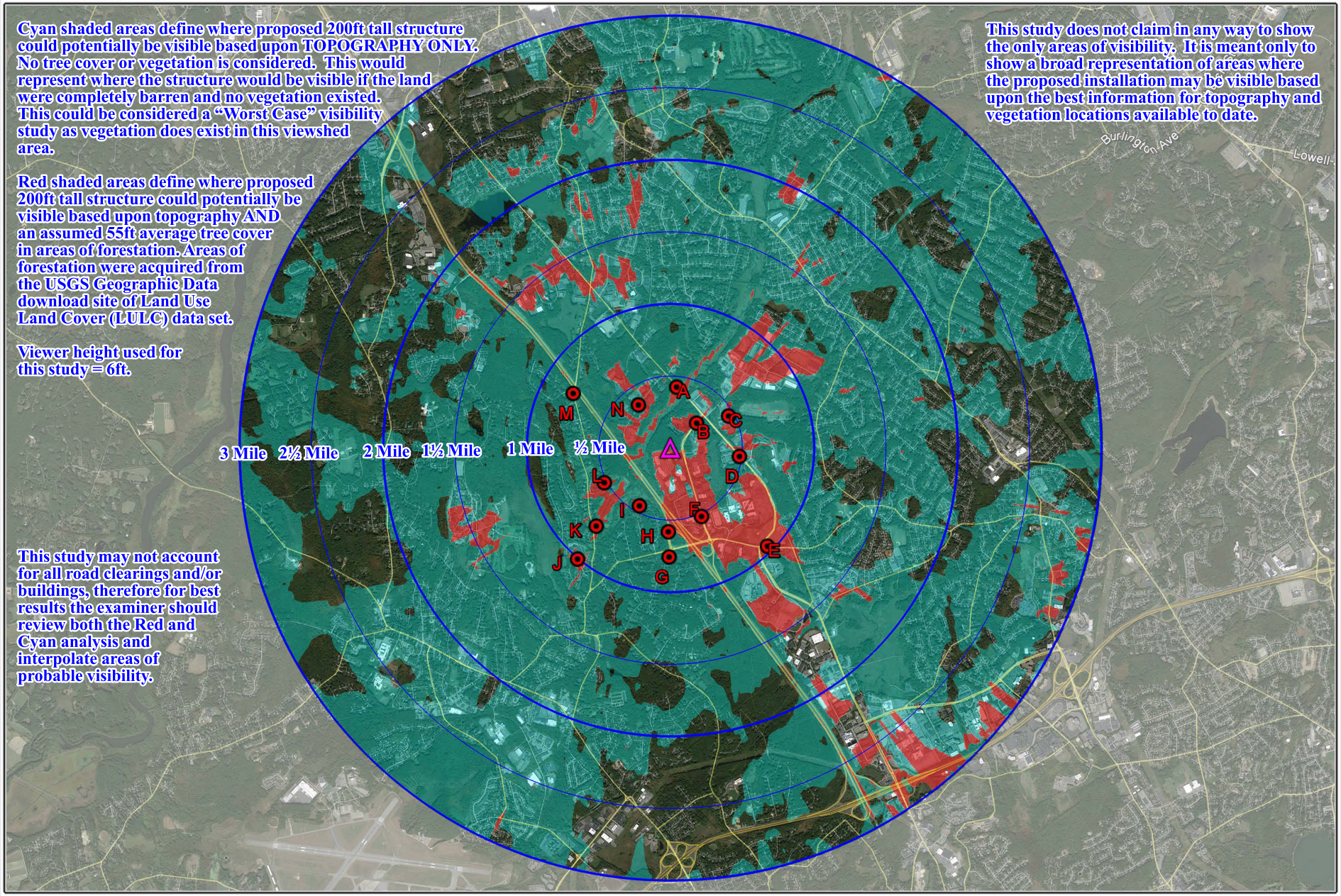

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Bedford, MA ~ (5/19/2015)

Predictive Viewshed Mapping based upon terrain with and without tree cover ~ 3 Mile Radius

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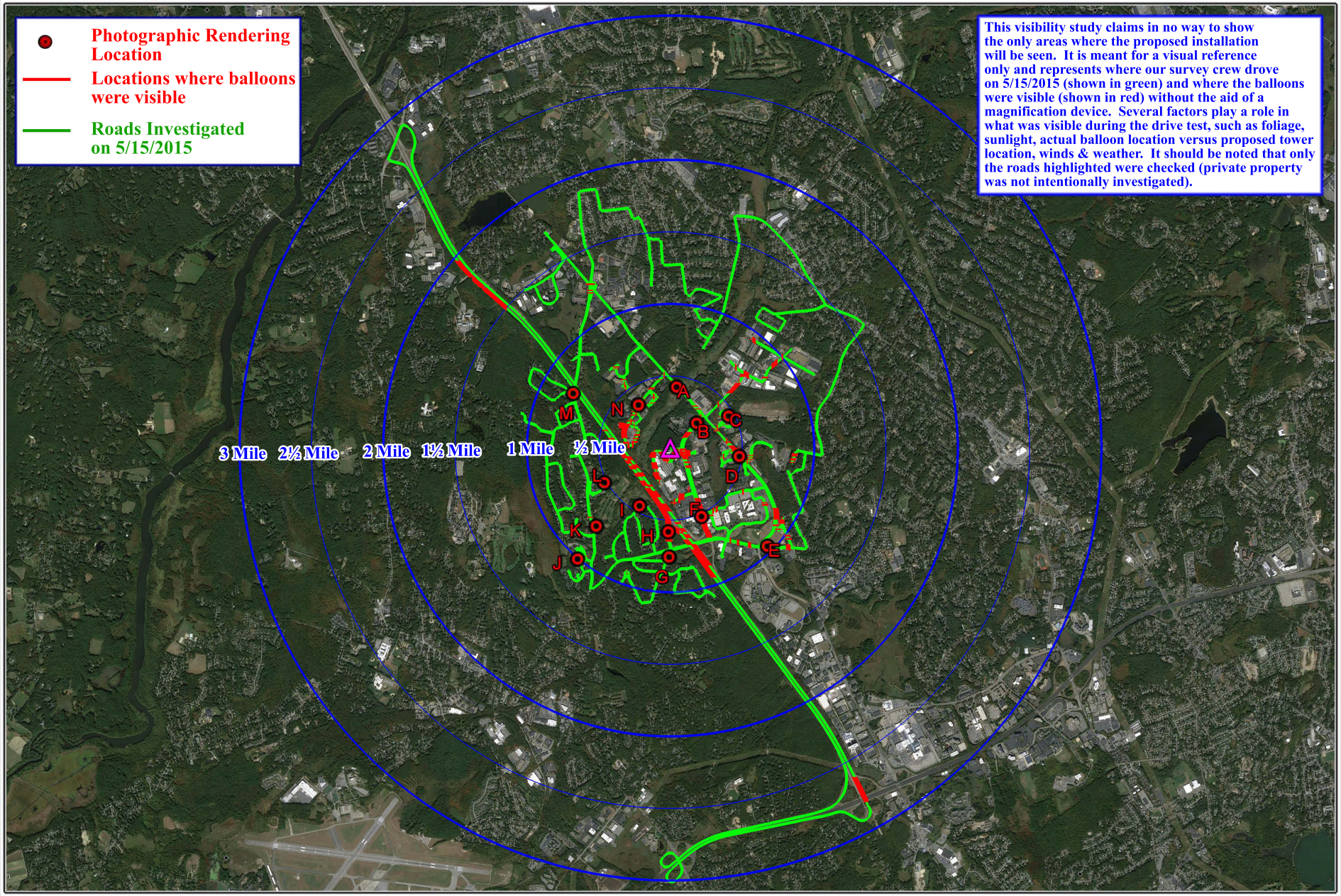

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Bedford, MA ~ (5/19/2015)

Driven/Verified Visibility Map
3 Mile Radius

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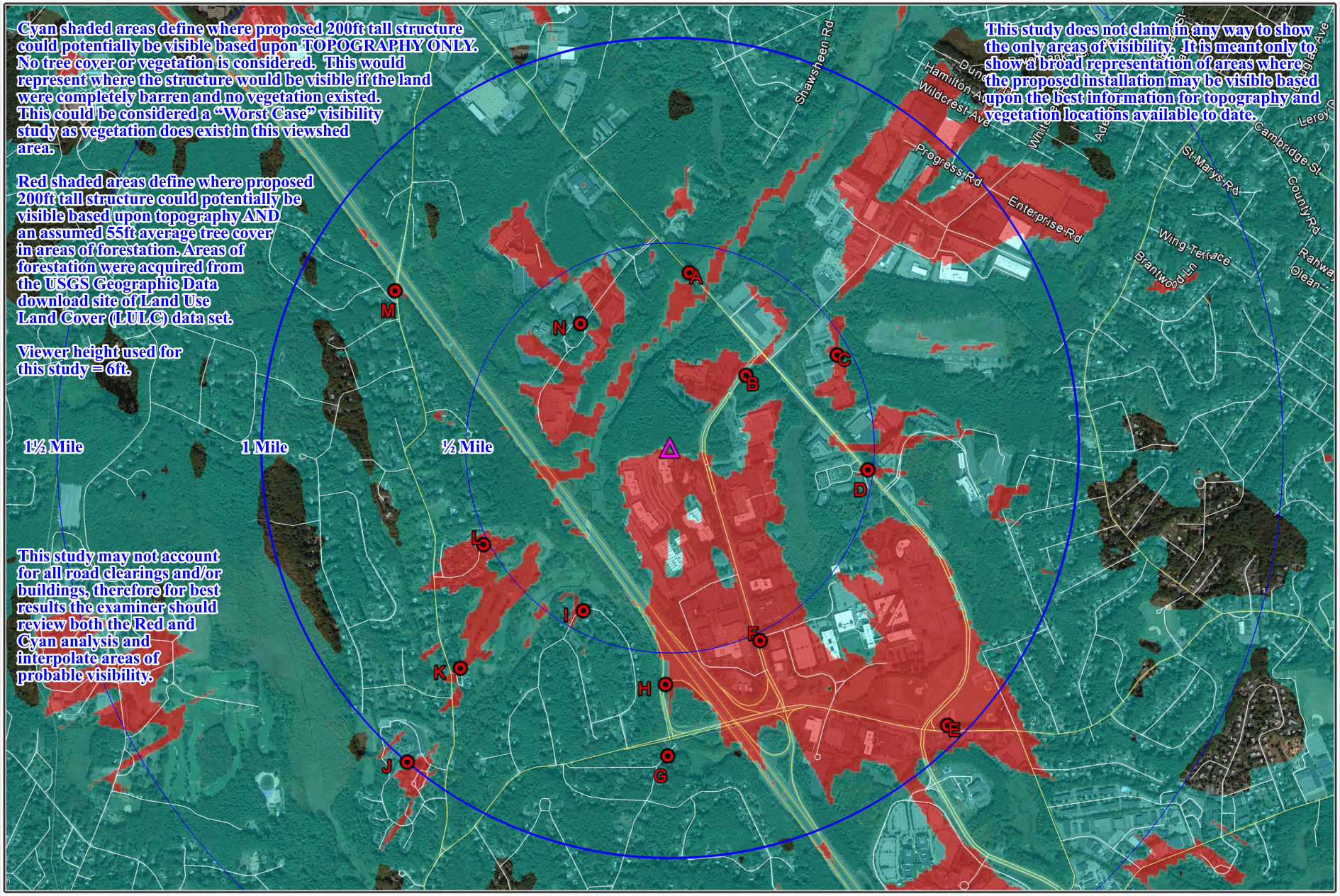

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Bedford, MA ~ (5/19/2015)

Predictive Viewshed Mapping based upon terrain with and without tree cover ~ 1 Mile Radius

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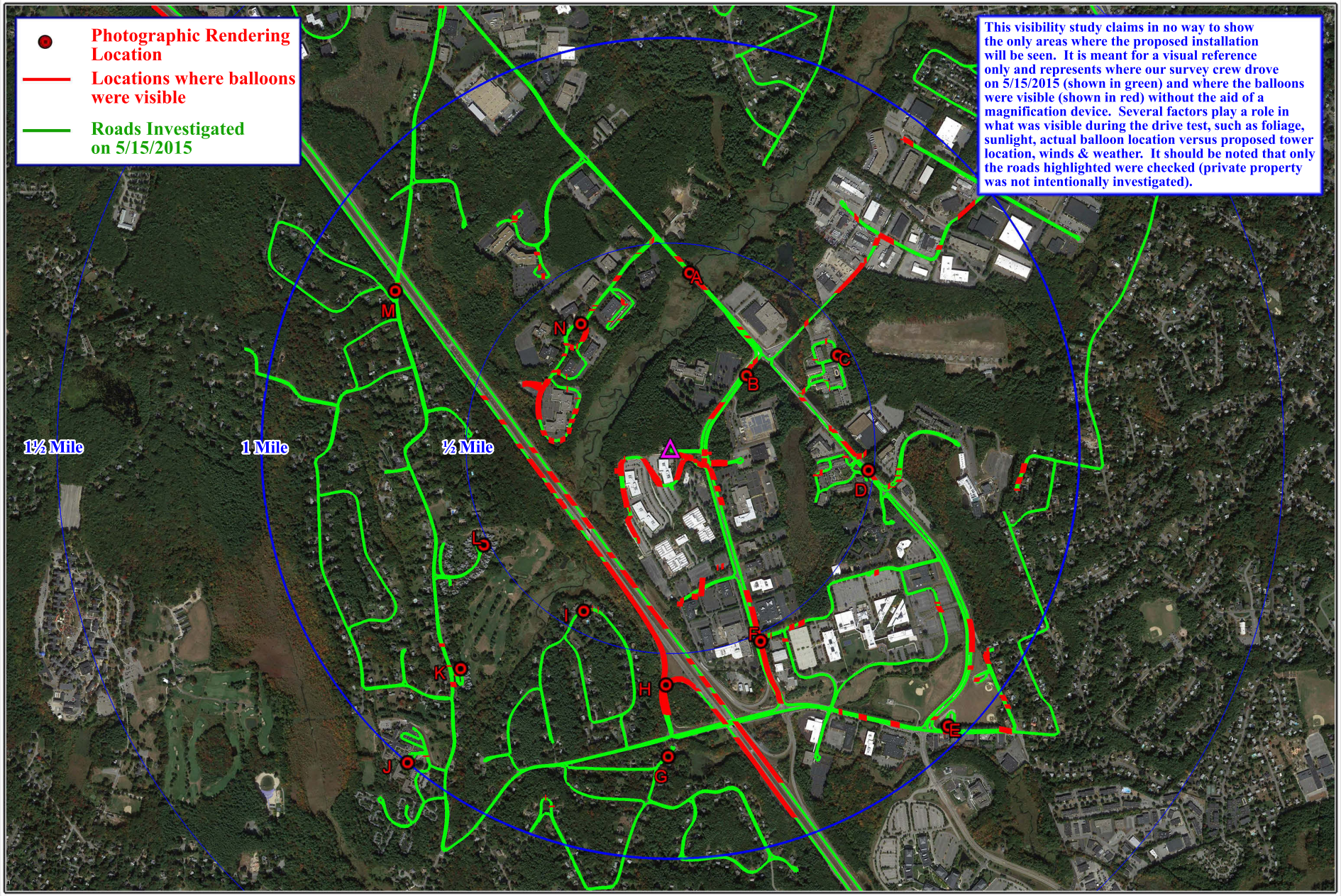

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Bedford, MA ~ (5/19/2015)

Photo Location A ~ 65mm ~ 2271'+/- (0.43mi) Away From Middlesex Turnpike near Shawsheen River

Created By: Benjamin & Eric Caron
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Caron & Associates CAD Design

Proposed Conditions

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Bedford, MA ~ (5/19/2015)

Photo Location B ~ 50mm ~ 1363'+/- (0.26mi) Away
Near the Intersection of Middlesex Turnpike and Crosby Drive

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Bedford, MA ~ (5/19/2015)

Photo Location C ~ 65mm ~ 2477'+/- (0.47mi) Away From The Village at Taylor Pond

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Bedford, MA ~ (5/19/2015)

Photo Location D ~ 65mm ~ 2580'+/- (0.49mi) Away
Near Heritage at Bedford Springs

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Bedford, MA ~ (5/19/2015)

Photo Location E ~ 85mm ~ 5068'+/- (0.96mi) Away From Mitre Park

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Bedford, MA ~ (5/19/2015)

Photo Location F ~ 65mm ~ 2744'+/- (0.52mi) Away From Crosby Road

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Bedford, MA ~ (5/19/2015)

Photo Location G ~ 50mm ~ 3965'+/- (0.75mi) Away From Wilson Road Dam (requested photo location)

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Bedford, MA ~ (5/19/2015)

Photo Location H ~ 65mm ~ 3044'+/- (0.58mi) Away From Ramp on Route 3

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Bedford, MA ~ (5/19/2015)

Photo Location I ~ 65mm ~ 2370'+/- (0.45mi) Away From Meadowbrook Road

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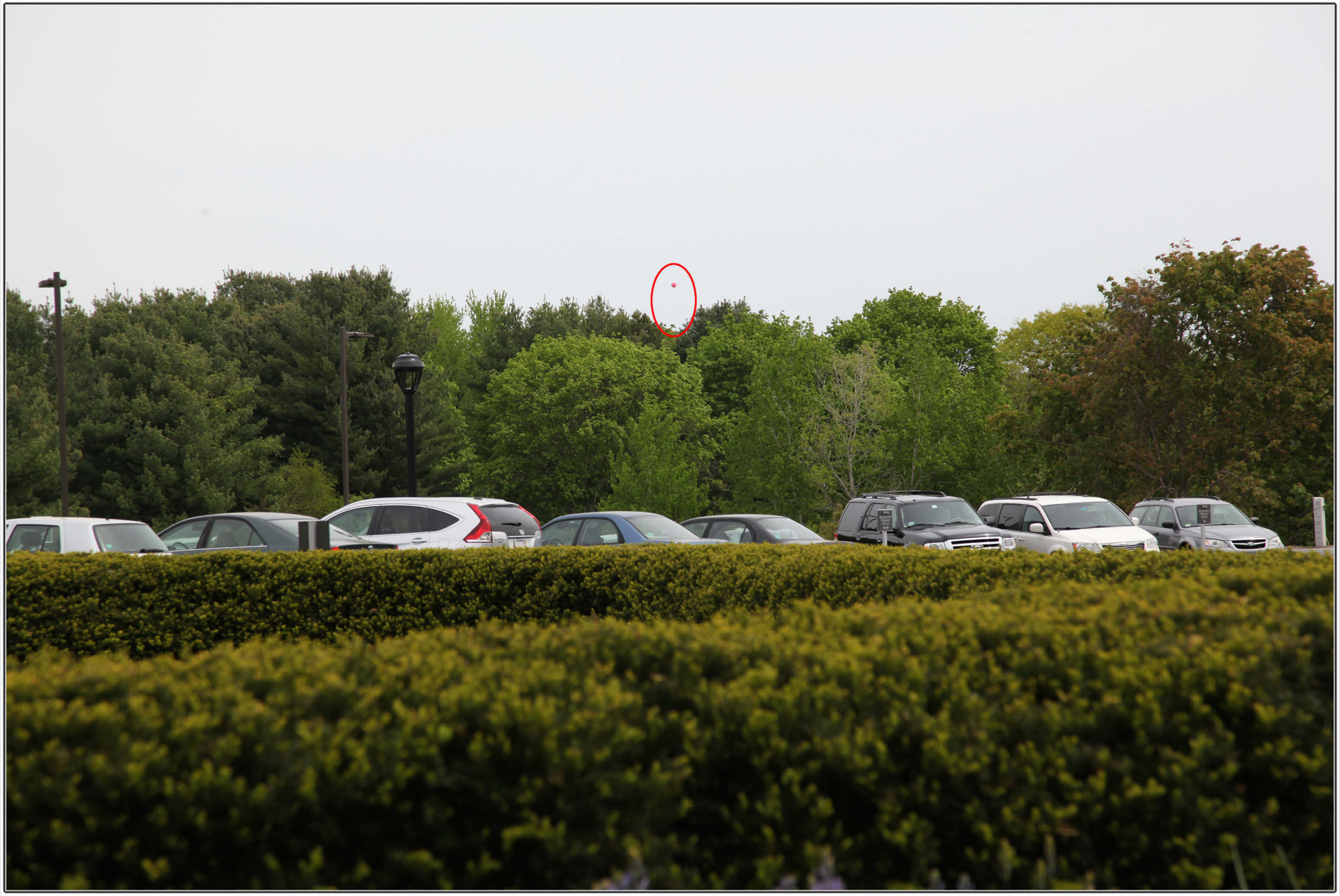

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Bedford, MA ~ (5/19/2015)

Photo Location J ~ 105mm ~ 5272'+/- (1.00mi) Away From Carleton-Willard Village

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Bedford, MA ~ (5/19/2015)

Photo Location K ~ 85mm ~ 3914'+/- (0.74mi) Away
Near 14 Shire Lane

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Bedford, MA ~ (5/19/2015)

Photo Location L ~ 65mm ~ 2703'+/- (0.65mi) Away
End of Mitchell Grant Way

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Bedford, MA ~ (5/19/2015)

Photo Location M ~ 85mm ~ 4080'+/- (0.77mi) Away From Overpass on Old Billerica Road

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Bedford, MA ~ (5/19/2015)

Photo Location N ~ 65mm ~ 1969'+/- (0.37mi) Away From Oak Park Drive

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3D Model built and used for simulations

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Balloons Used for Test Completed on 5/15/2015

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