

MEMORANDUM

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To: Tony Trombino, H2M

From: George M. Janes, AICP

RE: Old Westbury Water Storage Tank Photosimulations

H2M asked George M. Janes & Associates (GMJ&A) to produce another set of photosimulations showing the proposed Old Westbury water storage tank at its new location. This memorandum is intended to document these new photosimulations. Should there be any questions or comments about this document or the photosimulations, please do not hesitate to contact me.

Base photography

The photographs of existing conditions were taken between 11am and 3pm on February 9, 2012 with a Canon 5D full-frame digital camera mounted on a leveled tripod. An adjustable lens set to 50mm was used to replicate the distance perspective of the human eye. Conditions were sunny with a light to moderate wind, and trees were in leaf-off condition.

The photographs were taken to capture a tethered balloon flown to the height of the proposed water tank and placed at the center of the proposed tank. To compensate for the presence of wind, photographs were taken while in radio communication with a team stationed at the base of the balloon who communicated to the photography team when the balloon was perpendicular to the ground.

The photosimulations

As with the previous photosimulations, these photosimulations were constructed as verifiable digital photomontages. This is a technique that merges an existing conditions photograph with an elevated, 3D computer model of a proposed action, which in this case is the proposed water storage tank. The technique is “verifiable” since the computer model of the action can be measured and its placement in 3D space checked for accuracy. A key part of making a photosimulation verifiable is the use of references that exist in both the existing conditions photograph and in the 3D model. References ensure that the computer camera used to render the 3D computer model matches the camera used to take the existing conditions photograph. The most important reference in each of these simulations is the balloon.

The simulations are designed to be viewed with the existing conditions photograph so that the visual change the tank introduces to the view is apparent.

Consequently, each viewpoint is shown using three images. The first is always the base photograph taken during the fieldwork. The second image is that base photograph altered to remove the balloon. The third image is the photosimulation showing the proposed water storage tank.

The water storage tank simulated is derived from a 3D model of the tank provided by your office. The water tank was colored by my office using the color “Springwater” taken directly from Tnemec’s digital color swatches, which can be found here: <http://www.tnemec.com/product/colors/?cq=springwater>

The proposed water storage tank was then imported into a 3D computer model of the area. References visible in the existing condition photographs and the 3D model were used to create cameras to match this computer model to the photographs. The computer cameras were set up to mimic the location, direction and the lens of the actual camera used to take the photographs. Lighting for the tank was set to reflect the sunny conditions that existed when the photographs were taken. The position of the sun was set to match the time of day the photographs were taken. After the computer cameras and lighting was set, the image of the tank was rendered using Autodesk 3ds Max.

The resulting tank rendering was then merged with the existing conditions photograph using Adobe Photoshop, which was also used to treat the existing vegetation where the tank will be only partially visible.

Viewpoints

The following viewpoints were studied and simulated. Each of the base photographs were composed on 50mm image. Viewpoints noted with an alpha suffix were viewpoints where multiple photographs were taken during fieldwork (e.g. different locations on the same property.) The viewpoints studied are as follows:

Viewpoint 1: Backyard of 41 Valley Road.

Viewpoint 2a: Backyard of 6 Vista Lane.

Viewpoint 2b: Backyard of 6 Vista Lane.

Viewpoint 3a: Backyard of the house on the corner of Evans Drive and Vista Lane.

Viewpoint 3b: Backyard of the house on the corner of Evans Drive and Vista Lane.

Viewpoint 3c: Backyard of a house on the corner of Evans Drive and Vista Lane, upper deck.

Viewpoint 4a: Adjacent to the curb on Evans Drive; photo looking toward 34 Evans Drive.

Viewpoint 4b: Backyard of 34 Evans Drive.

Viewpoint 5: Driveway of 22 Evans Drive.

Viewpoint 6: Omitted during second round since first round showed minimal visual impact.

Viewpoint 7: Backyard of 8 Vista Lane.

Viewpoint 8: Front yard of 13 Evans Drive.

Viewpoint 9: From the *cul de sac* in front of 6 Vista Lane.

Viewpoint 10: Driveway of 5 Heather Hill Road.

Viewpoint 11: In front of 1 Heather Hill Road; photo taken from the street.

Viewpoint 12: In front of 4 Andover Road; photo taken from the street.