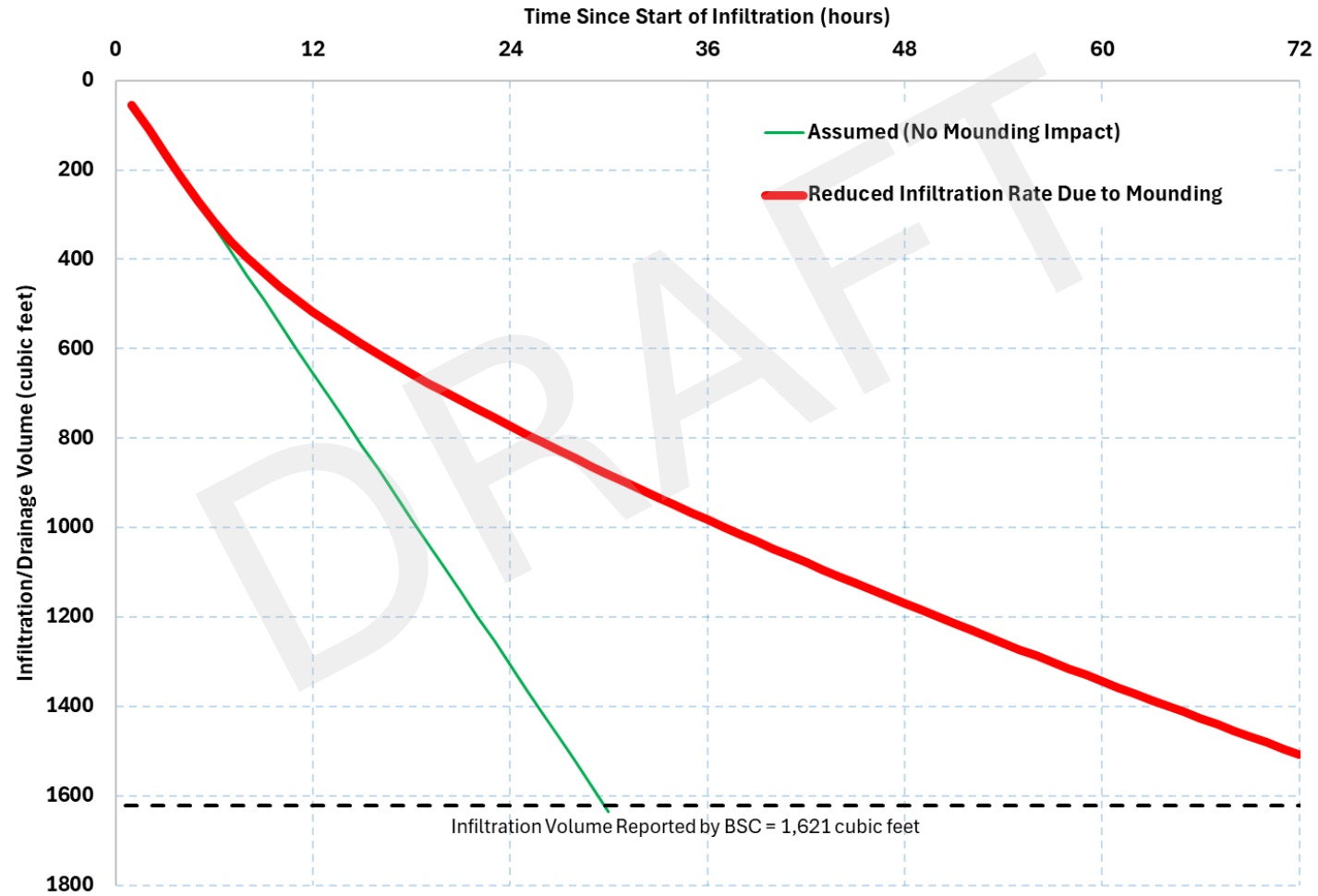


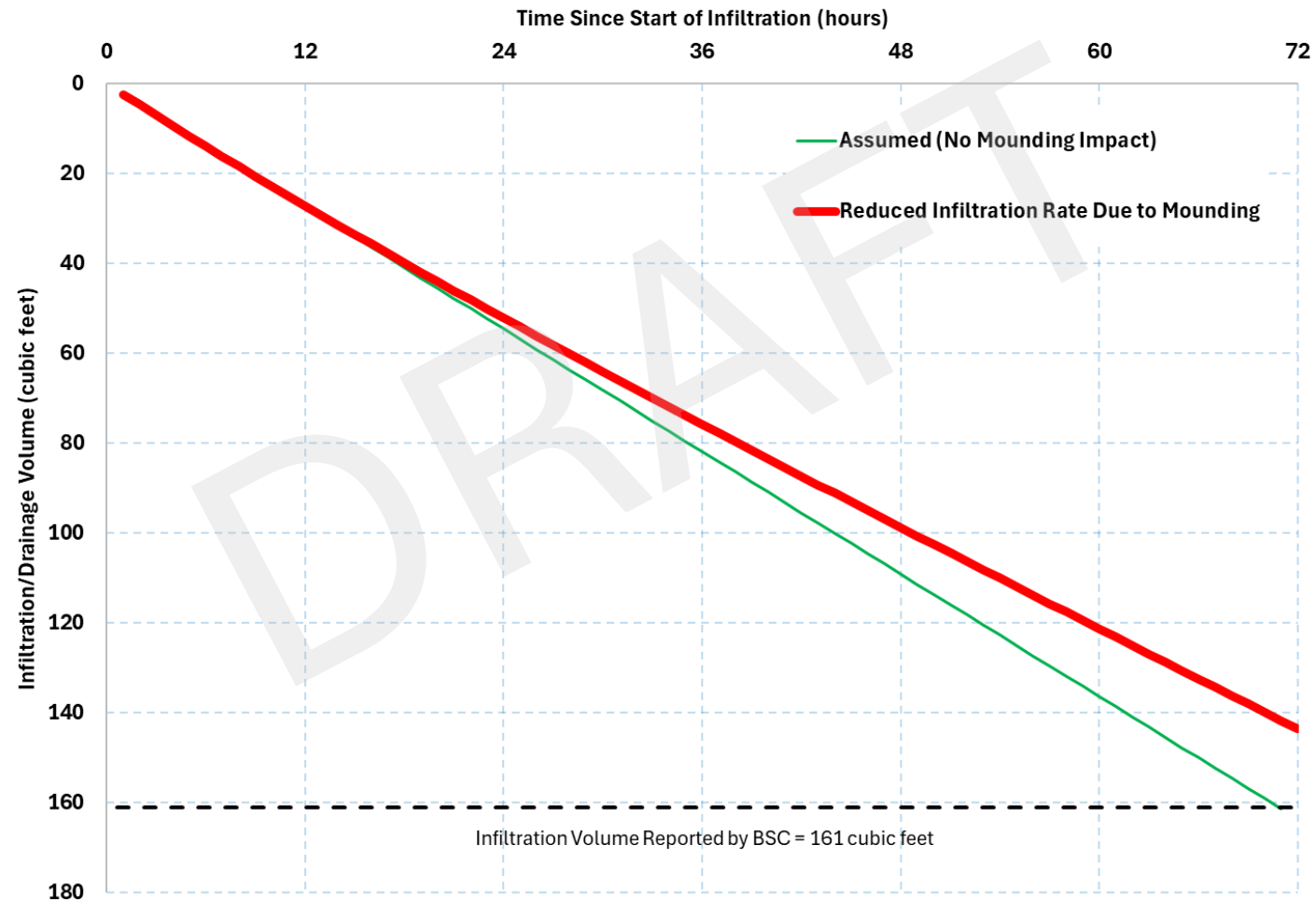
Additive Mounding Impacts – Numerical Example

- Not to be used by others to support any current or future proposed design. Reliable site-specific modeling would require additional effort (e.g., calibration) and supporting information/data.
- **Intent: if the mounding analysis were to account for effects from other systems and subsurface barriers, what would it generally show?**
- Relies on nearly identical set of assumptions BSC accepted in using Hantush (e.g., quasi-infinite aquifer extent, aquifer properties, etc.)
- Allows for representation of all simultaneously active infiltration systems (rain garden excluded), local lateral boundaries (foundations) w/ accurate vertical extent, etc.
- Can approximate adverse effects of mounding on infiltration rates using head-dependent boundary conditions rather than specified flows at infiltration systems.

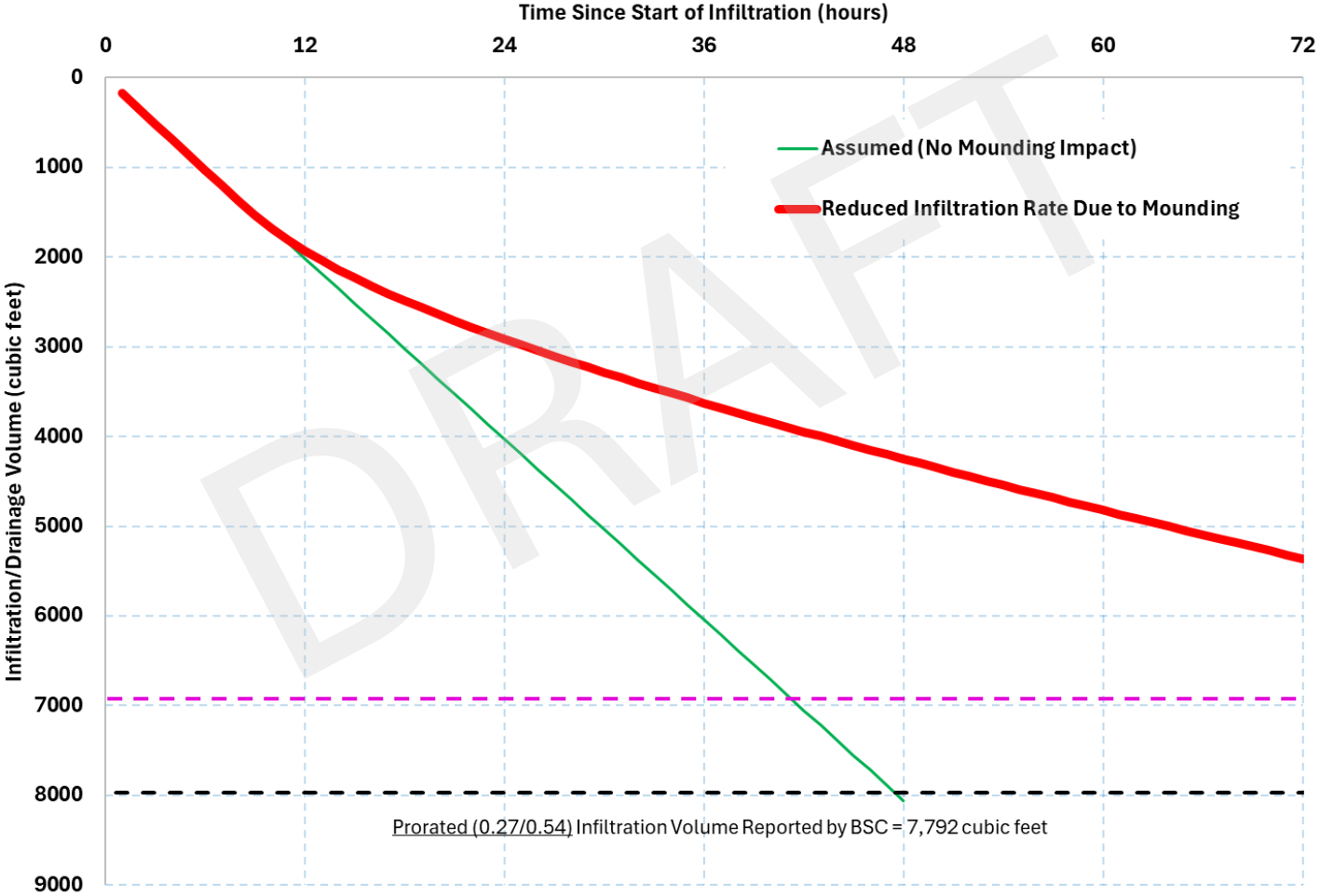
Numerical Example – System 7



Numerical Example – System 2 (Townhomes)



Numerical Example – System 1



2-Year, 24-Hour Storm
Prorated (0.27/0.54) Infiltration Volume
Reported by BSC = 6,946 cubic feet

From: [Michael Mobile](#)
To: [David Morgan](#); [ConComm](#); [Chuck Tirone](#); [Susan Chapnick](#)
Cc: [Chris Leich](#); [Scott horsley](#)
Subject: RE: Thorndike Place - Comment Letters on GZA Review
Date: Wednesday, February 5, 2025 12:39:53 PM
Attachments: [image001.png](#)
[image002.png](#)
[MMA Numerical Example Slides 2-6-25.pdf](#)

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Good Afternoon David and Commission Members,

I have attached a supplement to my latest comment letter, dated February 3, 2025. The slides, which I hope to present during tomorrow night's meeting, summarize a numerical modeling (i.e., MODFLOW) example that further supports the points raised in my latest letter and prior letters.

Consistent with industry-standard practice, I am sharing the electronic model files to facilitate reviews of the inputs and results. A directory containing a ZIP archive and a README, which must be reviewed prior to extracting files from the archive, is accessible via the following link: <https://tinyurl.com/wnmjhuc5>

Please acknowledge this email and the attached materials have been received.

Much appreciated,

Mike

Michael Mobile, Ph.D., CGWP
McDonald Morrissey Associates, LLC
46 S. Main Street, Suite 3, Concord, NH 03301 (**NEW ADDRESS**)
MikeMobile@McDonaldMorrissey.com
Office: 603-228-2280
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this transmission, including any attachments, without reading or saving in any manner. Thank you.

From: Michael Mobile

Sent: Monday, February 3, 2025 4:10 PM

To: David Morgan <dmorgan@town.arlington.ma.us>; ConComm
<ConComm@town.arlington.ma.us>; Chuck Tirone <ctirone@ci.reading.ma.us>;
s.chapnick@comcast.net

Cc: Chris Leich <cmleich@comcast.net>; Scott horsley <scotthorsley208@gmail.com>

Subject: Thorndike Place - Comment Letters on GZA Review

Good Afternoon David and Commission Members,

I have attached two comment letters that pertain to the proposed Thorndike Place project.
Please acknowledge they have been received.

Thank you,

Mike

Michael Mobile, Ph.D., CGWP

McDonald Morrissey Associates, LLC

46 S. Main Street, Suite 3, Concord, NH 03301 (**NEW ADDRESS**)

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GROUND WATER HYDROLOGISTS



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