

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Hingham
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Municipality

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:
Mike and Jilian
First Name
16 Kress Farm Road
Address
Hingham
City/Town
781-424-7357 & 781-424-7401
Phone Number
Bennis and Ayer
Last Name
MA
State
02043
Zip Code
mbennis5@icloud.com & jilianayer@yahoo.com
Email Address
2. Property Owner (if different from Applicant):

First Name
Last Name

Address

City/Town
State
Zip Code

Phone Number
Email Address (if known)
3. Representative (if any)
Colin
First Name
McSweeney Associates
Company Name
745 Winter Street
Address
Hanson
City/Town
781-570-9381
Phone Number
McSweeney
Last Name
MA
State
02341
Zip Code
colin@mcsweeneyinc.com
Email Address (if known)

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):
16 Kress Farm Road
Street Address
42.23196
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)
82
Assessors' Map Number
Hingham
City/Town
-70.86880
Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
77
Assessors' Lot/Parcel Number
- b. Area Description (use additional paper, if necessary):
Pre-exsting lot with a 4 Bedroom Dwelling
- c. Plan and/or Map Reference(s): (use additional paper if necessary)
Proposed Septic System, 16 Kress Farm Road, Hingham, Massachusetts
Title
07/20/2026
Date

Title
Date

[How to find Latitude and Longitude](#)

[and how to convert to decimal degrees](#)



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Hingham

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

The proposed system consists of a 1,500-gallon precast concrete septic tank, a precast concrete distribution box, and a GeoMat Leaching System soil absorption system. Note that the GeoMat Leaching system under its remedial use permit is considered an alternative SAS with treatment. Along with this an erosion control is being installed on the north side of the driveway as well as east of the proposed work.

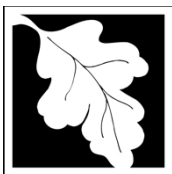
- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

Outside 50' Buffer with a septic system upgrade

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

- b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Hingham

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

C. Determinations

1. I request the Hingham make the following determination(s). Check any that apply:
Conservation Commission

- ☒ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
- ☒ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- ☒ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Hingham

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant

Date

Signature of Representative (if any)

Date

WPA Form 1- Request for Determination of Applicability Hingham

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

C. Determinations

1. I request the Hingham Conservation Commission make the following determination(s). Check any that apply:

- ☒ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
- ☒ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- ☒ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance or bylaw** of:

Hingham

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.


Signature of Applicant

5/11/20
Date


Signature of Representative (if any)

08/12/16
Date

16 Kress Farm Road

Site Details:

The site is located at 16 Kress Farm Road, Hingham, Massachusetts (Hingham Assessors Map 82, Lot 77).

A bordering vegetated wetland (BVW), shown on Hingham GIS as shallow Marsh and Meadow or Fen, is located along the north to west portion of the lot. The BVW boundary was field-delineated by Colin McSweeney in July of 2026 and is shown on the accompanying site plan by wetland flags A1-A8. Another resource area across the street was also identified, since it was off property it was not delineated but located with survey equipment.

The wetland was delineated under the methodology established under the Massachusetts Department of Environmental Protection regulations found at 310 CMR 10.55 pertaining to the delineation of Bordering Vegetated Wetlands. The wetland edge is defined by a vegetative transition dominated by Common Reed (*Phragmites australis*, FACW) and water staining on the wetland side of the boundary, transitioning to Canada Goldenrod (*Solidago canadensis*, FACU) on the upland side that turns into yard.

Project Description:

The proposed project consists of installing a new SAS to serve a proposed four-bedroom dwelling, as designed by McSweeney Associates, Inc. (plan set entitled “Proposed Septic System, 16 Kress Farm Road, Hingham, Massachusetts,” dated 7/20/2026):

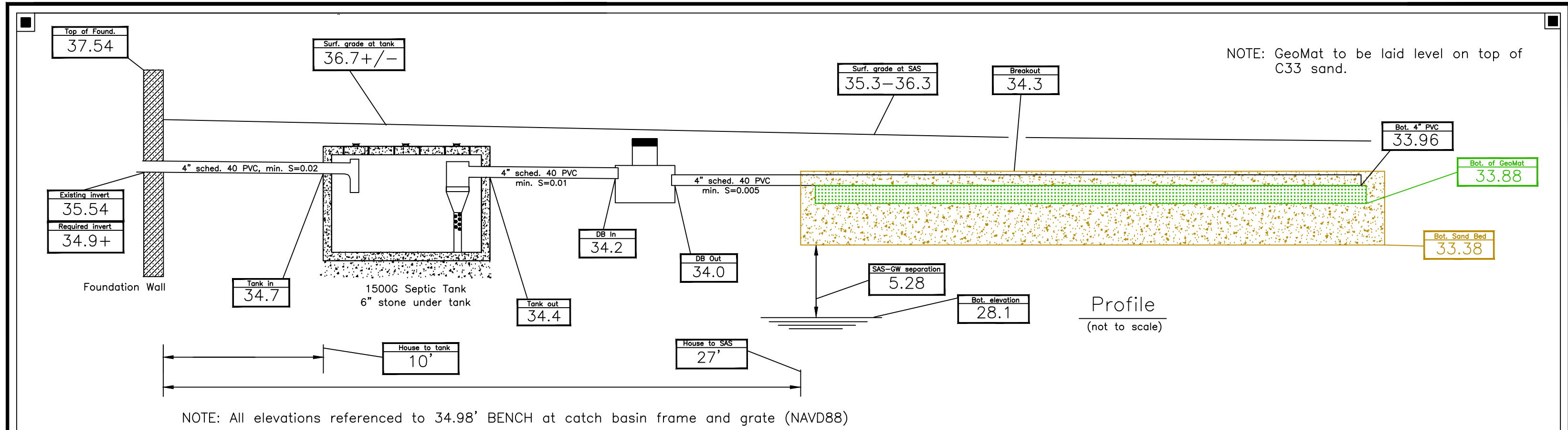
Septic System Replacement:

Existing System: The existing system serving the property is to be abandoned and removed from service in accordance with Title 5 (310 CMR 15.354) and the Hingham Board of Health’s supplementary regulations.

Proposed Work: The proposed system consists of a 1,500-gallon precast concrete septic tank, a precast concrete distribution box, and a GeoMat Leaching System soil absorption system. Note that the GeoMat Leaching system under its remedial use permit is considered an alternative SAS with treatment. Along with this an erosion control is being installed on the north side of the driveway as well as east of the proposed work.

Buffer Zone / Resource Area Analysis:

The nearest component of the proposed soil absorption system is sited 83 feet from the edge of the BVW – within the 100-foot Buffer Zone, but outside the 50-foot buffer shown on the plan. No work will encroach the 50-foot Buffer zone. The system was sited to maximize the offset from the wetland boundary since no area of the lot is outside the 100’ Buffer. Along with replacing an old failing system with a newer more modern SAS in the same area as the existing.

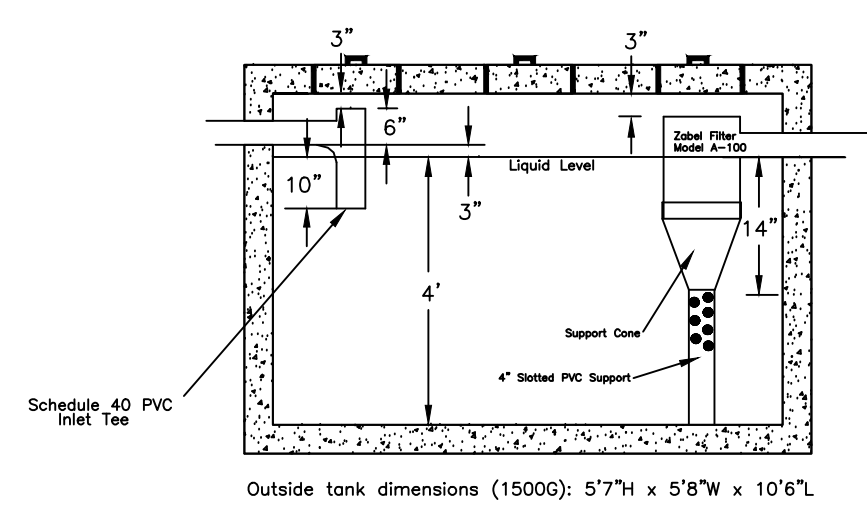


Soil Logs

Elevation (Feet)	Observation Hole #1				
	Perk Rate = <2 mpi @ 42"-60"	Depth (inches)	Soil Horizon	Soil Texture	Soil Color
35.1		0-20	Fill		
33.4		20-30	A	Sandy Loam	10 YR 3/3
32.6		30-42	B	Sandy Loam	10 YR 4/6
31.6		42-90	C	Coarse Sand	2.5 Y 5/3
28.1					
27.6					

NOTE: A second deep observation hole must be excavated at time of system installation

Tank Detail



Notes:

- On 5/5/2026 a soil test was made as shown here, by Terence McSweeney, a Massachusetts Department of Environmental Protection (DEP) approved Soils Evaluator, with B. Nee observing for the Board of Health. The log of this test is as follows, with location as OH-1 on this plan.
- All stone to be washed free of iron, fines, and dust. All "structures" to be precast concrete. All pipes to be P.V.C. Schedule 40, laid true to line and grade. All "structures" under pavement to be H-20 loading with cast iron covers and frames, set to grade, on all manholes.
- The existing SAS is to be abandoned and disposed of to the satisfaction of the health authority.
- It is the responsibility of the home owner to advise the site engineer of the location of all house plumbing prior to construction of the system.
- No part of the proposed system shall be buried greater than 3' below the surface of the ground.
- All work to conform to these plans, Title 5 of the Environmental Code (310 CMR 15.00 et. seq.) and supplementary regulations of the Hingham Board of Health.
- House plumbing to be set to the grades specified on this plan, as necessary, with a pipe slope minimum of 0.01.
- Geomat Leaching System to be placed on 6" bed of ASTM C-33 sand. These materials must meet the following sieve specifications:
 - 3/8" sieve 100% passing
 - #4 sieve 95 - 100% passing
 - #8 sieve 85 - 100% passing
 - #16 sieve 50 - 85% passing
 - #30 sieve 25 - 60% passing
 - #50 sieve 10-30% passing
 - #100 sieve 2-10% passing
- Results of sieve analysis submitted to Board of Health for approval prior to installation.
- Property line information as depicted on this plan is to be used for Title V purposes only.

Calculations:

- 9 rooms total (4 bedrooms), no disposal
- Est. Day Flow (EDF) = # B.R. x 110 G/Day
EDF = 440 Gallons per day
- Perk rate = <2 min/inch, Class I soil (Sand in OH-1, C horizon)
Geomat loading rate with 6" ASTM C33 sand under, Class I soil, <2 m.p.i. perk rate = 1.50 G/D/SF
440 X 2 = 880 Gallons - 1,500 Gallon (minimum allowable)
- Septic Tank - 2 X EDF with 1,500 G minimum
440 X 2 = 880 Gallons - 1,500 Gallon (minimum allowable)
- Soil Absorption System (SAS)
Geomat size required = EDF/Loading rate
(440 G)/(1.50 G/s.f.) = 293 s.f.
Geomat Leaching System 3900 (1"Dx39"W) = 3.42 s.f./l.f.
293 s.f./3.42 s.f./l.f. = 86 l.f. (required)
use 4 rows, each 1'd x 39'w x 22'l (88 l.f. provided)
Minimum sand bed - 440 G/D, with perk rate of <2 m.p.i. Class I soils = 400 s.f. (required)
Use sand bed 16'9'w x 24'l (402 s.f. provided)

Proposed:

- 1,500 gallon septic tank (monolithic)
- Distribution box
- 402 s.f. sand bed (ASTM C-33 sand) - 16'9'w x 24'l x 6'd
88 l.f. Geomat Leaching System 3900, four (4) rows each 1'd x 39'w x 22'l

I certify that in the fall of 1997 I was approved by the Mass. Department of Environmental Protection as a Soils Evaluator and that the soils analysis contained herein was performed by me consistent with the training, expertise, and experience described in 310 CMR 15.018(2).

Terence McSweeney Date Terence McSweeney, R.S.

Locus Map

Lot Data:
Deed: 30356/273 - 4/15/2005
Hingham Assessors Map 82/77 - 61,113 s.f.
Reference Plan:
BSC Group, Inc., 4/27/1990
B: 36 P: 80, Plymouth County RoD

Revisions:

McSweeney Associates, Inc.

McS

Environmental Engineering

Proposed Septic System
16 Kress Farm Road
Hingham, Massachusetts
(Page 1 of 2)

745 Winter Street, Hanson, MA 02341

Thomas F. McSweeney 1894-1977
Brian McSweeney 1929-2016
Terence K. McSweeney 781-826-4571
Colin T. McSweeney 781-570-9381

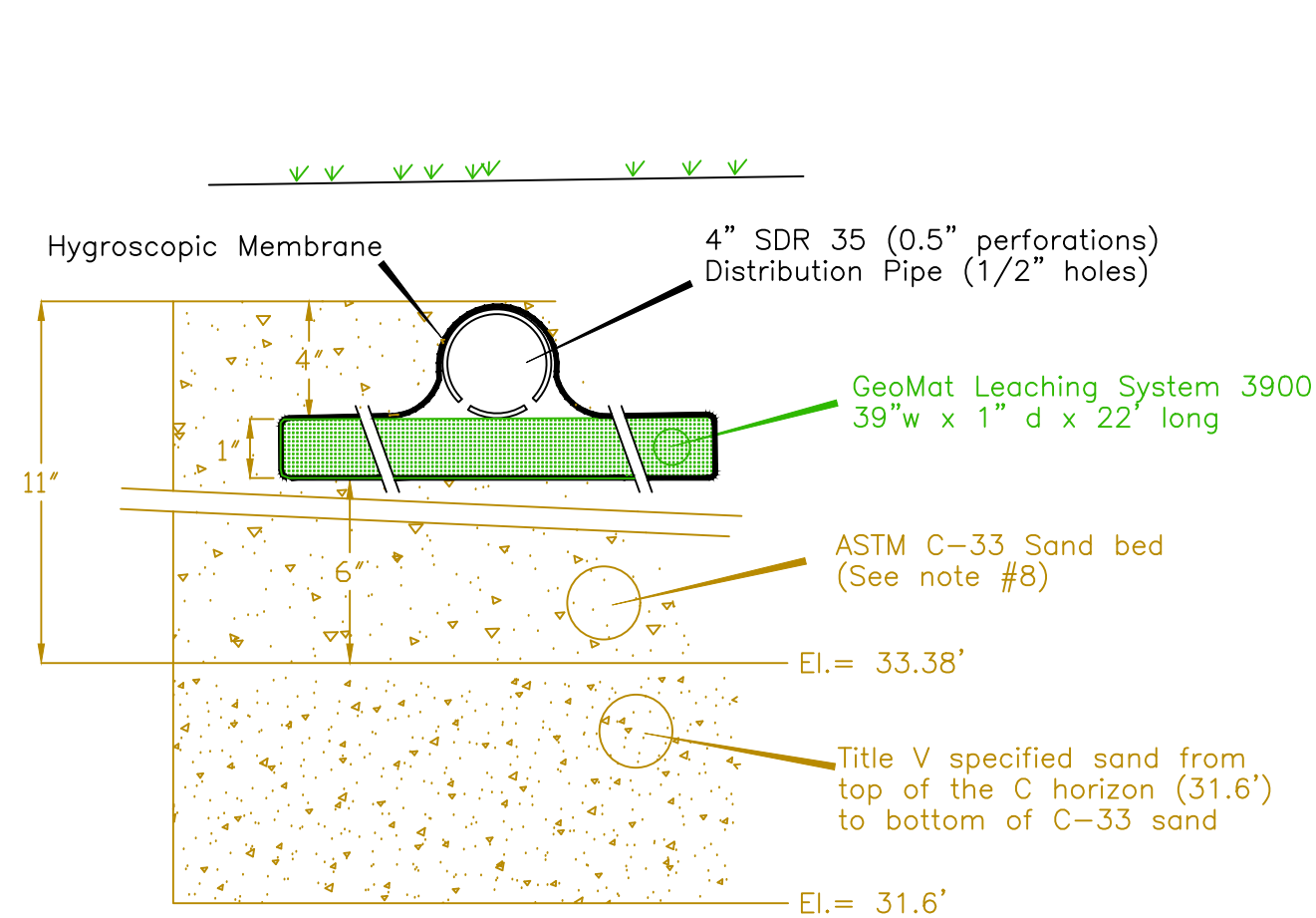
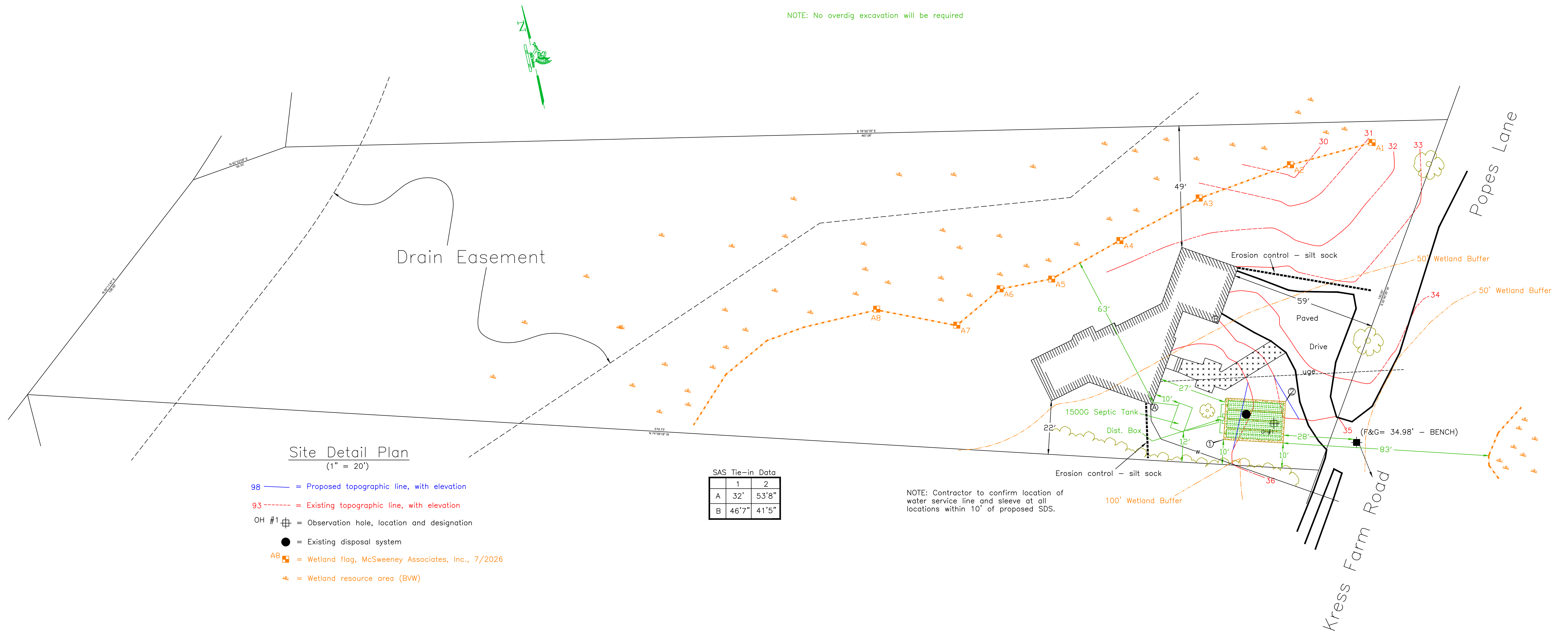
Job Reference:
Kress Farm 16

Scale: As Noted

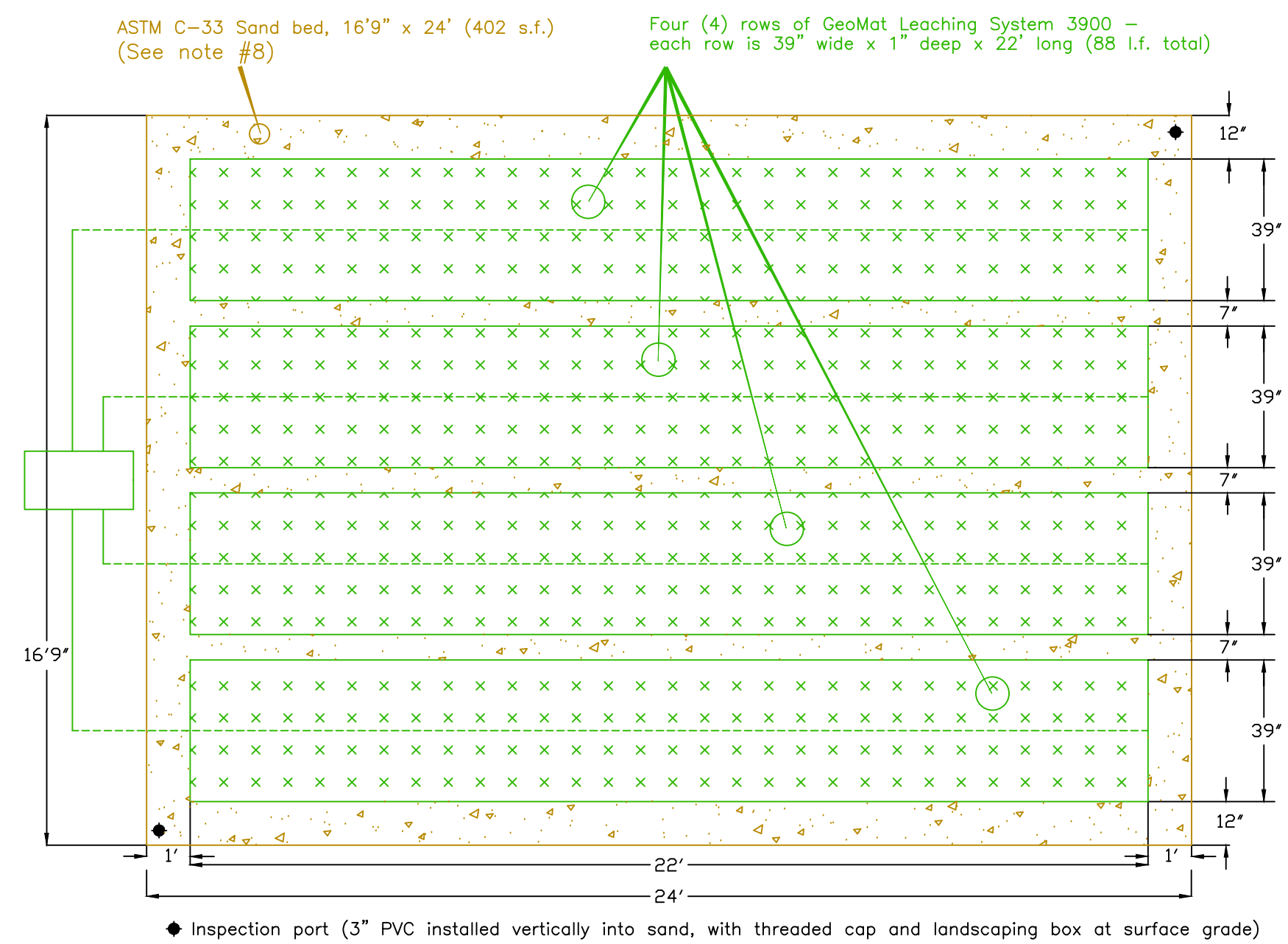
Date: 7/20/2026

Drawn By: T McS

Checked By: C McS

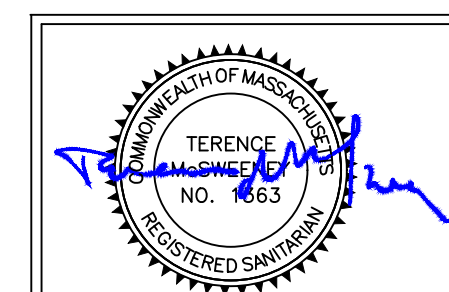


SAS Detail
(not to scale)



VARIANCES/DIVERGENCES REQUESTED:

- Town of Hingham, Section VII.E., SDS to wetland setback
Proposed: 63' Required: 100'
- Town of Hingham, Section VII.F.7), SDS to drain lower than breakout
Proposed: 28' Required: 50'
- Town of Hingham, Section VII.J., Thickness of naturally occurring soils under SAS
Proposed: 3.5' Required: 6.0'
- Town of Hingham, Section VII.M., Construction in fill
thickness of naturally occurring, unsaturated, soils under SAS
Proposed: 3.5' Required: 6.0'



McSweeney Associates, Inc.
McS
Environmental Engineering

Revisions:

Proposed Septic System
16 Kress Farm Road
Hingham, Massachusetts
(Page 2 of 2)

745 Winter Street, Hanson, MA 02341
Thomas F. McSweeney 1898-1977
Brian McSweeney 1923-2015
Terence K. McSweeney 781-826-4571
Colin T. McSweeney 781-570-9381

Job Reference:
Kress Farm 16
Scale: As Noted
Date: 7/20/2026
Drawn By: T McS
Checked By: C McS

Receipt



Summary/Receipt

[print receipt](#) [Exit](#)

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My eDEP" to see a list of your transactions.

DEP Transaction ID: 2042386
Date and Time Submitted: 8/12/2026 1:11:22 PM
Other Email :

Form Name: Submittal Platform for WPA Form 1 - RDA

Project Location
City/Town Name: HINGHAM
Location: 16 KRESS FARM ROAD
Project Description: UPGRADED TITLE V SYSTEM

Applicant Information
Name: MIKE AND JILIAN BENNIS AND AYER
Company
Address: 16 KRESS FARM ROAD, HINGHAM, MA, 02043

Ancillary Document Uploaded/Mailed

Narrative
Plan P2
Plan p1
WPA Form
check copies
sign RDA

[My eDEP](#)



HINGHAM WETLAND REGULATIONS

APPENDIX C

Policy on Receipt of Information

(Revised March 4, 2024)

1. New applications/filings must be submitted to the Conservation office (by certified mail or hand delivery) two weeks prior to the meeting date, on Monday by noon, to facilitate the placement of the legal ad and to allow timely review by the Conservation Officer (if the office is closed on Monday due to a holiday, then the information is due on the preceding Friday by noon). Conservation staff will review the application for administrative completeness. Upon receipt of a complete application, a hearing or meeting will be scheduled in accordance with the 310 CMR 10.05(5) and the Wetland Regulations, Section 7.6.
2. If deemed necessary, based on the Commission's meeting schedule, Conservation staff may request the applicant *voluntarily* waive the 21 day statutory deadline for holding a public hearing or issuing a Determination of Applicability.
3. Requests for additional information may be made by the Commission members or their agent to clarify the scope of the project or determine compliance with the 310 CMR 10.00 and/or the Hingham Wetland Regulations. Such requests, if not made at the public hearing, will be communicated to the applicant or their representative as promptly as possible.
4. Additional information requested by the Commission or their agent in accordance with No.3, must be submitted to the Conservation office a minimum of 7 days prior to the meeting date, on Monday by noon. If the office is closed on Monday due to a holiday, the information is due on the preceding Friday by noon. *Revisions submitted after the established deadline may not receive a review, thereby resulting in a continuance to the next available meeting.*
5. The Commission may engage the peer review services of an outside consultant as provided by M.G.L. Ch. 44, § 53G, to be paid for by the applicant, for specific expert review deemed necessary to come to a final decision on a submitted application. Specific consultant services may include but are not limited to, review of a Notice of Intent, Wetland Resource Area Delineation, Stormwater/Drainage Reports, etc. The consultant shall be chosen by the Conservation Commission by vote at the public hearing, and report only to the Commission or its agent. *Requested additional information/revisions by the peer reviewer is required a minimum of two weeks prior to the hearing date.*
5. All supplemental documentation and revised plans must include a revision date and must be date stamped by the Conservation office upon receipt. If this information is not present, the documents may be considered incomplete and may not receive a timely review, thereby resulting in a continuance to the next available meeting.
6. Please note that all supplemental documentation and revised plans submitted to the Commission for a pending application, subject to the MA Wetlands Protection Act, must also be sent to the DEP Southeast Regional Office, 20 Riverside Dr., Lakeville, MA 02347

The Hingham Conservation Commission is committed to a thorough and timely review of each application and an efficient hearing process. Cooperation with this policy is appreciated to facilitate these efforts. Exceptions to this policy may be made by the Conservation staff if deemed warranted. Please sign and include with your filing. Thank you.


Applicant or Applicant's Representative Signature

08/11/26
Date



TOWN OF HINGHAM
CONSERVATION COMMISSION

PERMISSION FOR SITE ACCESS

Project location: 16 Kross Farm Road

I hereby grant permission to the individual members of the Hingham Conservation Commission and its staff to enter upon the property at reasonable times for the purpose of gathering information, measurements, photographs, observations, and other information necessary to evaluate the application and compliance with any subsequently issued Determination of Applicability or Order of Conditions.

Michael D Bennis / Jillian G Bennis
Owner Signature
Michael D Bennis / JILLIAN G. BENNIS
Print

8/11/26
Date