

**Bureau of Environmental Health**

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 12/30/19 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 567258

APPROVAL DATE: 01/31/2020 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 14041 Howard Road, Dayton

SUBDIVISION: Harman Subdivision LOT: 3 TAX ID: \_\_\_\_\_

CONTRACTOR: Marc Herath EMAIL: \_\_\_\_\_

CONTRACTOR ADDRESS: 2551 Florence Road PHONE: 301-580-5977

PROPERTY OWNER: Devin Keeny c/o Chelsea Ferruzzi EMAIL: \_\_\_\_\_

OWNER ADDRESS: 14043 Howard Road, Dayton PHONE: 443-677-4886

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Mayer Bros, Inc

PUMP MODEL: \_\_\_\_\_ PUMP SIZE \_\_\_\_\_ PUMP TANK CAPACITY: \_\_\_\_\_

DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: \_\_\_\_\_ APPLICATION RATE: \_\_\_\_\_

|           |   |   |
|-----------|---|---|
| TRENCHES: | LINEAR FEET REQUIRED: <u>112 LF</u>   | INLET DEPTH: <u>2 FT</u>                    |
|           | TRENCH WIDTH: <u>3 FT</u>   | MAXIMUM BOTTOM DEPTH: <u>8 FT</u>           |
|           | MINIMUM SPACE BETWEEN TRENCHES: <u>13 FT</u>  | EFFECTIVE AREA BEGINNING DEPTH: <u>3 FT</u> |
| LOCATION: | PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. |   |
| NOTES:    | Install 3 trenches @ 37.3 FT  |   |

ISSUED BY: Hank Oswald ISSUE DATE: 12/30/2019 EXPIRATION DATE: 12/30/2020

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
  - ELECTRICAL PERMIT ISSUED E N/A
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

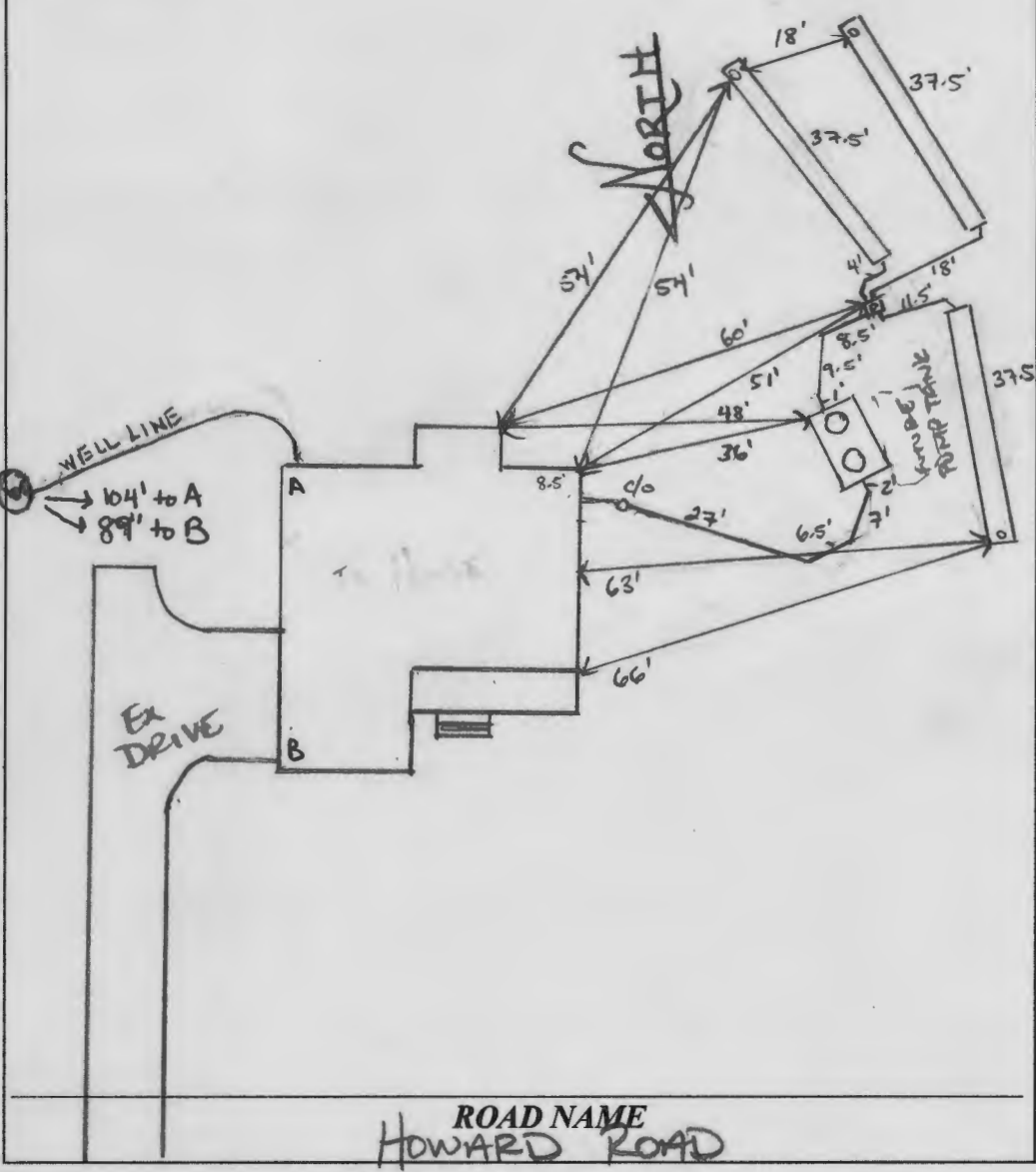
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

279189279189

NOT TO SCALE



| TRENCH/DRAINFIELD DATA  |          |        |
|-------------------------|----------|--------|
| WIDTH                   | INLET    | BOTTOM |
| 3'                      | 2'       | 8'     |
| NUMBER OF TRENCHES      | 3        |        |
| TOTAL LENGTH            | 112.5'   |        |
| ABSORPTION AREA         | 337.5 SF |        |
| DISTRIBUTION BOX LEVEL  | SPEED    |        |
| DISTRIBUTION BOX BAFFLE | YES      |        |
| DISTRIBUTION BOX PORT   | YES      |        |

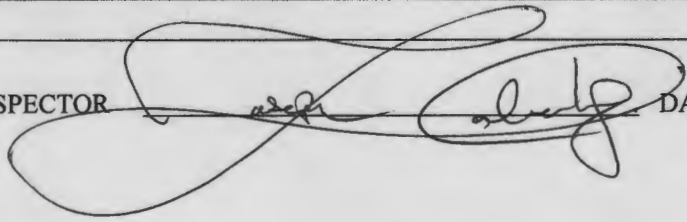
PRE-CONSTRUCTION:

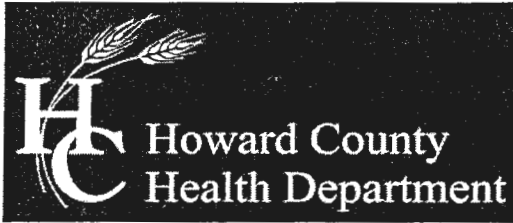
| SEPTIC TANK DATA       |            |
|------------------------|------------|
| SEPTIC TANK I LEVEL    |            |
| MANUFACTURER           | BABYLON    |
| CAPACITY               | 2000 GAL   |
| SEAM LOC               | TOP        |
| TANK LID DEPTH         | 3'-2'      |
| BAFFLES                | YES        |
| BAFFLE FILTER          | NO         |
| MANHOLE LOC            | FRONT/BACK |
| 6" PORT LOC            |            |
| WATERTIGHT TEST        | -          |
| SLOTTED                | YES        |
| DATE ON LID            | 12/13/2019 |
| PUMP/SEPTIC TANK LEVEL |            |
| MANUFACTURER           |            |
| CAPACITY               | GAL        |
| SEAM LOC               |            |
| TANK LID DEPTH         |            |
| BAFFLES                |            |
| BAFFLE FILTER          |            |
| MANHOLE LOC            |            |
| 6" PORT LOC            |            |
| WATERTIGHT TEST        |            |
| SLOTTED                |            |
| DATE ON LID            |            |

PRE CON: 01/27/2020 MUST STAKE SDA. CALL FOR RE LAYOUT.  
 OK TO SET TANK. (P)  
 ↳ TANK WAS STAKED (P)

01/29/2020 SDA AND TRENCHES STAKED. OK TO START.  
 INSTALLATION:

01/29/2020 LOWER TRENCH AND UPPER LEFT DURING CONSTRUCTION.  
 (P) RAISE LOWER TRENCH TO PERMIT SPECS. (P) 01/30/2020  
 CONFIRMED TRENCH INV, TRENCH BOTTOM (@ 0.85 FEET), (P) TANK  
 SET. (P) D BOX BEING INSTALLED. REINSPECT BAFFLES AND  
 D BOX LEVEL (P) 01/31/2020 D BOX LEVELED WITH SPEED LEVELS. (P)

FINAL INSPECTOR  DATE OF APPROVAL 01/31/2020



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Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 14041 Howard Road

Subdivision: \_\_\_\_\_ Lot: 3

Initial system: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 8  
 1<sup>st</sup> Replacement: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 8  
 2<sup>nd</sup> Replacement: Application rate: 0.6 Effective area beginning depth: 3 Bottom maximum depth: 8

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

Find locate all holes Pl, & A thro E

Approved: Hank Oswald Date: 12-7-18



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Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 14041 Howard Road

Subdivision: Lot:

Initial system: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 8 P2-P5
1st Replacement: Application rate: 0.8 Effective area beginning depth: 3 Bottom maximum depth: 4 P6-P3-P
2nd Replacement: Application rate: Effective area beginning depth: Bottom maximum depth:

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
All trenches must be on contour
Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
Maximum trench length is 100'
Maximum pipe depth is 4'

Additional requirements:

- If you cannot fit 1st system in between holes P2 & P5, then LPD will be required for trenches w/ unequal sidewall credit
Field locate existing drywall on plan.

Approved: Hank Oswald Date: 12-7-18

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**Maura J. Rossman, M.D., Health Officer**

**MEMORANDUM**

**TO: Benchmark Engineering, Inc.**  
**8480 Baltimore national Pike, Suite 315**  
**Ellicott City, MD 21043**

**FROM: Hank Oswald, L.E.H.S.**  
**Well & Septic Program**

**RE: OSDS Plan**  
**14041 Howard Road**  
**Dayton, MD 21036**

**Date: July 25, 2019**

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The OSDS Plan for has been reviewed with the following comments:

- 1.) Show future pump tank on plan meeting 25-foot setback to DW-1.
- 2.) Field locate newly drilled well and add note on plan.

## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Thursday, July 25, 2019 2:38 PM  
**To:** John Carney (jcarney@bei-civilengineering.com)  
**Subject:** OSDS Plan\_14041 Howard Road  
**Attachments:** OSDS Memo to Benchmark\_7.2019.pdf

Hello John:

Attached, please find memo with comments to the OSDS Plan for 14041 Howard Road. Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

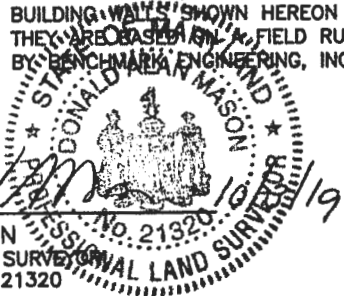
Hank Oswald  
Licensed Environmental Health Specialist  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
[hoswald@howardcountymd.gov](mailto:hoswald@howardcountymd.gov)

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**SURVEYOR'S CERTIFICATE**

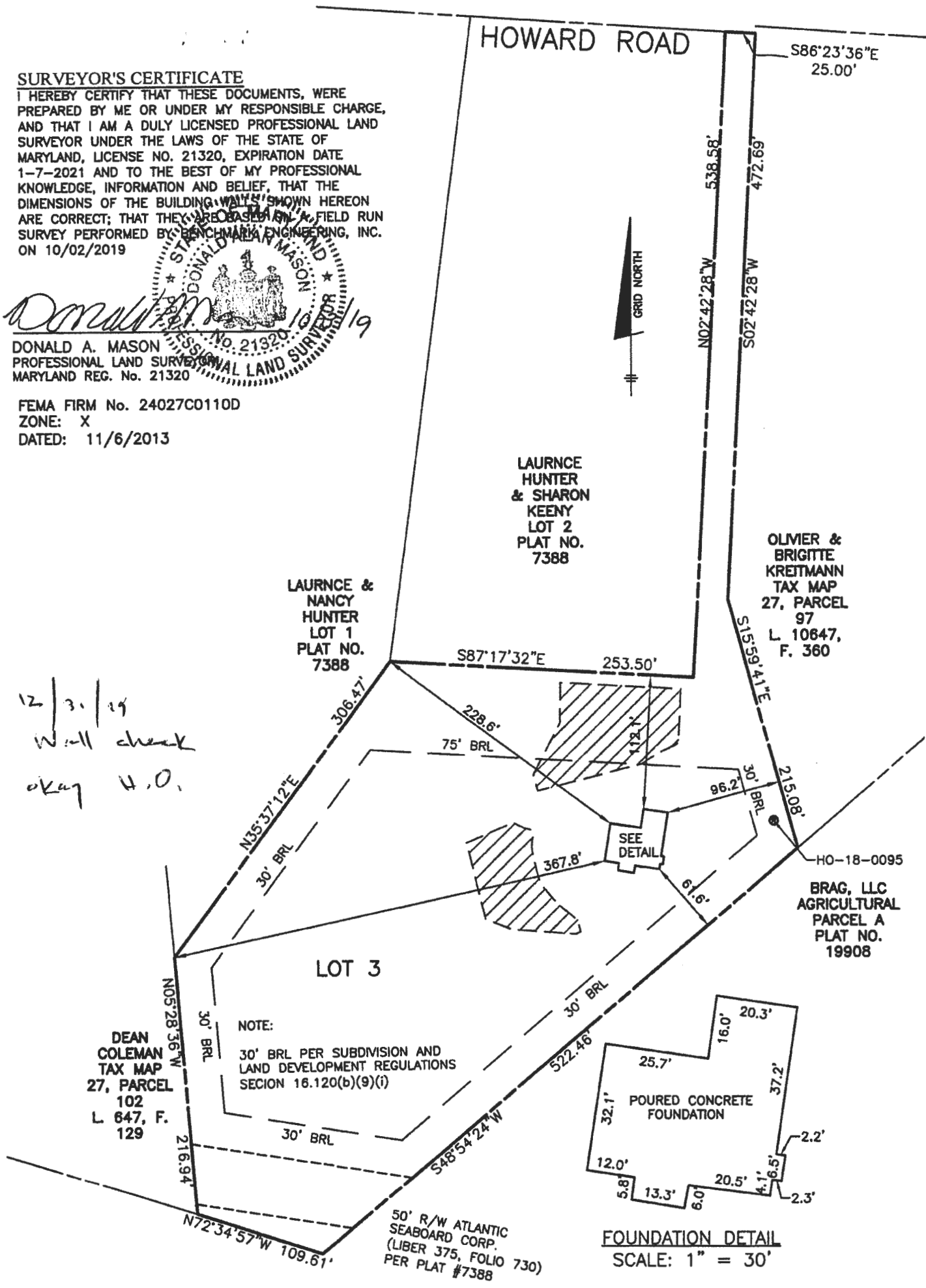
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2021 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 10/02/2019



DONALD A. MASON  
PROFESSIONAL LAND SURVEYOR  
MARYLAND REG. No. 21320

FEMA FIRM No. 24027C0110D  
ZONE: X  
DATED: 11/6/2013

12/31/19  
Wall check  
okay H.O.



TOP OF FOUNDATION WALL = 538.4'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

**WALL CHECK**

**HARMAN SUBDIVISION**  
**LOT 1, 2 AND 3**  
**PLAT No. 7388**  
**LOT No. 3**

14041 HOWARD ROAD  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 100' DATE: 10/02/2019

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-485-8105 ▲ (F) 410-485-8844  
WWW.BEI-CIVILENGINEERING.COM

FIELD OBS. BY  
COMP. BY  
DRAWN BY