

AALSETH RESIDENCE - 10/04/2018
3196 AALSETH LN - STOUGHTON, WI 53589
SITE PLAN - EROSION CONTROL AND PARTIAL UTILITY PLAN
A050

- THE CONSTRUCTION SEQUENCE:
1. Install 12' Silt Sock on North, West and East boundary lot lines on or before **October 15th**.
 - A. Existing asphalt driveway to act as the tracking pad for the project.
 2. Raze and dispose of existing cottage and all impervious surfaces on or before **November 1st**.
 3. Complete driveway subgrade & base course and rough grade lot by **November 10th**.
 4. Weather permitting, grade site for foundation on or before **November 15th**. Place temporary stockpiles in the areas shown on the site plans. Cover stockpiles with tarps as necessary. Transport excess soil offsite as necessary.
 5. Complete and back fill foundation by **November 30th**. Cover disturbed soil with straw mulch. Weather not permitting, leave foundation next spring.
 6. Stabilize entire lot with mulch no later than December 10th or earlier if foundation postponed to spring. Refresh/replace mulch throughout the project as necessary.
 7. Remove Silt Sock only after a good stand of grass has been established.

Maintenance of all erosion control measures are required throughout the construction process. Inspections shall be performed at least weekly and after all storm events. All necessary repairs shall be made immediately.

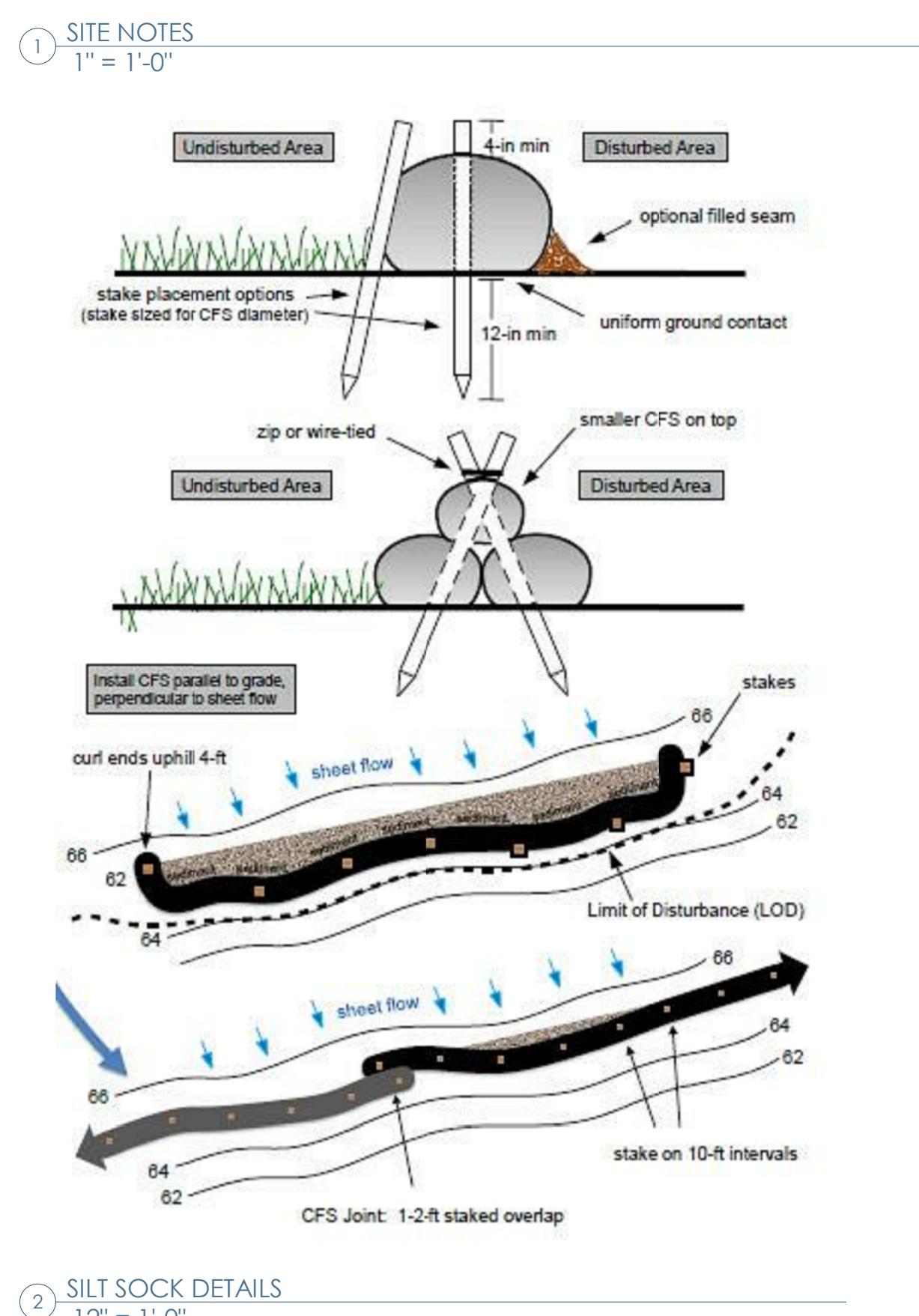
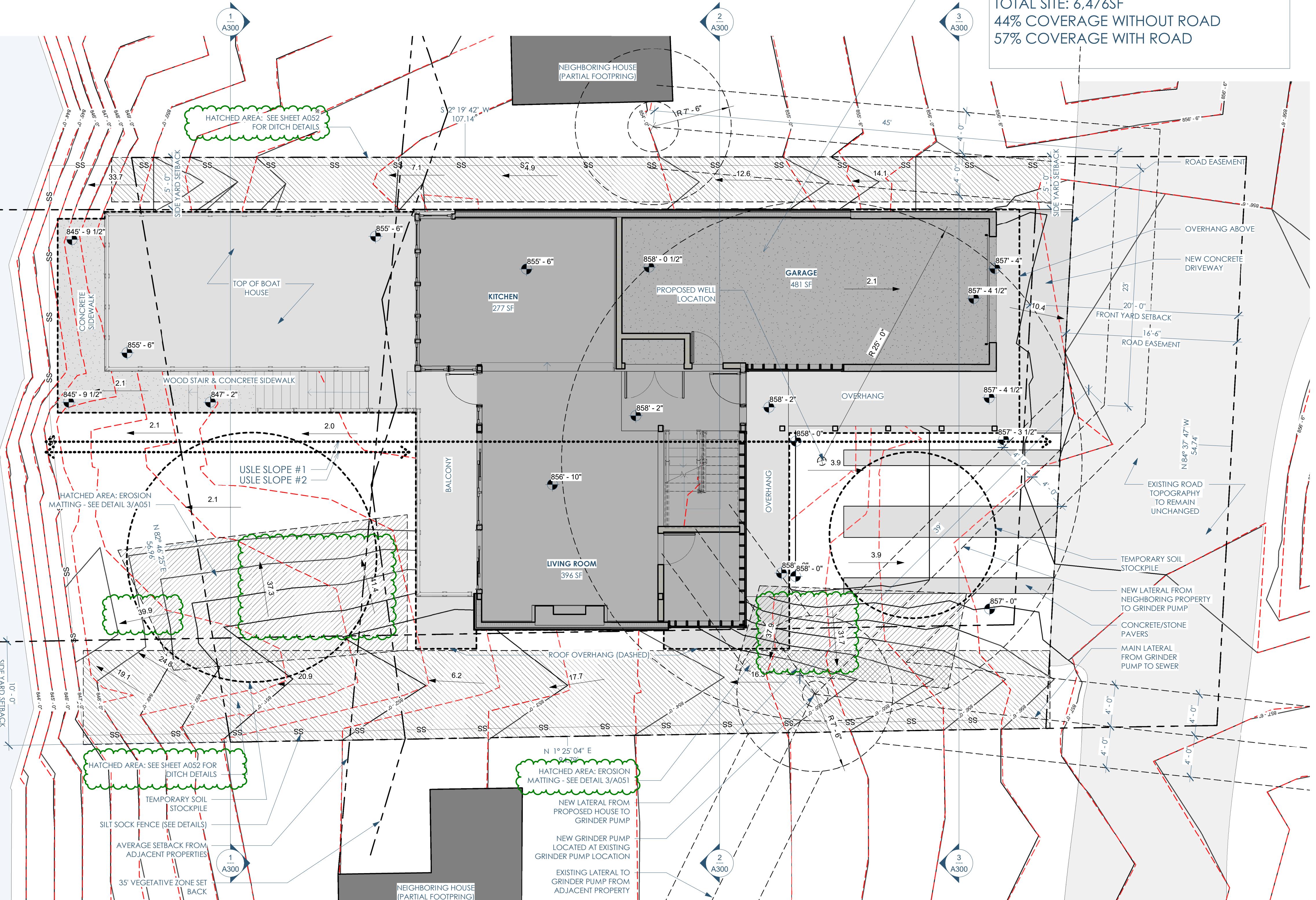
- Sediment will be removed from behind sediment fences and barriers before it reaches a depth that is equal to half the barrier's height. Breaks and gaps in sediment fences and barriers will be repaired immediately. Straw bales will be replaced at least every three months, or sooner if warranted by the bale's condition and state of decay.
- All sediment that moves off-site due to construction activity or weather events will be cleaned up before the end of the next workday.
- All installed erosion control measures will be maintained until the disturbed areas are completely stabilized.

RESTORATION NOTES:
All pervious disturbed areas shall receive a minimum of four (4) inches of topsoil, seed and mulch. All pervious disturbed areas shall receive fertilizer except native planting areas. Restoration will occur as soon after the disturbance as practical. Seed mixture 40 shall be used on all other disturbed areas. Mixtures shall be in accordance with section 630 of d.o.t. Specifications. An equal amount of annual ryegrass shall be added to the mix.

Seed mixtures shall be applied at the rate of four (4) pounds per 1,000 square feet. Fertilizer shall be applied at the rate of four (4) pounds per 1,000 square feet. Mulch shall consist of hay or straw applied at the rate of 2 tons per acre.

Fertilizer shall meet the minimum requirements that follow: nitrogen, not less than 16%; phosphoric acid, not less than 8%; potash, not less than 8%.

Disturbed slopes greater than 20% shall be restored within 30 days of disturbance.



1A) SITE PLAN - EROSION CONTROL AND PARTIAL UTILITY PLAN
3/16" = 1'-0"

0 4' 8' 12' N

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants

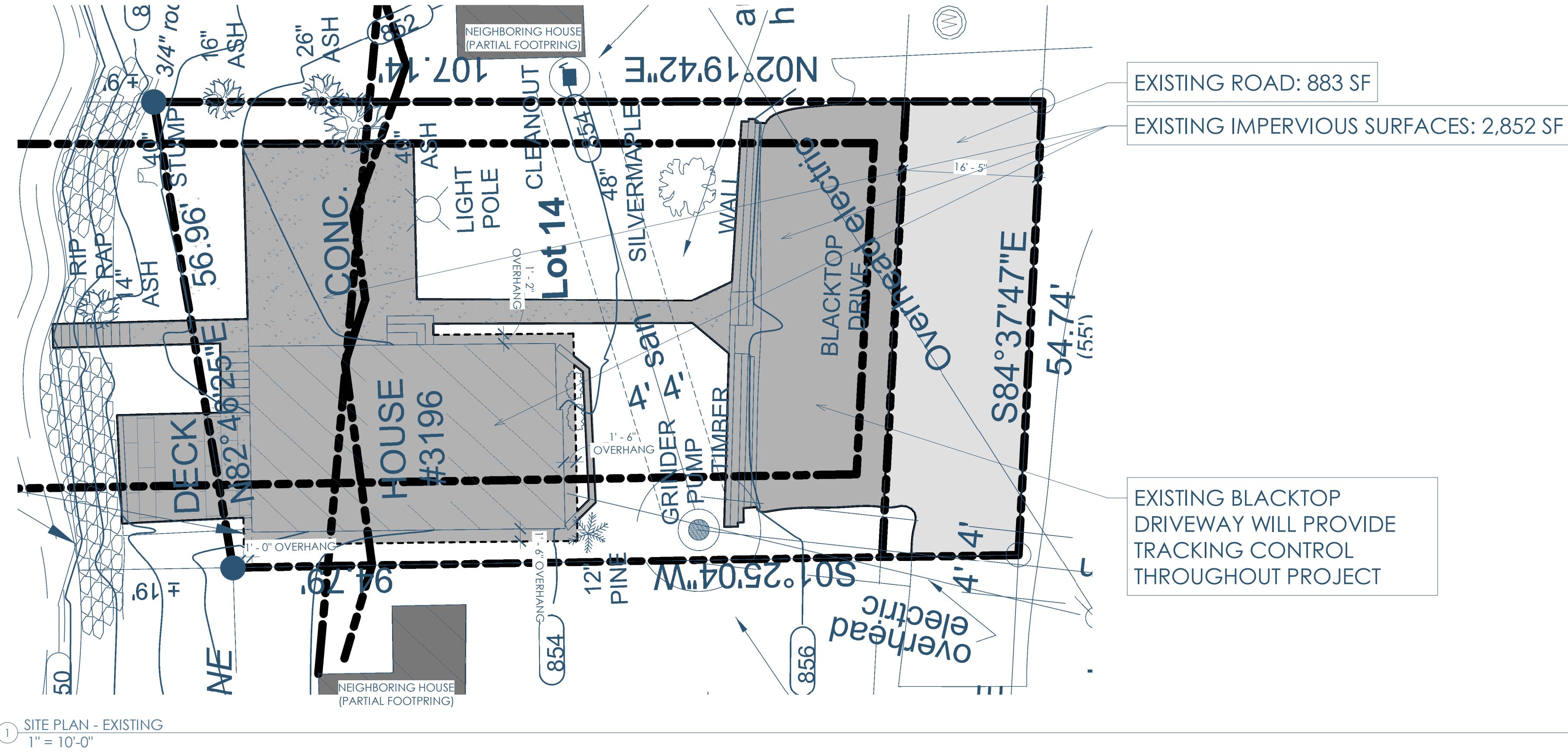
Civil Engineer: Quam Engineering, LLC
4604 Sigelkow Rd A
McFarland, WI 53558
rquam@quameengineering.com | 608-838-7750
quameengineering.com



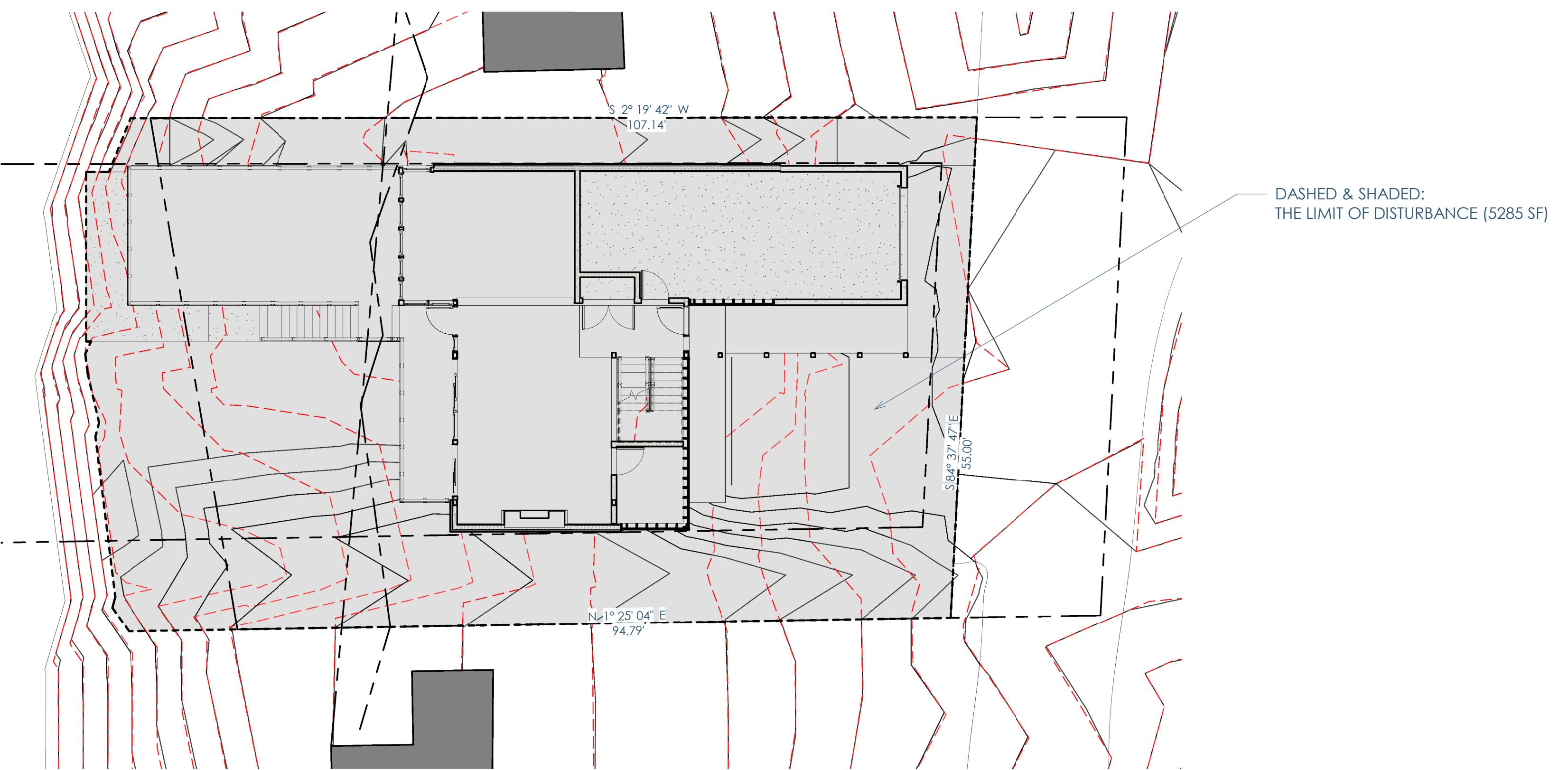
Architect: OpeningDesign
316 W Washington Ave | Suite 675
Madison, WI 53703
ryan@openingdesign.com | 773.425.6456
openingdesign.com

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SITE PLAN - EROSION CONTROL AND PARTIAL UTILITY PLAN

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1 SITE PLAN - EXISTING



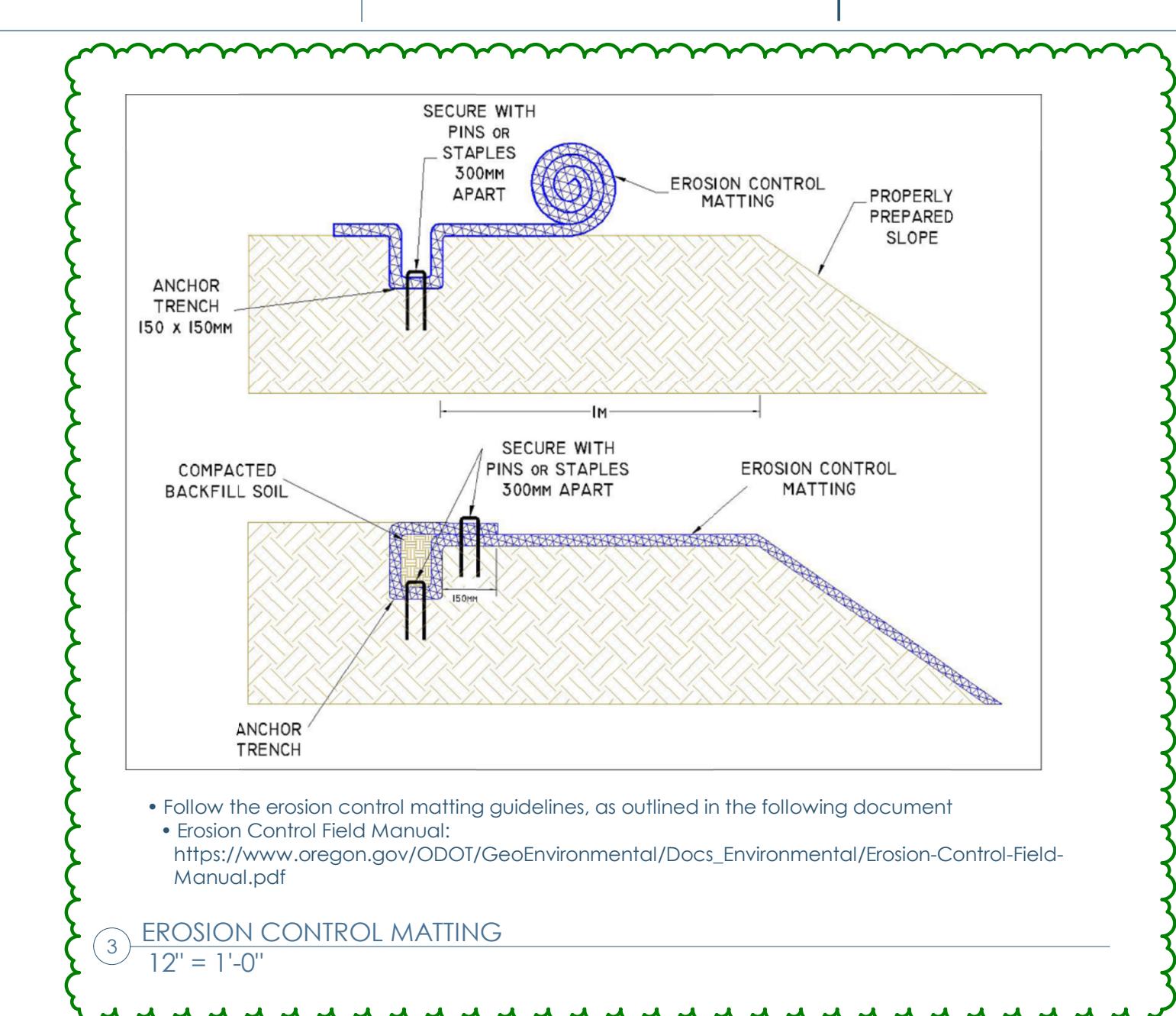
2 SITE PLAN - LIMIT OF DISTURBANCE
1" = 10'-0"

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants

A business card for Civil Engineer Quam Engineering, LLC. The card features a yellow diamond logo at the top left. The company name "Civil Engineer: Quam Engineering, LLC" is in bold black text. Below it is an address: "4604 Siggelkow Rd A, McFarland, WI 53558". Two email addresses are listed: "uam@quamengineering.com" and "quamengineering.com". A phone number "608-838-7750" is also provided. The card has a decorative border with a dashed pattern.

1

Architect: OpeningDesign
1816 W Washington Ave | Suite 675
Madison, WI 53703
 @openingdesign.com | 773.425.6456
openingdesign.com



- Follow the erosion control matting guidelines, as outlined in the following document
 - Erosion Control Field Manual:
https://www.oregon.gov/ODOT/GeoEnvironmental/Docs_Environmental/Erosion-Control-Field-Manual.pdf

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EXISTING SITE PLAN & LIMIT OF DISTURBANCE

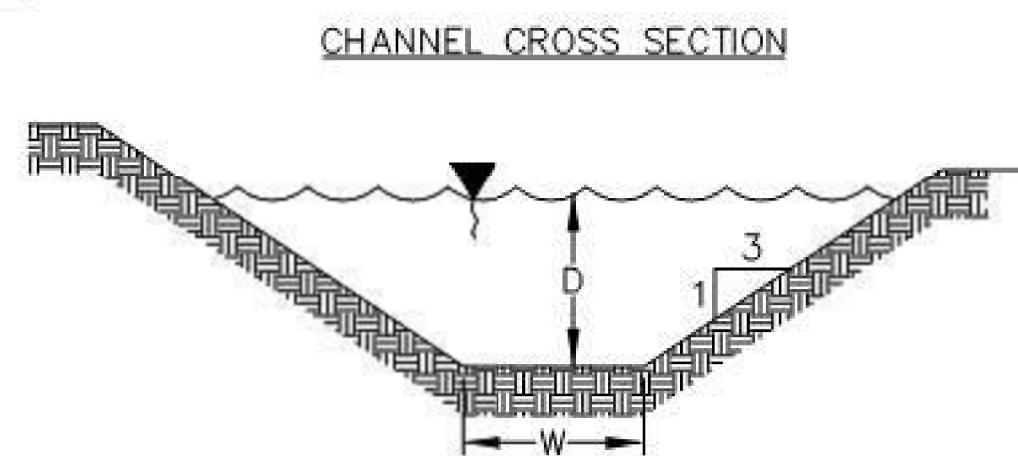
A051

**W.D.O.T. FACILITIES DEVELOPMENT MANUAL
EROSION MAT DESIGN**

Description:

Swale West.

Given:

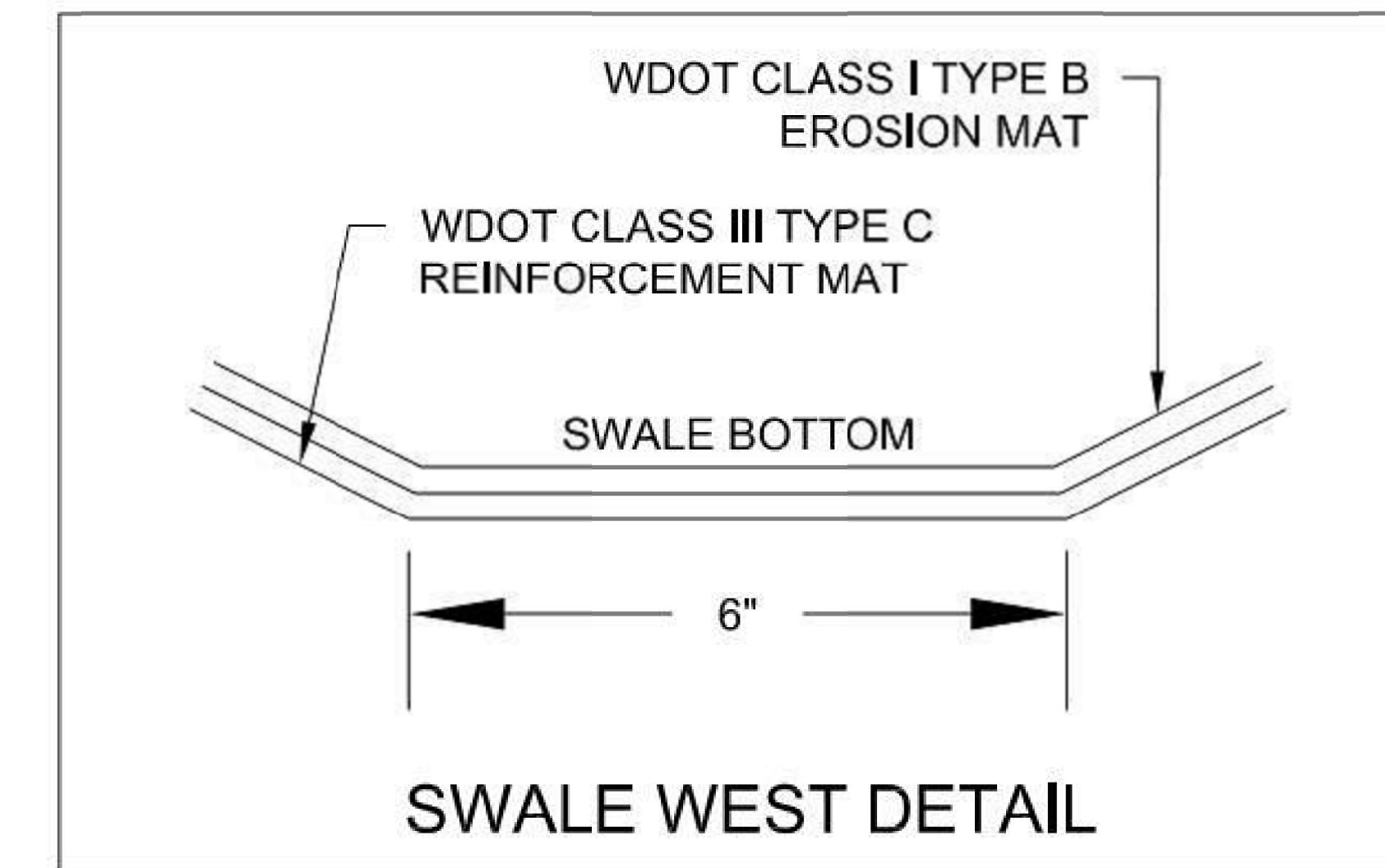


Width (W) = 0.5 feet
Depth (D) = 0.16 feet
Slope (s) = 0.223 ft/ft

Calculate maximum shear stress in the swale, τ_m :

$$\tau_m = \gamma ds = (62.4 \text{ lb}/\text{ft}^2)(0.16 \text{ ft})(0.223 \text{ ft}/\text{ft}) = 2.23 \text{ lb}/\text{ft}^2$$

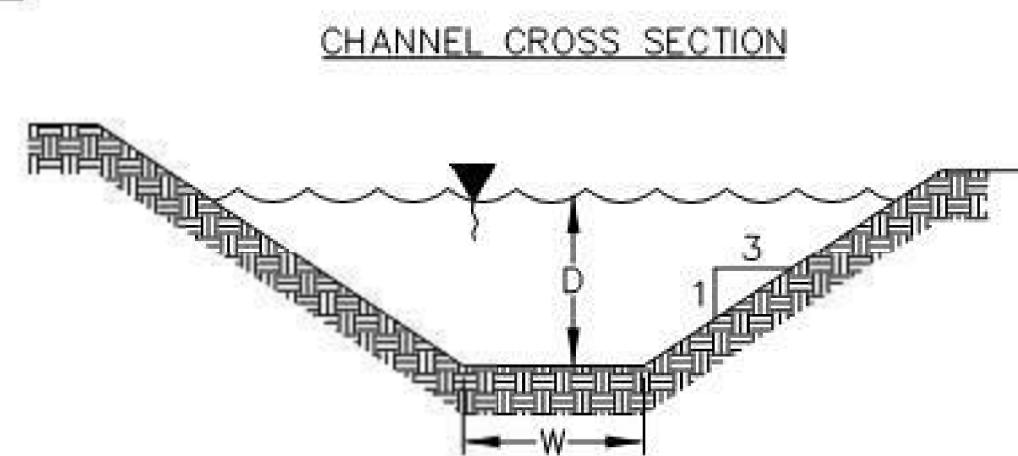
Use WDOT Class I Type B Erosion Mat over Class III Type C reinforcement. ($3.5 > 2.23 \text{ lb}/\text{ft}^2$)
(Per FDM 10-5 Attachment 35.1 Channel Erosion Matrix)



Description:

Swale East

Given:

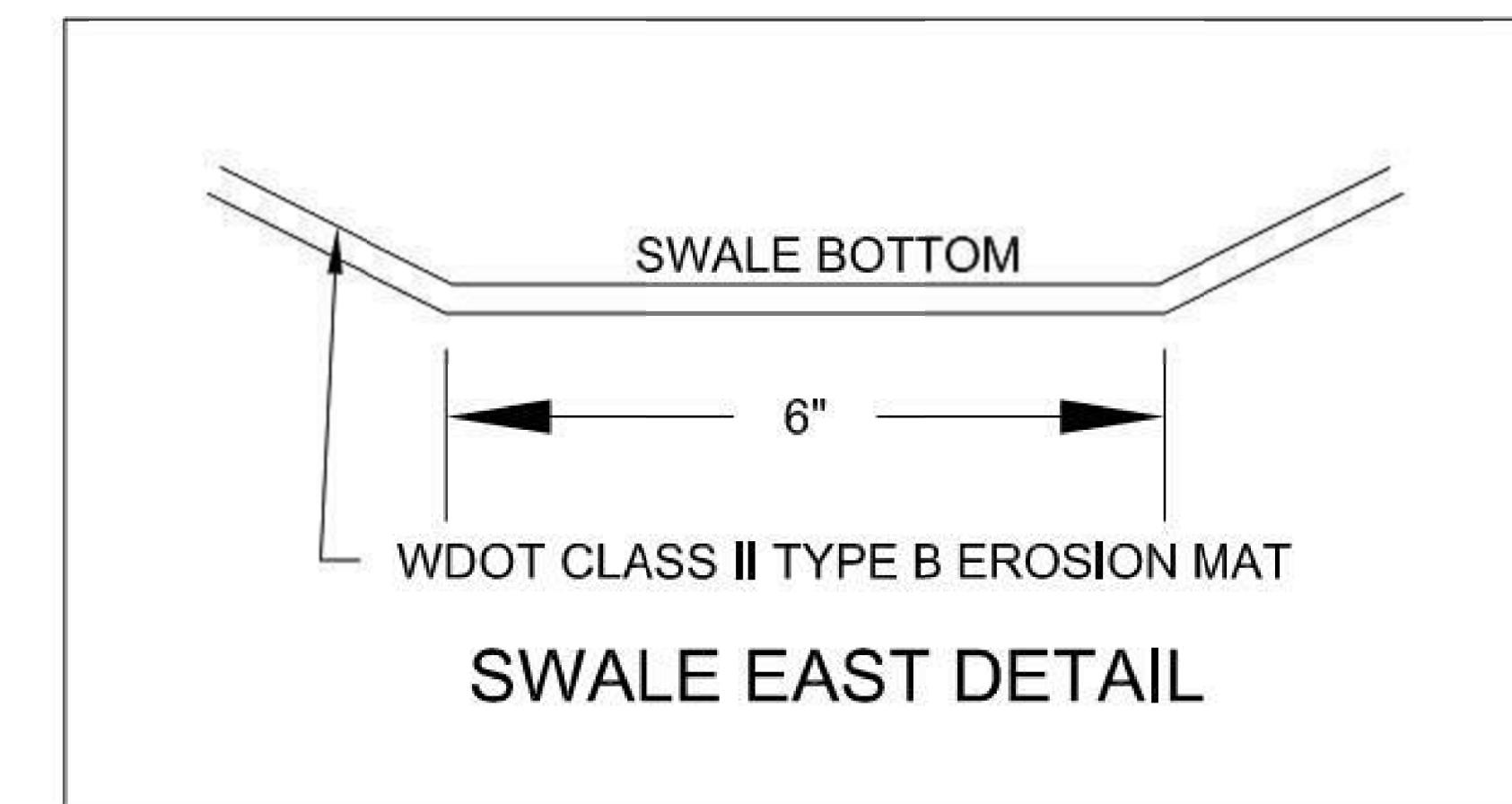


Width (W) = 0.5 feet
Depth (D) = 0.17 feet
Slope (s) = 0.161 ft/ft

Calculate maximum shear stress in the swale, τ_m :

$$\tau_m = \gamma ds = (62.4 \text{ lb}/\text{ft}^2)(0.17 \text{ ft})(0.161 \text{ ft}/\text{ft}) = 1.69 \text{ lb}/\text{ft}^2$$

Use WDOT Class II Type B Erosion Mat. ($2.0 > 1.69 \text{ lb}/\text{ft}^2$)
(Per FDM 10-5 Attachment 35.1 Channel Erosion Matrix)



Erosion Control and Stormwater Management Report
OD-03-18
10/2/2018

Exhibit 5

5

4

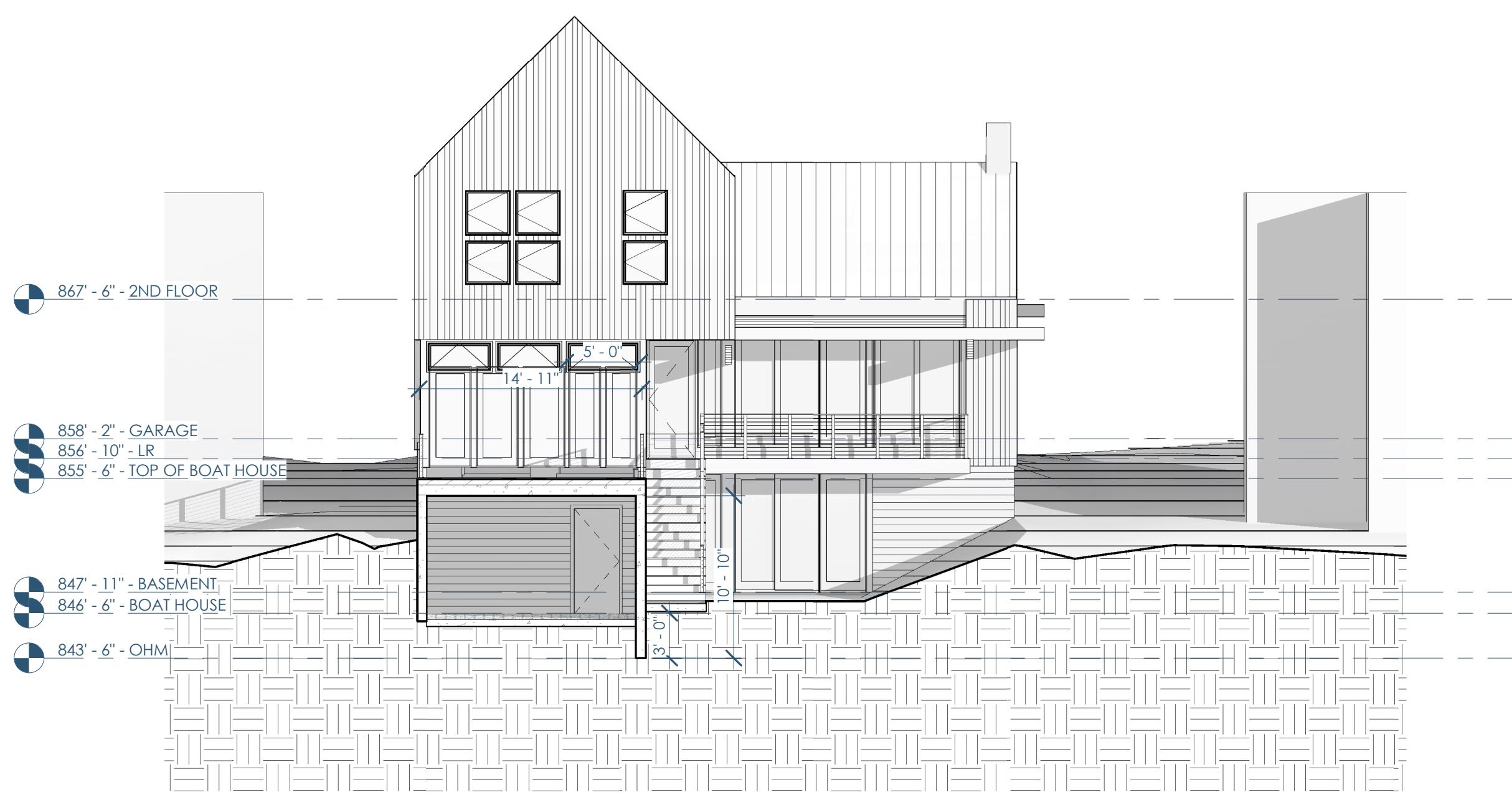
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2

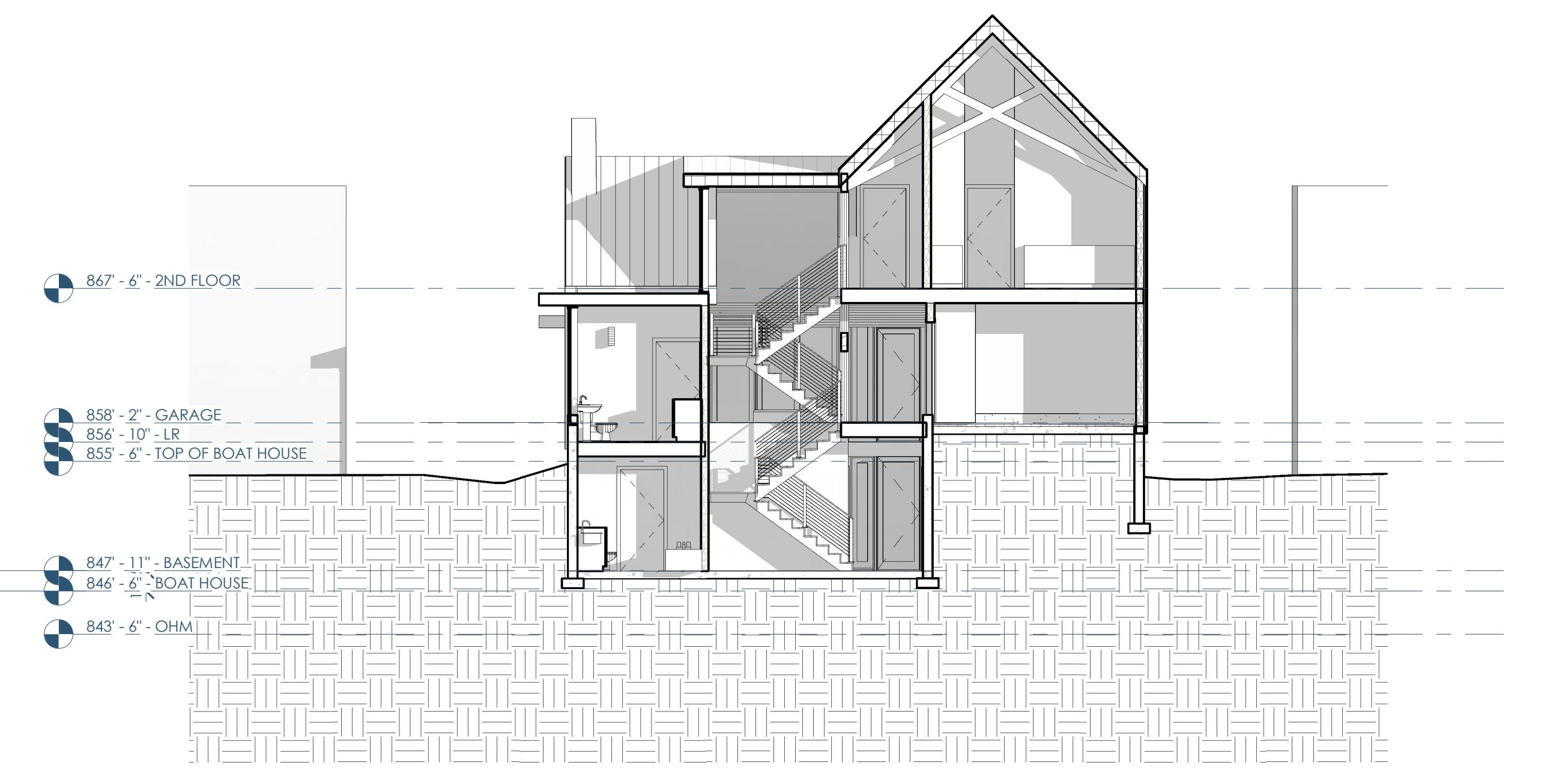
1

C

C



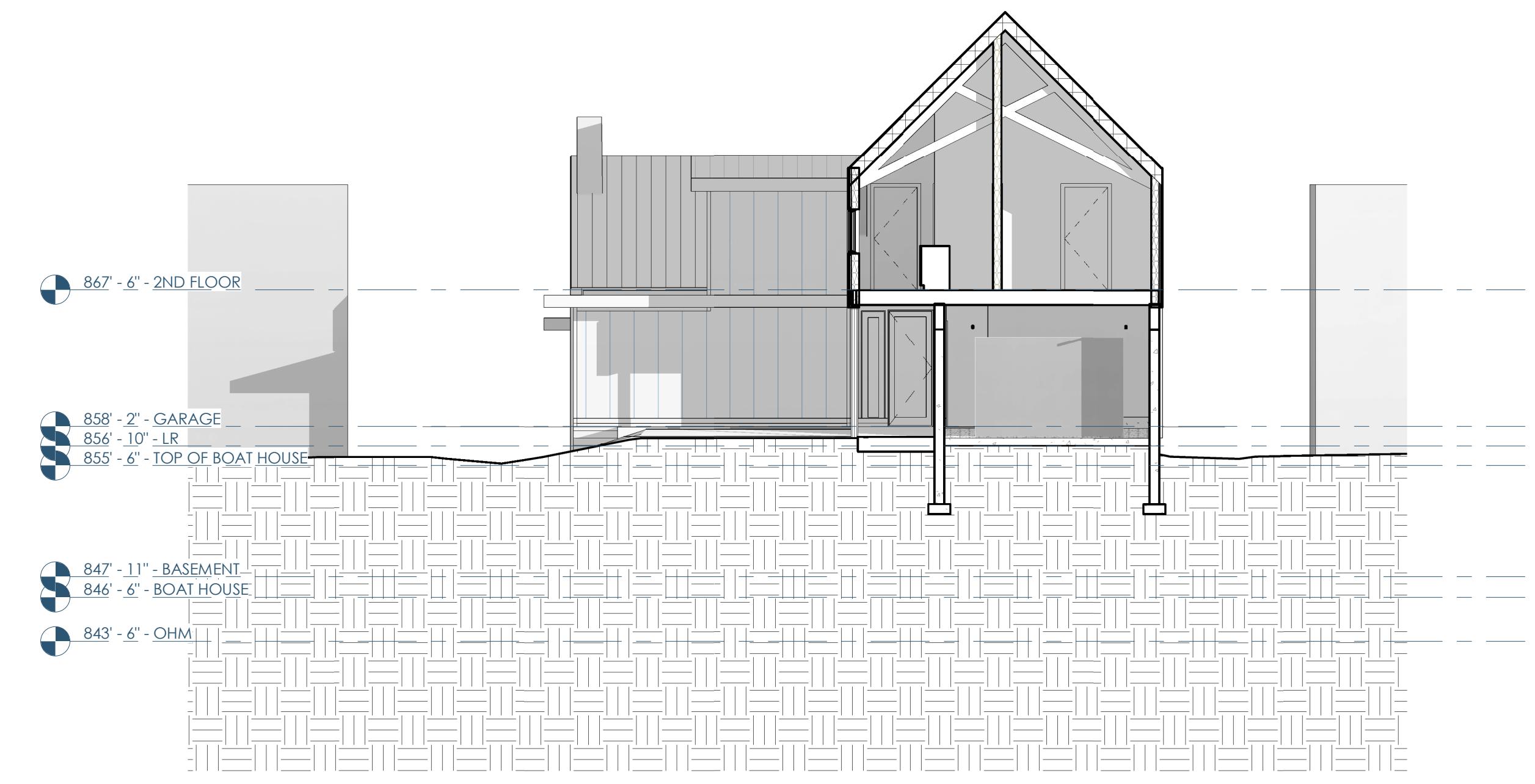
① Section 23
1/8" = 1'-0"



② Section 34
1/8" = 1'-0"

B

B



③ Section 38
1/8" = 1'-0"