

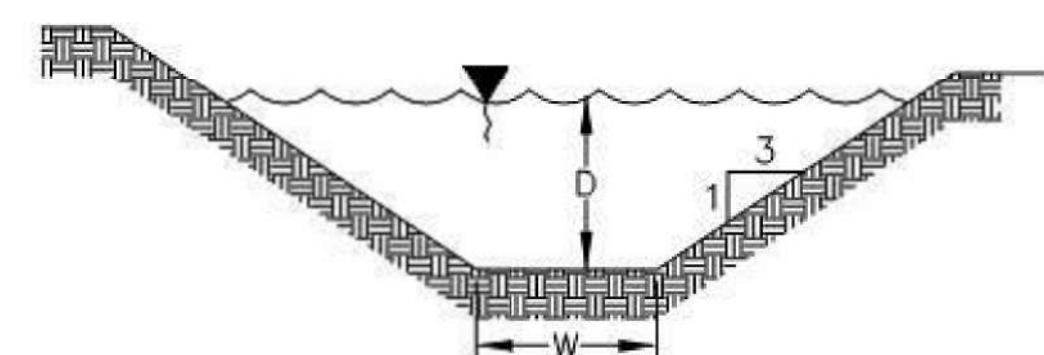
**W.D.O.T. FACILITIES DEVELOPMENT MANUAL
EROSION MAT DESIGN**

Description:

Swale West.

Given:

CHANNEL CROSS SECTION

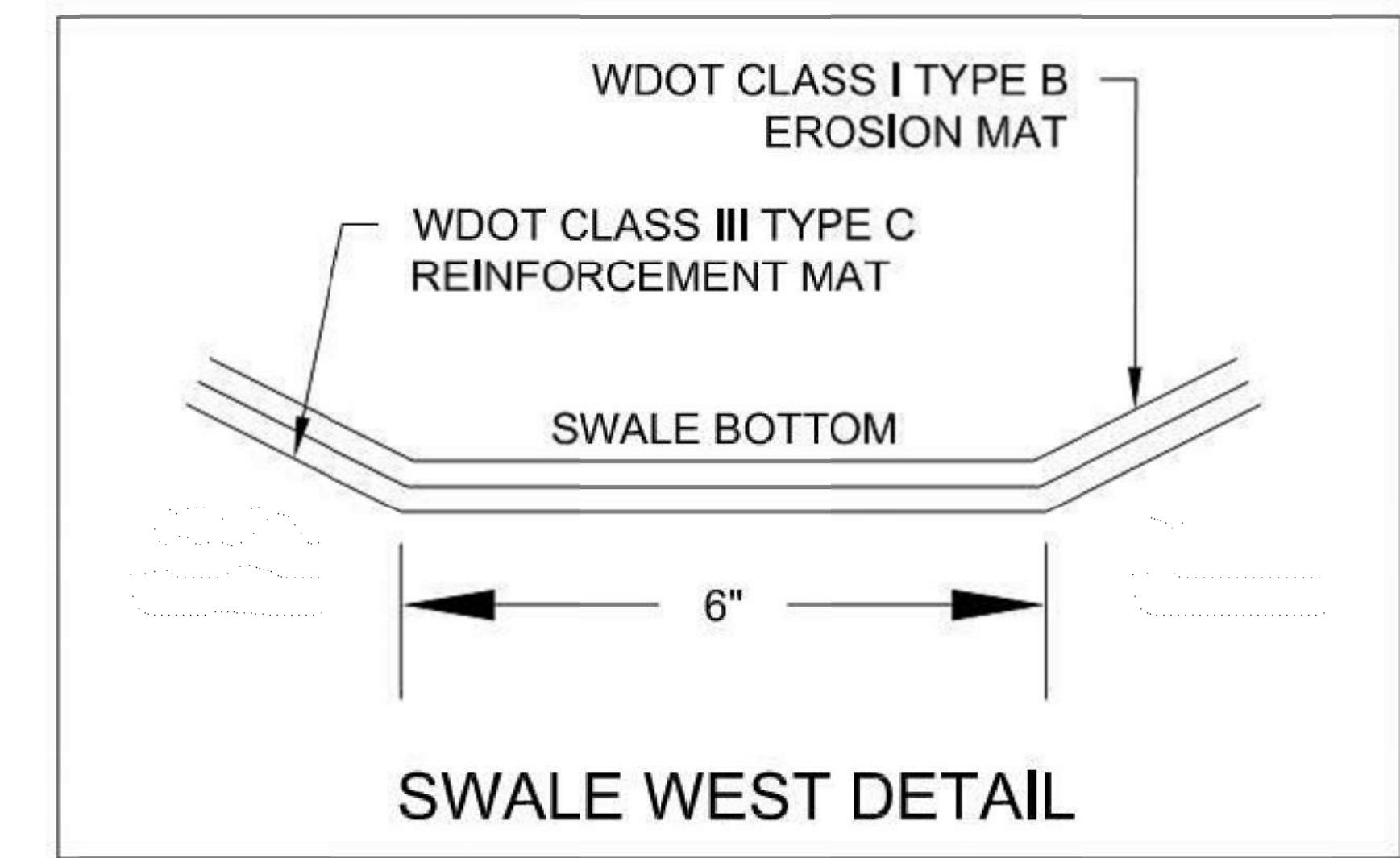


Width (W) = 0.5 feet
Depth (D) = 0.16 feet
Slope (s) = 0.223 ft/ft

Calculate maximum shear stress in the swale, τ_m :

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

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



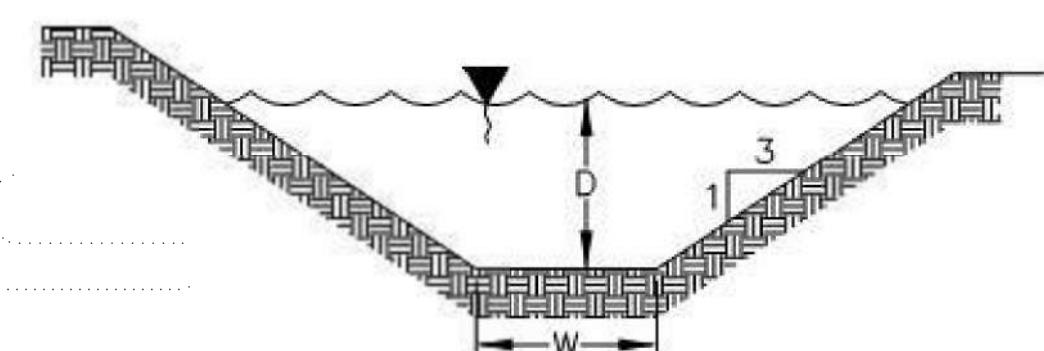
SWALE WEST DETAIL

Description:

Swale East

Given:

CHANNEL CROSS SECTION

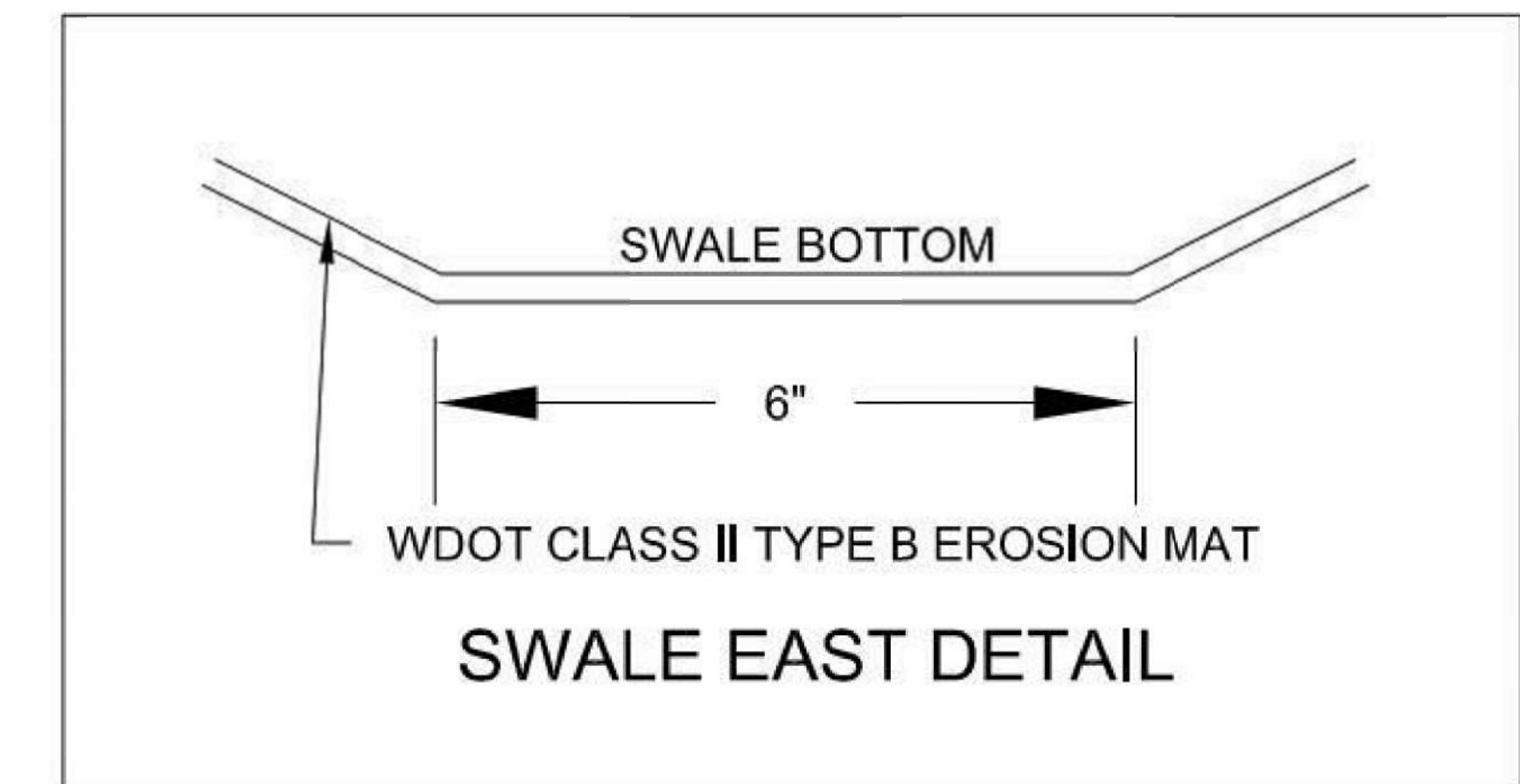


Width (W) = 0.5 feet
Depth (D) = 0.17 feet
Slope (s) = 0.161 ft/ft

Calculate maximum shear stress in the swale, τ_m :

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

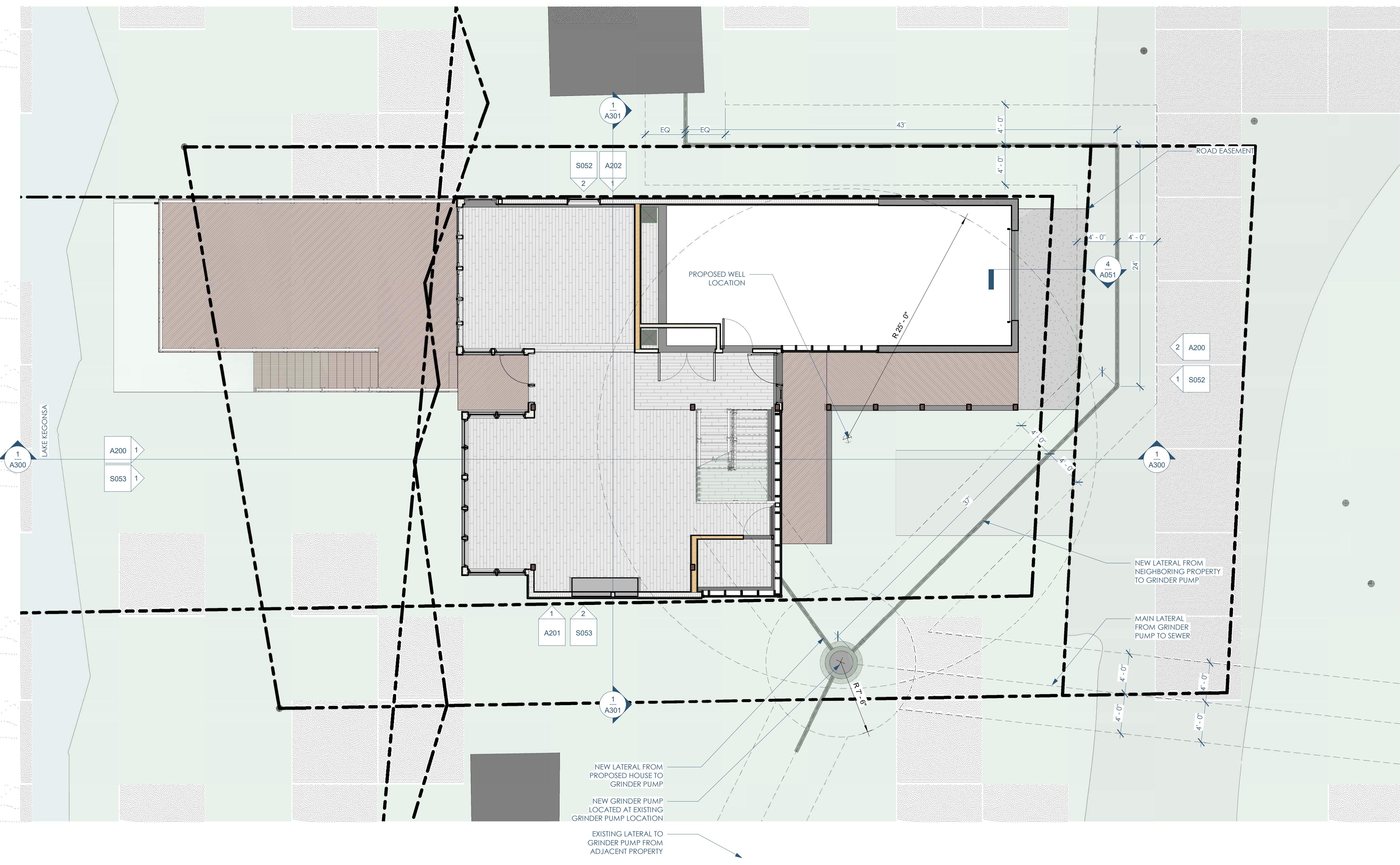
Use WDOT Class II Type B Erosion Mat. ($2.0 > 1.69 \text{ lb/ft}^2$)
(Per FDM 10-5 Attachment 35.1 Channel Erosion Matrix)



SWALE EAST DETAIL

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

Exhibit 5



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SITE PLAN - GRINDER PUMP LATERALS AND WELL

A060



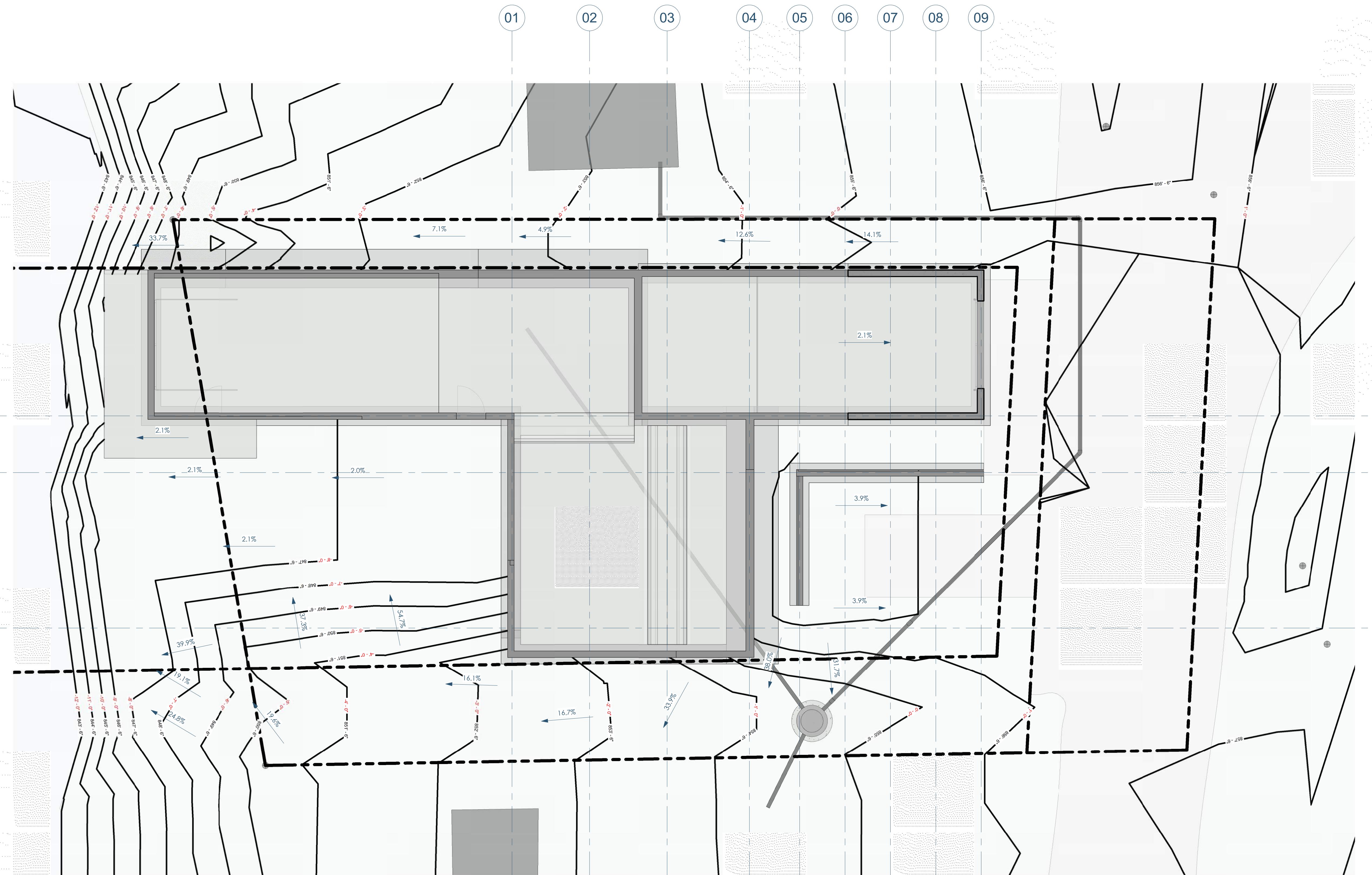
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1 SITE PLAN - TOPOGRAPHY

5/

Architect: OpeningDesign

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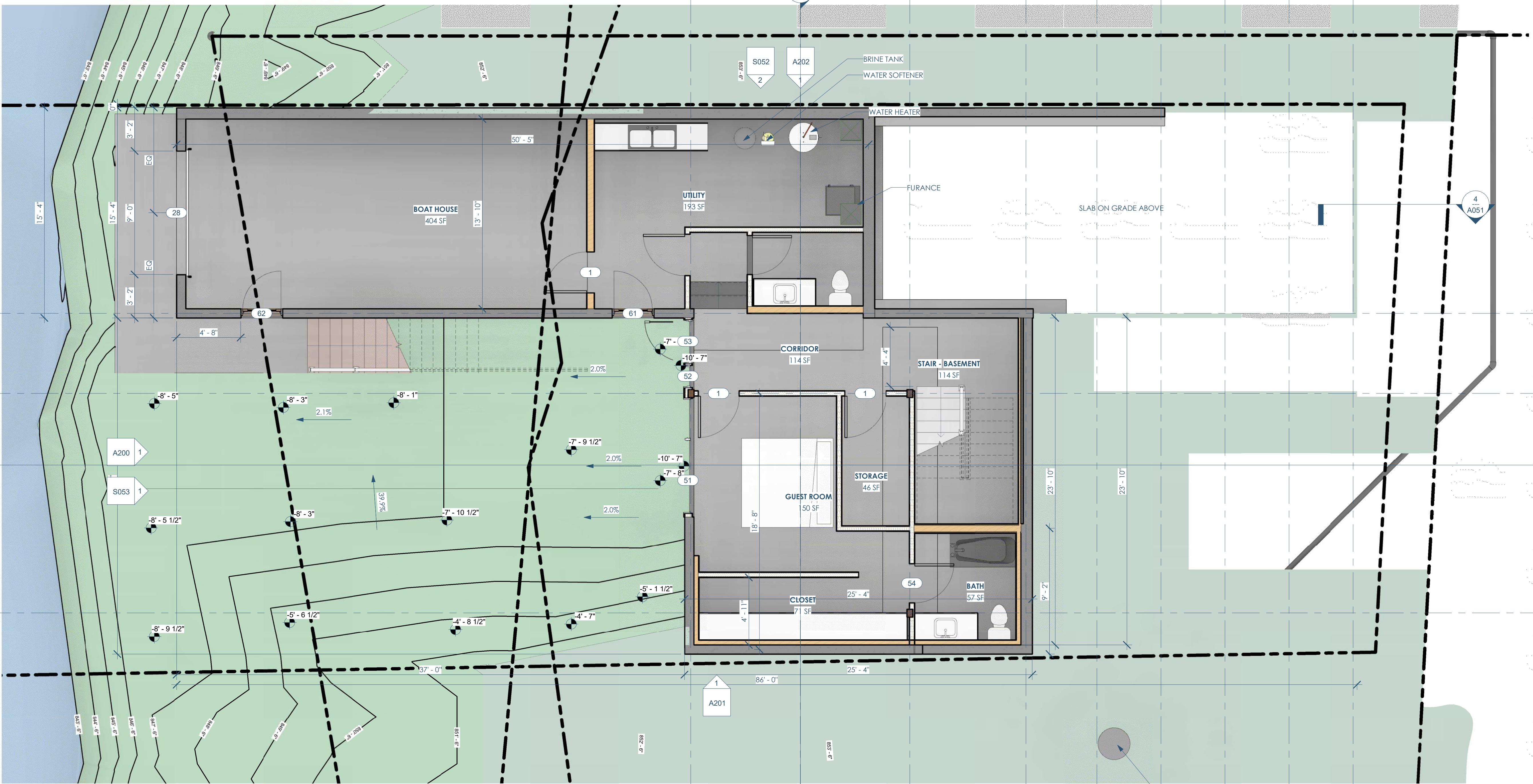
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SITE PLAN - TOPOGRAPHY ONLY

A070



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3196 AALSETH LN - STOUGHTON WI 53582
FLOOR PLAN - BASEMENT

A100



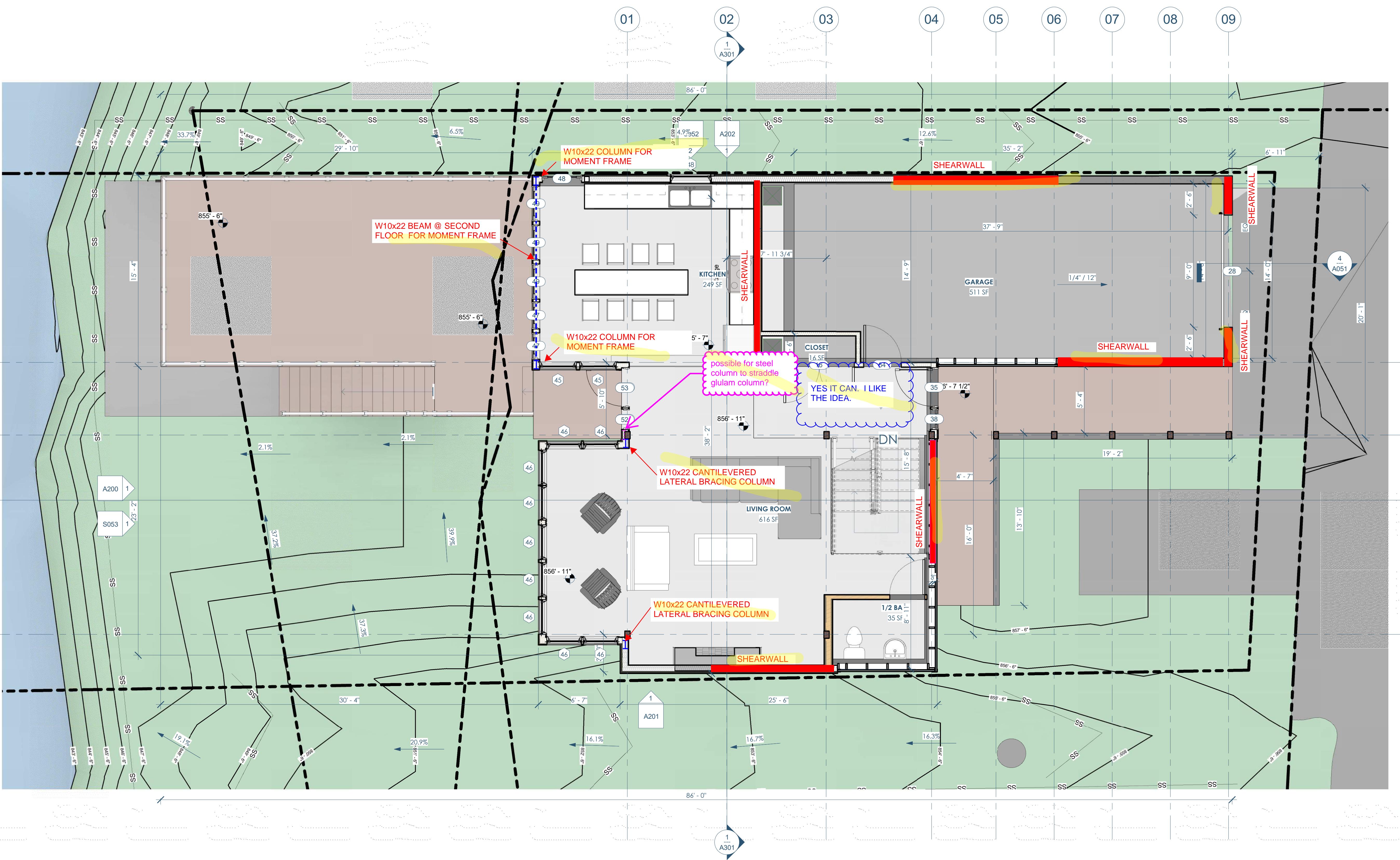
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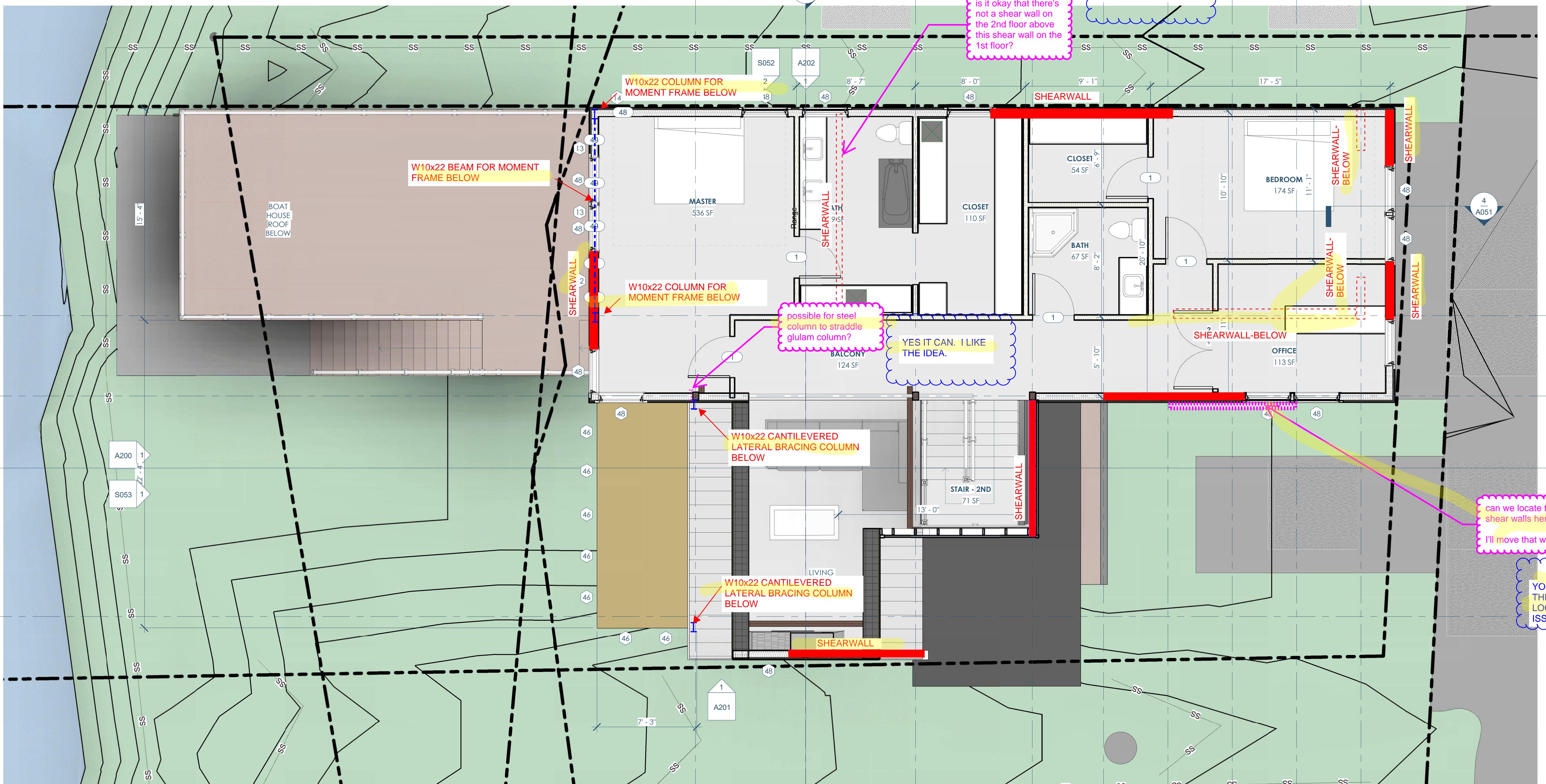
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FLOOR PLANS - 1ST FLOOR

A101



AALSETH RESIDENCE - 12/09/2018
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FLOOR PLAN - 2ND FLOOR

A102



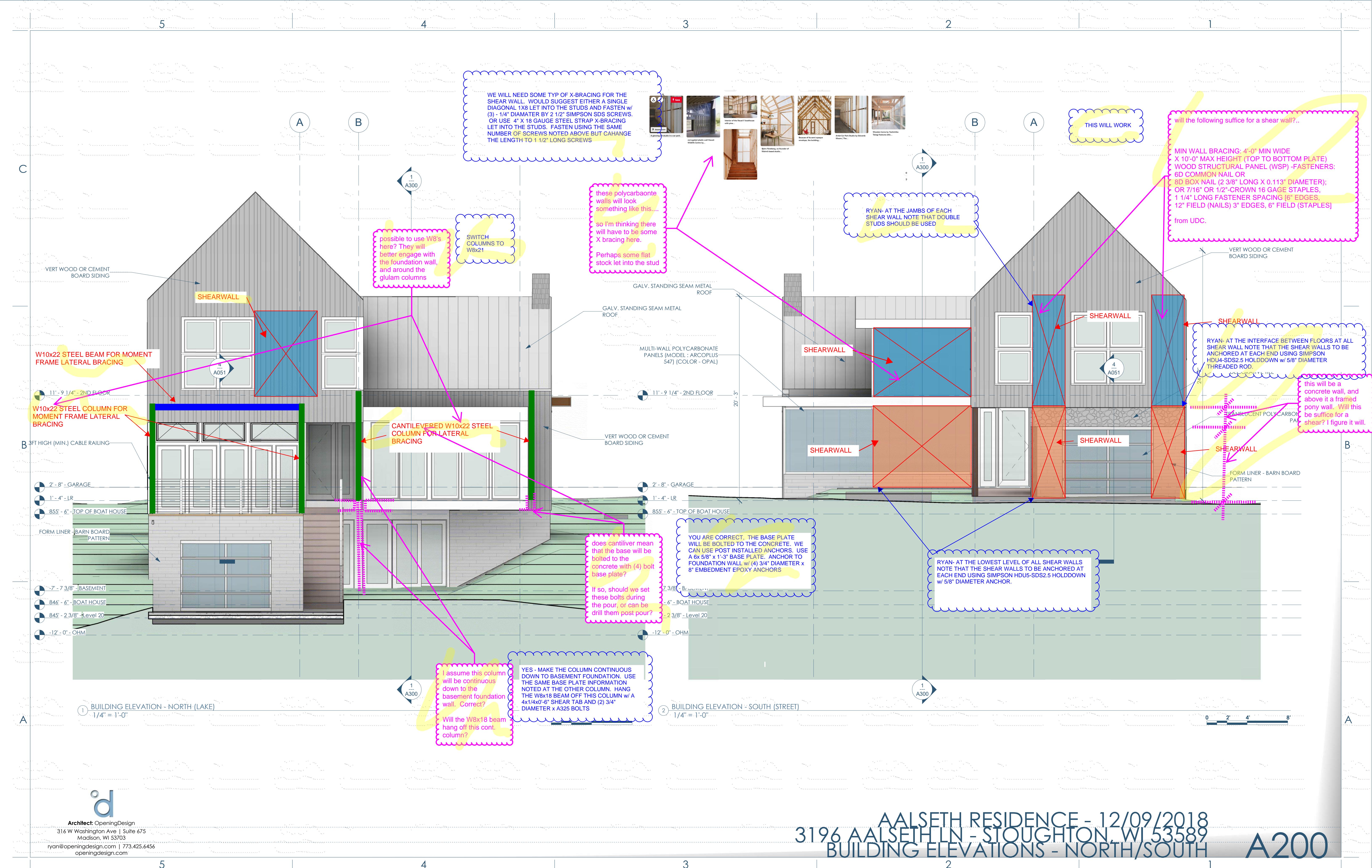
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5 4 3 2 1

C

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11'-9 1/4"-2ND FLOOR

FORM LINER - BARN BOARD PATTERN

2'-8"- GARAGE

1'-4"- LR

855'-6"- TOP OF BOAT HOUSE

B

B

-7'-7 3/8"- BASEMENT

846'-6"- BOAT HOUSE

845'-2 3/8"- Level 20

-12'-0"- OHM

① BUILDING ELEVATION - WEST

1/4" = 1'-0"



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01 02 03 04 05 06 07 08 09

1 A301

MULTI-WALL POLYCARBONATE PANELS (MODEL : ARCPOLUS 547) (COLOR - OPAL)

GALV. STANDING SEAM METAL ROOF

can we locate these shear walls here?
I'll move that window.

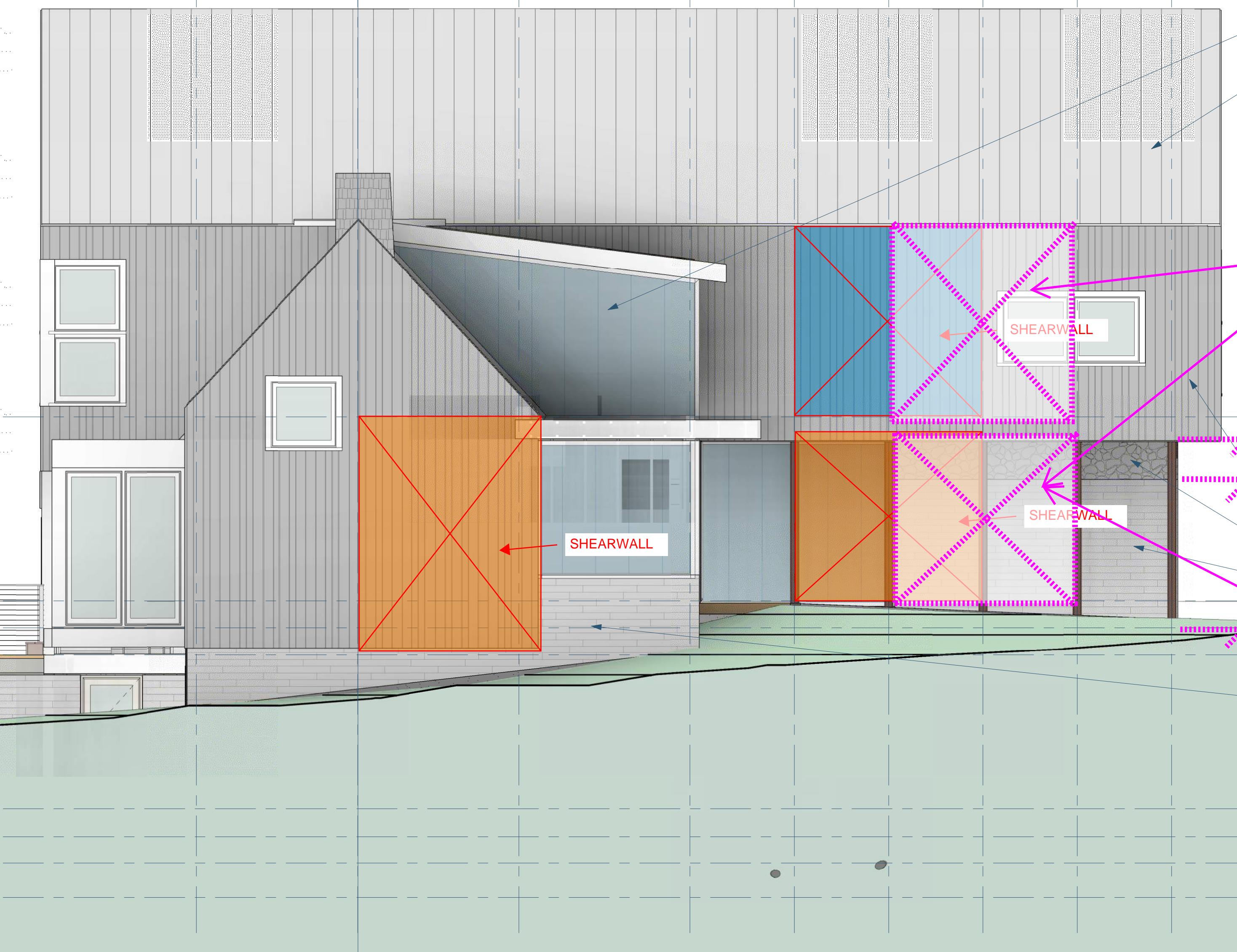
YES

this will be a concrete wall, and above it a framed pony wall. Will this be suffice for a shear? I figure it will.
YES

this shear wall is not inline with the shear wall above.. that okay?

Is that why there is X-bracing at the joists on the 2nd floor?

YOU ARE CORRECT THE X-BRACING IN THE PLANE OF THE FLOOR WILL TRANSFER THE SHEAR TO THE OFFSET WALL



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BUILDING ELEVATIONS - EAST

A201

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5 4 3 2 1

09 08 07 06 05 04 03 02 01

1
A301

will the following suffice for a shear wall?..

MIN WALL BRACING: 4'-0" MIN WIDE
X 10'-0" MAX HEIGHT (TOP TO BOTTOM PLATE)
WOOD STRUCTURAL PANEL (WSP) -FASTENERS:
6D COMMON NAIL OR
8D BOX NAIL (2 3/8" LONG X 0.113" DIAMETER);
OR 7/16" OR 1/2"-CROWN 16 GAGE STAPLES,
1 1/4" LONG FASTENER SPACING [6" EDGES,
12" FIELD (NAILS) 3" EDGES, 6" FIELD (STAPLES)]
from UDC.

USE 8' FOOT WIDTH FOR
THESE SHEAR WALLS

GALV. STANDING SEAM METAL
ROOF

VERT WOOD OR CEMENT
BOARD SIDING

DECORATIVE TILE

FORM LINER - BARN BOARD
PATTERN

2'-8" - GARAGE

1'-4" - LR

855'-6" - TOP OF BOAT HOUSE

-7'-7 3/8" - BASEMENT

846'-6" - BOAT HOUSE

845'-2 3/8" - Level 20

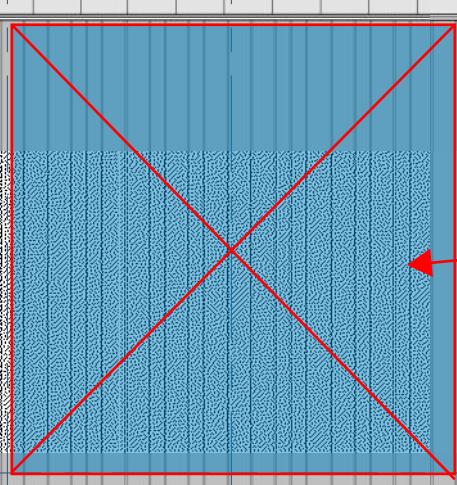
-12'-0" - OHM

BUILDING ELEVATION - EAST (CC)

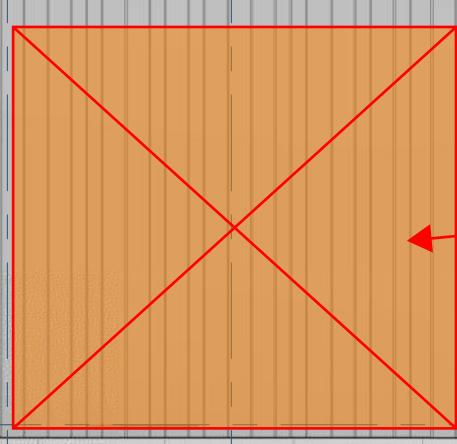
1/4" = 1'-0"

1
A301

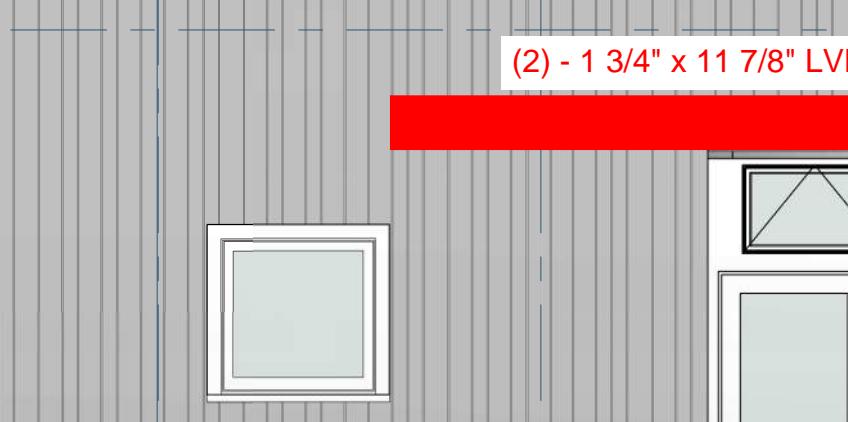
0 2' 4' 8'



SHEARWALL



SHEARWALL



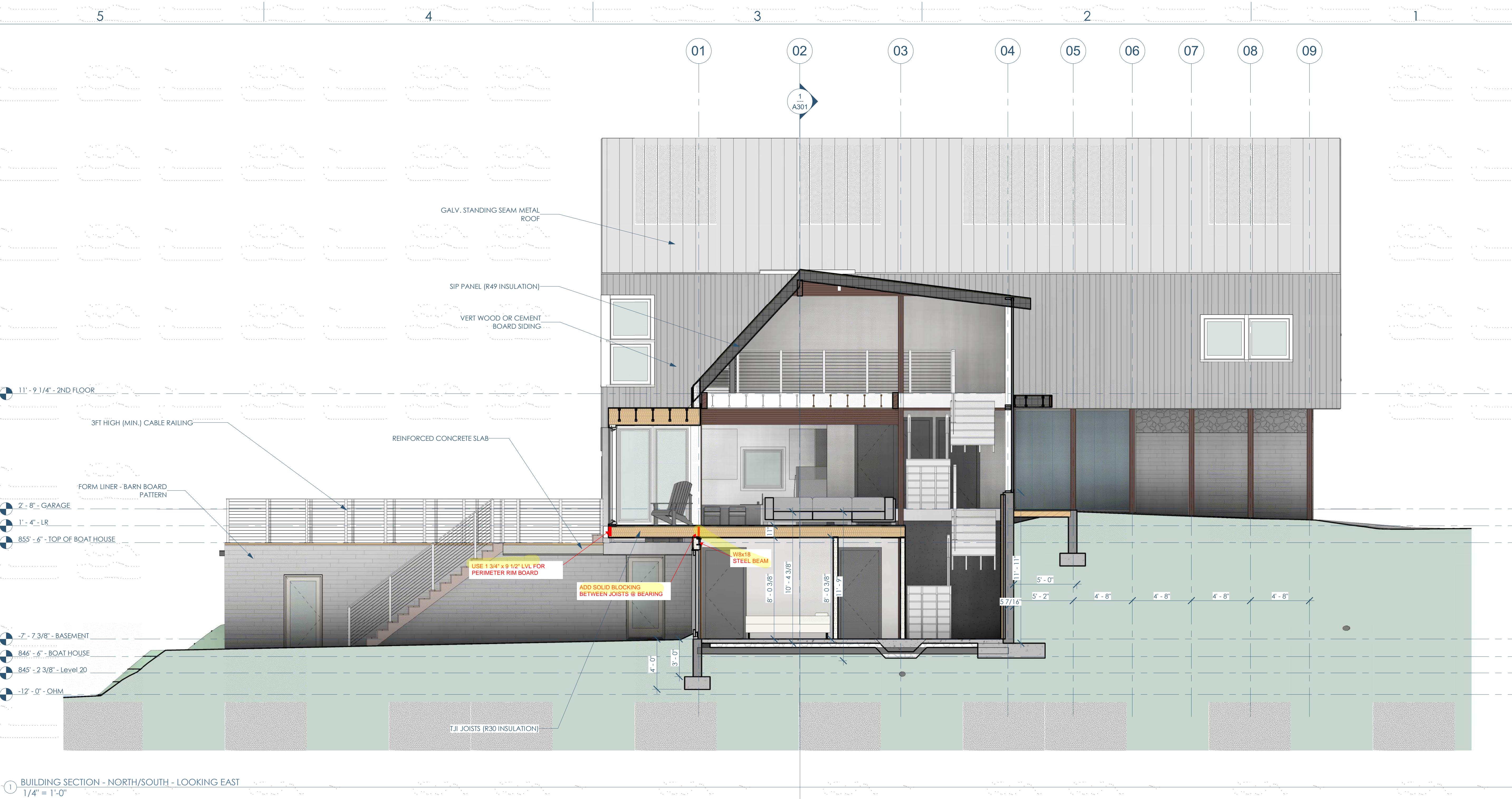
(2) - 1 3/4" x 11 7/8" LVL

VERT WOOD OR CEMENT
BOARD SIDING

3FT HIGH (MIN.) CABLE RAILING

3FT HIGH (MIN.) CABLE RAILING

FORM LINER - BARN BOARD
PATTERN



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BUILDING SECTION

A300



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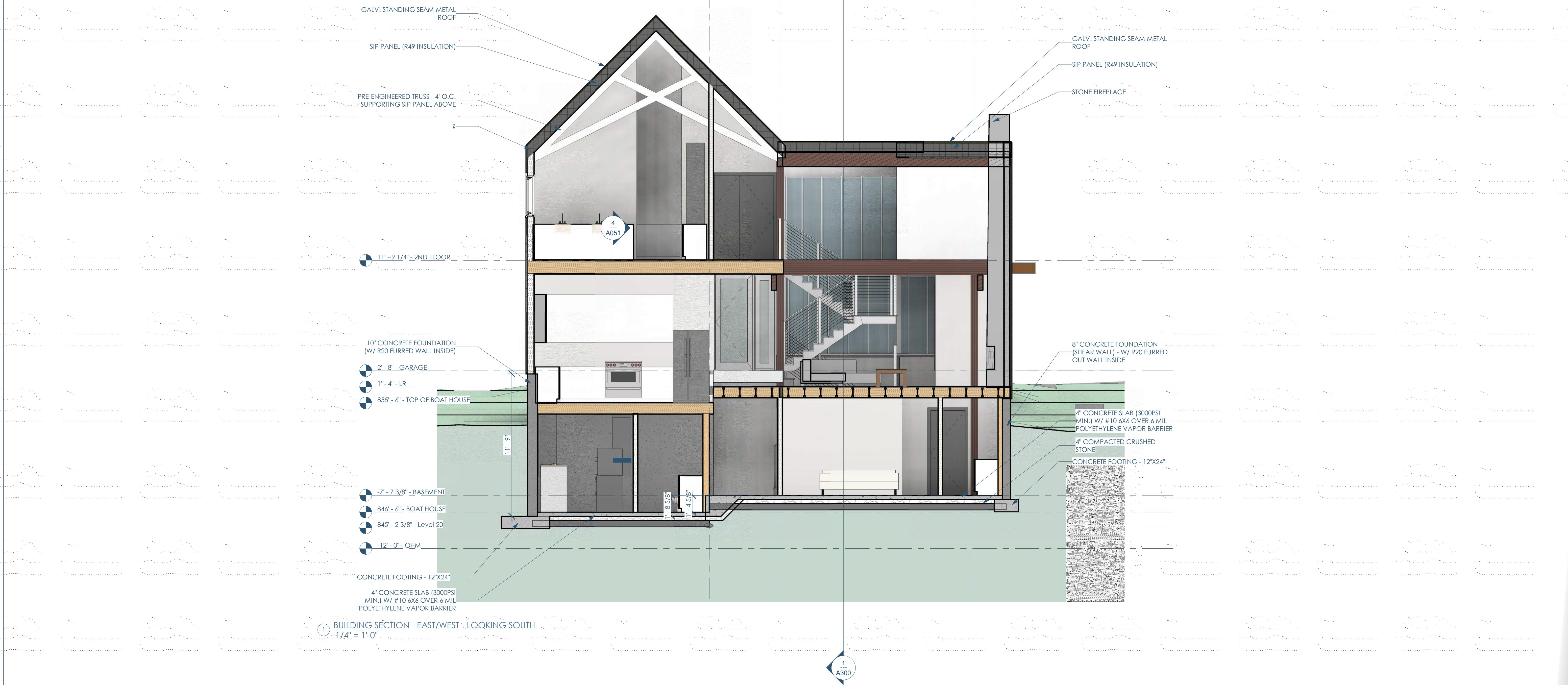
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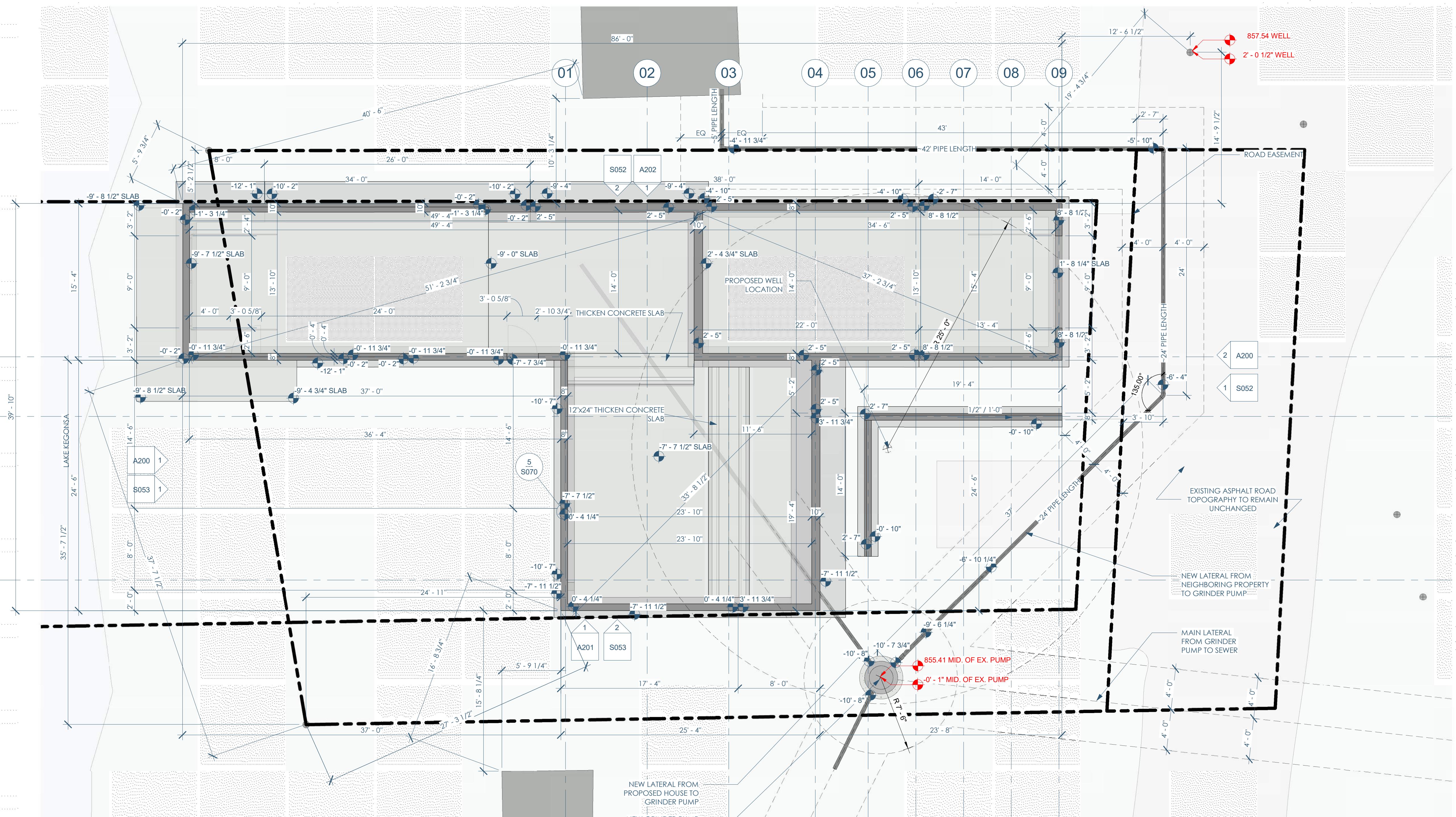
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BUILDING SECTION

A301



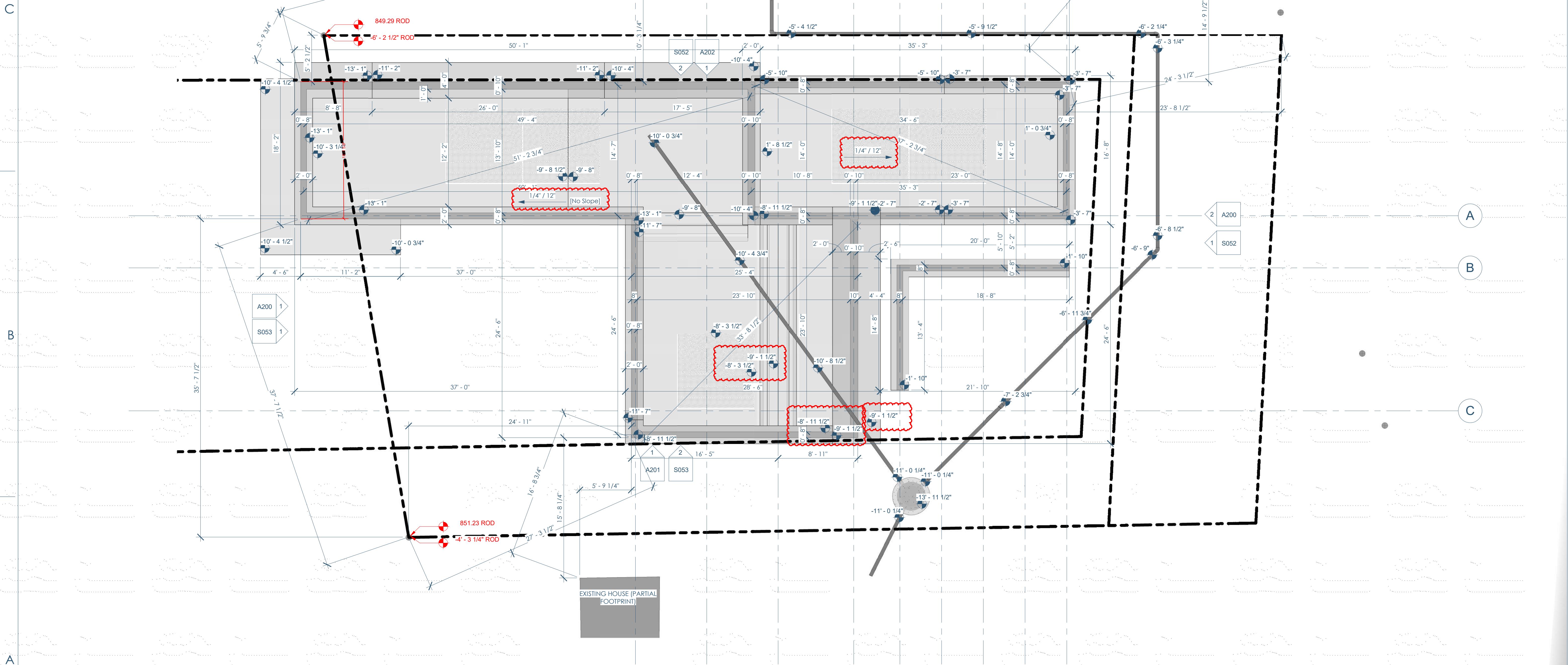
1 FOUNDATION PLAN 3/16" = 1'-0"

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FOUNDATION PLAN**

S050

5 4 3 2 1



EXCAVATION PLAN
3/16" = 1'-0"



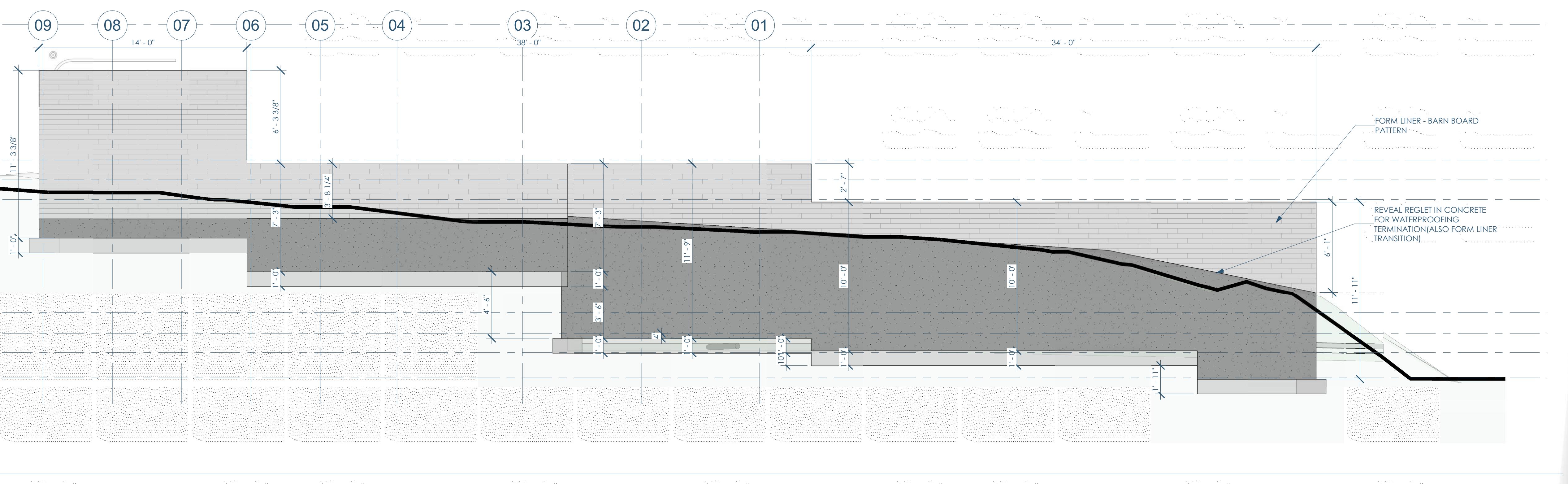
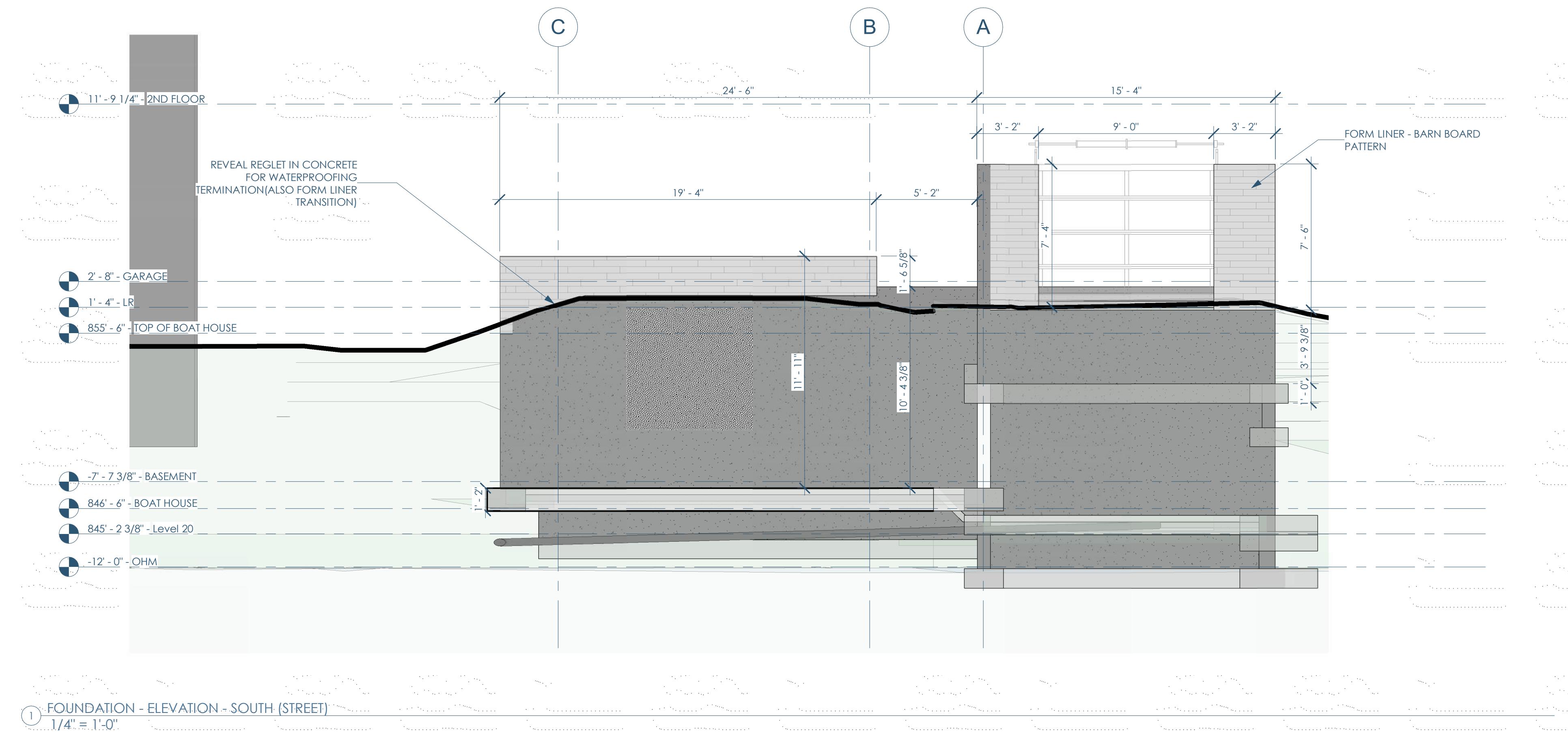
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EXCAVATION PLAN

S051



AALSETH RESIDENCE - 12/09/2018

S052

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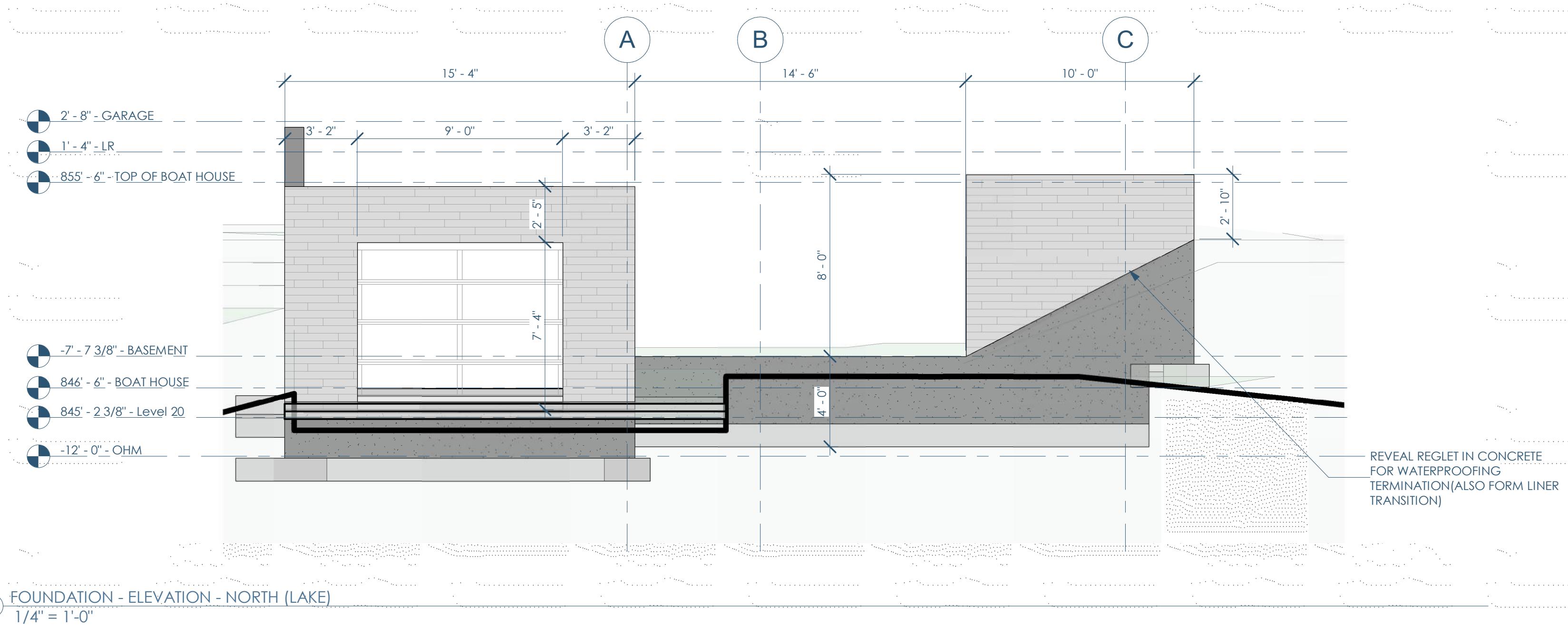
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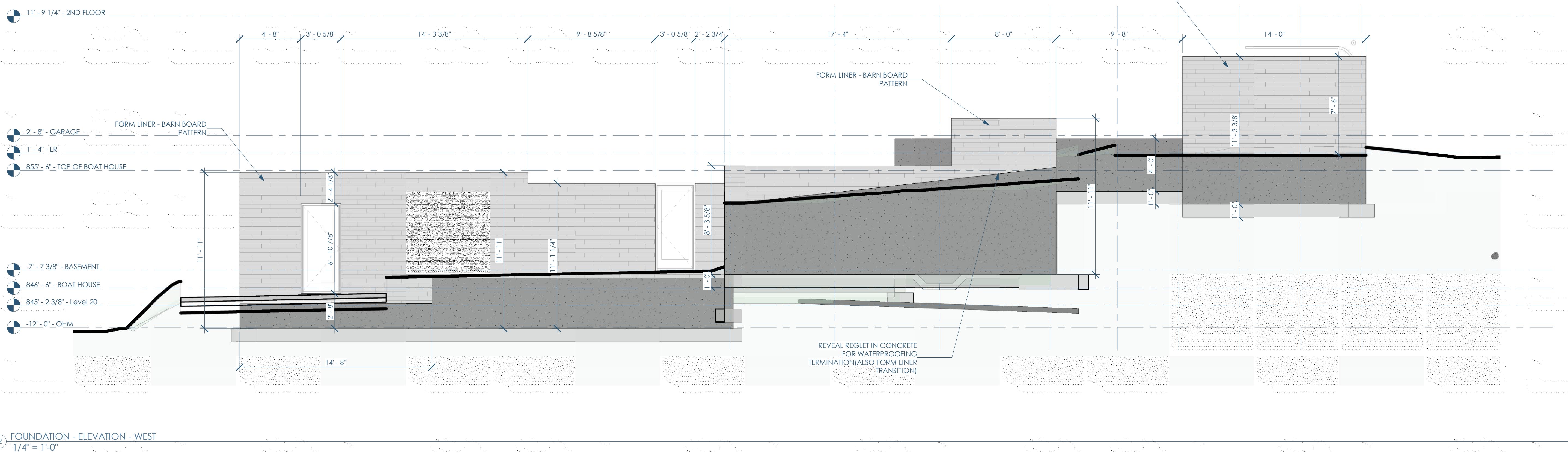
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2 FOUNDATION - ELEVATION - WEST
1/4" = 1'-0"



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AALSETH RESIDENCE - 12/09/2018
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FOUNDATION ELEVATIONS - NORTH & WEST

S053

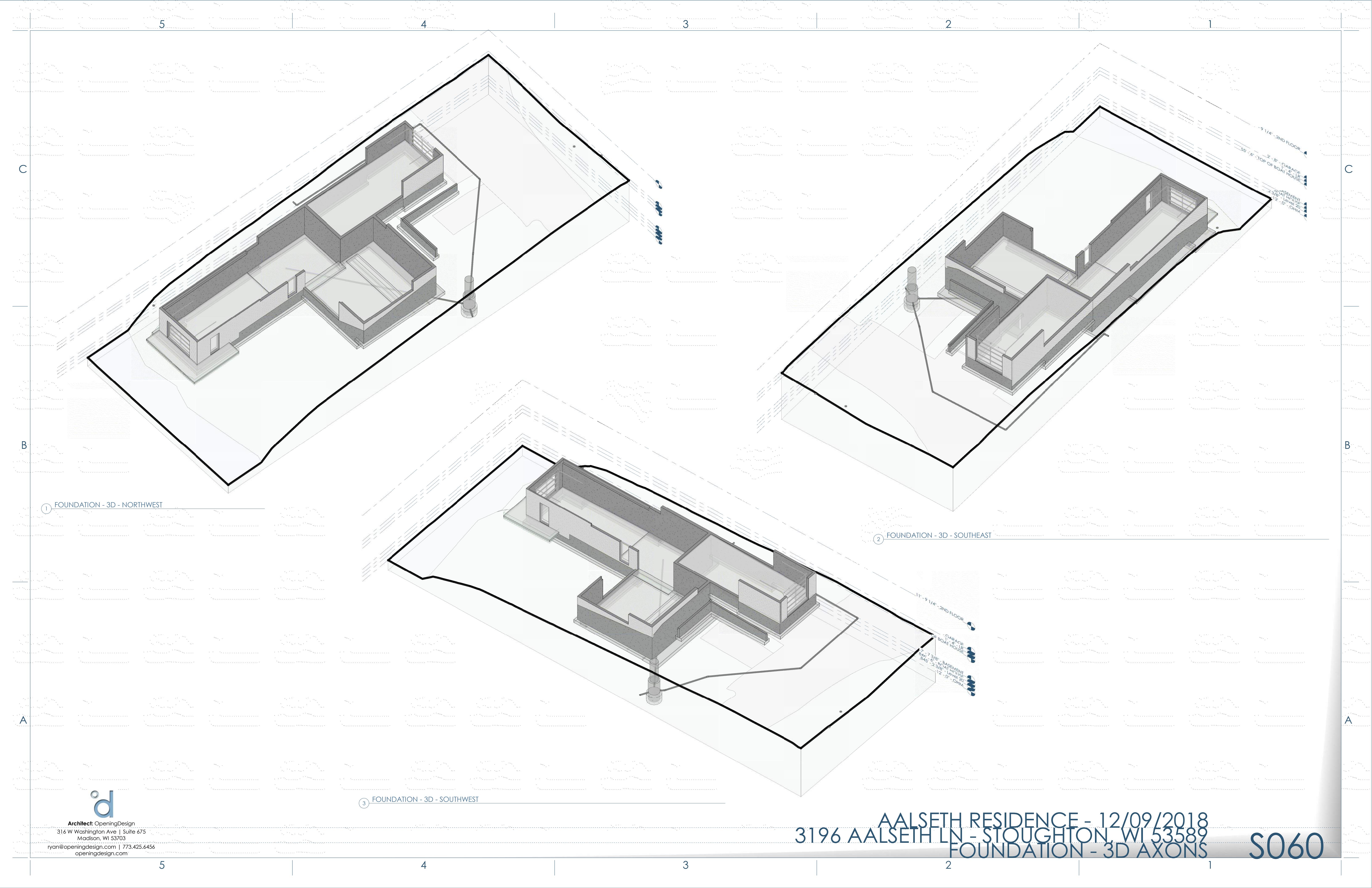
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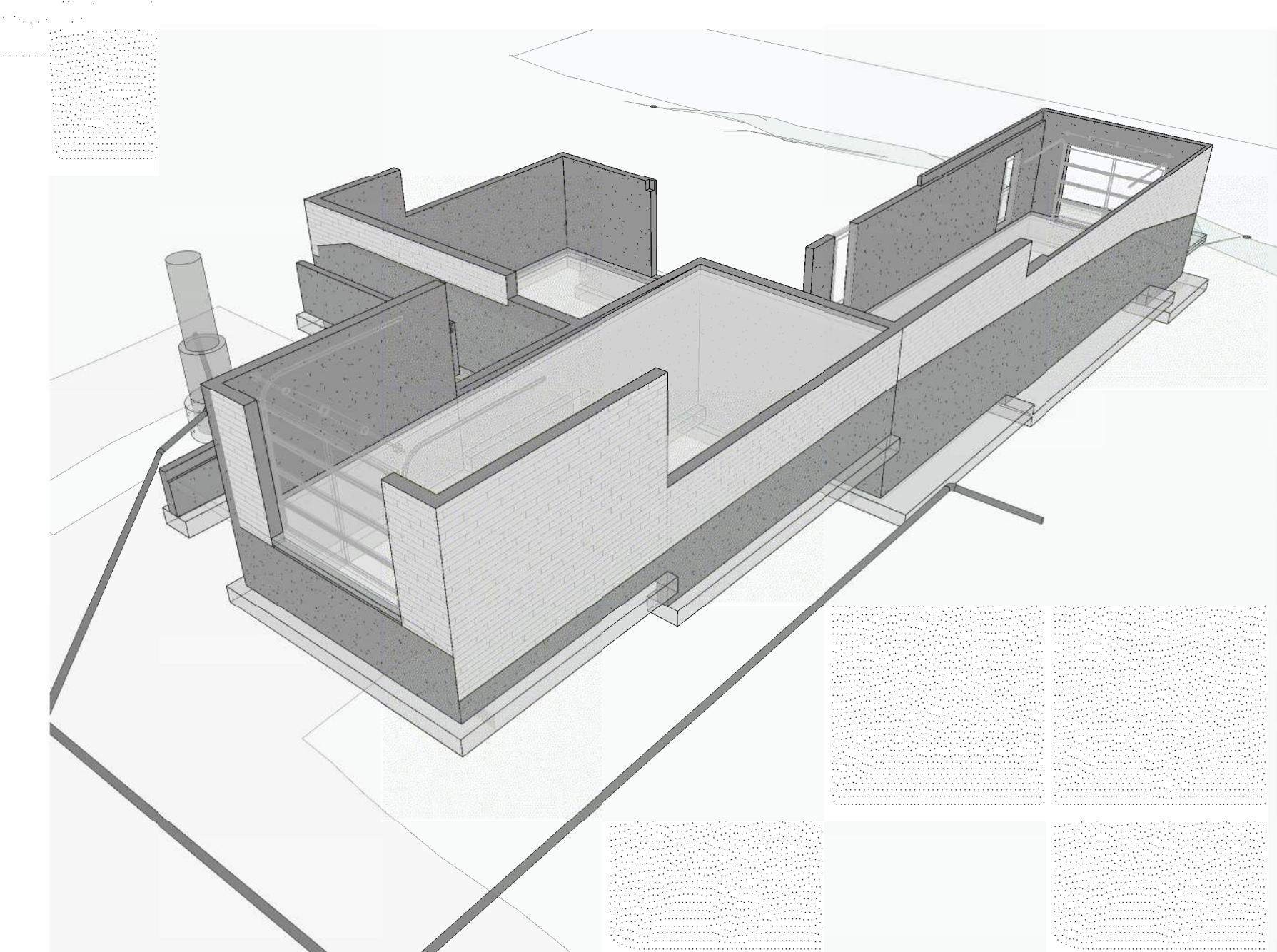
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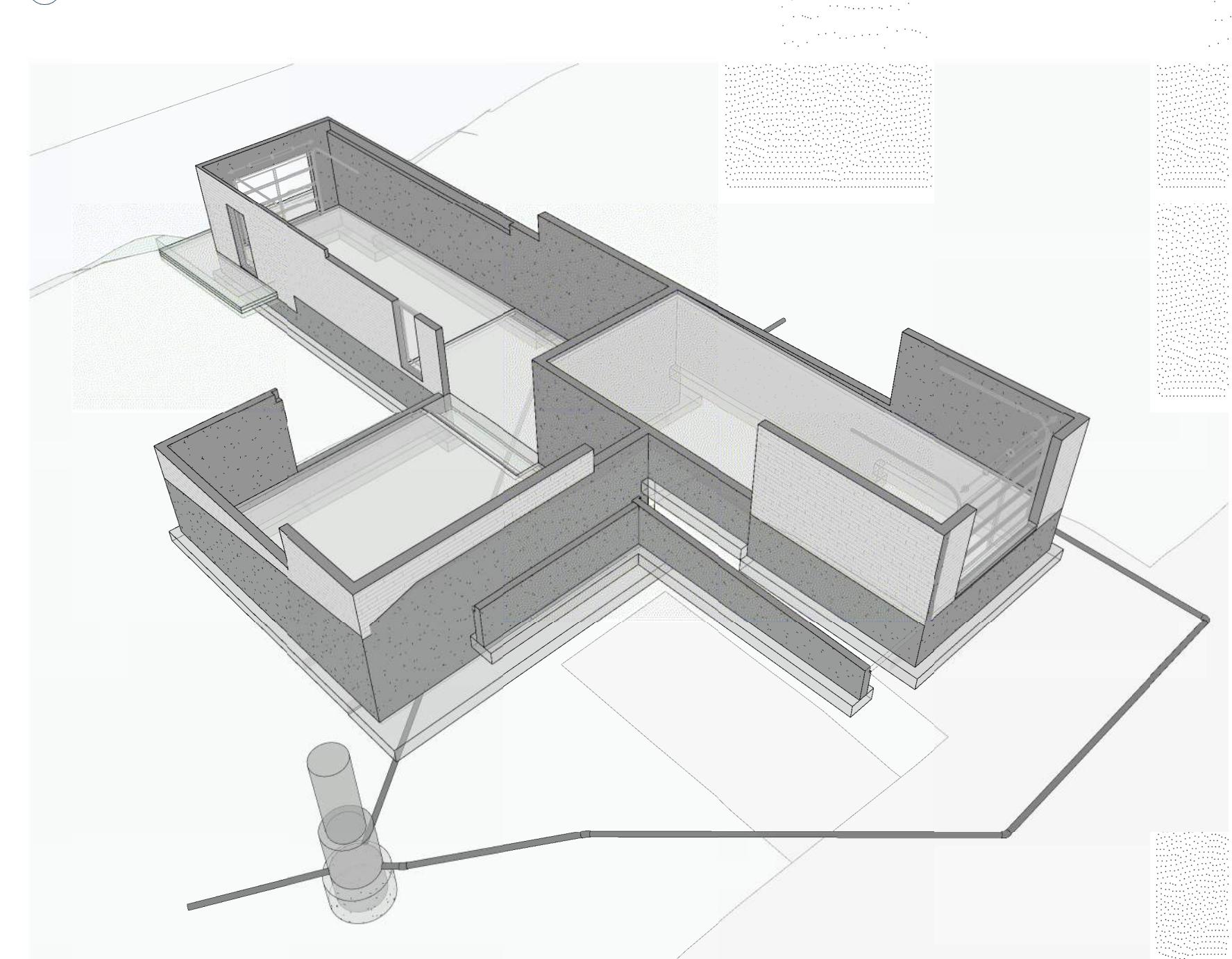
① FOUNDATION - PERSPECTIVE - 1

1



② FOUNDATION - PERSPECTIVE - 2

2



③ FOUNDATION - PERSPECTIVE - 3

3

④ FOUNDATION - PERSPECTIVE - 4

4



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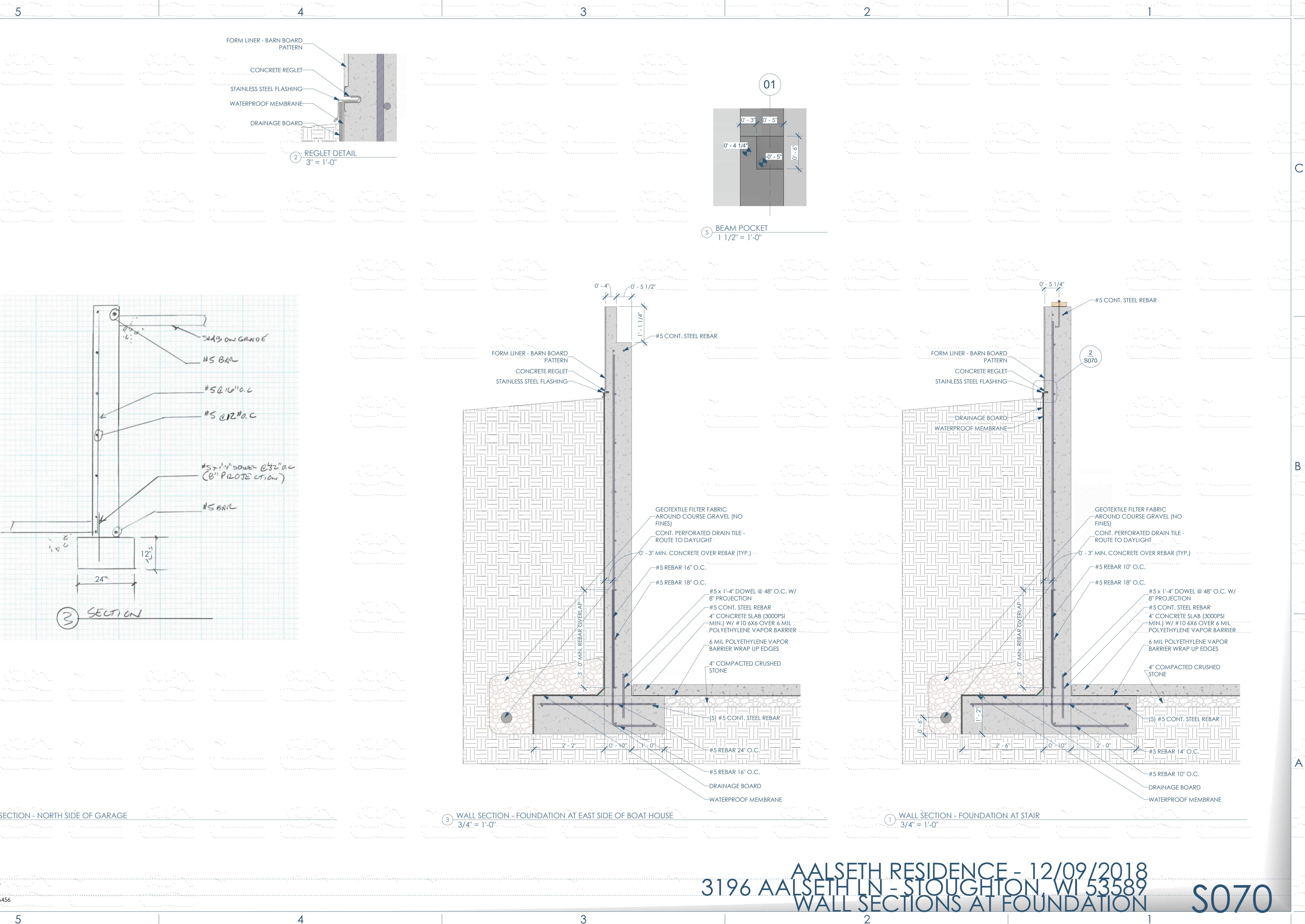
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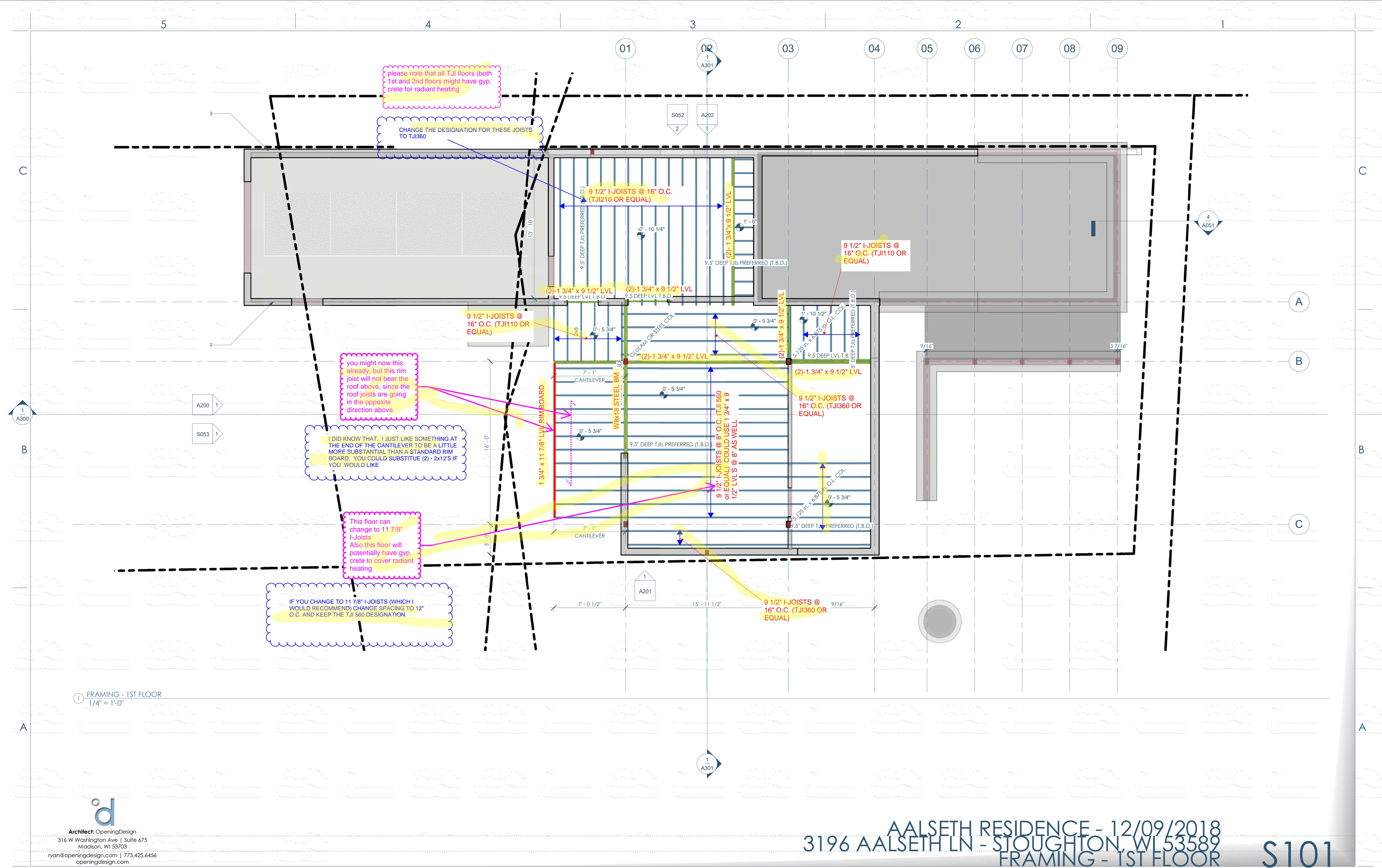
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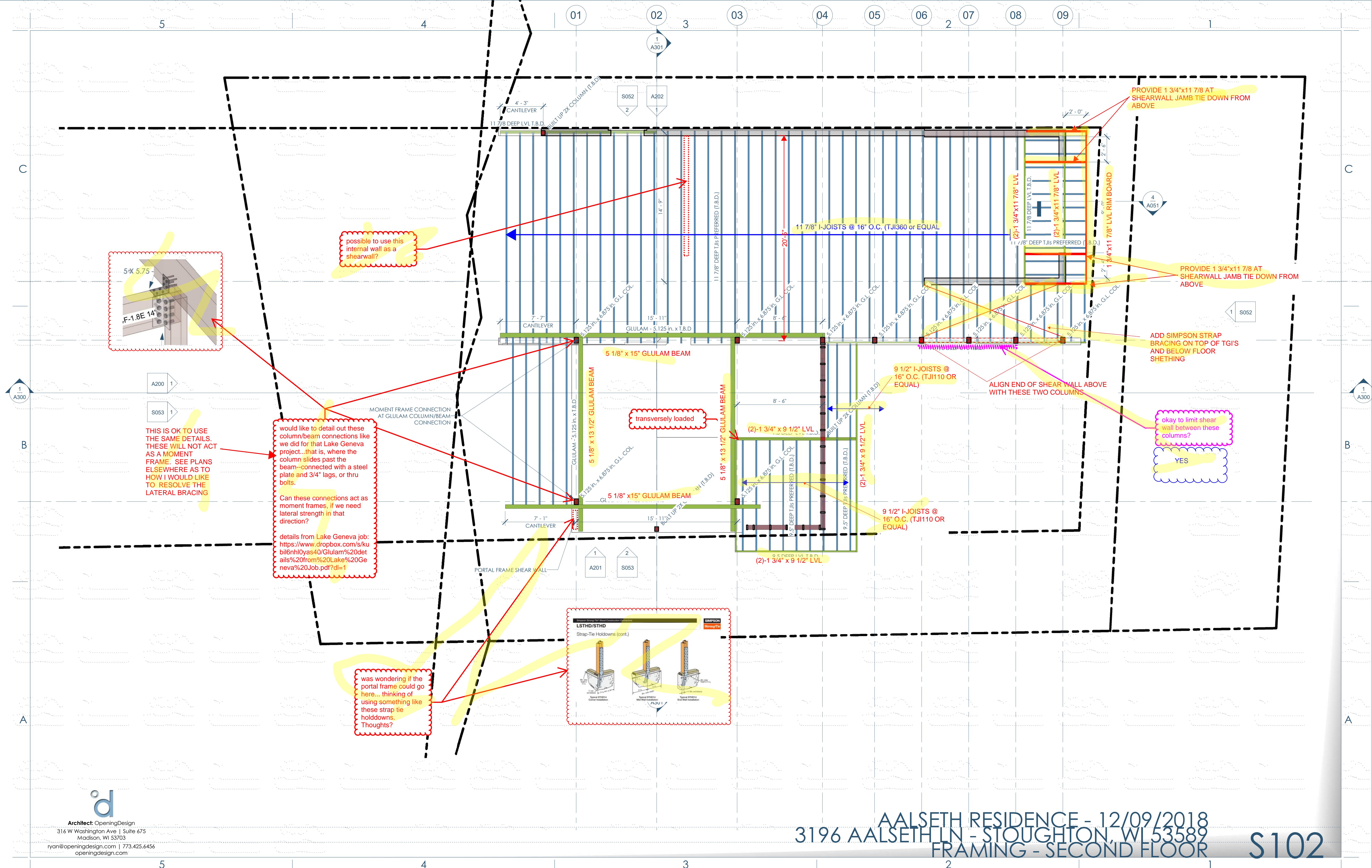
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 3196 AALSETH LN - STOUGHTON, WI 53589
 FOUNDATION - PERSPECTIVES

SO61

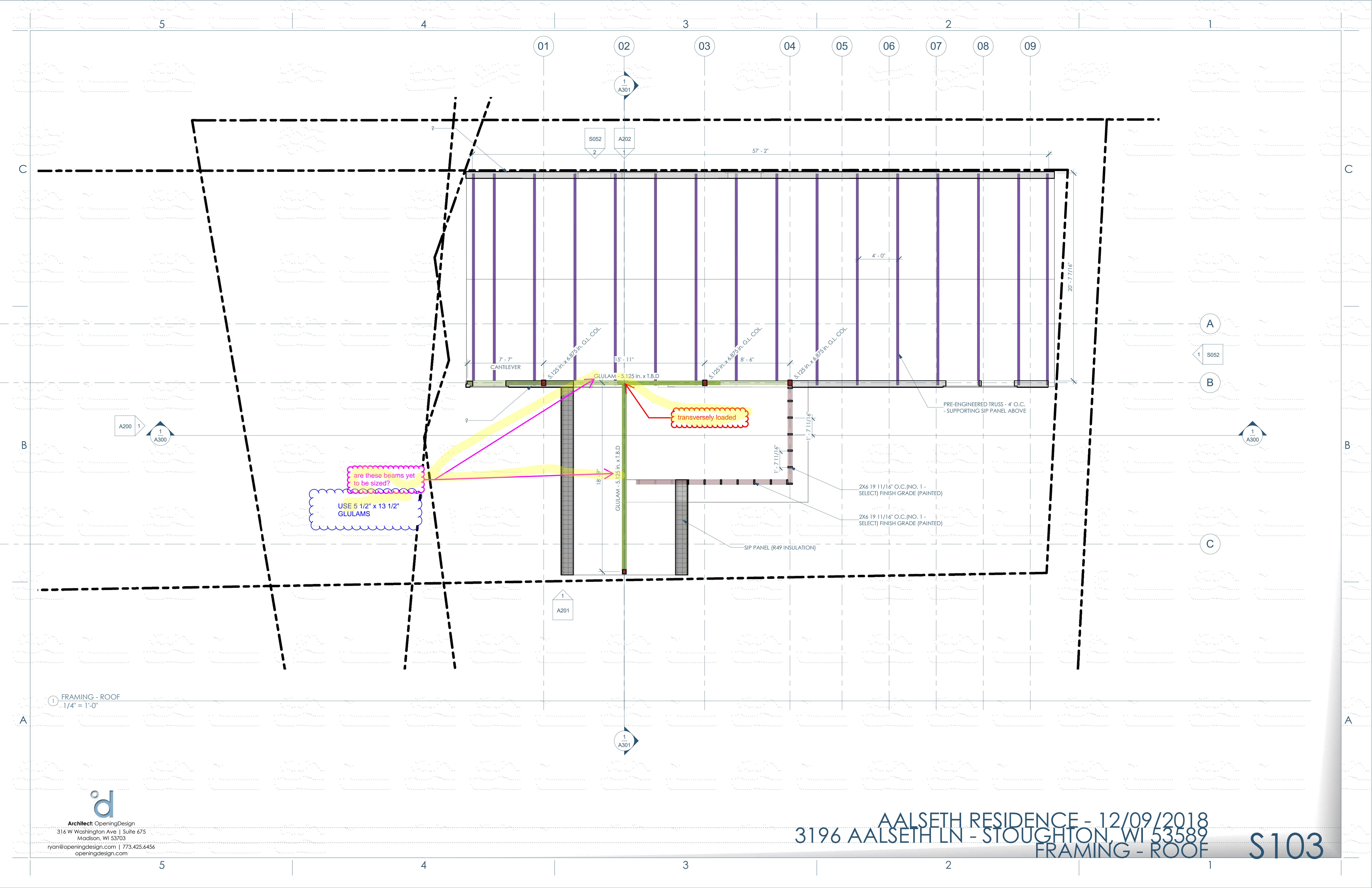


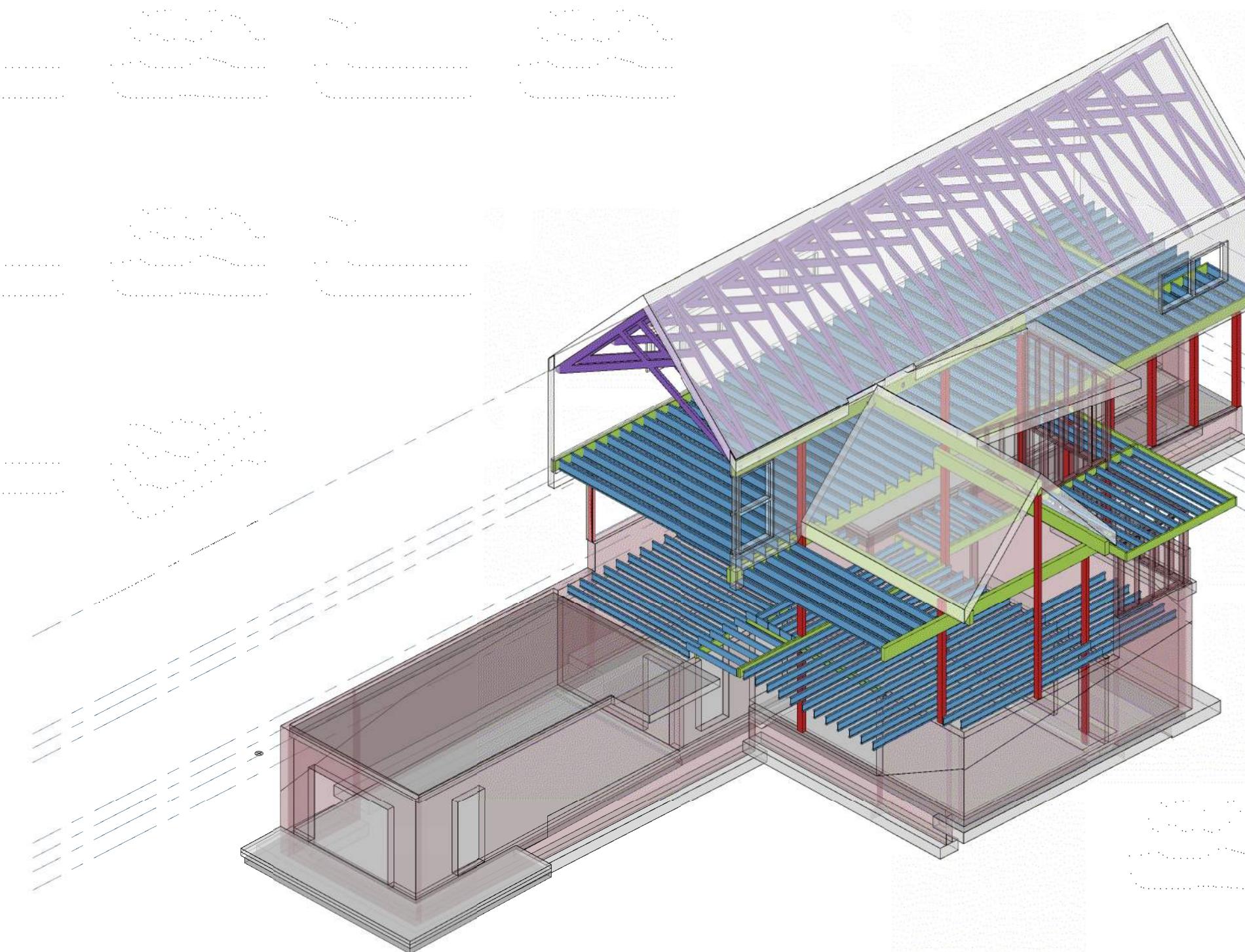




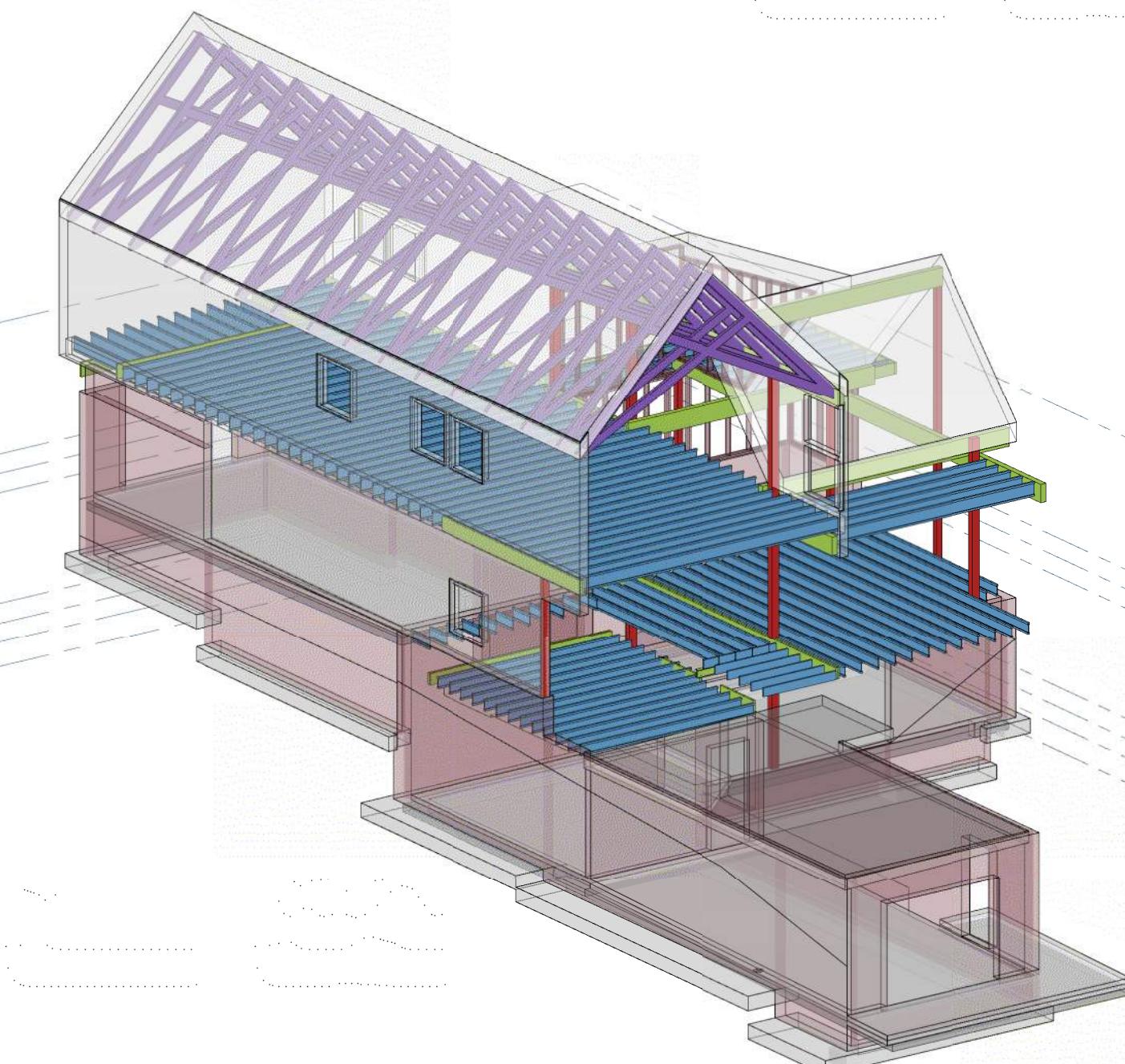
AALSETH RESIDENCE - 12/09/2018
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FRAMING - SECOND FLOOR

S102

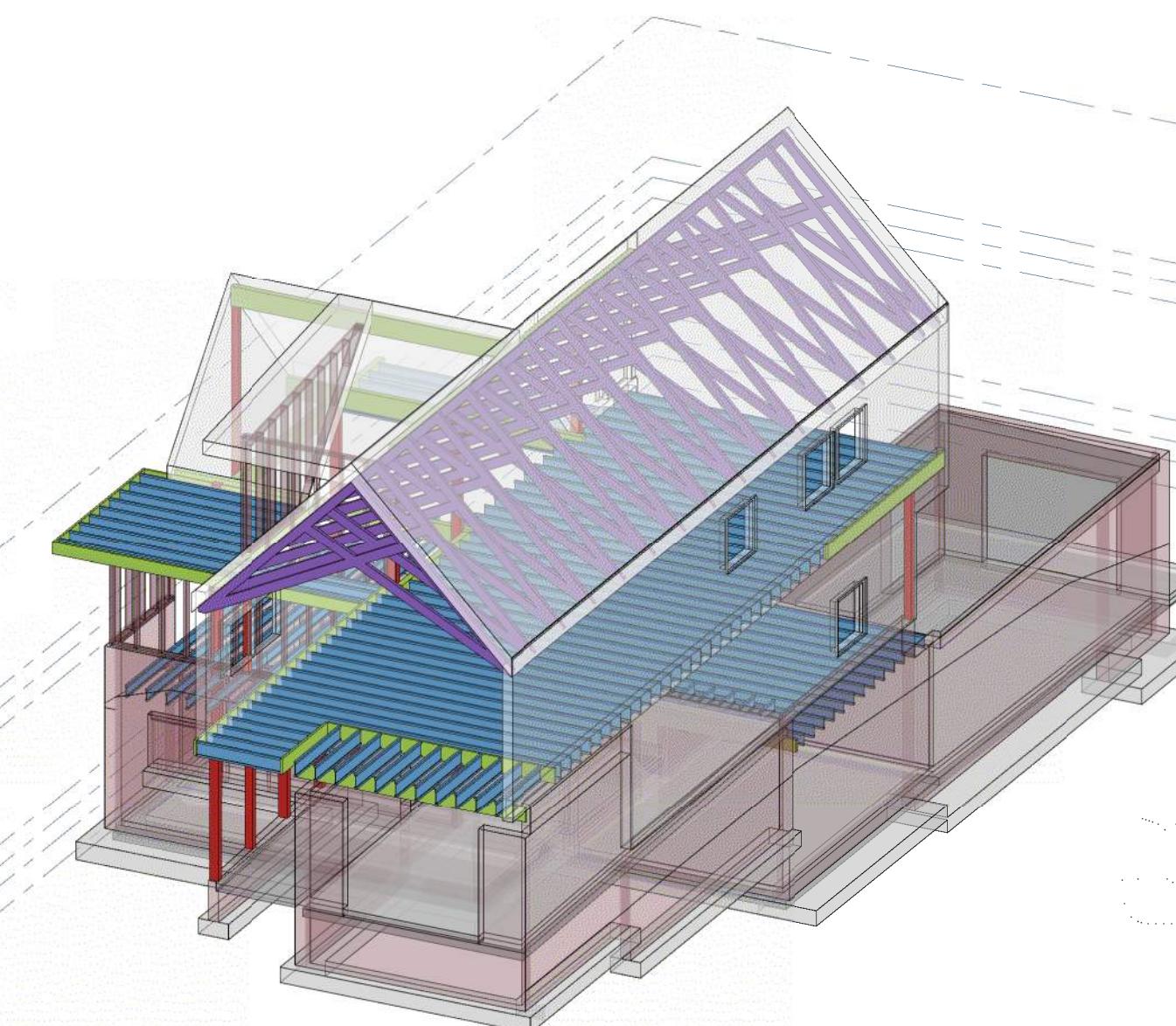




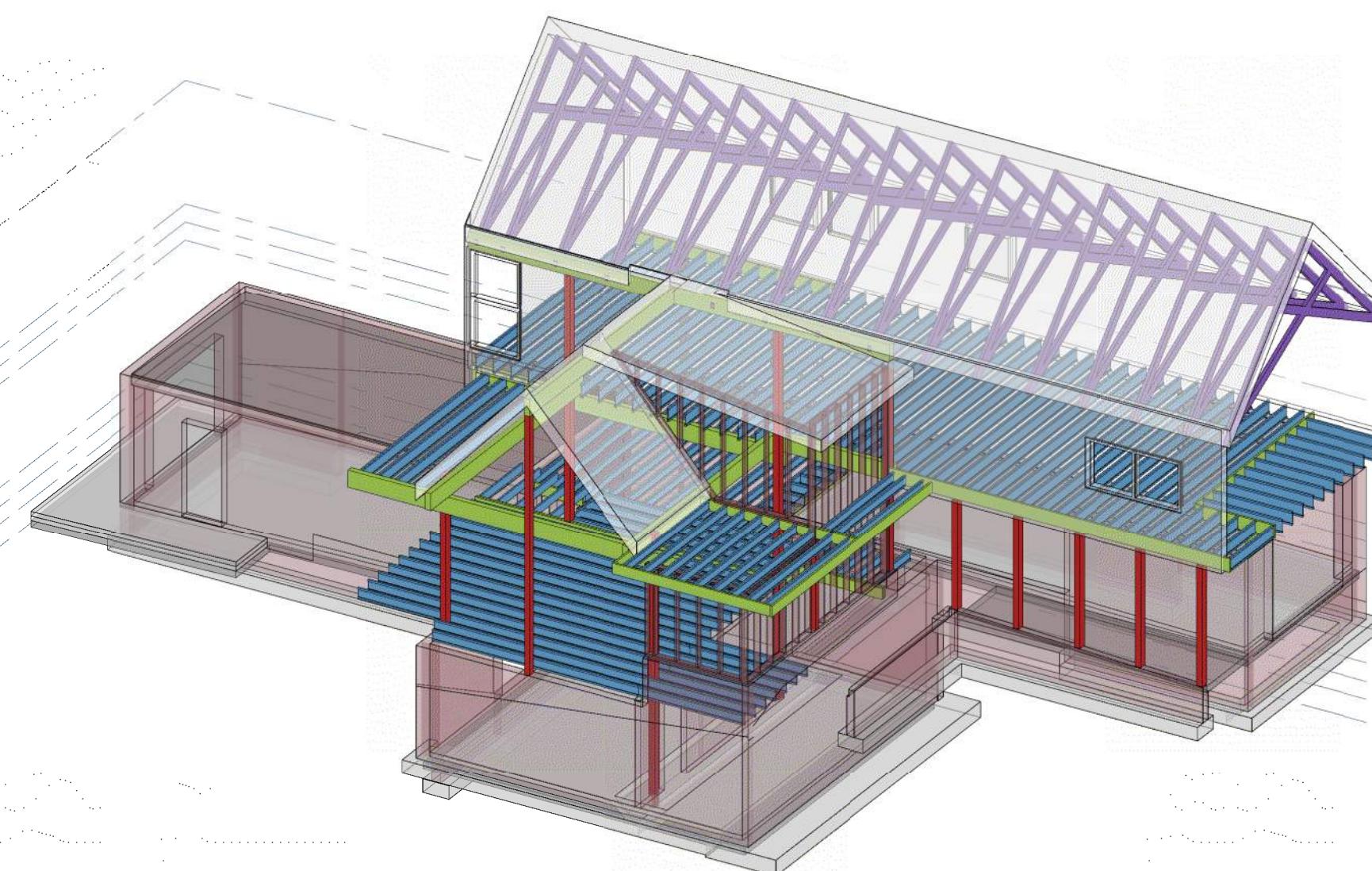
① STRUCTURAL - 3D - NORTHWEST



② STRUCTURAL - 3D - NORTHEAST



③ STRUCTURAL - 3D - SOUTHEAST



④ STRUCTURAL - 3D - SOUTHWEST



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FRAMING - 3D

S150

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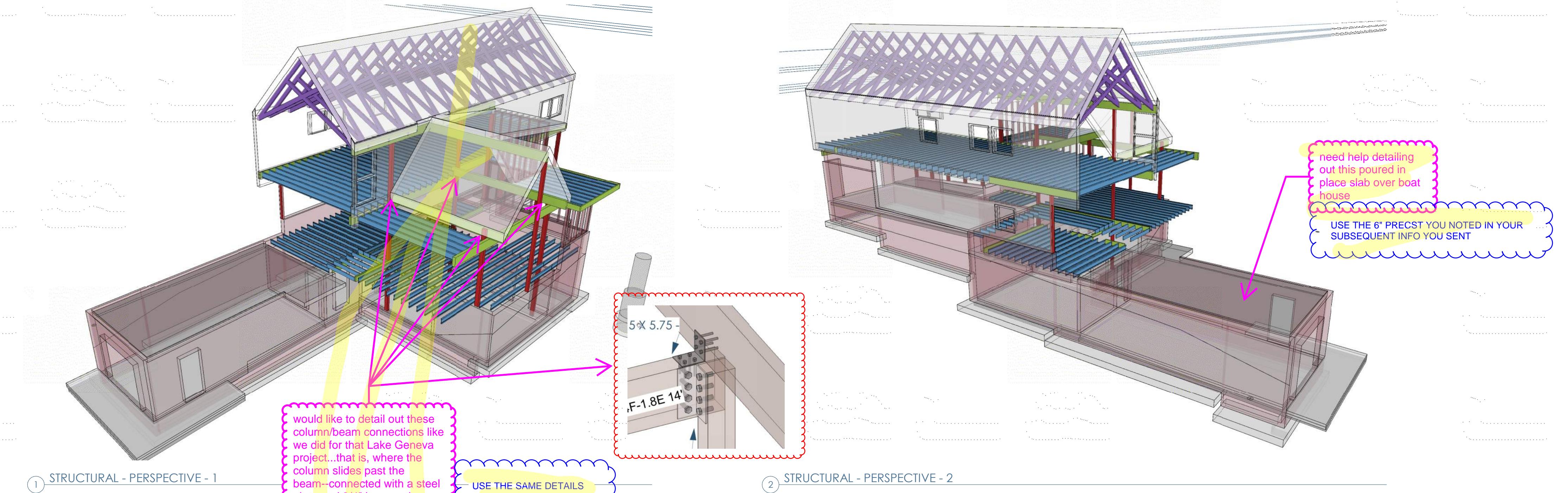
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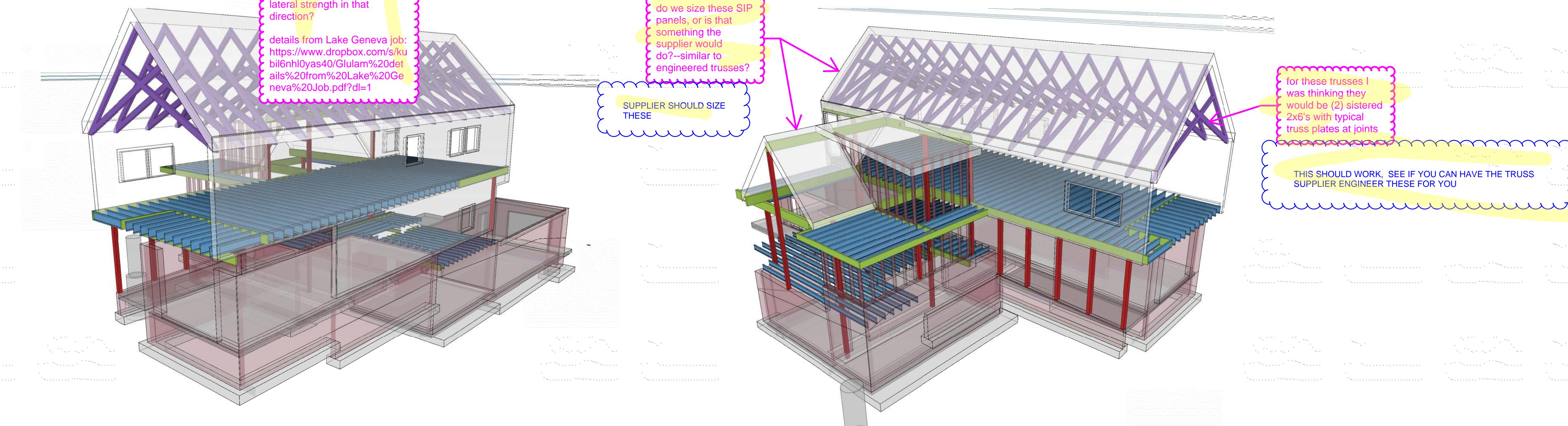
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