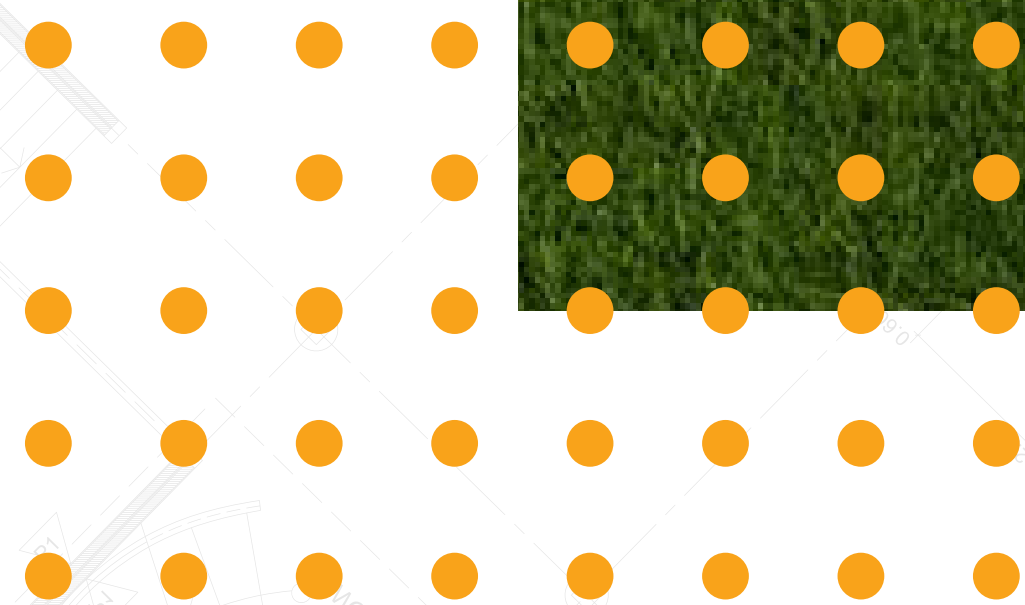


# Structural Plan Set for **Residential Addition** and **Renovation** – Wisconsin







- ◆ **01 Project Title:** Structural Plan Set for Residential Addition and Renovation – Wisconsin
- ◆ **02 Start Date:** 3rd March 2025
- ◆ **03 Completion Date:** 12th March 2025
- ◆ **04 Project Information:** The client required assistance in the Structural design and drafting for the upcoming addition and renovation of a residential house.
- ◆ **05 Scope of Work/Deliverables:**
  - a. Assistance in Structural Design for the addition/renovation of a Residential Project
  - b. Drafting the structural set of the project
- ◆ **06 Milestones:**
  - 01: Compiling the Design Criteria
  - 02: Gravity Design
  - 03: Lateral Design
  - 04: Connection Design
  - 05: Roof Design
  - 06: 1st and 2nd Floor Ceiling Framing Design
  - 07: Drafting the Structural Set
- ◆ **07 Compliances:** UNCS, SC Building Code, ASTM D4761, ASTM D4761, ACI 318
- ◆ **08 Communication:** Milestone-based meetings with the client (virtually) followed by emails.
- ◆ **09 Challenges:** NA
- ◆ **10 Our Solution:** Our team assisted in the structural design for the residential house and compiled the complete design report for the project on time with defined quality standards.
- ◆ **11 Feedback:** The client is happy with our services, and we have collaborated on multiple projects since then.
- ◆ **12 Software:** RISA 3D, Excel, AutoCAD
- ◆ **13 Project Status:** Completed.

PROJECT :  
**DOBSON RESIDENCE, ADDITION & REMODEL**  
 4174 SHERMAN ROAD SLINGER, WI 53086



PROJECT LOCATION

DRAWING INDEX

- T1.0 COVER SHEET
- C1.0 SITE SURVEY
- A1.0 EXISTING FLOOR PLANS
  - A1.1 1ST FLOOR PROPOSED PLAN
  - A1.2 2ND FLOOR PROPOSED PLAN
  - A1.3 ROOF PROPOSED PLAN
- A2.0 EXISTING ELEVATIONS
  - A2.1 PROPOSED ELEVATIONS
  - A2.2 PROPOSED ELEVATIONS
- A3.0 GARAGE SECTION
  - A3.1 SECTIONS
- S1.0 FOUNDATION PLAN
  - S1.1 1ST FLOOR STRUCTURAL PLAN
  - S1.2 2ND FLOOR STRUCTURAL PLAN
  - S1.3 ROOF STRUCTURAL PLAN
- S2.0 STRUCTURAL DETAILS

ZONING INFORMATION:

ZONED A-1 (17.3.03 A-1 GENERAL  
 AGRICULTURAL DISTRICT)  
 ACREAGE: 10.04  
 RECORDED CSM: #5592  
 WETLANDS ON PROPERTY?: NO

SETBACKS:

STREET YARD SETBACK: MIN. 150FT FROM  
 CL OF ROAD OR 110FT FROM ROW  
 SIDE YARD SETBACK: MIN. 30FT  
 REAR YARD SETBACK: MIN. 40FT



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DOBSON  
 RESIDENCE

4174 SHERMAN ROAD  
 SLINGER WI 53086

SHEET TITLE  
 TITLE PAGE

PROJECT NO. 000

DATE 11-19-2024

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DRAWN BY

SHEET T1.0



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SHEET TITLE  
 EXISTING FLOOR PLANS

PROJECT NO. 000

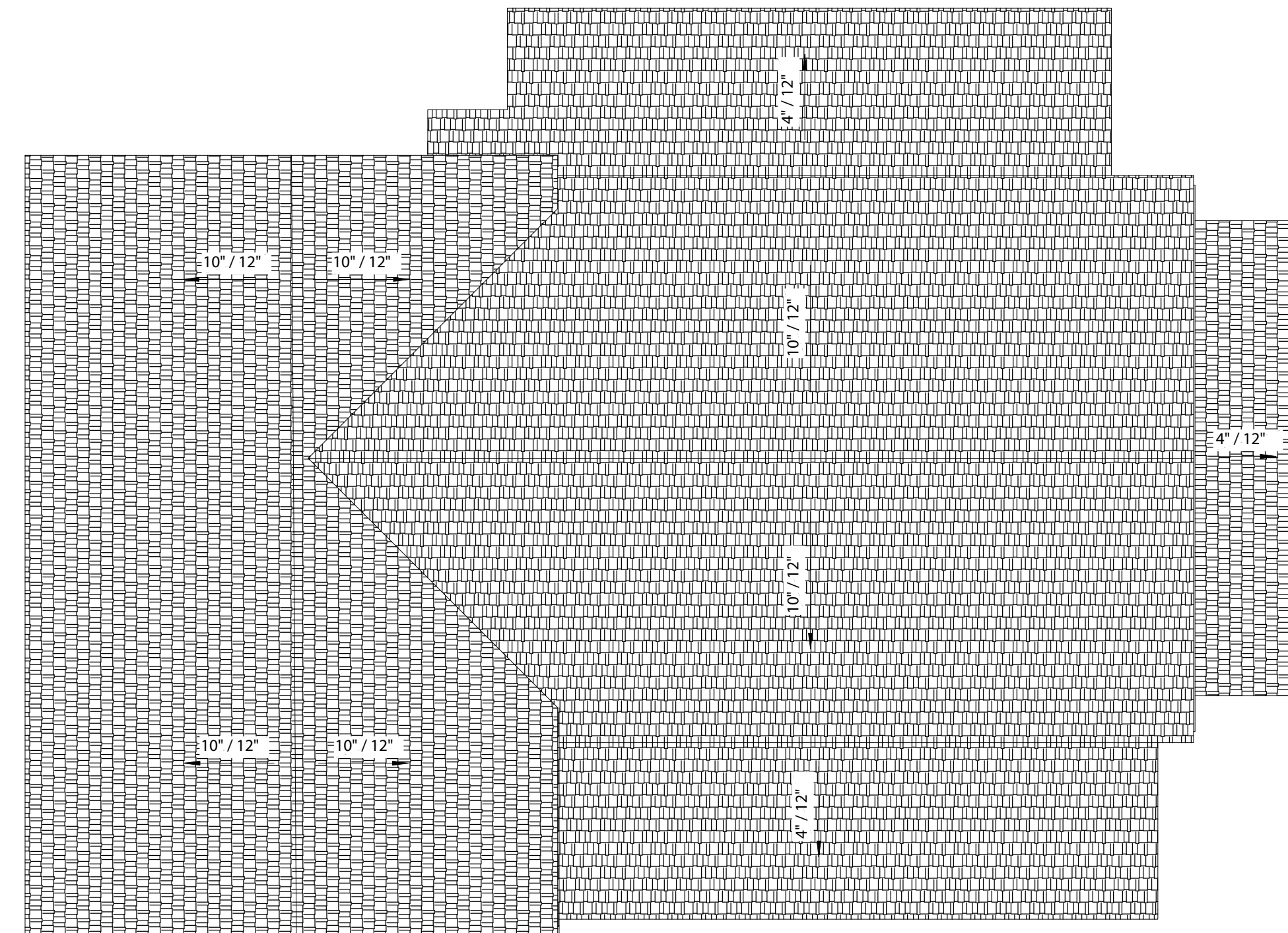
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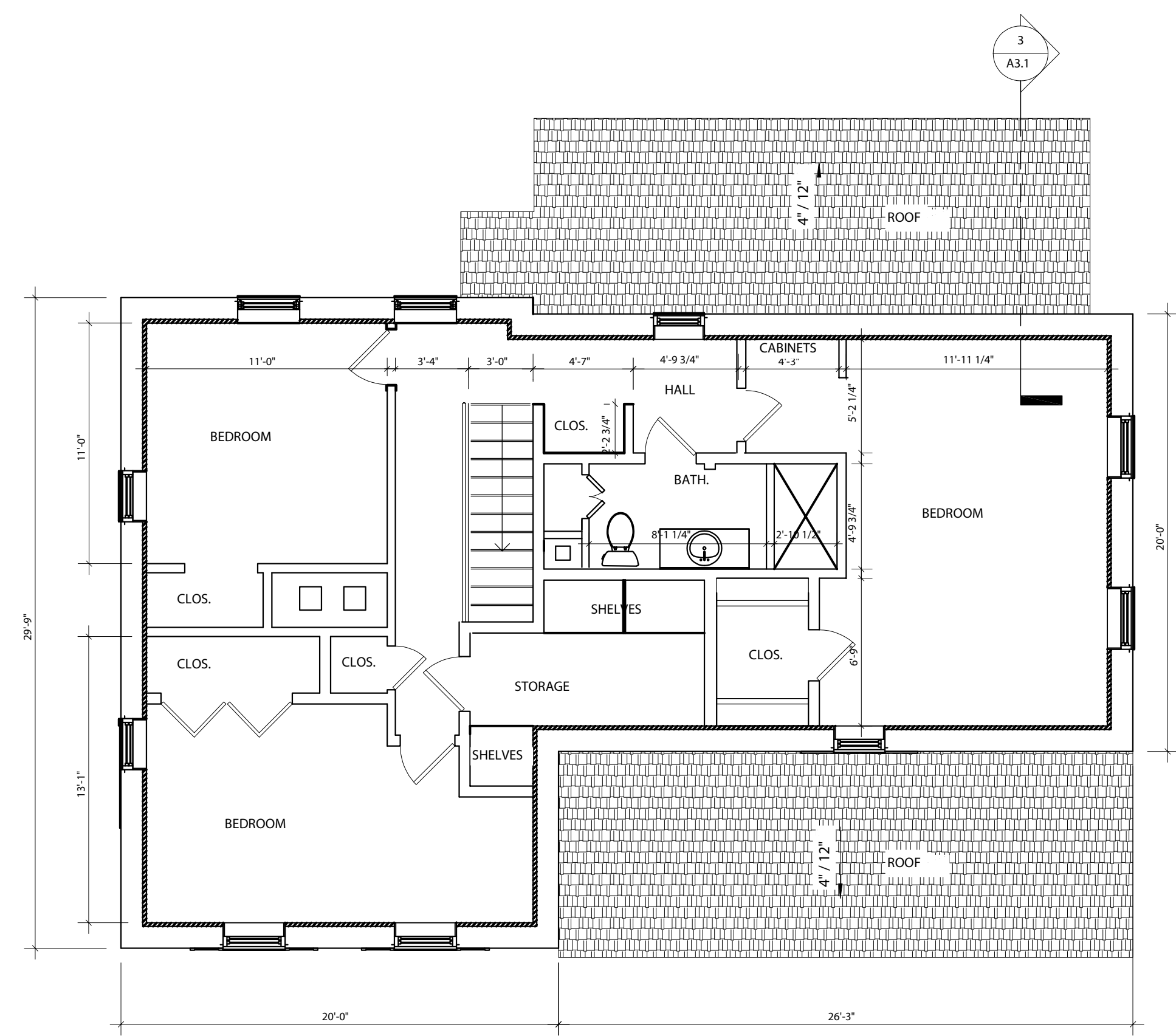
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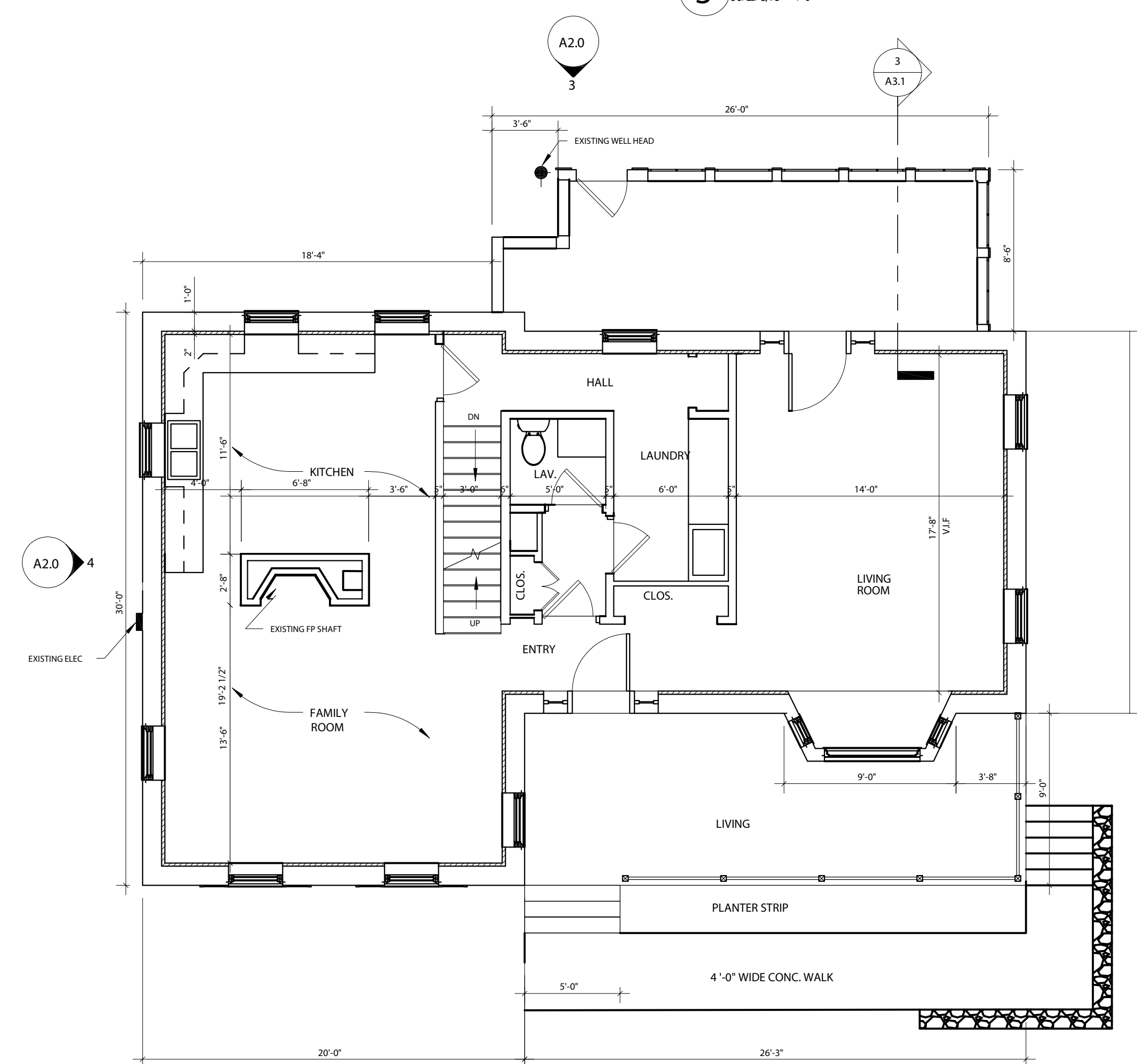
SHEET A1.0



3 ROOF - EXIST. PLAN  
 SCALE: 3/16" = 1'-0"



2 2ND FLOOR - EXIST. PLAN  
 SCALE: 3/16" = 1'-0"



1 1ST FLOOR - EXIST. PLAN  
 SCALE: 3/16" = 1'-0"



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SHEET TITLE  
 1ST FLOOR  
 PROPOSED PLAN

PROJECT NO. 000

DATE 12-5-24

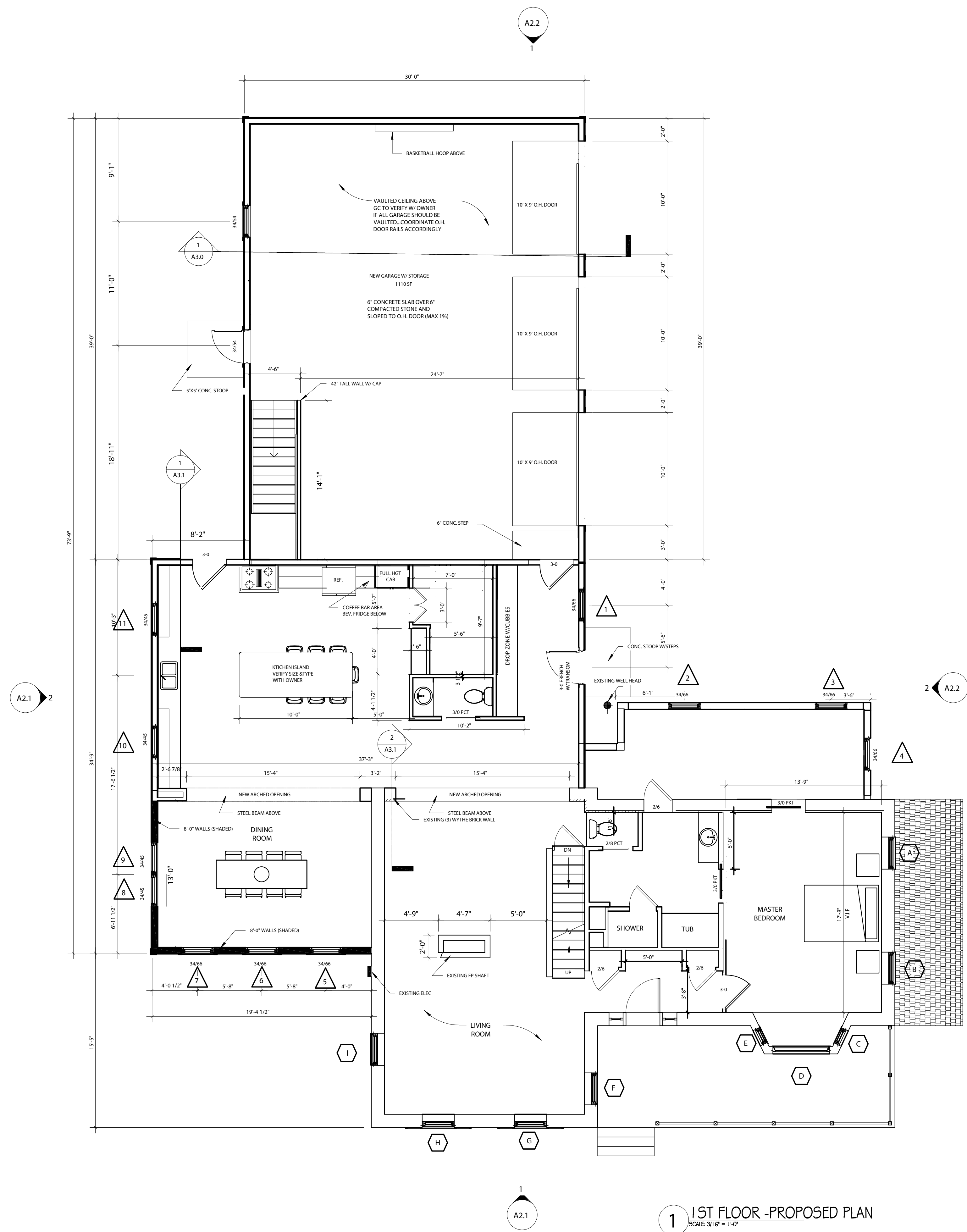
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SHEET

A1.1



1 1ST FLOOR -PROPOSED PLAN  
 SCALE: 3/16" = 1'-0"



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SHEET TITLE  
 2ND FLOOR  
 PROPOSED PLAN

PROJECT NO. 000

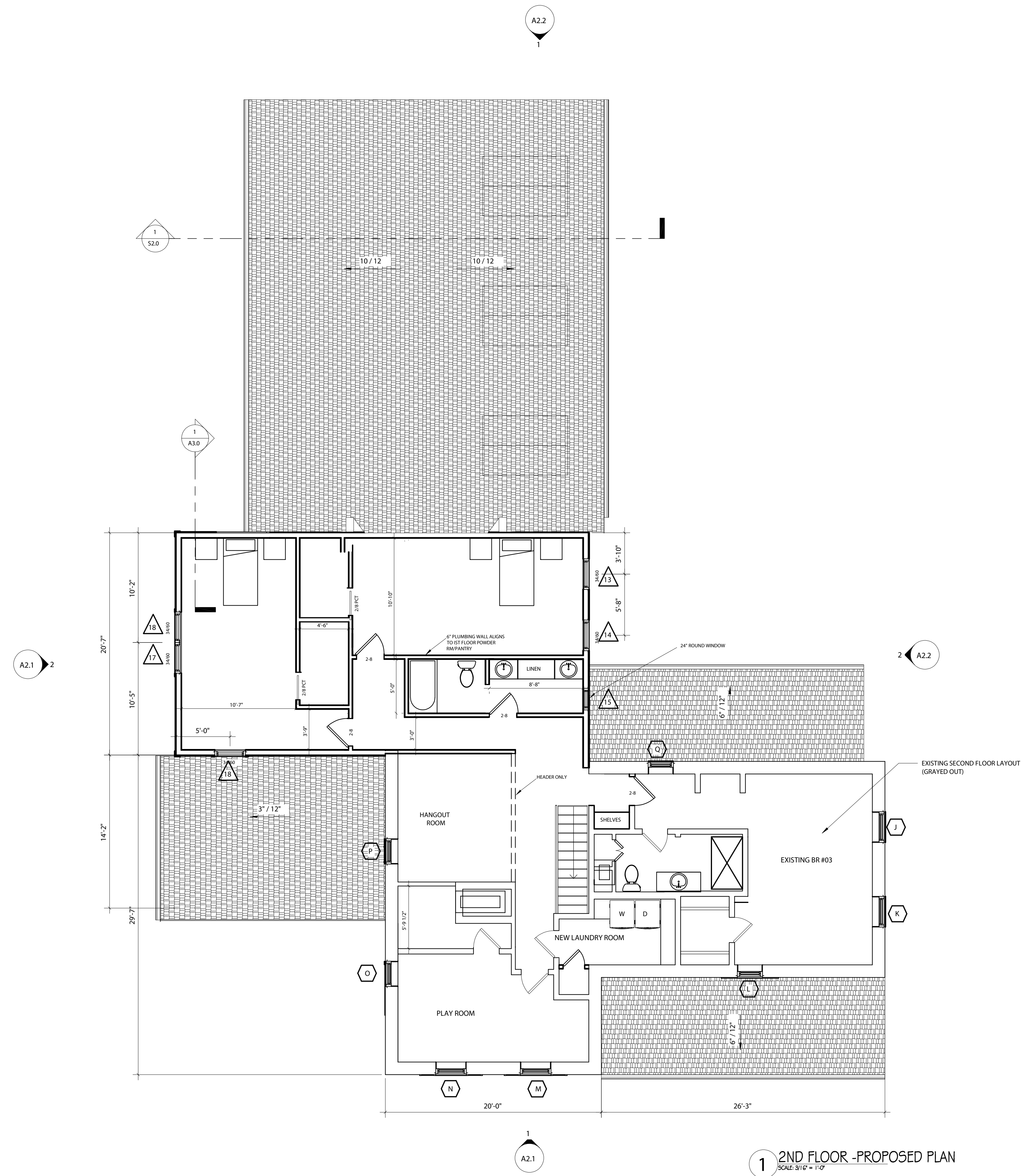
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1 2ND FLOOR - PROPOSED PLAN  
 SCALE: 3/16" = 1'-0"



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SHEET TITLE  
 ROOF PROPOSED PLAN

PROJECT NO. 000

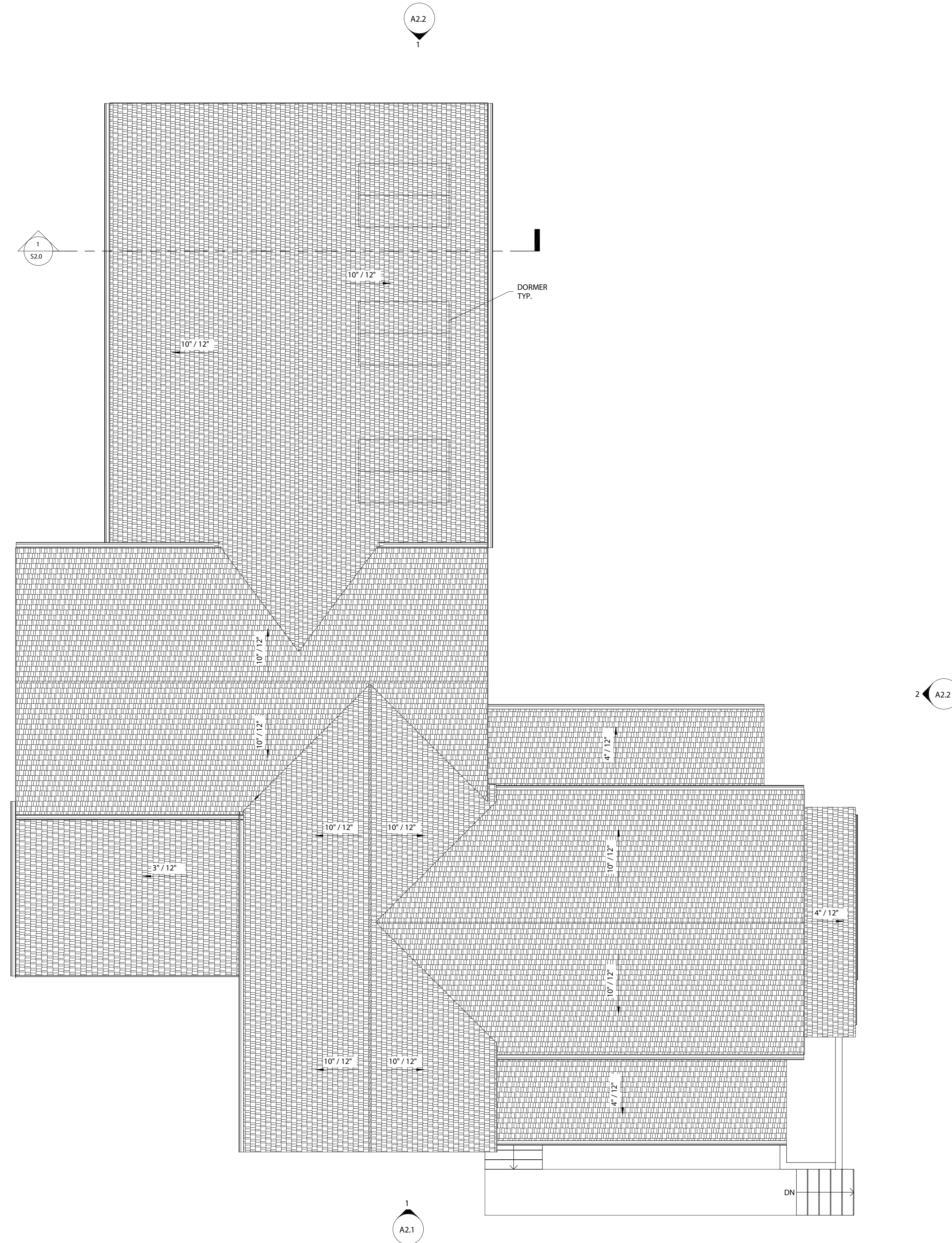
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SHEET A1.3



1 ROOF -PROPOSED PLAN  
SCALE: 3/16" = 1'-0"

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4174 SHERMAN ROAD  
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SHEET TITLE  
 EXISTING  
 ELEVATIONS

PROJECT NO. 000

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SHEET A2.0



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 SLINGER WI

SHEET TITLE  
 PROPOSED ELEVATIONS

PROJECT NO. 000

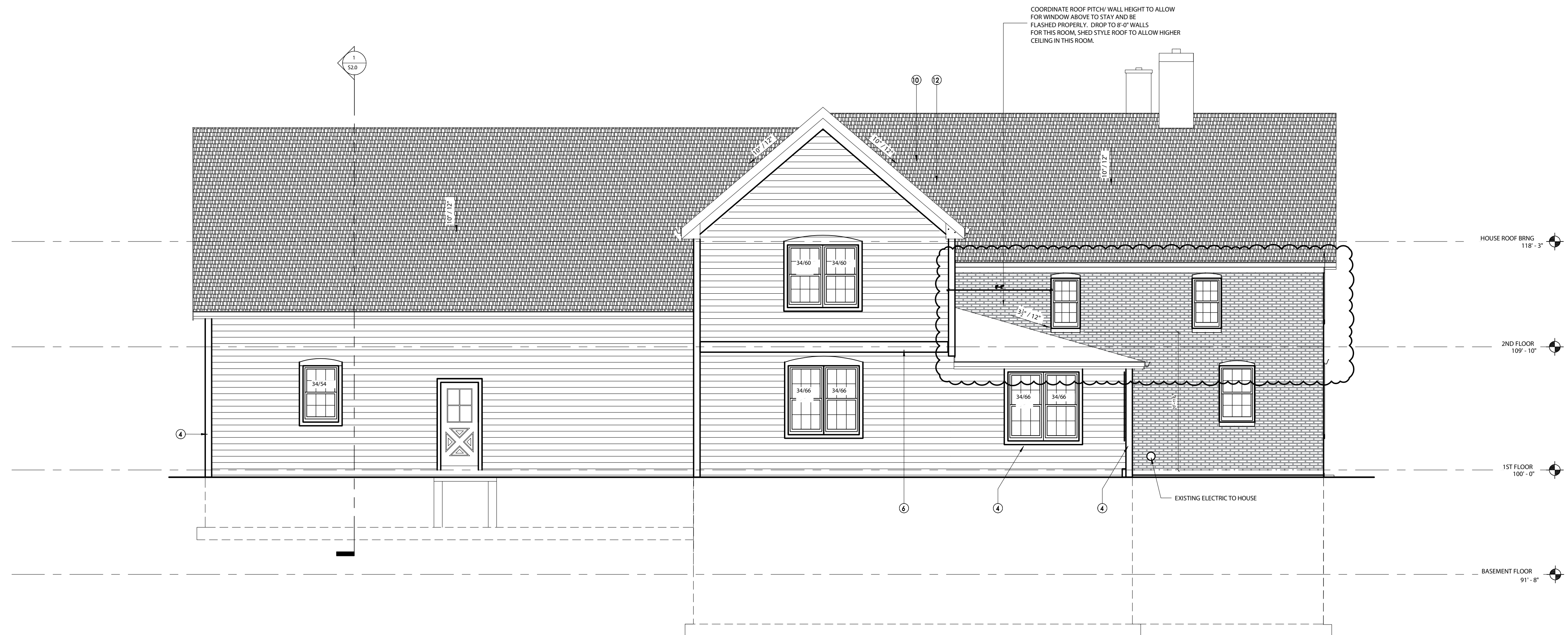
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SHEET A2.1



2 LEFT ELEV. - PROPOSED  
 SCALE: 3/16" = 1'-0"



1 FRONT ELEV. - PROPOSED  
 SCALE: 3/16" = 1'-0"

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SHEET TITLE  
 PROPOSED ELEVATIONS

PROJECT NO. 000

DATE 11-19-2024

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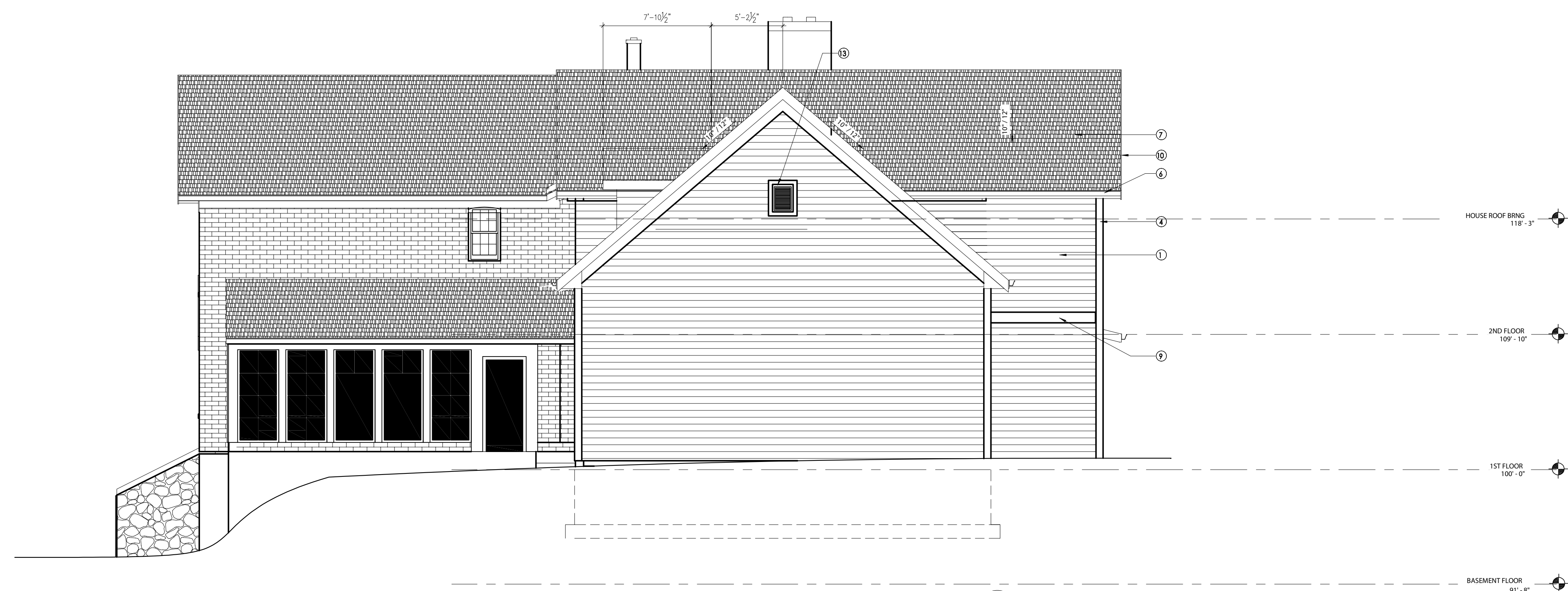
SHEET A2.2

ELEVATION KEYNOTES

- ① LP HORIZONTAL SMARTSIDE - SEE ELEVATIONS FOR LOCATIONS
- ② 3/4" NEW OH WINDOW - MATCH EXISTING HOUSE SIZE/TYPE/COLOR
- ③ 1X4 LP SMART TRIM - WINDOW AND DOOR TRIM
- ④ 1X4 LP SMART TRIM - CORNERS AND GARAGE DOORS
- ⑤ NEW GARAGE DOORS - GC TO VERIFY SIZE/TYPE/COLOR WITH OWNER
- ⑥ NEW GUTTERS & DOWNSPOUTS TO MATCH EXISTING
- ⑦ 30 YR ARCHITECTURAL SHINGLES - MATCH EXISTING IF NOT ENTIRE REPLACEMENT
- ⑧ LP VERTICAL SIDING PANEL - SEE ELEVATIONS FOR LOCATIONS
- ⑨ 1X10 LP BAND BOARD
- ⑩ FASCIA TRIM - GC TO VERIFY STYLE DESIRED BY OWNER
- ⑪ 1X4 COMPOSITE FASCIA TRIM OVER 1X8 SUB TRIM
- ⑫ 1x8 LP FREEZE TRIM
- ⑬ LOUVER VENT WITH 1X4 TRIM - CONFIRM STYLE W/ OWNER

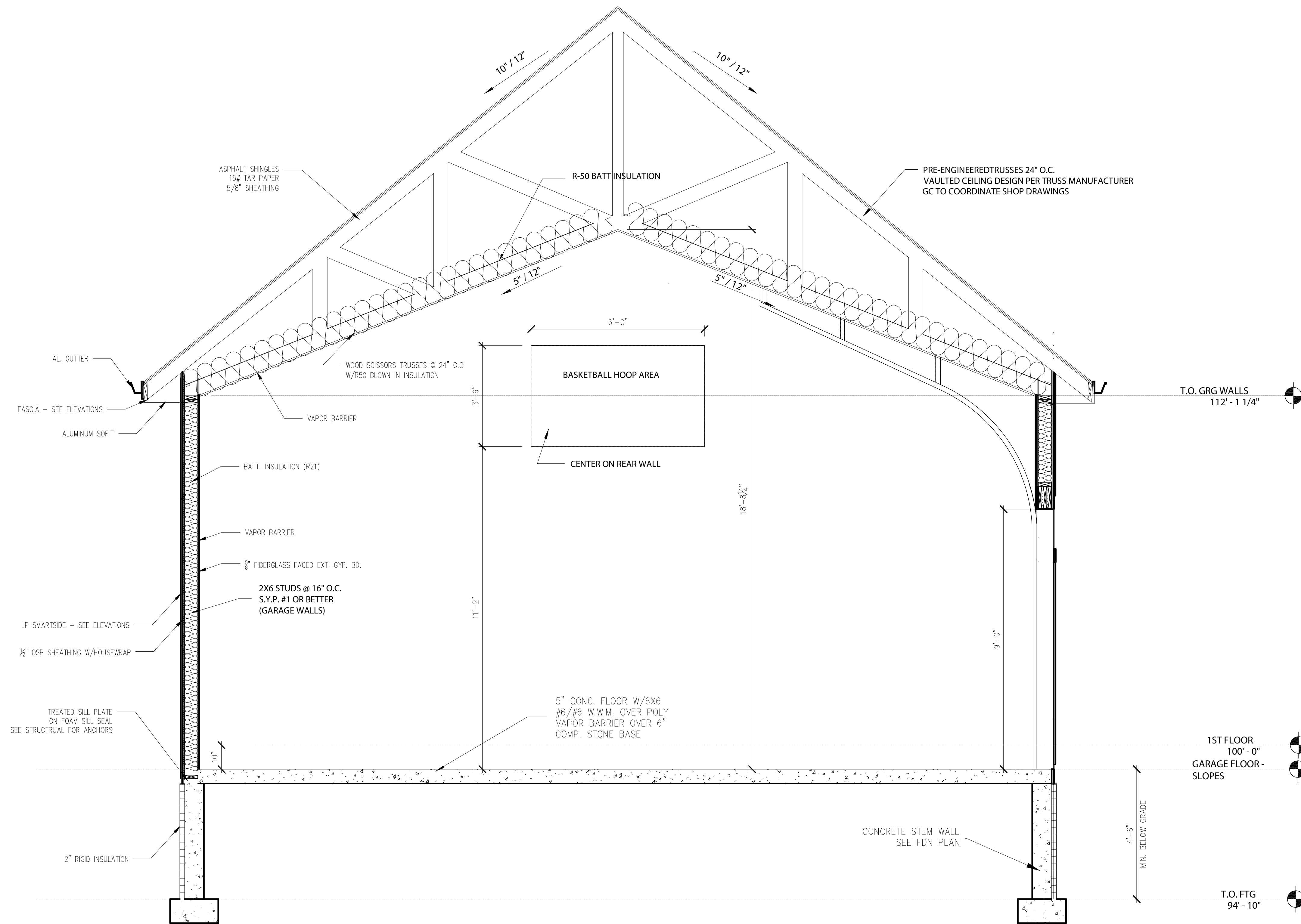


2 RIGHT ELEV. - PROPOSED  
 SCALE: 3/16" = 1'-0"



1 REAR ELEV. - PROPOSED  
 SCALE: 3/16" = 1'-0"

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1 GARAGE SECTION  
 SCALE: 1/2" = 1'-0"

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 SLINGER WI

SHEET TITLE  
 GARAGE SECTION

PROJECT NO. 000

DATE 11-19-2024

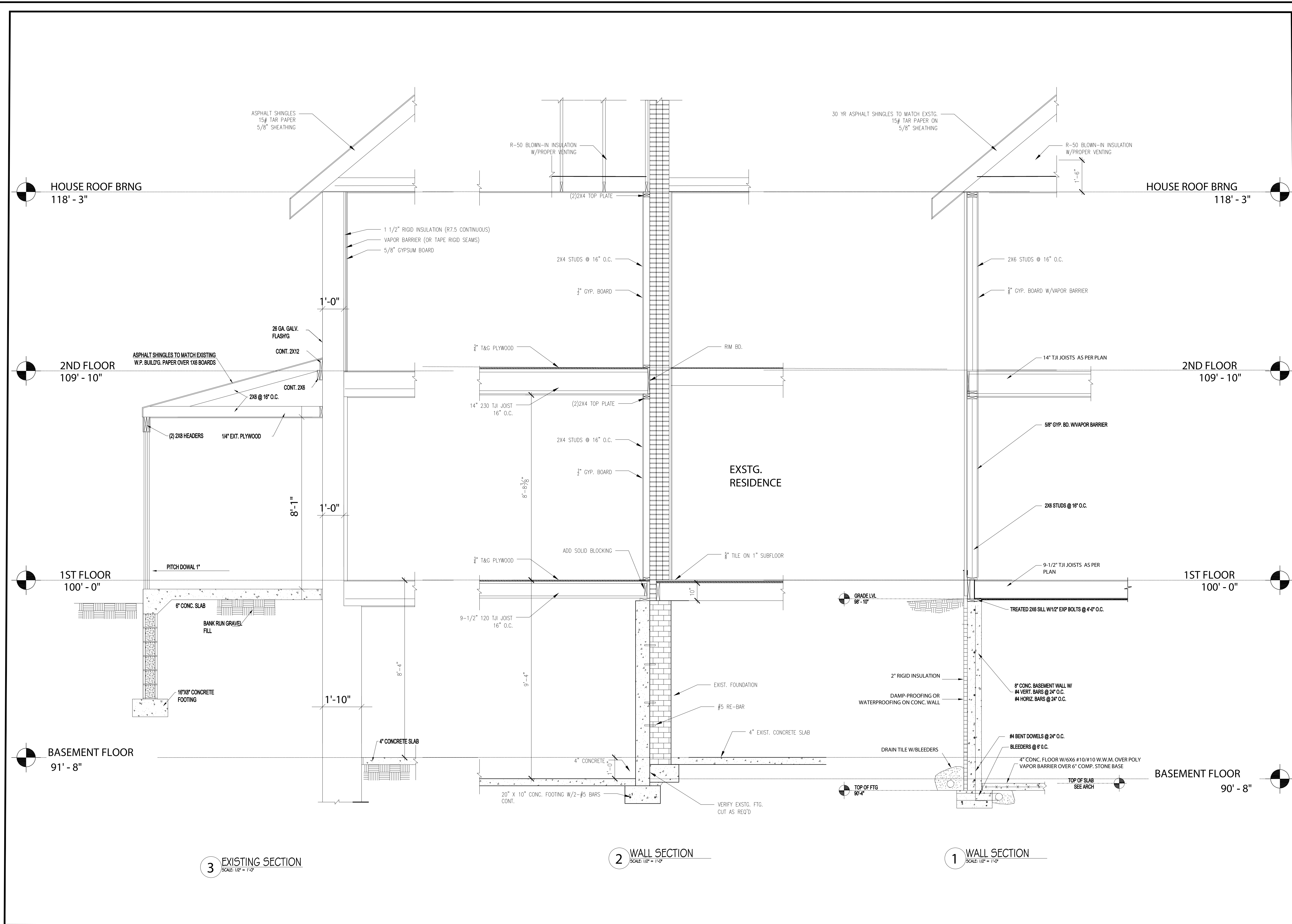
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SHEET TITLE  
 SECTIONS

PROJECT NO. 000

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SHEET TITLE  
 FOUNDATION PLAN

PROJECT NO. 000

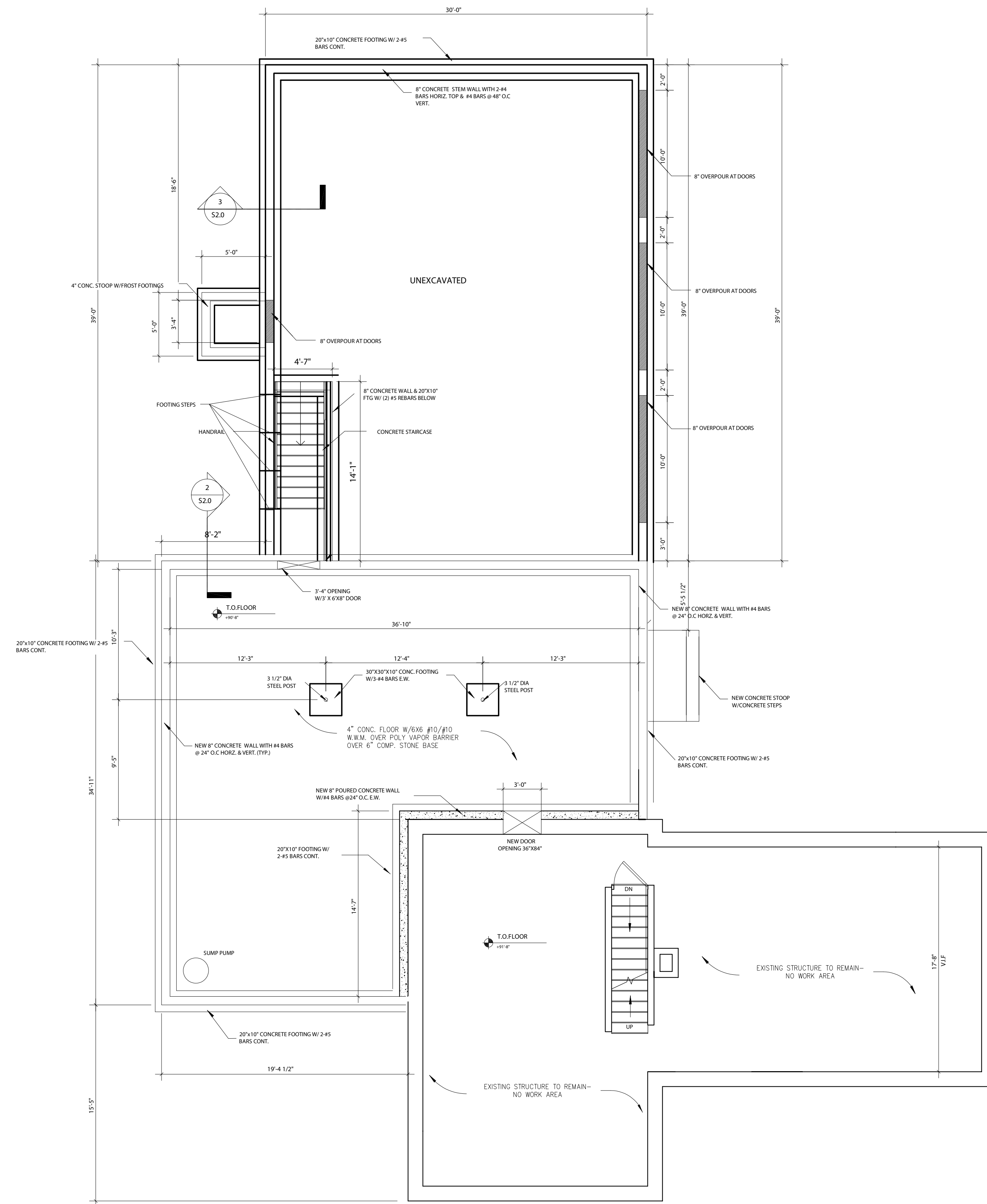
DATE 12-5-24

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SHEET S1.0



NOTES:

- ALL PROPOSED WALLS SHALL BE 2X6 STUDS @ 16" O.C. U.N.O.
- ALL PROPOSED WOOD HEADERS SHALL BE SPF #1 / #2 U.N.O., ALL STUDS SHALL BE SPF STUD GRADE U.N.O.
- ALL CONCRETE FOUNDATIONS SHALL BE MIN. 3000 PSI U.N.O.

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





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SLINGER WI

SHEET TITLE  
2ND FLOOR STRUCTURAL PLAN

PROJECT NO. 000

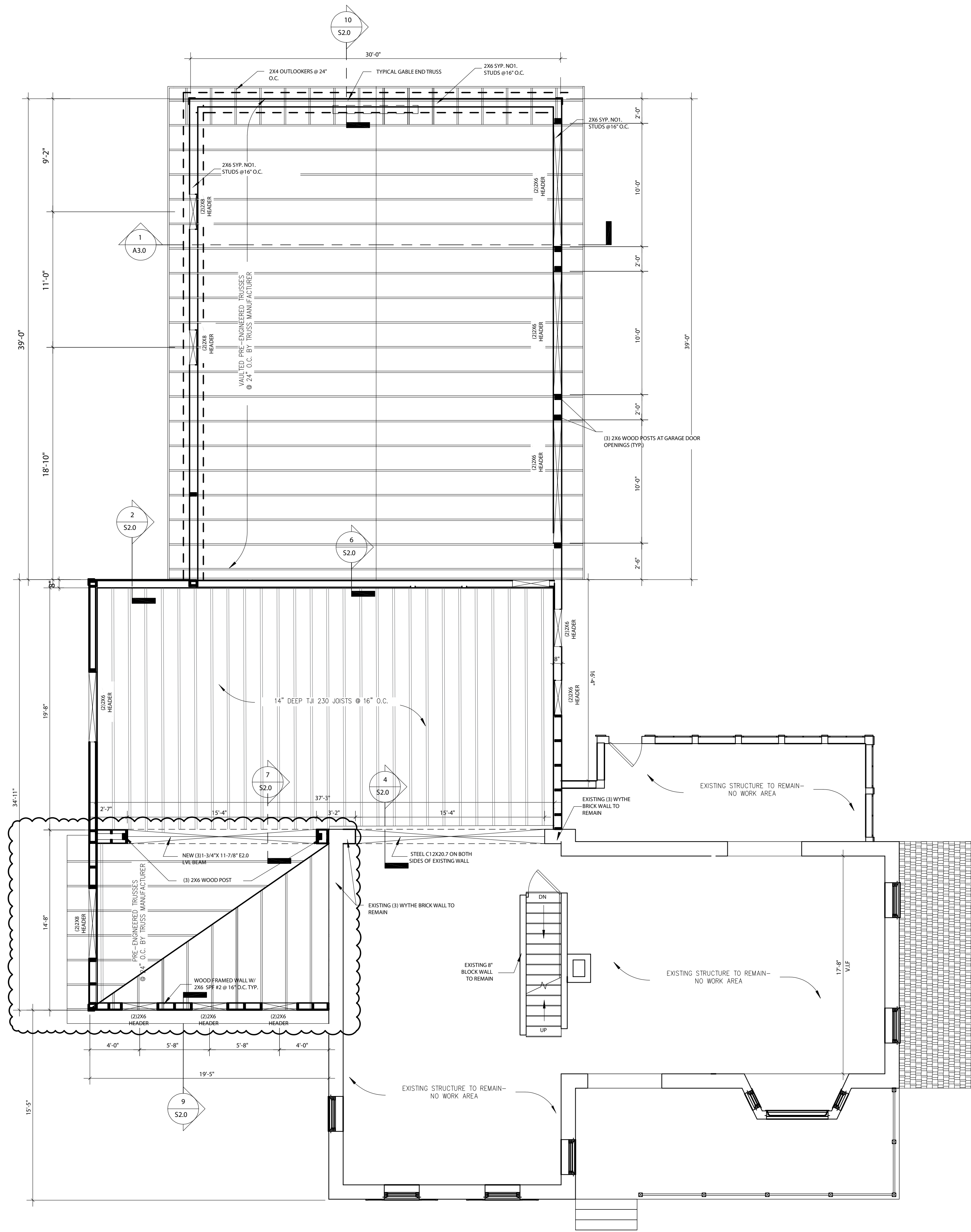
DATE 11-20-2024

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SHEET S1.2



1 2ND FLOOR STRUCTURAL PLAN  
SCALE: 3/16" = 1'-0"

NOTE: -  
SPF #1/2  
(2)2X6  
HEADER



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4174 SHERMAN ROAD  
 SLINGER WI

SHEET TITLE  
 ROOF STRUCTURAL PLAN

PROJECT NO. 000

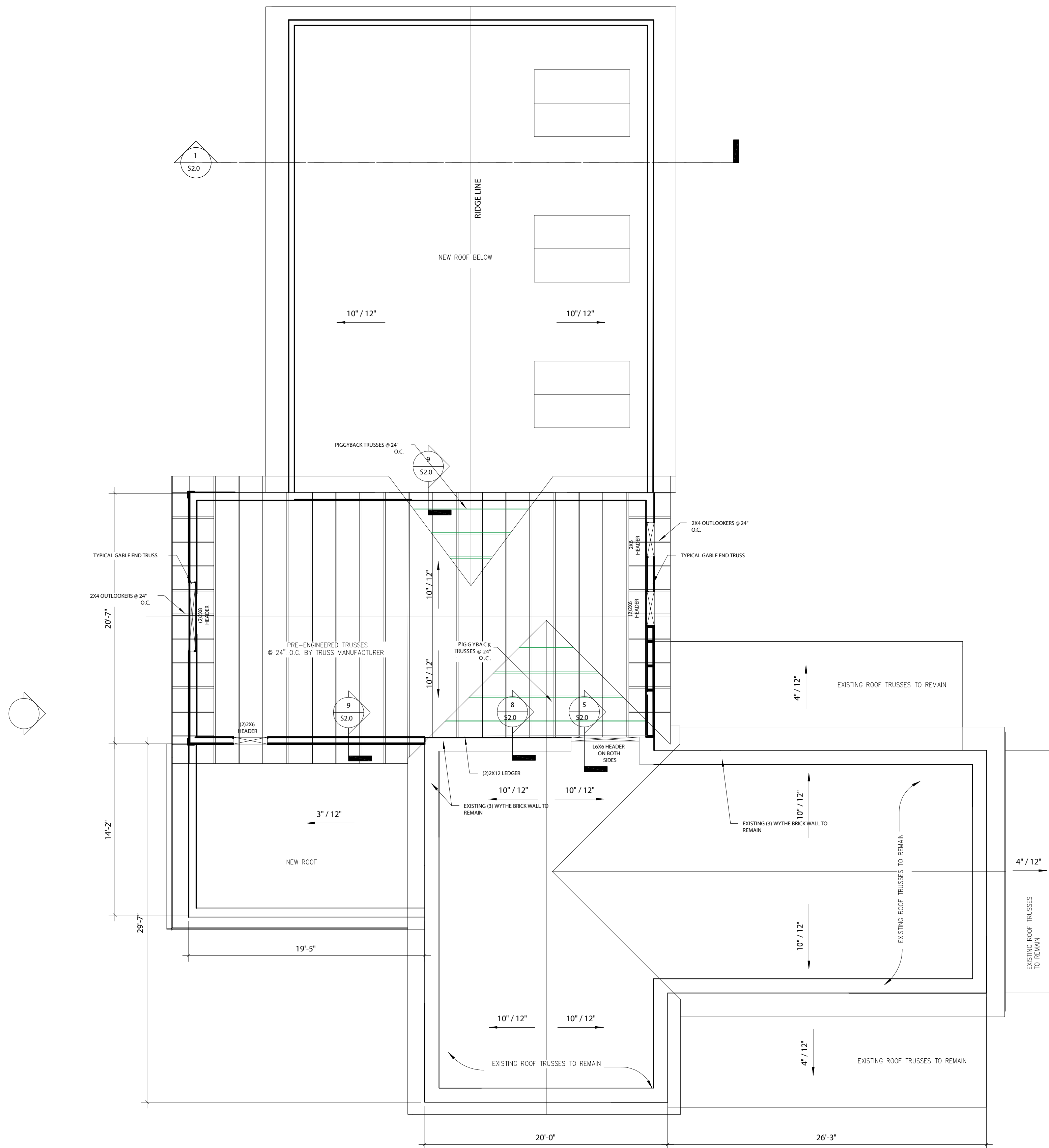
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SHEET S1.3



1 ROOF STRUCTURAL PLAN  
 SCALE: 3/16" = 1'-0"

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4174 SHERMAN ROAD  
SLINGER WI

SHEET TITLE  
STRUCTURAL  
DETAILS

PROJECT NO. 000

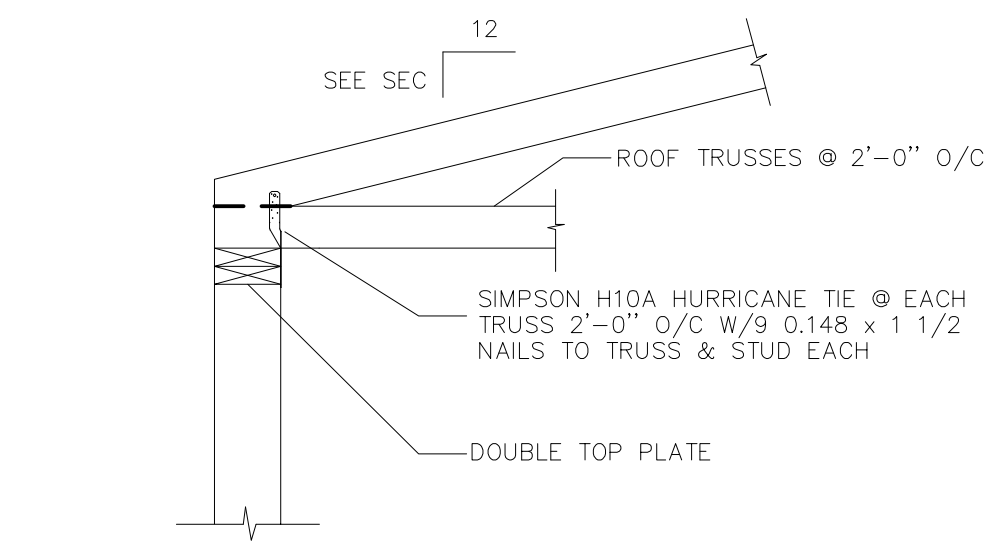
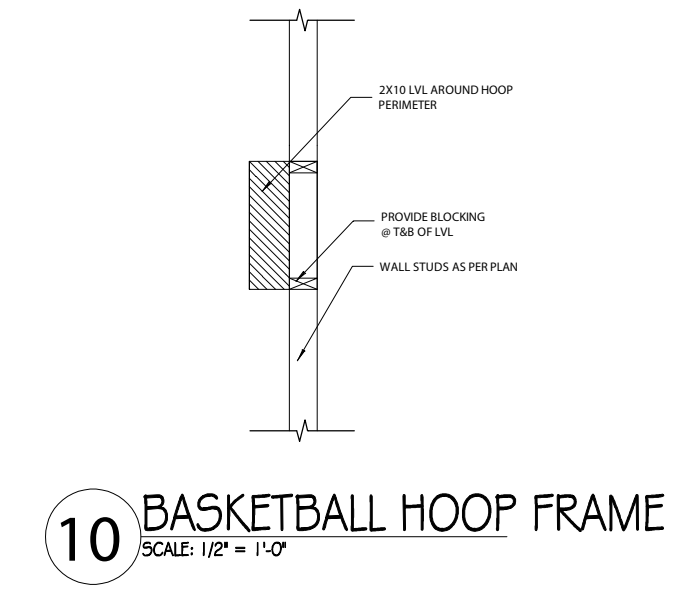
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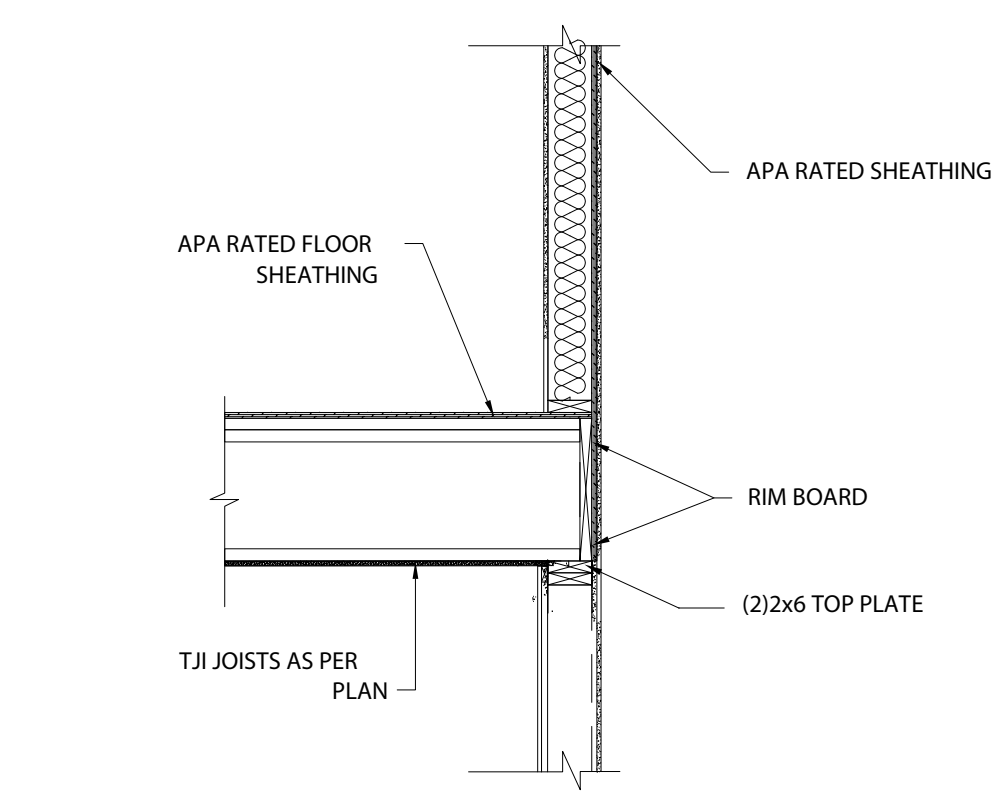
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SHEET S2.0

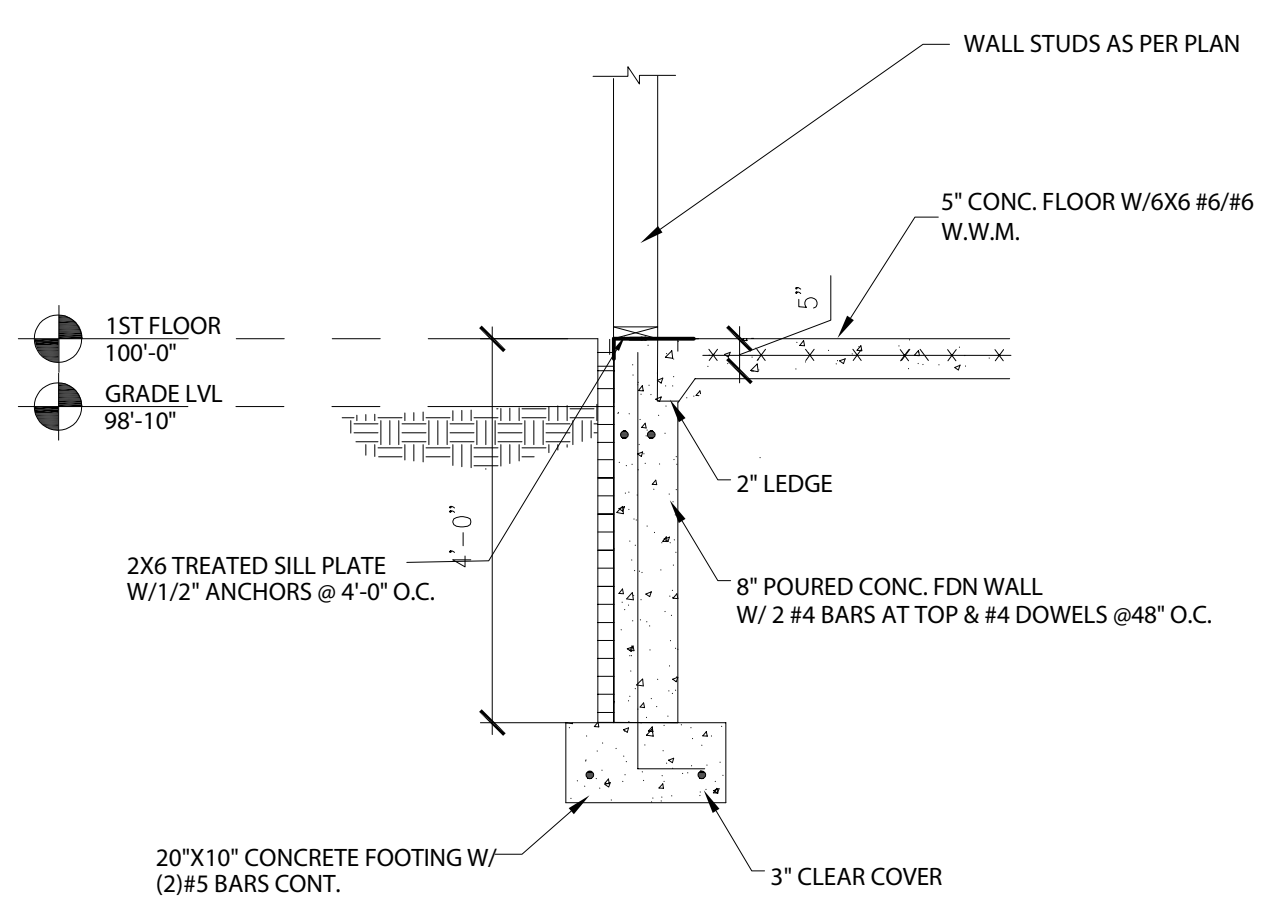


- FOR TRUSSES @ 2'-0" o/c AND STUDS @ 16" o/c, USE SIMPSON H10A HURRICANE TIE  
- SIMILAR FOR FLOOR TRUSSES AND FOR INTERIOR WALLS.

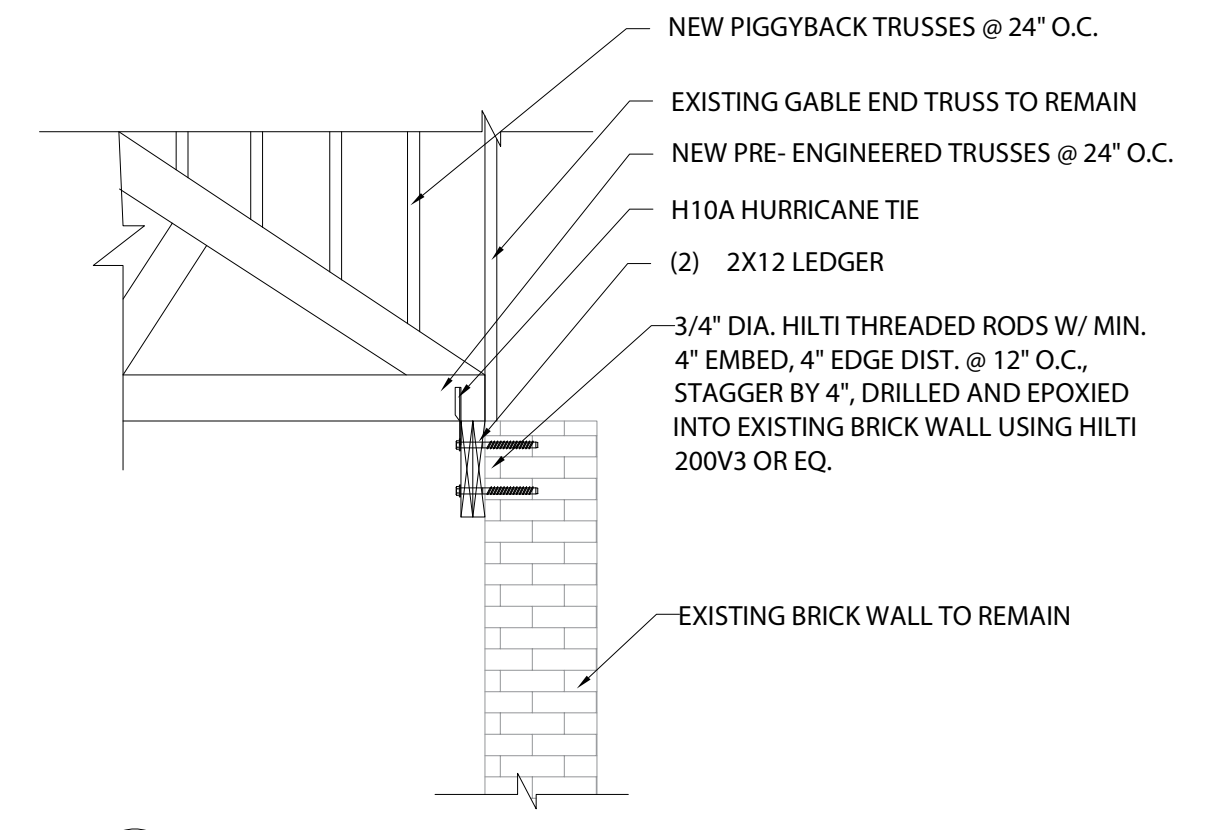
9 TRUSS BRG. DETAIL  
SCALE: 1/2" = 1'-0"



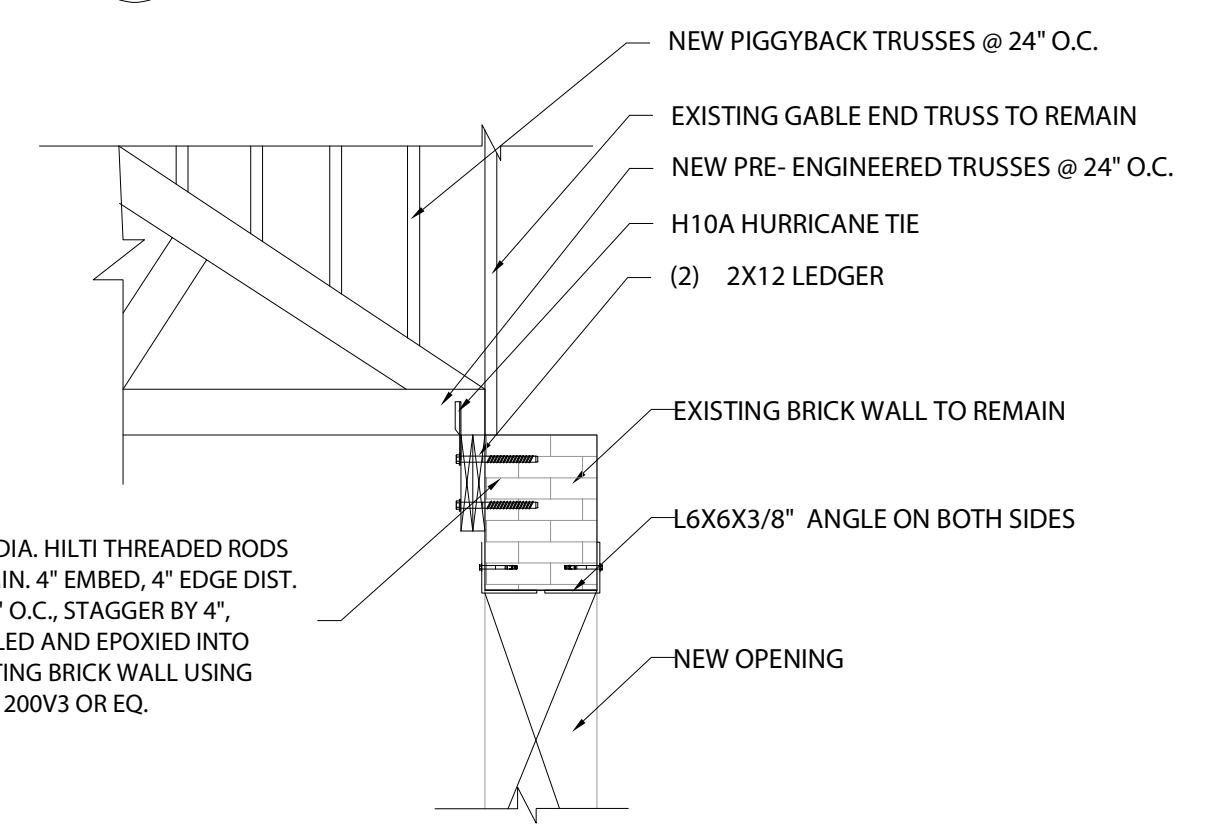
6 TYP. I-JOIST CONNECTION  
SCALE: 1/2" = 1'-0"



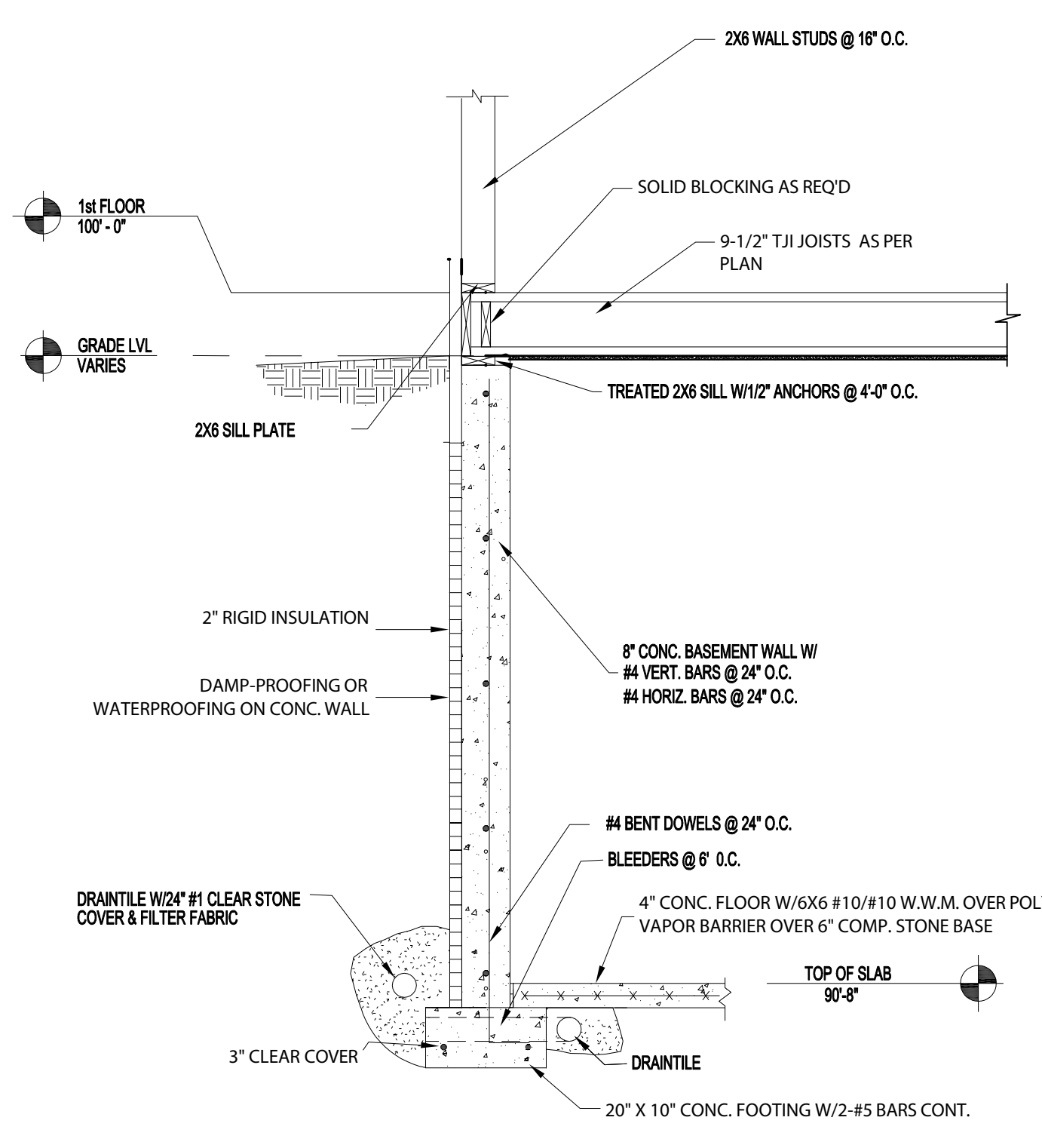
3 TYP. GARAGE FDN WALL DETAIL  
SCALE: 1/2" = 1'-0"



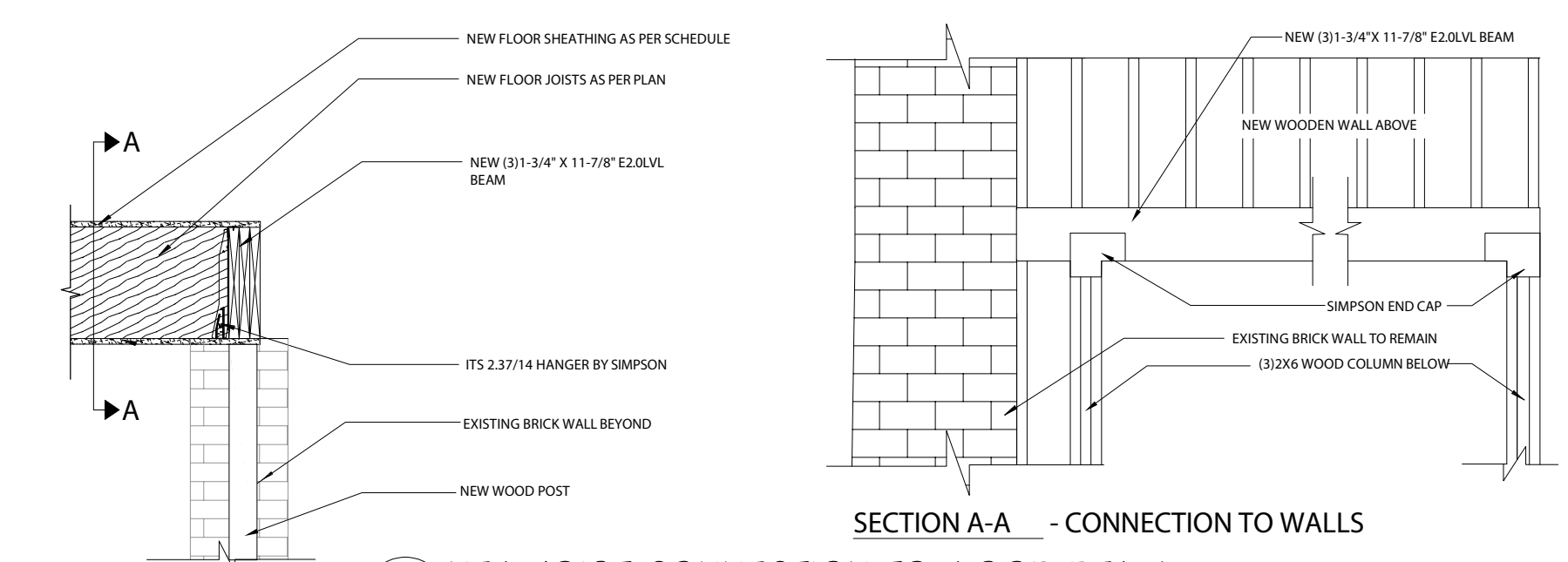
8 NEW ROOF CONNECTION DETAIL  
SCALE: 1/2" = 1'-0"



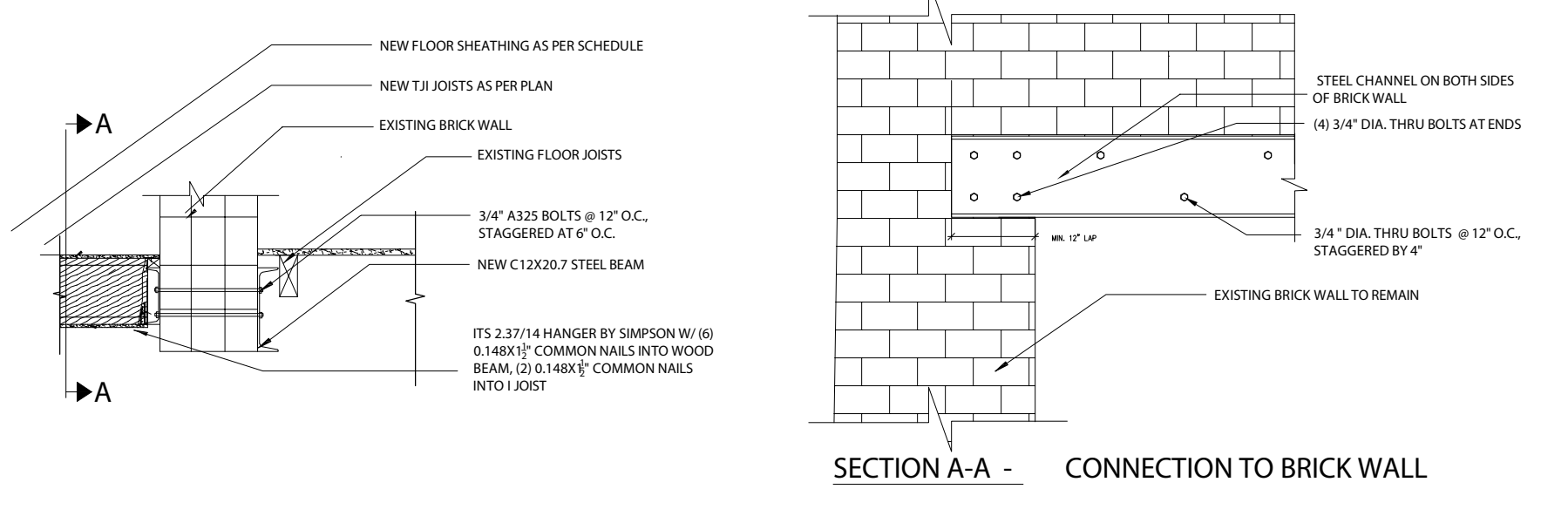
5 NEW ROOF CONNECTION DETAIL 2  
SCALE: 1/2" = 1'-0"



2 TYP. BASEMENT WALL DETAIL  
SCALE: 1/2" = 1'-0"



7 NEW JOIST CONNECTION TO WOOD BEAM  
SCALE: 1/2" = 1'-0"



4 TYP. I-JOIST TO STEEL BEAM CONNECTION  
SCALE: 1/2" = 1'-0"

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We're here to help!

**Learn more about how we can support your project needs.**



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Reach us at:  
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**Book a Meeting Now**