



# Chris Schenkenberger

## 26X32 HERITAGE GARAGE

# June 2022

### GENERAL NOTES:

ALL CONSTRUCTION PROCEDURES REFERENCED IN THIS PLAN ARE TO MEET OR EXCEED REQUIREMENTS IN THE 2019 RESIDENTIAL CODE OF OHIO (RCO).

SOIL BEARING DESIGN ASSUMED TO BE MIN. 1,500 PSF AT FOOTING DEPTH.

CONCRETE STRENGTH FOR FOOTERS SHALL BE MINIMUM 3,000 PSF AT 30 DAYS  
CONCRETE STRENGTH FOR SLABS SHALL BE MINIMUM 4,000 PSF AT 30 DAYS  
WITH 6% AIR ENTRAINMENT.

### DESIGN CRITERIA:

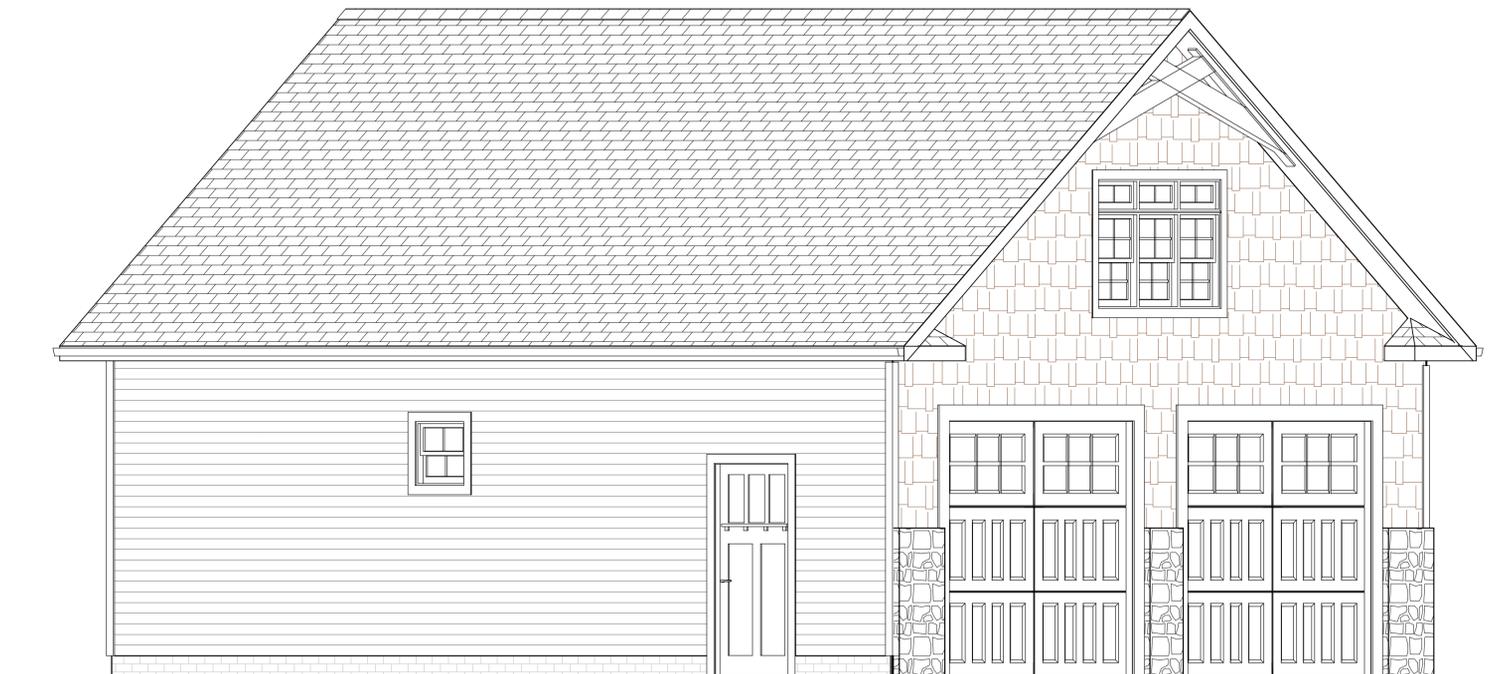
**BUILDING DESIGN:**  
GROUND SNOW LOAD: 25 PSF  
FLOOR LIVE LOAD (MAIN FLOOR): 100 PSF  
FLOOR LIVE LOAD (ATTIC ROOM): 40 PSF  
WIND: 115 MPH (3-SECOND GUST)

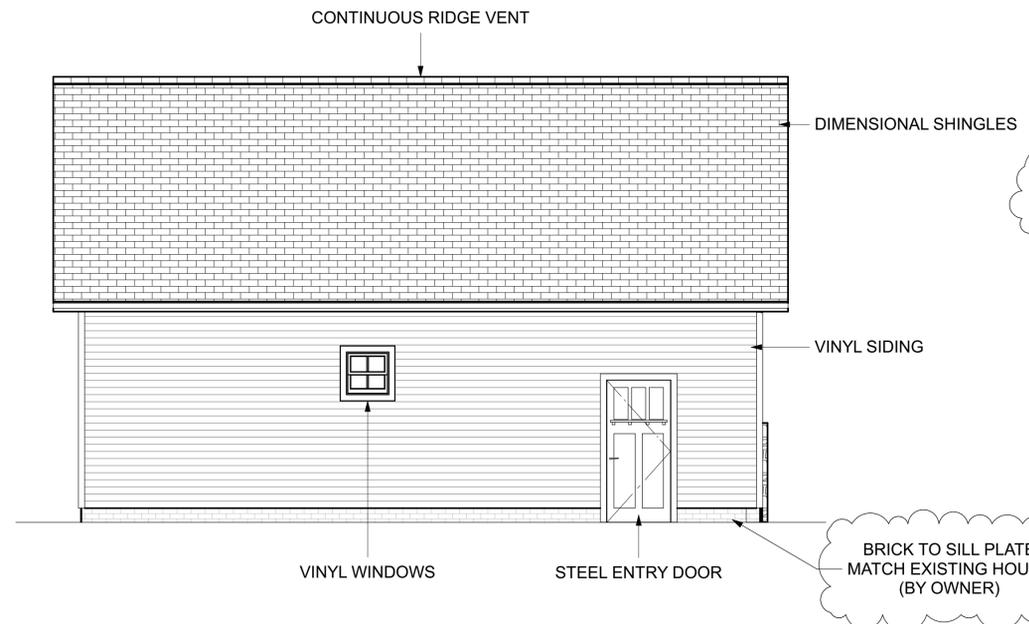
**STRUCTURE DEAD LOAD:**  
FLOOR: 10 PSF  
CEILING: 10 PSF  
ROOF: 10 PSF

FROST LINE: 40"

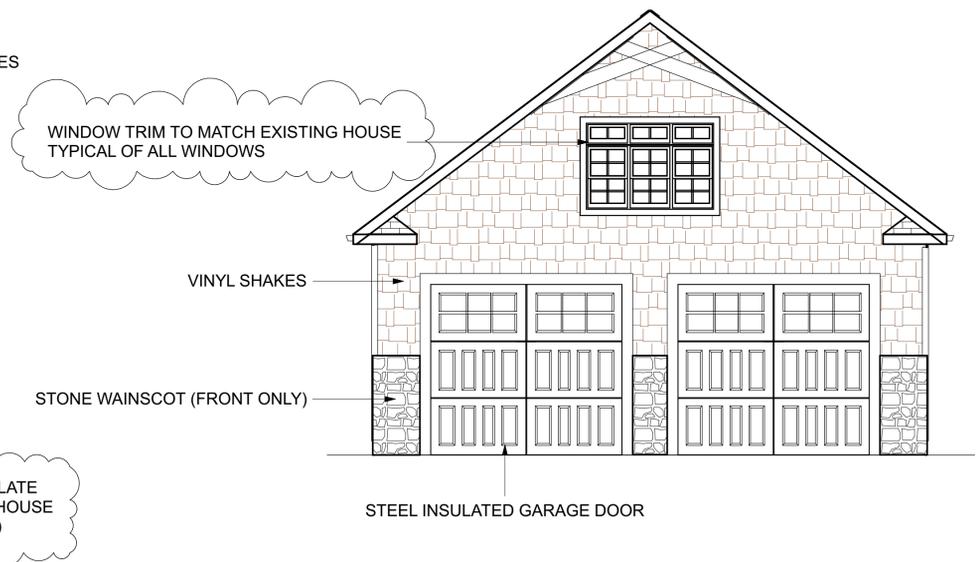
### DRAWING INDEX:

- A-1 ELEVATIONS
- A-2 FOUNDATION PLAN
- A-3 FIRST FLOOR PLAN
- A-4 SECOND FLOOR PLAN
- S-1 CROSS SECTIONS
- S-2 TRUSSES





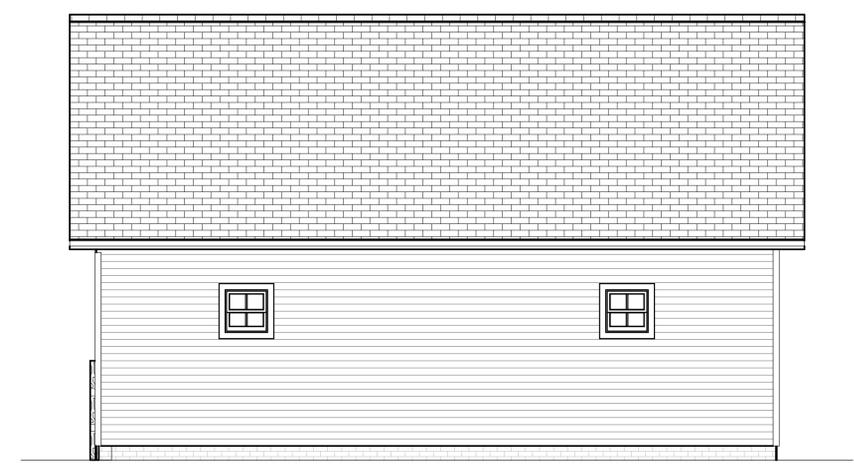
**FRONT EXTERIOR ELEVATION**  
1/4" SCALE



**RIGHT EXTERIOR ELEVATION**  
1/4" SCALE



**REAR EXTERIOR ELEVATION**  
1/4" SCALE



**LEFT EXTERIOR ELEVATION**  
1/4" SCALE

**ELEVATIONS**

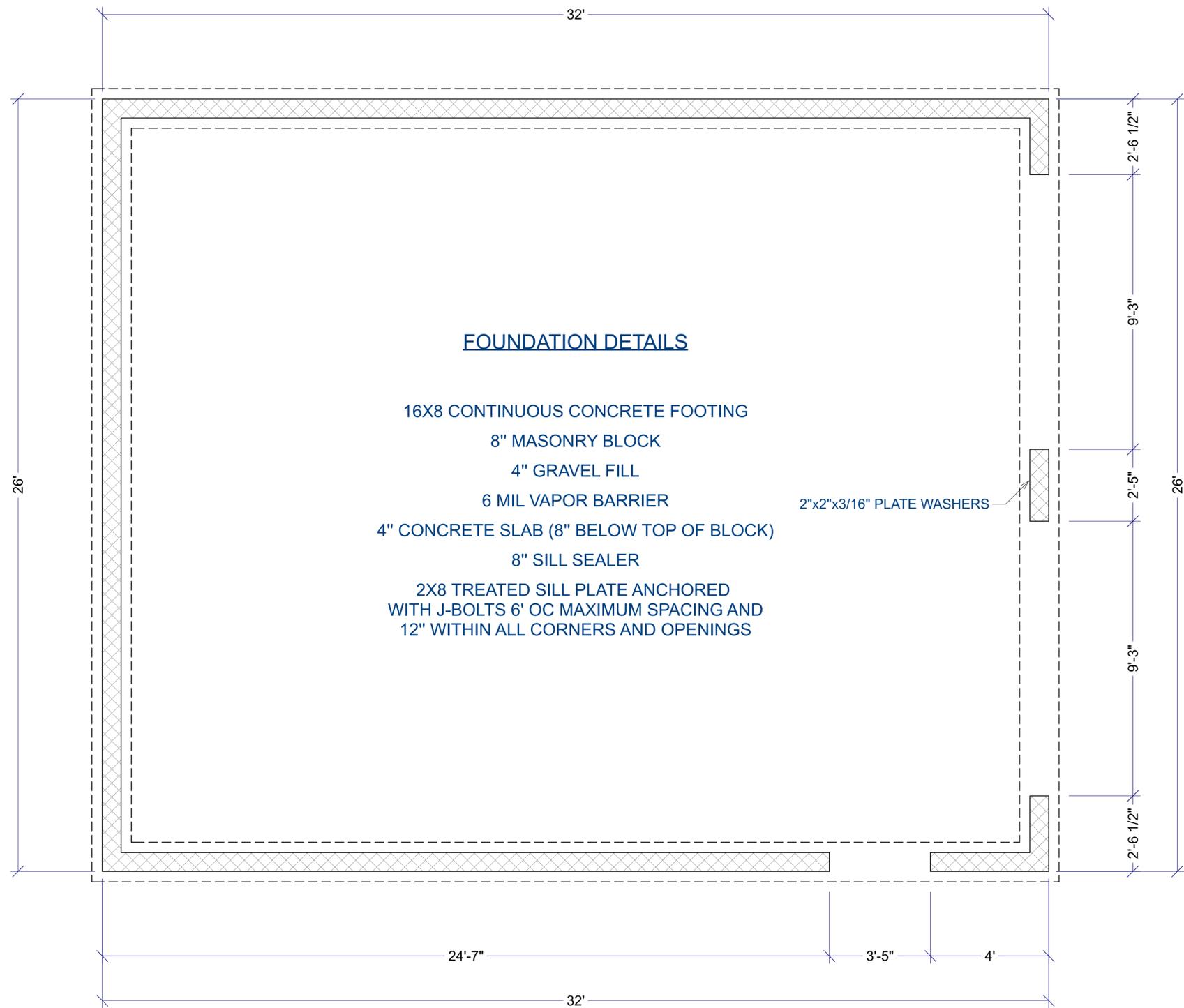
**Chris Schenkenberger**  
162 S Main St  
Hudson, Ohio 44236

REVISED:  
6/10/2022

DRAWN BY:  
SW

SHEET SIZE:  
24" X 36"

SHEET:  
A-1



**SCALE**  
1/2" = 1'

DRAWINGS PROVIDED BY:



# FOUNDATION PLAN

**Chris Schenkenberger**  
162 S Main St  
Hudson, Ohio 44236

REVISED:

6/10/2022

DRAWN BY:

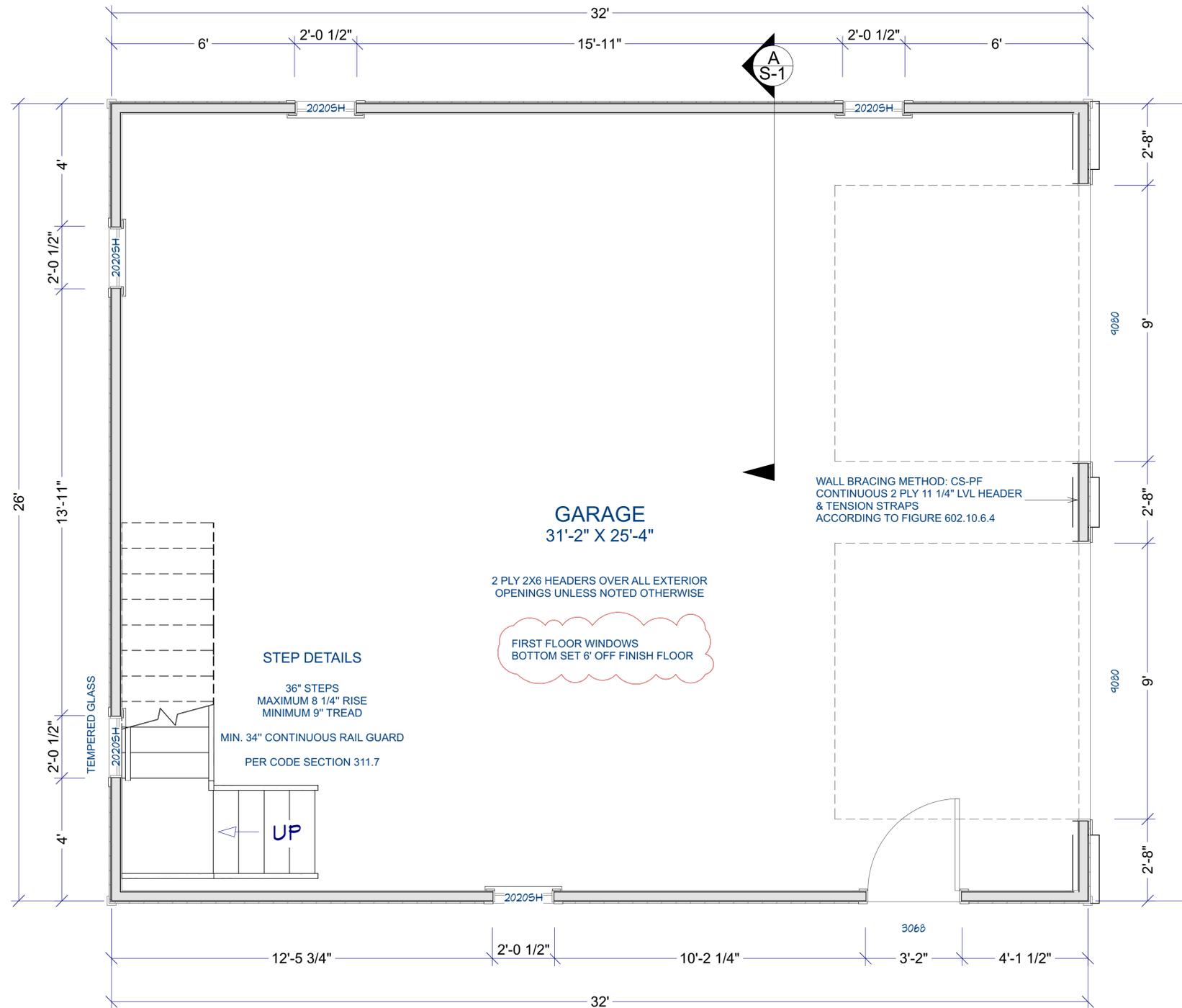
SW

SHEET SIZE:

24" X 36"

SHEET:

A-2



**SCALE**  
1/2" = 1'



DRAWINGS PROVIDED BY:

# FIRST FLOOR PLAN

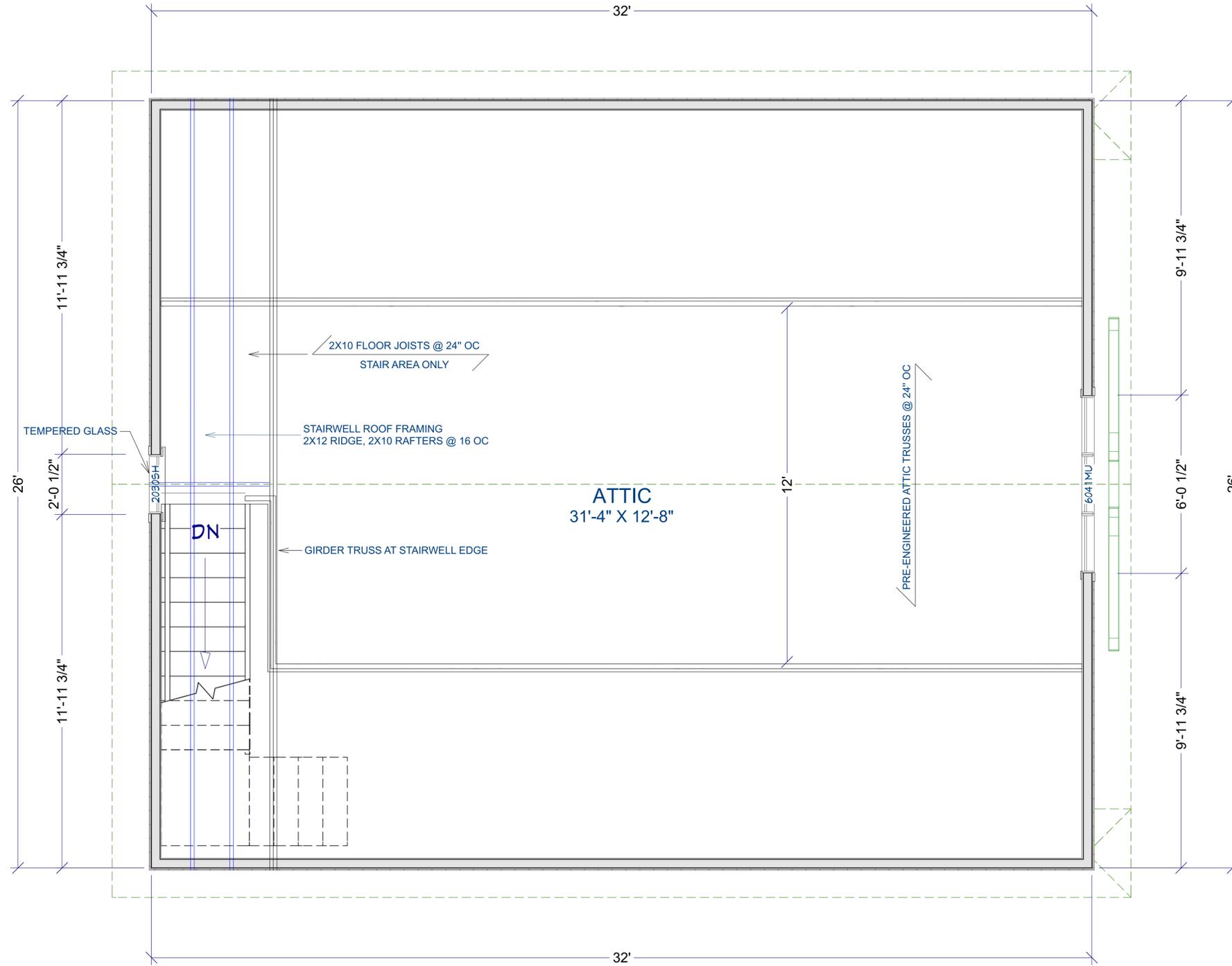
**Chris Schenkenberger**  
162 S Main St  
Hudson, Ohio 44236

REVISED:  
6/10/2022

DRAWN BY:  
SW

SHEET SIZE:  
24" X 36"

SHEET:  
A-3



**SCALE**  
1/2" = 1'



DRAWINGS PROVIDED BY:

# SECOND FLOOR PLAN

**Chris Schenkenberger**  
162 S Main St  
Hudson, Ohio 44236

REVISED:  
6/10/2022

DRAWN BY:  
SW

SHEET SIZE:  
24" X 36"

SHEET:  
A-4

# CROSS SECTIONS

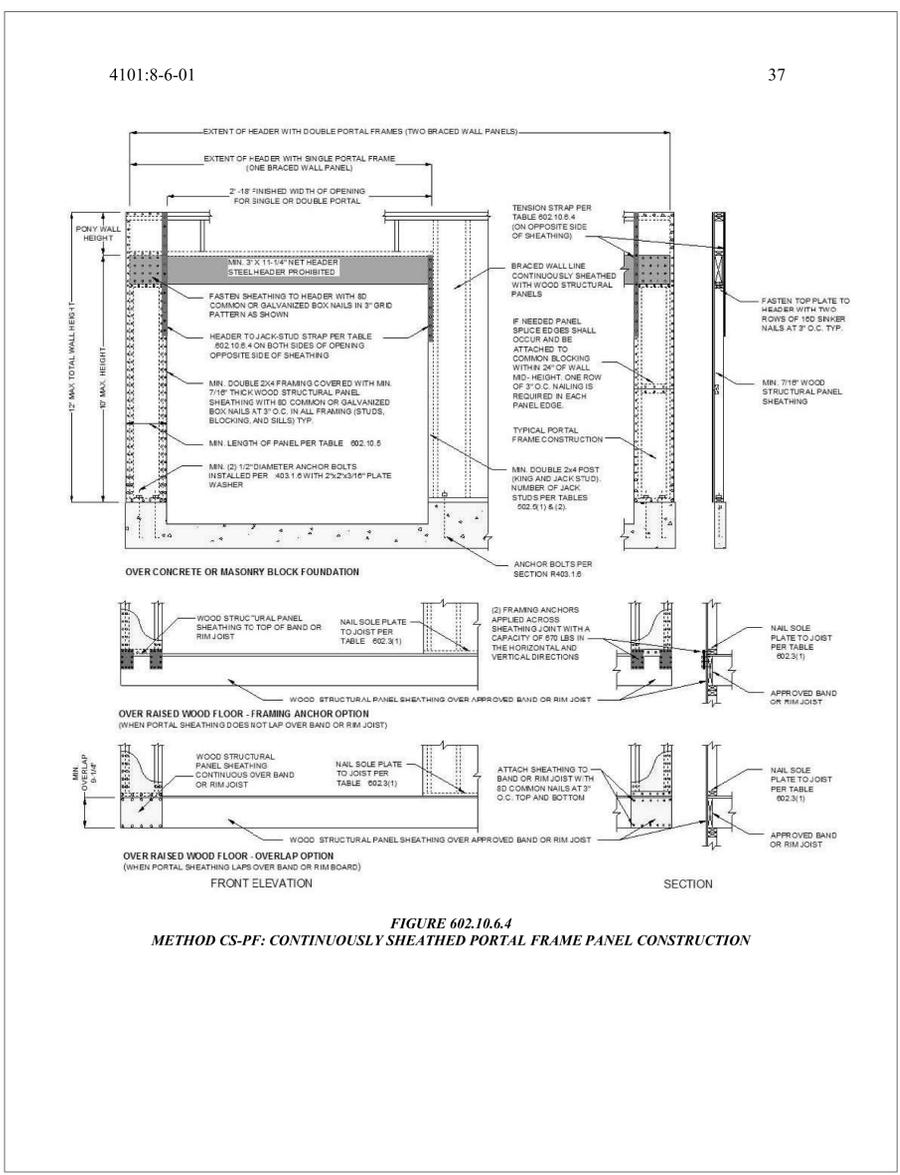
Chris Schenkenberger  
 162 S Main St  
 Hudson, Ohio 44236

REVISED:  
 6/10/2022

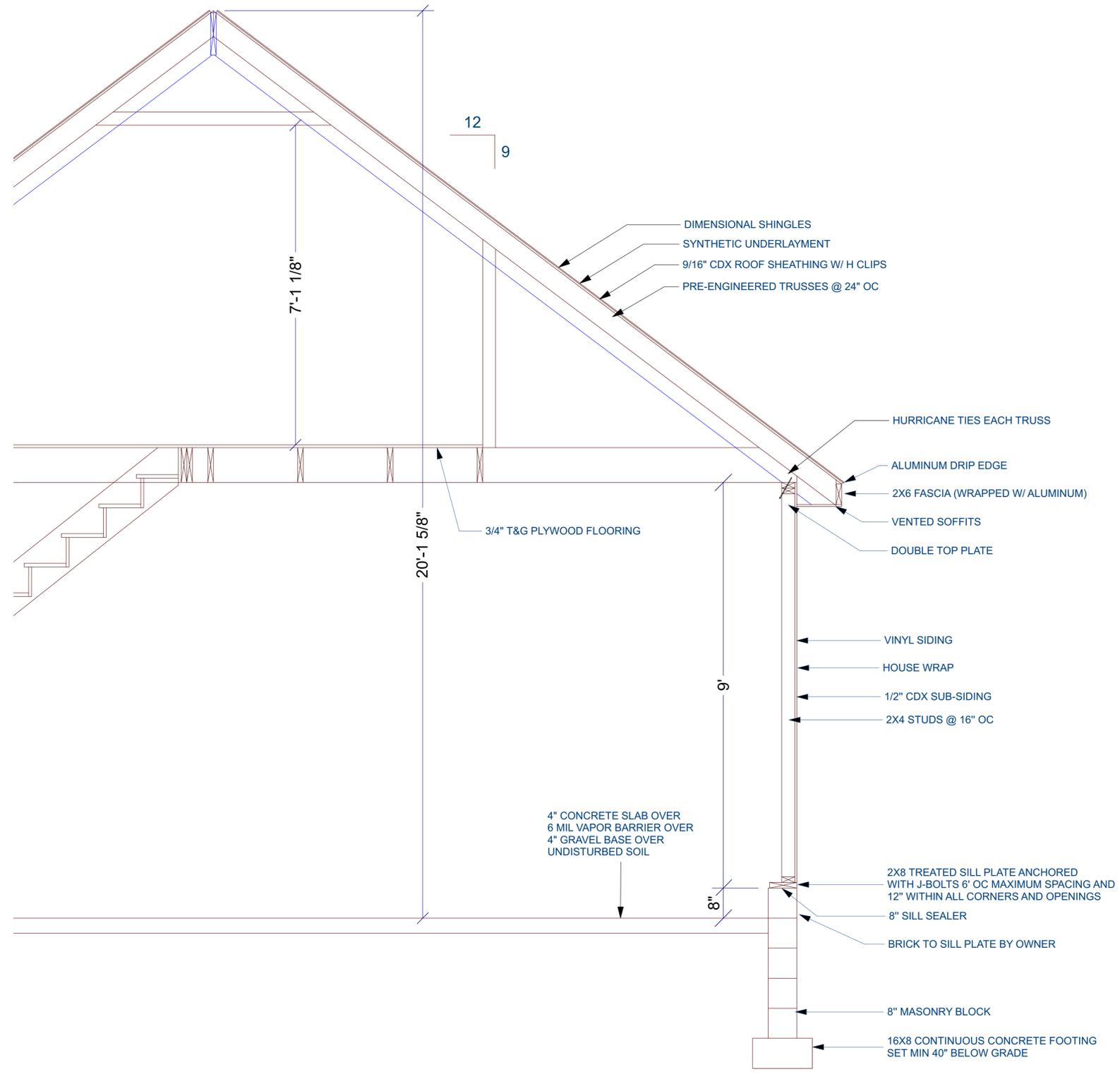
DRAWN BY:  
 SW

SHEET SIZE:  
 24" X 36"

SHEET:  
 S-1



PORTAL FRAMING DETAIL



FRAMING SECTION

SCALE: 3/4" = 1'

A  
 S-1



**MITek USA, Inc.**  
16023 Swingley Ridge Rd  
Chestersfield, MO 63017  
314-434-1200

Re: 222801  
Keim - Schenkenberger Garage

The truss drawing(s) referenced below have been prepared by MITek USA, Inc. under my direct supervision based on the parameters provided by Hostetler's Metal & Truss.

Pages or sheets covered by this seal: IS2106118 thru IS2106120  
My license renewal date for the state of Ohio is December 31, 2023.



May 23, 2022

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction identified and that the designs comply with ANSITPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MITek or TRENCO. Any project specific information included is for MITek's or TRENCO's customers for reference purposes only, and was not taken into account in the preparation of these designs. MITek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSITPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Keim - Schenkenberger Garage	IS2106119
222801	A01	GABLE	2	1		

Hostetler's Metal and Truss, Wauhindong, OH - 43843, Job Reference (optional) 8.530 & Dec. 6 2021 MITek Industries, Inc. Mon May 23 11:09:32 2022 Page 1

LOADING (psf)	SPACING-	CSL	DEFLL	in (ft)	Idoff	Ltd	PLATES	GRIP
TCLL (roof)	25.0	Plate Grp DOL	1.15	TC	0.70	Vert(LL)	-0.25 14-16	>999 360
Snow (PRPg)	19.3/25.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.36 14-16	>844 240
TCLL	10.0	Rep Stress Incr	YES	WB	0.29	Hor(CT)	0.02 12	n/a n/a
BCLL	0.0	Code	IRC2018/TP2014	Matrix-S		Altc	-0.13 14-16	1164 360
BCLL	10.0							Weight: 236 lb FT = 0%

**LUMBER-**  
TOP CHORD 2x6 SP 240F 2.0E "Except"  
4.7.7-10; 2x6 SP No.1  
BOT CHORD 2x10 SP 240F 2.0E  
WEBS 2x4 SPF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at J(s): 17

**REACTIONS.** (size) 2=0-4.0, 12=0-4.0  
Max Horz 2=269(LC 10)  
Max Uplift 2=114(LC 12), 12=114(LC 13)  
Max Grav 2=1535(LC 27), 12=1535(LC 28)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=2275/134, 3-5=2055/141, 5-6=1368/194, 6-7=364/01, 7-8=364/02,  
8-9=1887/183, 9-11=2054/140, 11-12=2274/152  
BOT CHORD 2-16=158/1893, 14-16=31445, 12-14=471/769  
WEBS 6-17=1887/223, 8-17=1887/223, 5-16=01019, 9-14=01019, 3-16=591/201,  
11-14=592/203

**NOTES-**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16, Vult=115mph (3-second gust) Vase=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25R; Cat. II; Exp. C; Enclosed; MWFRS (envelope) gable end zone, cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33  
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), use Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSITPI 1.  
4) TCLL-ASCE 7-16; Pw=25.0 psf (roof LL; Lum DOL=1.15 Plate DOL=1.15); Pp=25.0 psf; Pw=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); h=1.0; Rough Cat. C; Partially Exp.; C=1.0; C=1.0; C=1.0  
5) Unbalanced snow loads have been considered for this design.  
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.3 psf on overhangs non-concurrent with other live loads.  
7) All plates are 2x4 MT20 unless otherwise indicated.  
8) Gable studs spaced at 24" o.c.  
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
10) Ceiling dead load (5.0 psf on members); 5-6, 8-9, 6-17, 8-17  
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16  
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 114 lb uplift at joint 12.  
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSITPI 1.  
14) Altic room checked for L/560 deflection.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M-3473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the installation, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, Q88-89 and BCS Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20681

**MITek**  
16023 Swingley Ridge Rd  
Chestersfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Keim - Schenkenberger Garage	IS2106118
222801	A01	ATTIC	1	1		

Hostetler's Metal and Truss, Wauhindong, OH - 43843, Job Reference (optional) 8.530 & Dec. 6 2021 MITek Industries, Inc. Mon May 23 11:09:31 2022 Page 1

LOADING (psf)	SPACING-	CSL	DEFLL	in (ft)	Idoff	Ltd	PLATES	GRIP
TCLL (roof)	25.0	Plate Grp DOL	1.15	TC	0.70	Vert(LL)	-0.25 14-16	>999 360
Snow (PRPg)	19.3/25.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.36 14-16	>844 240
TCLL	10.0	Rep Stress Incr	YES	WB	0.29	Hor(CT)	0.02 12	n/a n/a
BCLL	0.0	Code	IRC2018/TP2014	Matrix-S		Altc	-0.13 14-16	1164 360
BCLL	10.0							Weight: 225 lb FT = 0%

**LUMBER-**  
TOP CHORD 2x6 SP 240F 2.0E "Except"  
4.7.7-10; 2x6 SP No.1  
BOT CHORD 2x10 SP 240F 2.0E  
WEBS 2x4 SPF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at J(s): 17

**REACTIONS.** (size) 2=0-4.0, 12=0-4.0  
Max Horz 2=269(LC 11)  
Max Uplift 2=114(LC 12), 12=114(LC 13)  
Max Grav 2=1535(LC 27), 12=1535(LC 28)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=2275/134, 3-5=2055/141, 5-6=1368/194, 6-7=364/01, 7-8=364/02,  
8-9=1887/183, 9-11=2054/140, 11-12=2274/152  
BOT CHORD 2-16=158/1893, 14-16=31445, 12-14=471/769  
WEBS 6-17=1887/223, 8-17=1887/223, 5-16=01019, 9-14=01019, 3-16=591/201,  
11-14=592/203

**NOTES-**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16, Vult=115mph (3-second gust) Vase=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25R; Cat. II; Exp. C; Enclosed; MWFRS (envelope) gable end zone, cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33  
3) TCLL-ASCE 7-16; Pw=25.0 psf (roof LL; Lum DOL=1.15 Plate DOL=1.15); Pp=25.0 psf; Pw=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); h=1.0; Rough Cat. C; Partially Exp.; C=1.0; C=1.0; C=1.0  
4) Unbalanced snow loads have been considered for this design.  
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.3 psf on overhangs non-concurrent with other live loads.  
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
7) Ceiling dead load (5.0 psf on members); 5-6, 8-9, 6-17, 8-17  
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16  
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 114 lb uplift at joint 12.  
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSITPI 1.  
11) Altic room checked for L/560 deflection.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M-3473 rev. 5/19/2020 BEFORE USE.**  
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**MITek**  
16023 Swingley Ridge Rd  
Chestersfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Keim - Schenkenberger Garage	IS2106120
222801	A02	ATTIC	1	2		

Hostetler's Metal and Truss, Wauhindong, OH - 43843, Job Reference (optional) 8.530 & Dec. 6 2021 MITek Industries, Inc. Mon May 23 11:09:33 2022 Page 1

LOADING (psf)	SPACING-	CSL	DEFLL	in (ft)	Idoff	Ltd	PLATES	GRIP
TCLL (roof)	25.0	Plate Grp DOL	1.15	TC	0.72	Vert(LL)	-0.38 14-16	>803 360
Snow (PRPg)	19.3/25.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.55 14-16	>563 240
TCLL	10.0	Rep Stress Incr	NO	WB	0.47	Hor(CT)	0.02 12	n/a n/a
BCLL	0.0	Code	IRC2018/TP2014	Matrix-S		Altc	-0.16 14-16	922 360
BCLL	10.0							Weight: 451 lb FT = 0%

**LUMBER-**  
TOP CHORD 2x6 SP 240F 2.0E "Except"  
4.7.7-10; 2x6 SP 240F 2.0E  
BOT CHORD 2x10 SP 240F 2.0E  
WEBS 2x4 SPF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at J(s): 17

**REACTIONS.** (size) 2=0-4.0, 12=0-4.0  
Max Horz 2=269(LC 11)  
Max Uplift 2=597(LC 12), 12=597(LC 13)  
Max Grav 2=580(LC 27), 12=580(LC 28)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=4018/158, 3-5=2440/704, 5-6=4622/320, 6-7=1471/535, 7-8=1471/535,  
8-9=4621/530, 9-11=7239/703, 11-12=8017/757  
BOT CHORD 2-16=6716/516, 14-16=303/887, 12-14=458/8274  
WEBS 6-17=6910/791, 8-17=6916/791, 5-16=292/3786, 3-14=2913/785, 3-16=1996/364,  
11-14=1996/365, 7-17=47/608

**NOTES-**  
1) 2-ply truss to be connected together with 10d (0.1313") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row 0-9-0 oc.  
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.  
3) Unbalanced roof live loads have been considered for this design.  
4) Wind: ASCE 7-16, Vult=115mph (3-second gust) Vase=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25R; Cat. II; Exp. C; Enclosed; MWFRS (envelope) gable end zone, cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33  
5) TCLL-ASCE 7-16; Pw=25.0 psf (roof LL; Lum DOL=1.15 Plate DOL=1.15); Pp=25.0 psf; Pw=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); h=1.0; Rough Cat. C; Partially Exp.; C=1.0; C=1.0; C=1.0  
6) Unbalanced snow loads have been considered for this design.  
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 19.3 psf on overhangs non-concurrent with other live loads.  
8) All plates are MT20 unless otherwise indicated.  
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
10) Ceiling dead load (5.0 psf on members); 5-6, 8-9, 6-17, 8-17  
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16  
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 597 lb uplift at joint 2 and 597 lb uplift at joint 12.  
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSITPI 1.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M-3473 rev. 5/19/2020 BEFORE USE.**  
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**MITek**  
16023 Swingley Ridge Rd  
Chestersfield, MO 63017



DRAWINGS PROVIDED BY:

# TRUSSES

**Chris Schenkenberger**  
162 S Main St  
Hudson, Ohio 44236

REVISED:

6/10/2022

DRAWN BY:

SW

SHEET SIZE:

24" X 36"

SHEET:

S-2

# Project Area – Schenkenberger Garage

View from Road – Structure starts near end of asphalt drive



View from Rear of House – Approximate location shown in blue



# Schenkenberger Residence: Photos of Home @ 162 S. Main St.

Front (facing East)



Back (facing West)



Side (facing South)



Side (facing North)

