

LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
115 MPH WIND IN 2018 IRC MAP
 (115 MPH WIND SPEED IN ASCE 7-16 WIND MAP, PER IRC R301.2.1.1)
 EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2018 IRC (SECTION 1609) & ASCE 7-16, AS PERMITTED BY R301.3 OF THE 2018 IRC, OR THE SIMPLIFIED PRESCRIPTIVE PROCEDURE IN ACCORDANCE WITH THE 2018 IRC IF THE PARAMETERS OF SECTION R602.2 COMPLY. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 1/32" PLYWOOD:
 FASTEN SHEATHING w/ 2 3/8" x 0.113" NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN PANEL FIELD. (TYP. U.N.O.)
- HORIZONTAL BLOCKING OF EXT. WALL/SHEAR WALL PANEL EDGES IS NOT REQUIRED BY THIS DESIGN EXCEPT FOR THOSE AREAS SPECIFICALLY NOTED.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 3/4" 16 GA STAPLES (1/8" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD.

BLOCKED PANEL EDGES

- AT DESIGNATED AREAS - FASTEN SHEATHING w/ 2 3/8" x 0.113" NAILS @ 6" O.C. AT ALL PANEL EDGES AND 12" O.C. IN THE PANEL FIELD OR 1 3/4" 16 GA STAPLES (1/8" CROWN) @ 3" O.C. AT EDGES & @ 6" O.C. IN FIELD. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.

NOTES

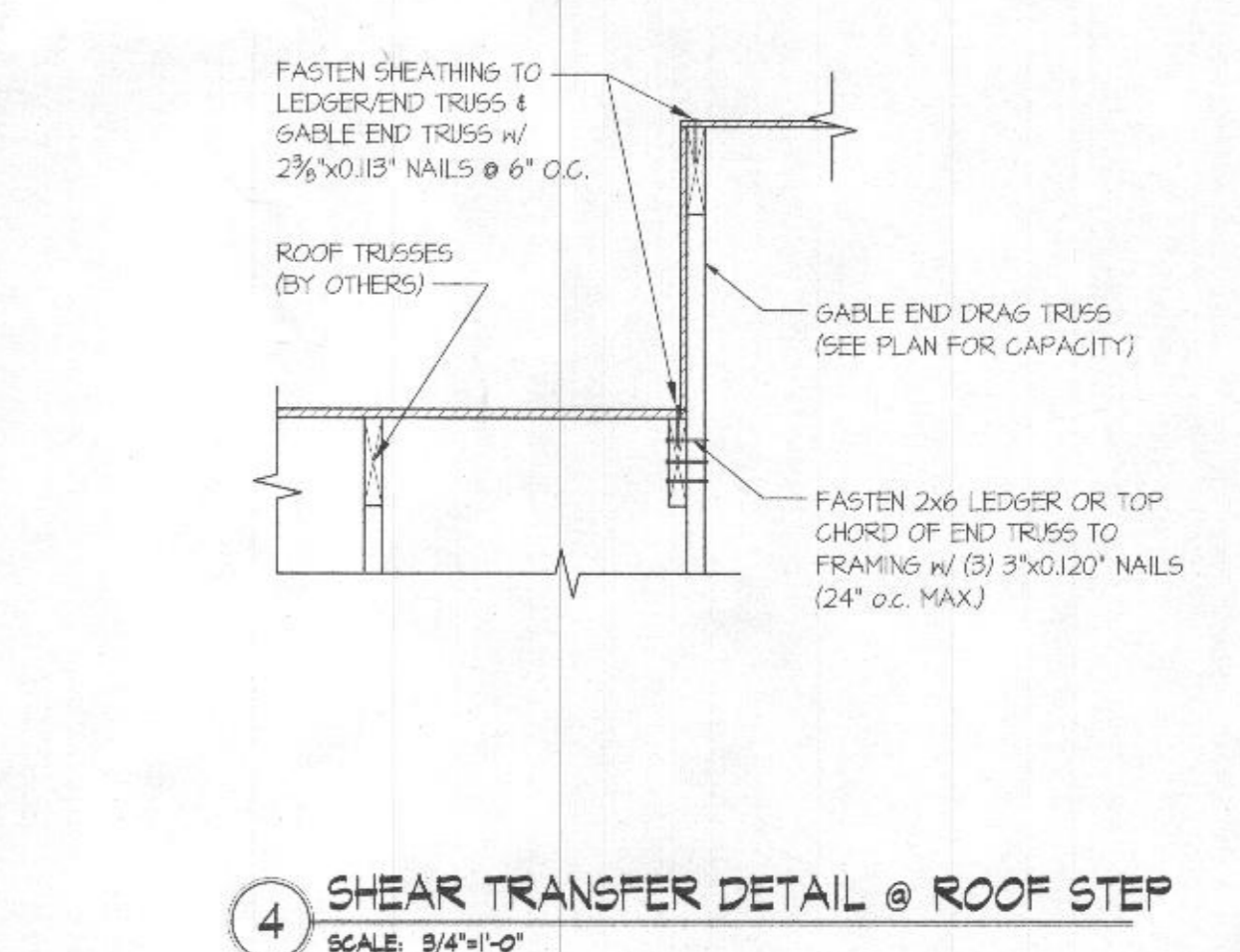
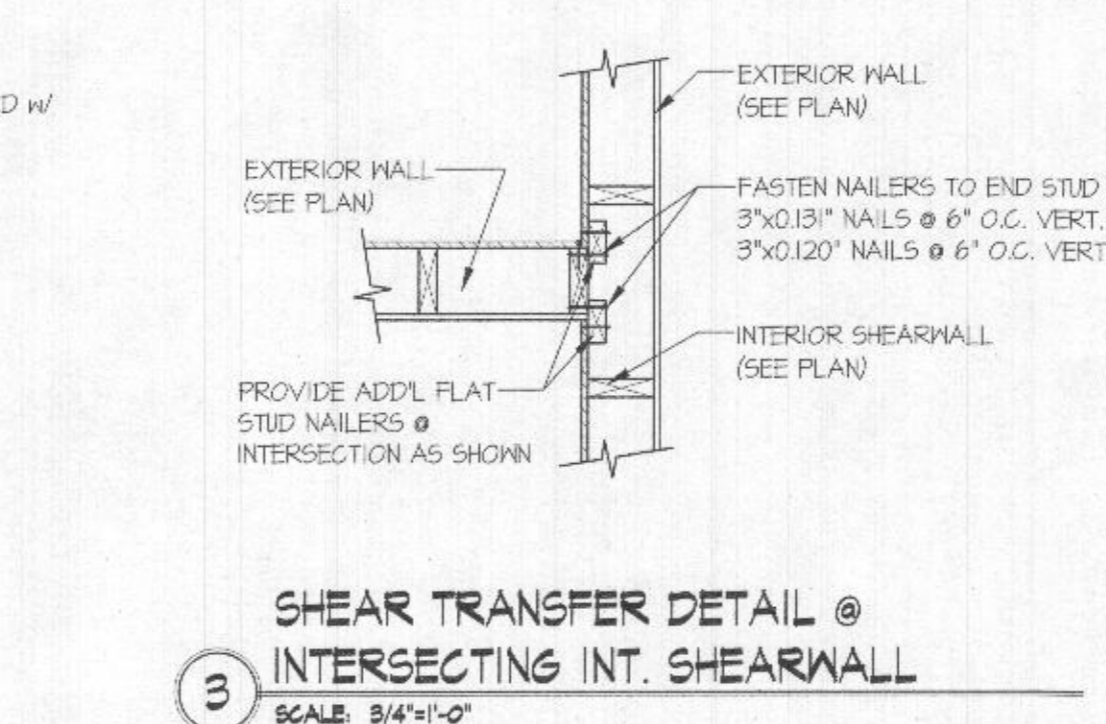
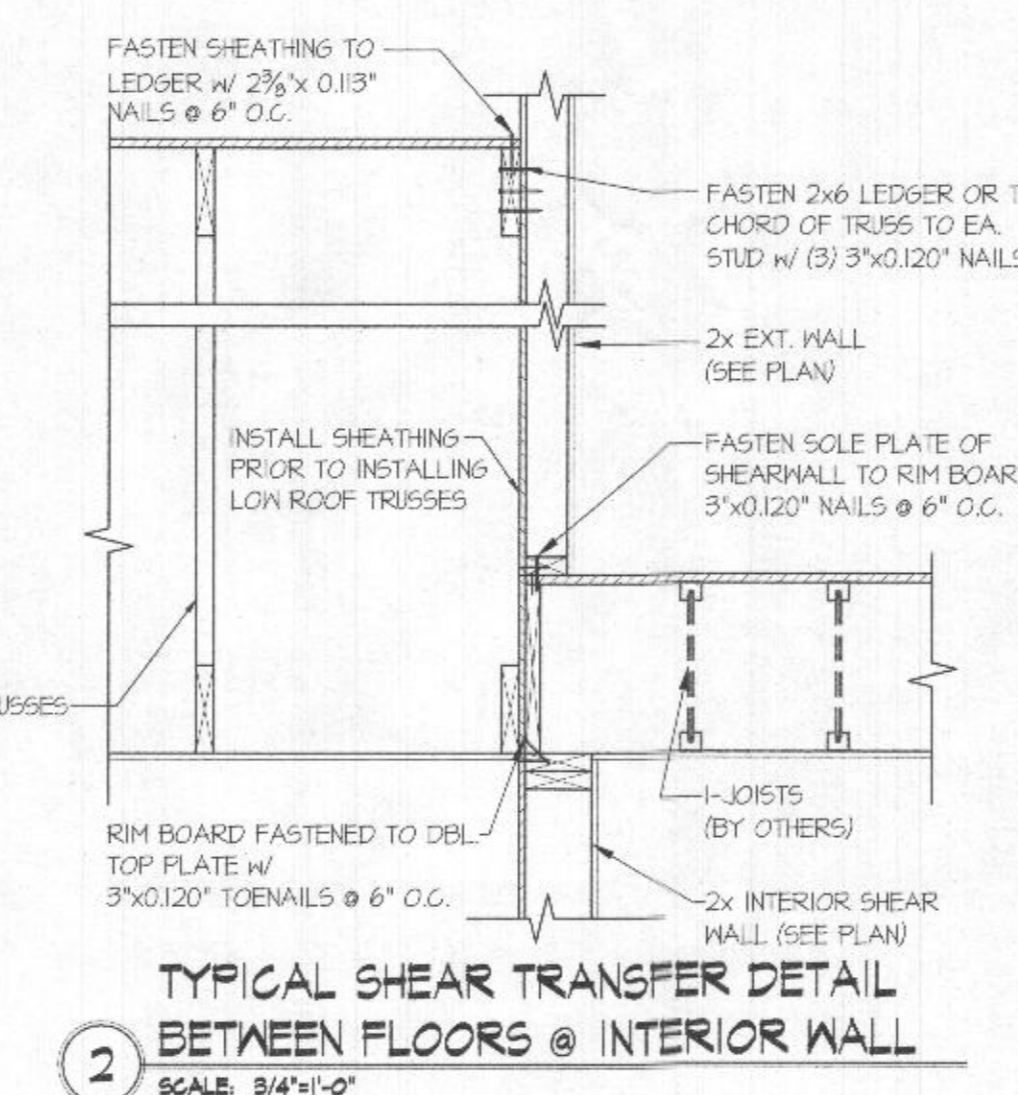
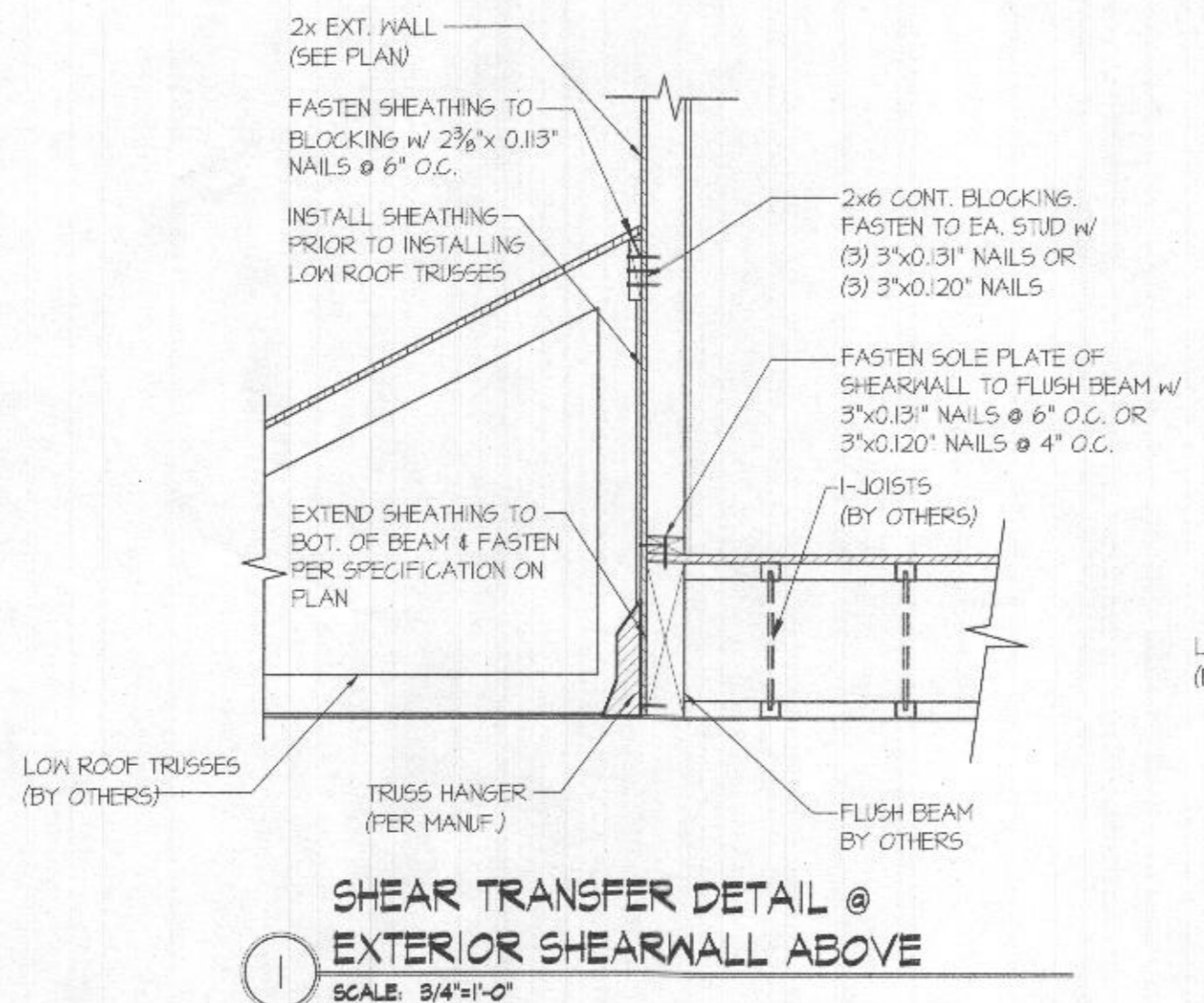
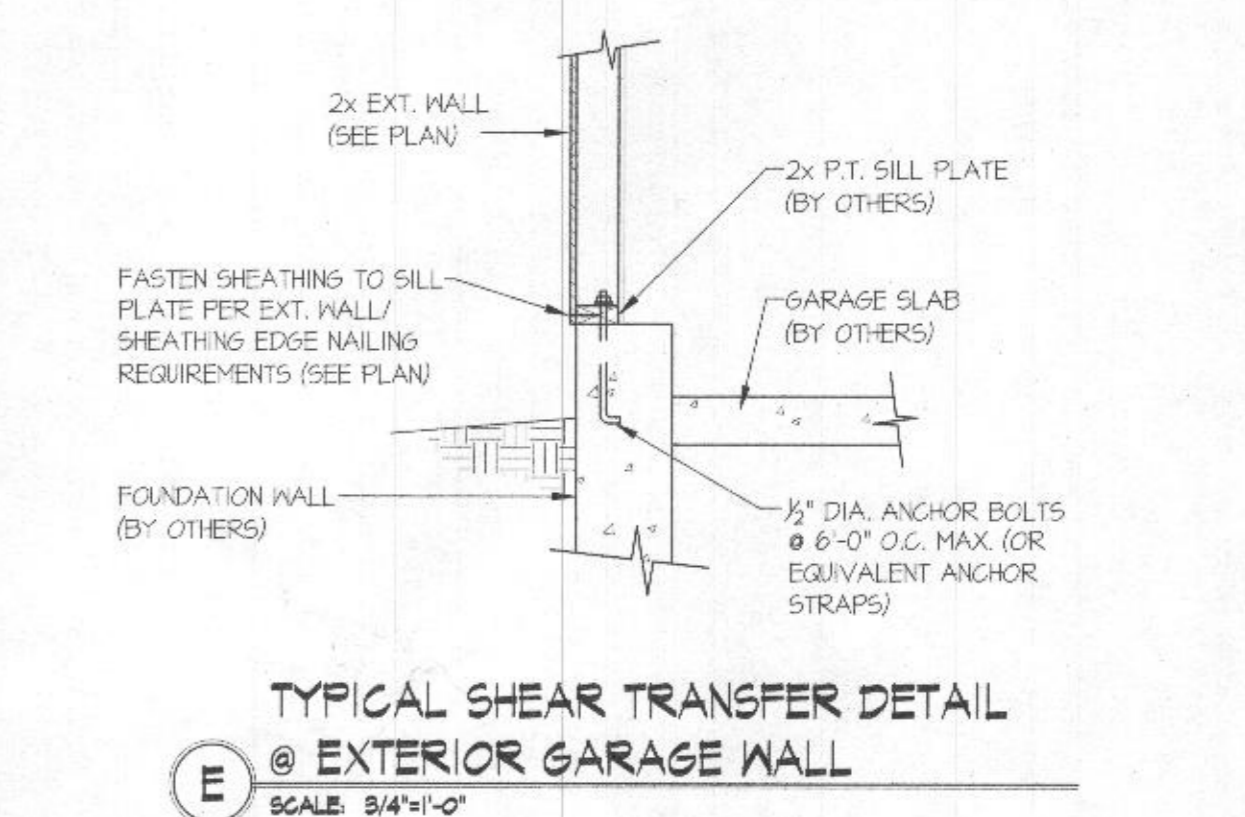
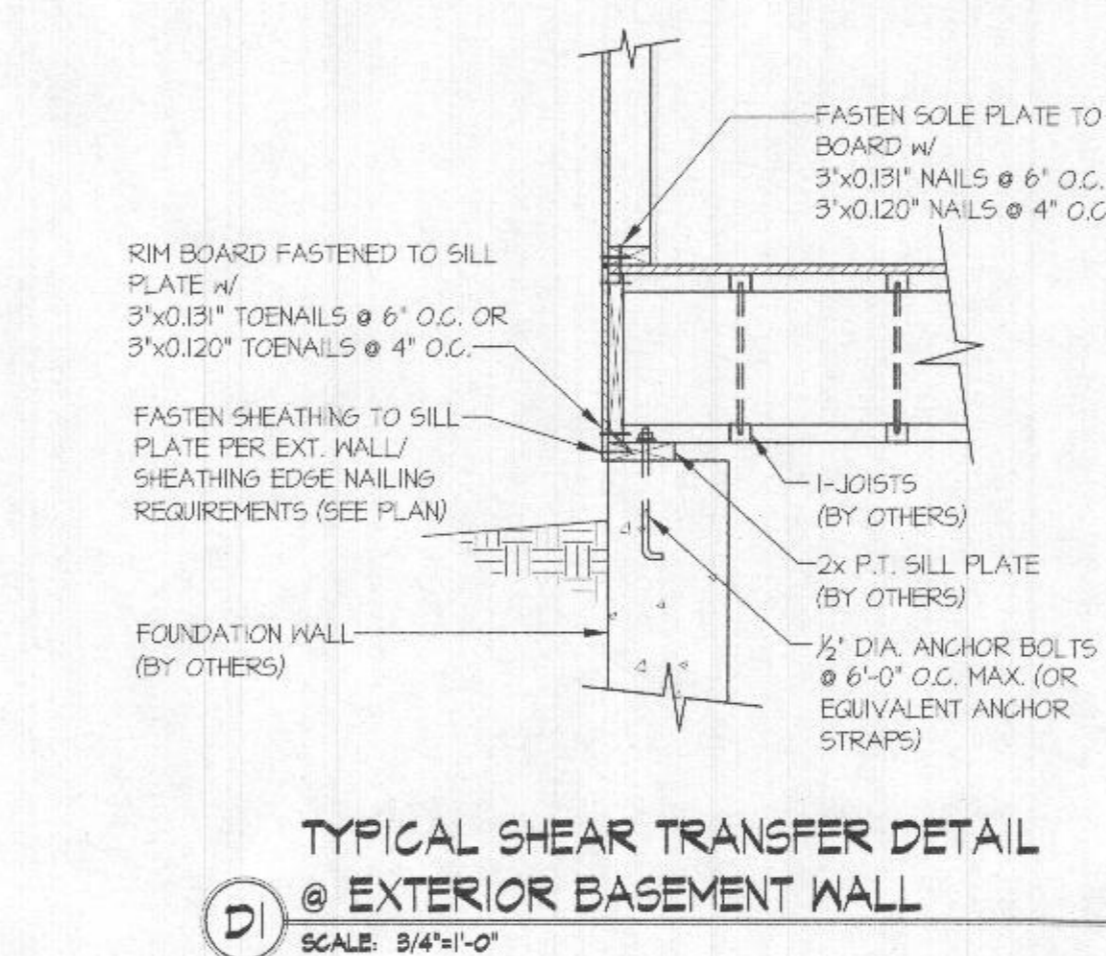
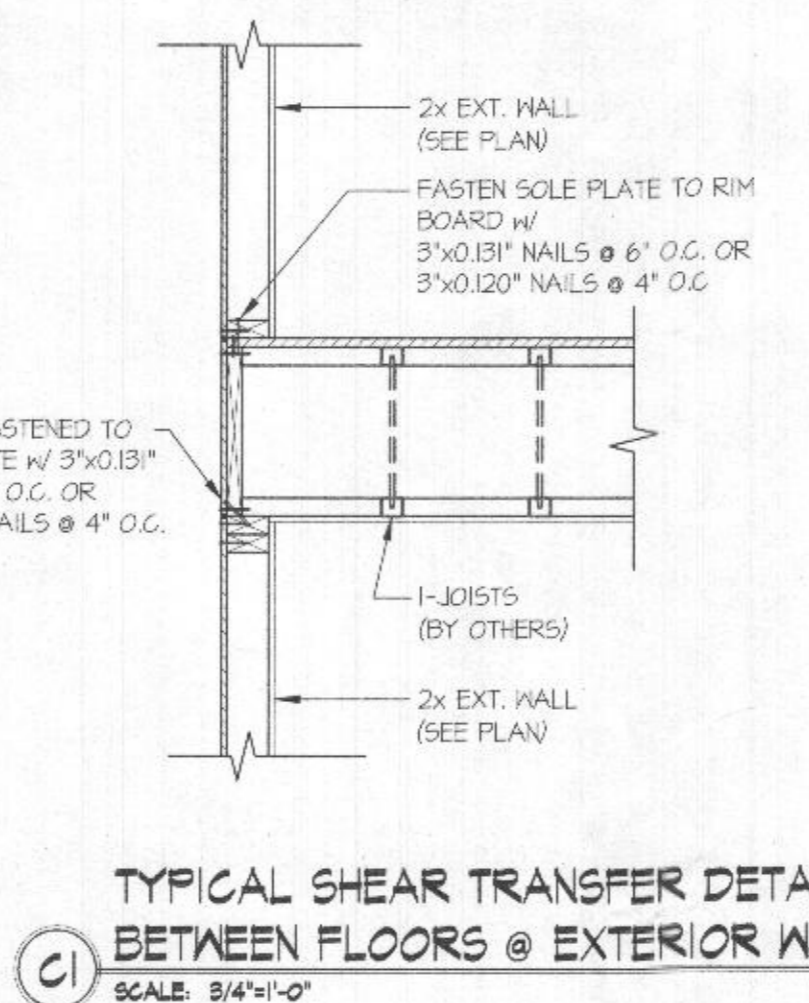
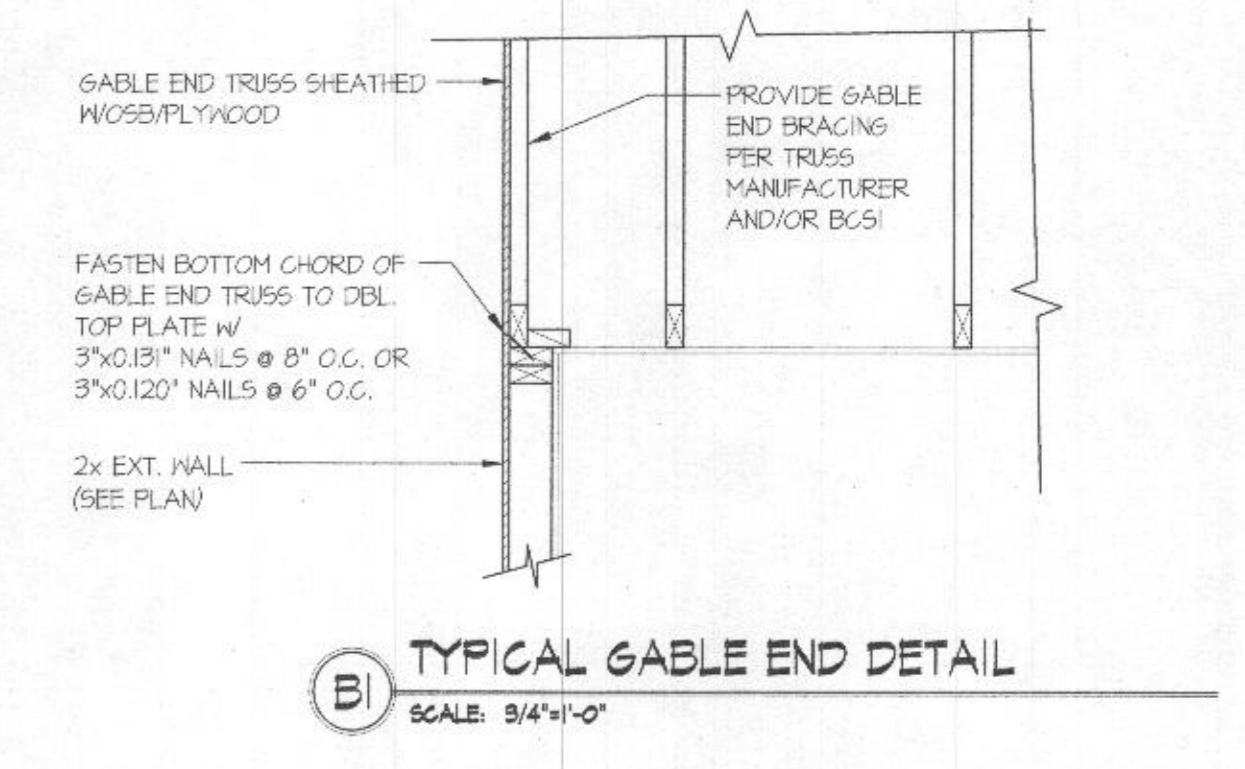
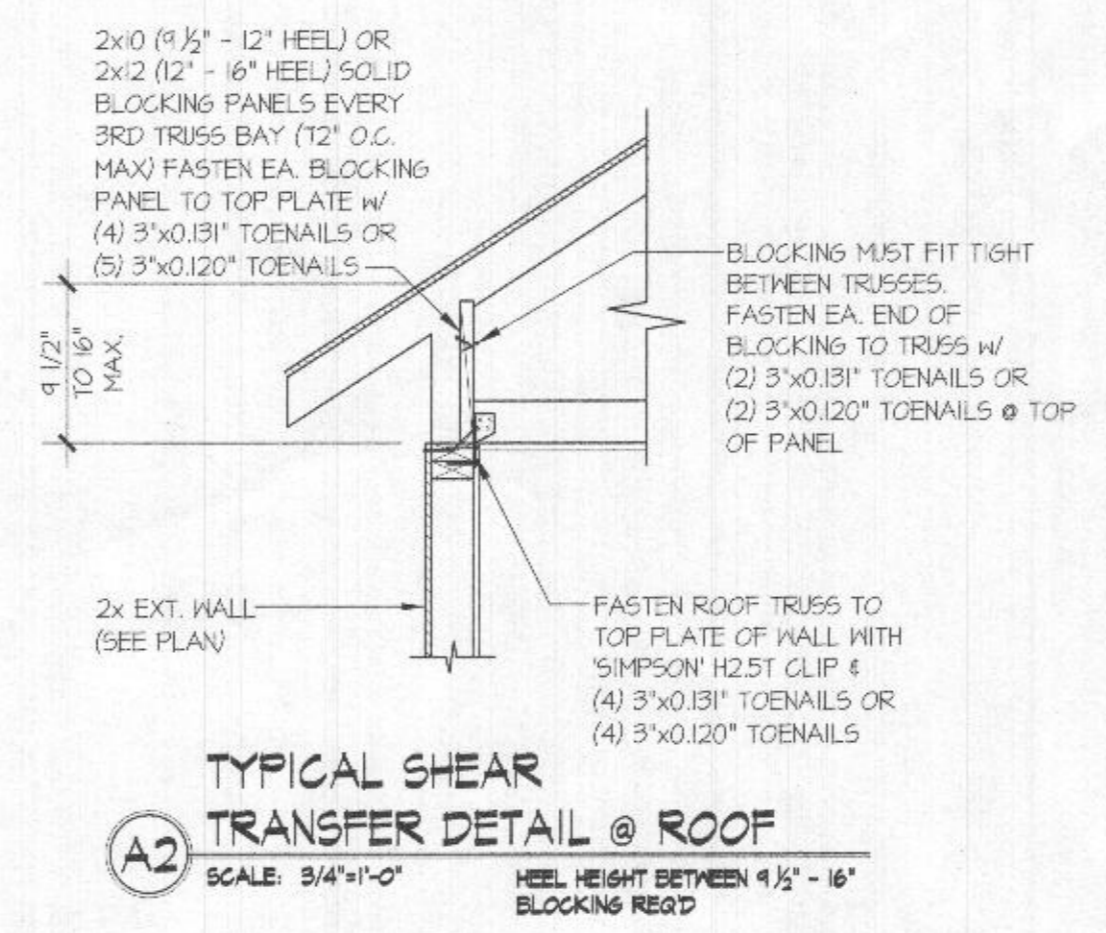
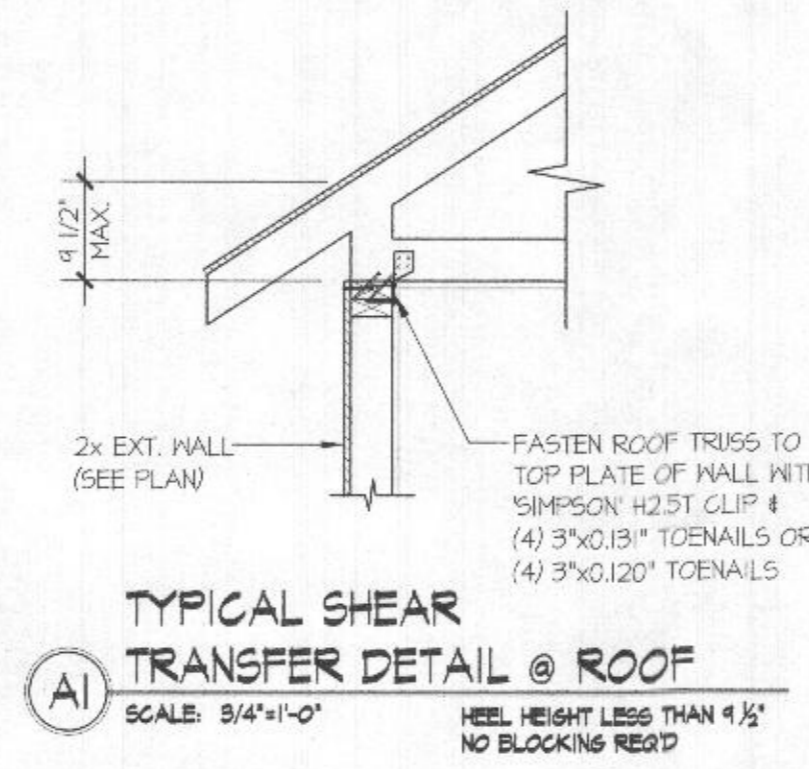
- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED w/ OSB OR PLYWOOD w/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

--- INDICATES EXTENT OF INT. OSB SHEARWALL AND/OR BLOCKED PANEL EDGES.

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PLATE TO JOIST/BLK'G.	NAILS @ 4" o.c.	NAILS @ 4" o.c.
STUD TO SOLE PLATE	(2) TOENAILS	(3) TOENAILS*
TOP OR SOLE PLATE TO STUD	(2) NAILS	(3) NAILS
RIM TO TOP PLATE	TOENAILS @ 8" o.c.	TOENAILS @ 6" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS	(3) TOENAILS*
DOUBLE STUD	NAILS @ 24" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE	NAILS @ 24" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE LAP SPLICE	(4) NAILS IN LAPPED AREA	(4) NAILS IN LAPPED AREA
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(2) NAILS	(2) NAILS
RAFTER/TRUSS TO TOP PLATE	(3) TOENAILS + (1) SIMPSON H2.5T	(3) TOENAILS + (1) SIMPSON H2.5T
GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" o.c.	TOENAILS @ 6" o.c.
R.T. w/ HEEL HT. 9/16" TO 12"	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C.	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL*
WALL TO FOUNDATION	WALL SHTG. LAP w/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.	

* 2 3/8" x 0.113" IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACINGS OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)



LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND
 LICENSE NO. 46372 EXPIRATION DATE: 01/28/23

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Mulhern+Kulp project number:
01B-22015

project mgr: **IPM**
 drawn by: **NP**
 issue date: **03-09-22**

REVISIONS:
 date: initial:

LATERAL NOTES & DETAILS
DATIN-THACKER
RESIDENCE
 HOWARD COUNTY, MD

CARRIGAN HOMES

LB1.0



CONTENT
FRONT ELEVATION

TITLE
CARRIGAN HOMES
DATTIN - THACKER
RESIDENCE

scale 1/4" = 1'-0"

date MARCH 11, 2022

SHEET NUMBER

A-1A



CONTENT
REAR ELEVATION

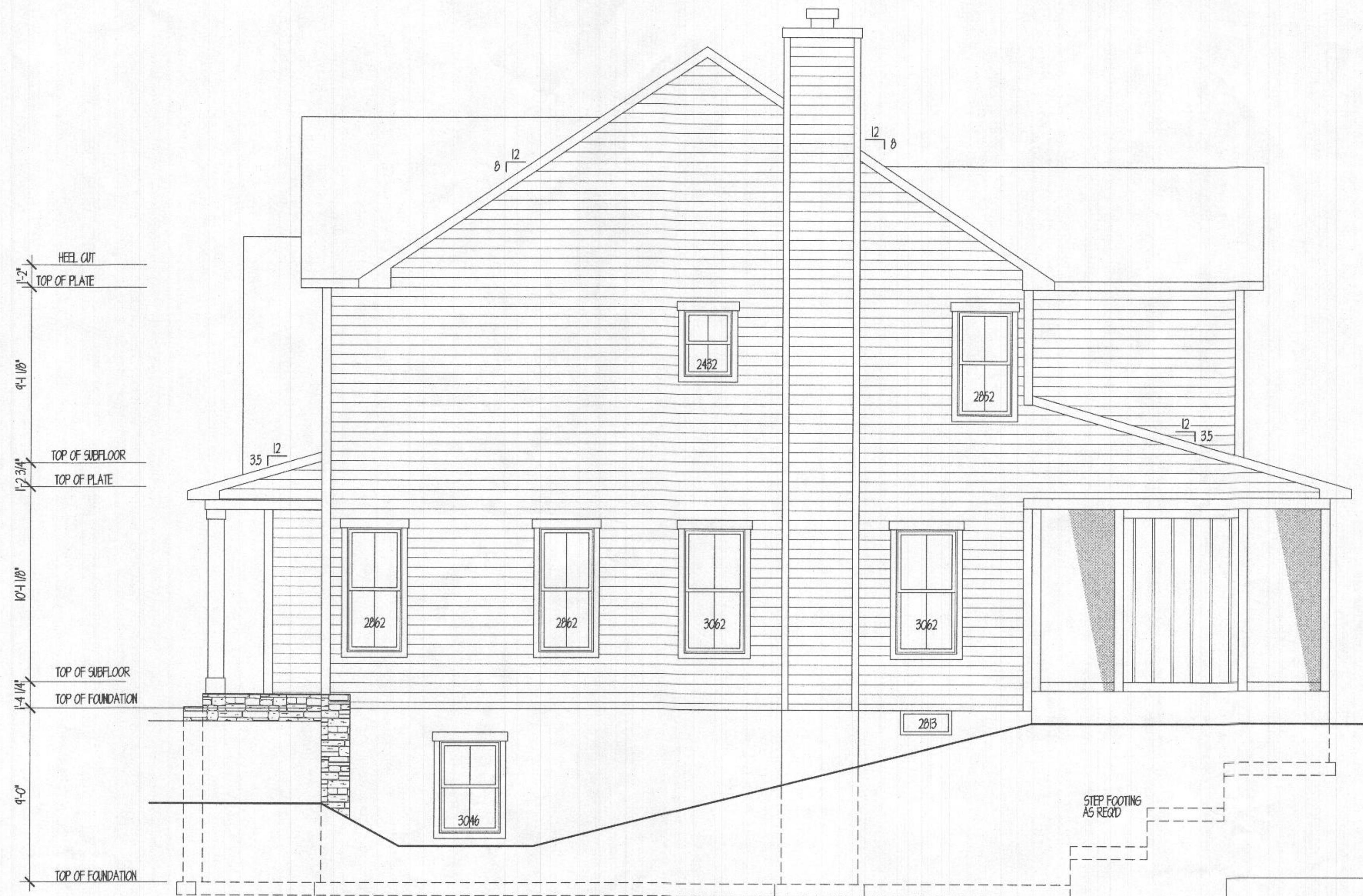
TITLE
CARRIGAN HOMES
DATTIN - THACKER
RESIDENCE

SCALE
1/4" = 1'-0"

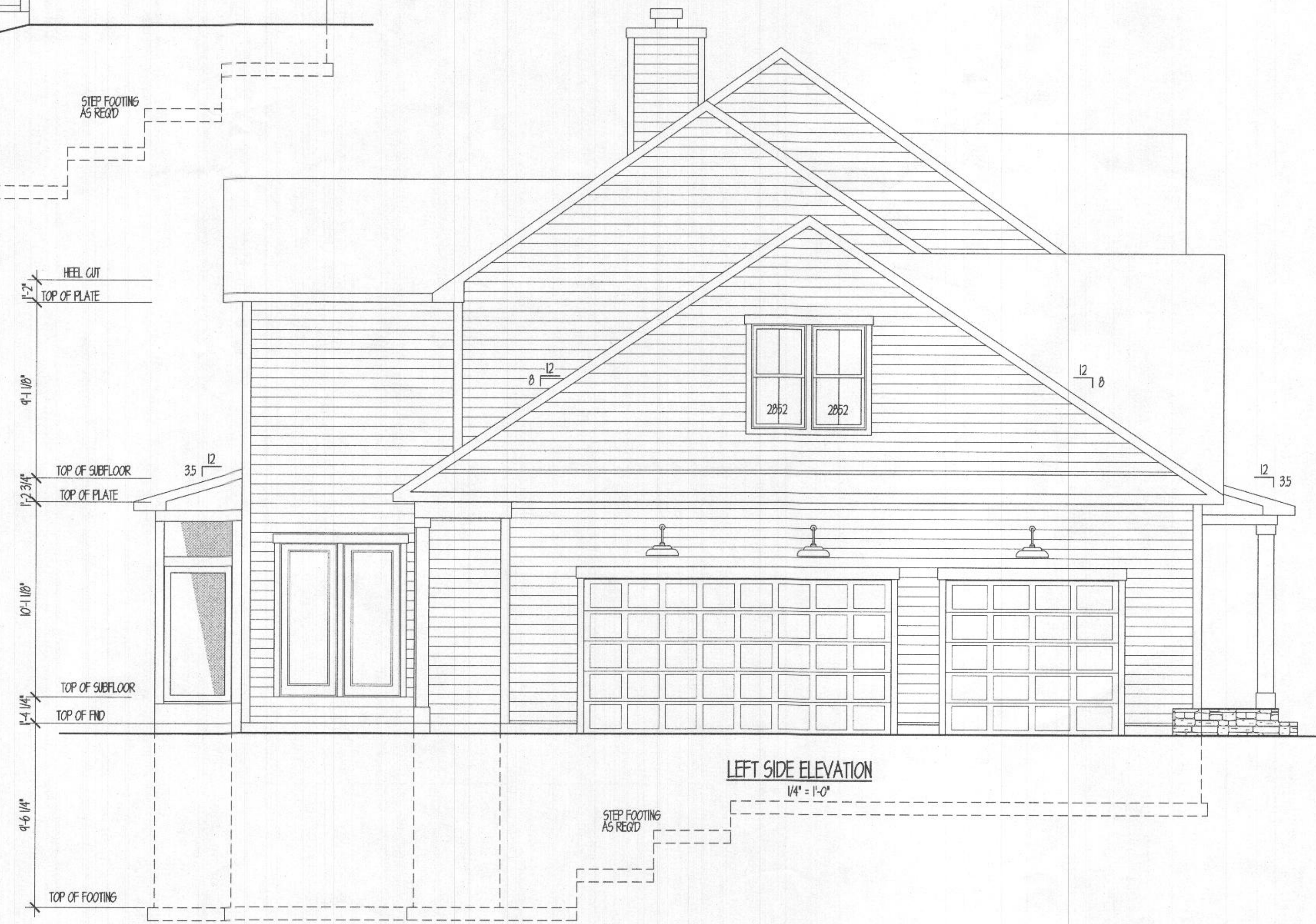
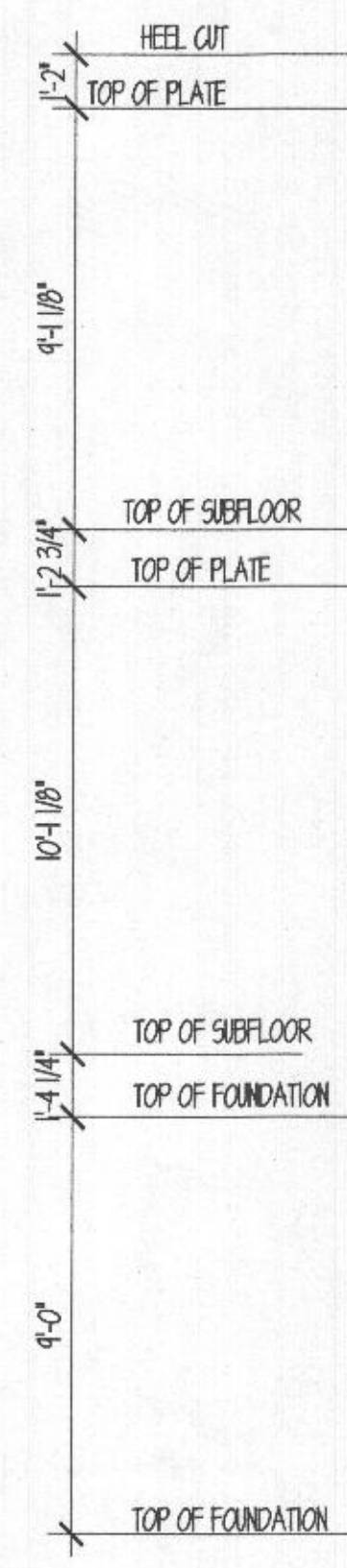
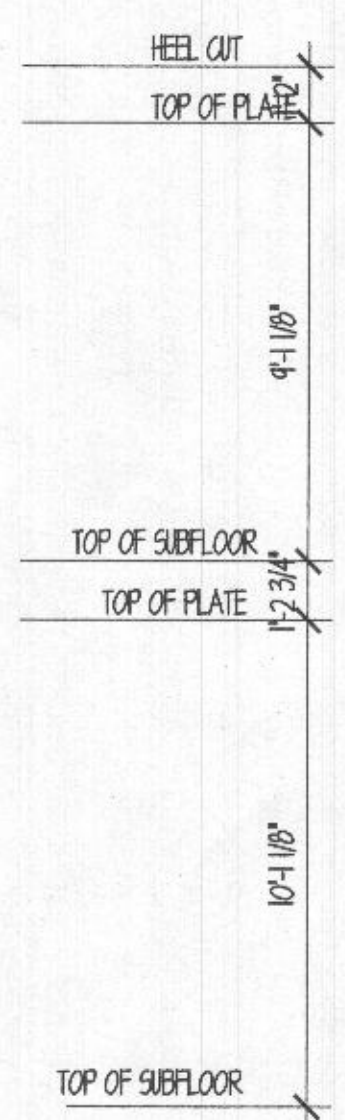
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MARCH 11, 2022

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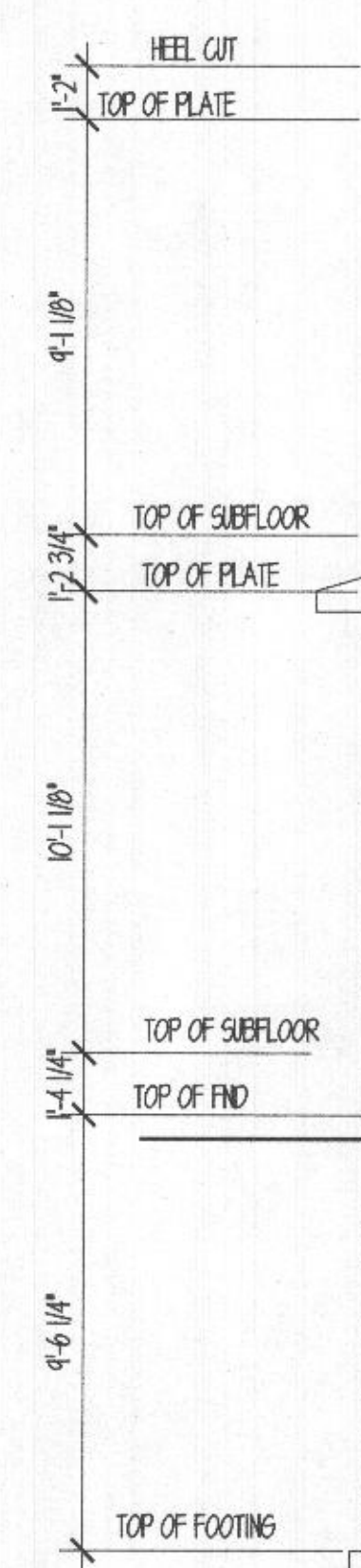
A-1B



RIGHT SIDE ELEVATION
1/4" = 1'-0"



LEFT SIDE ELEVATION
1/4" = 1'-0"



CONTENT	ELEVATIONS
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TITLE	CARRIGAN HOMES DATTIN - THACKER RESIDENCE
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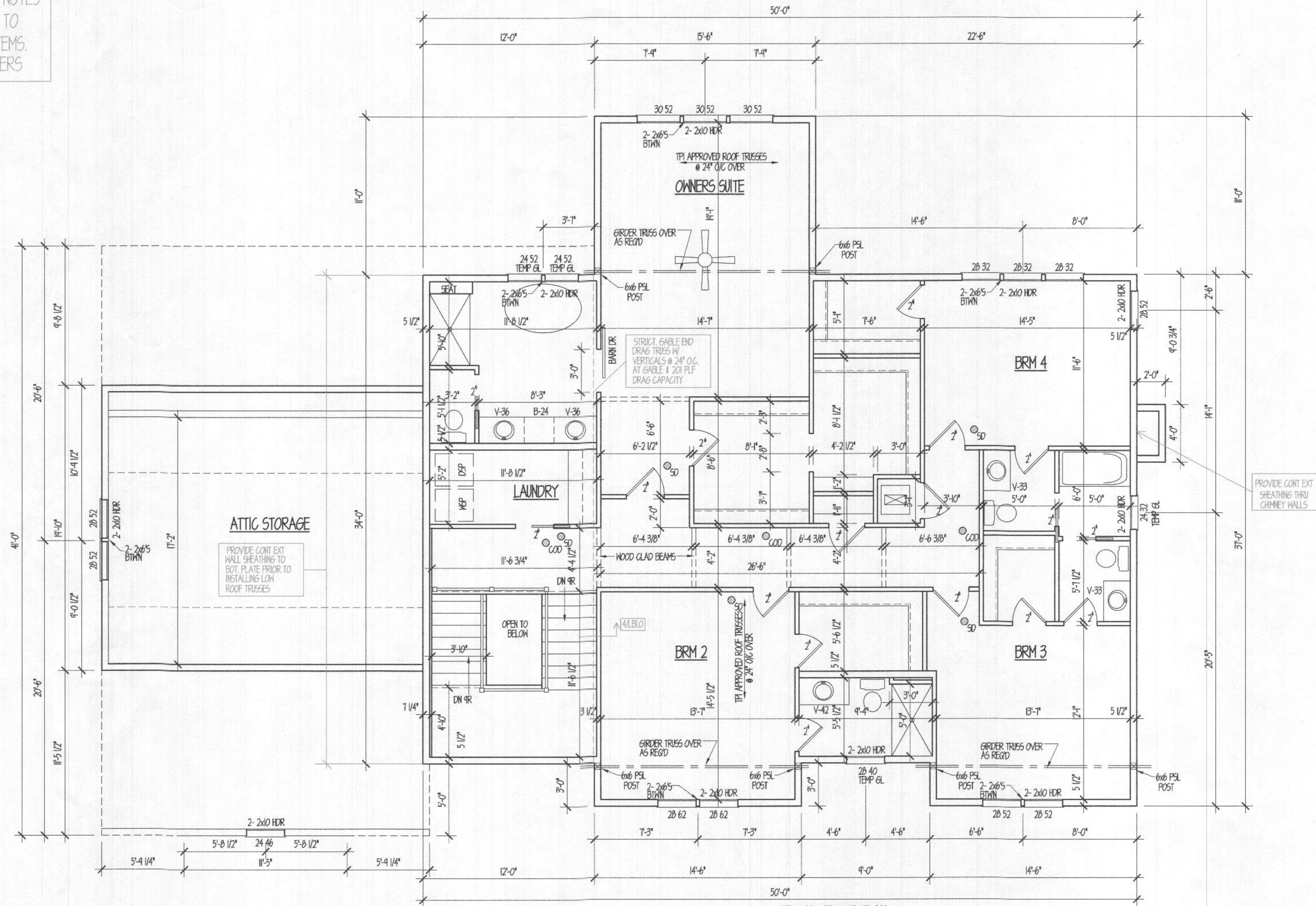
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date MARCH 11, 2022

SHEET NUMBER

A-1C

SEE SHEET LB 1.0 FOR LATERAL NOTES & DETAILS. M&K REVIEW LIMITED TO LATERAL-LOAD RESISTING SYSTEMS. ALL OTHER STRUCTURES BY OTHERS



SECOND FLOOR PLAN

2ND FLOOR LATERAL BRACING PLAN

CONTENT
SECOND FLOOR PLAN

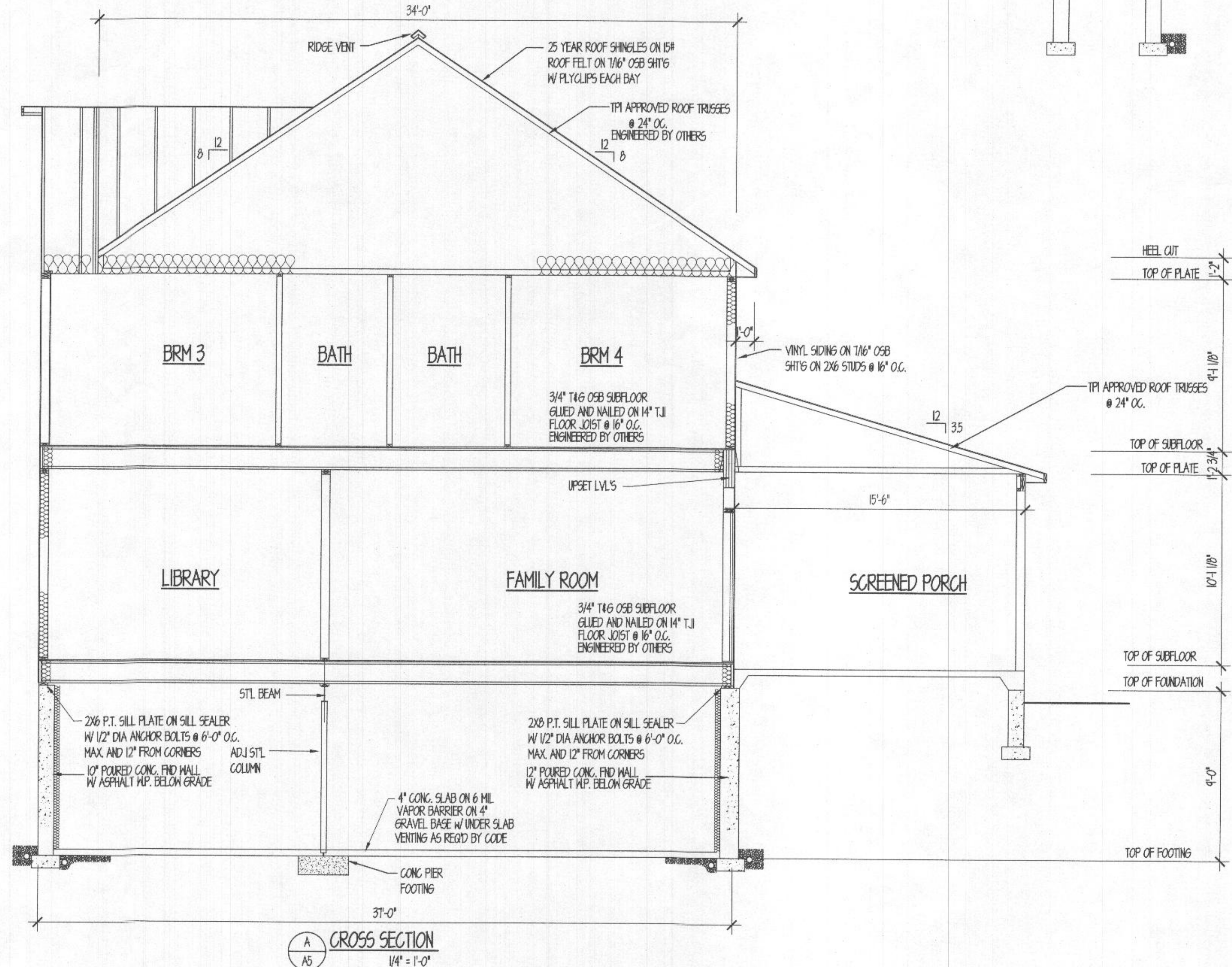
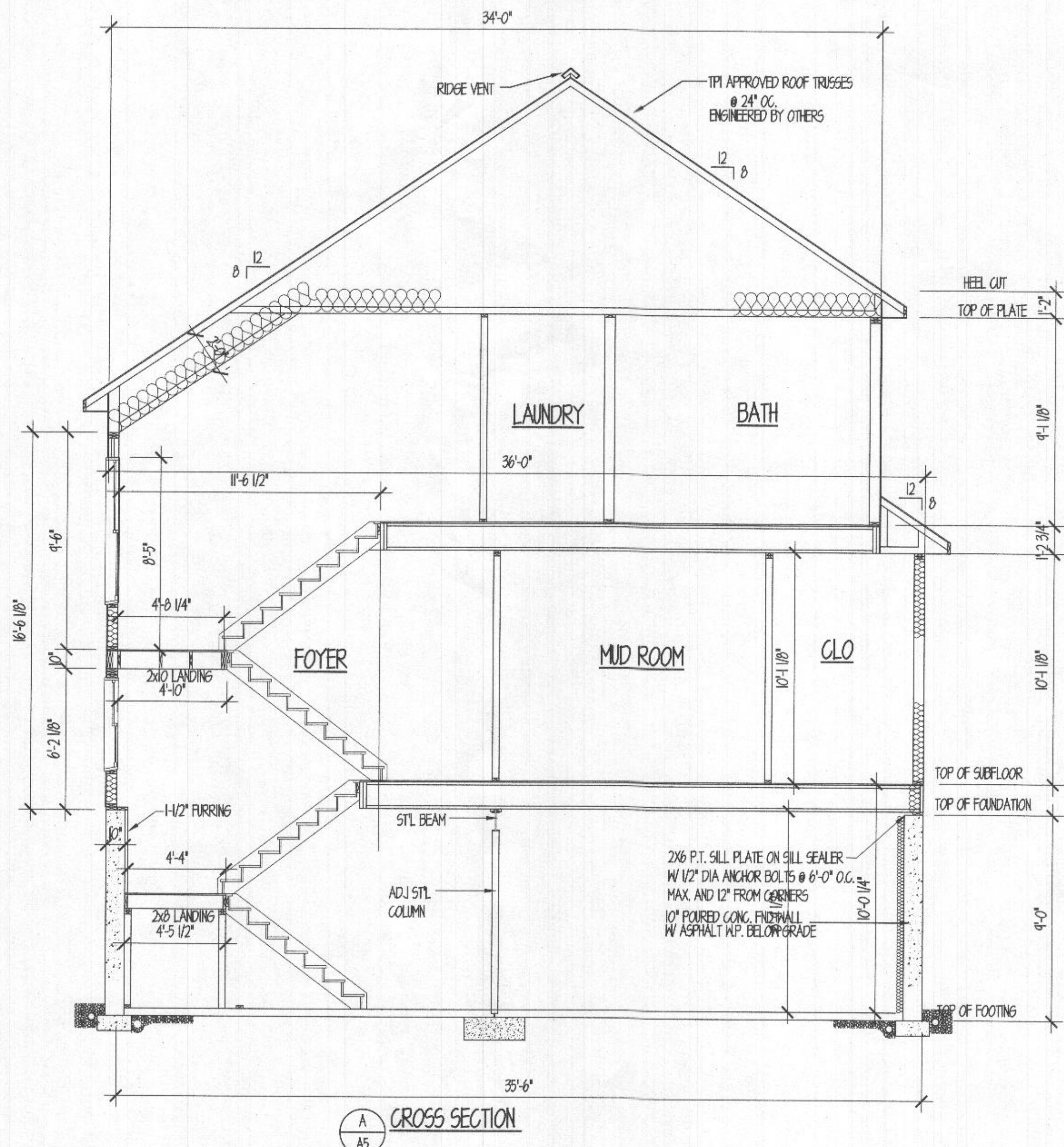
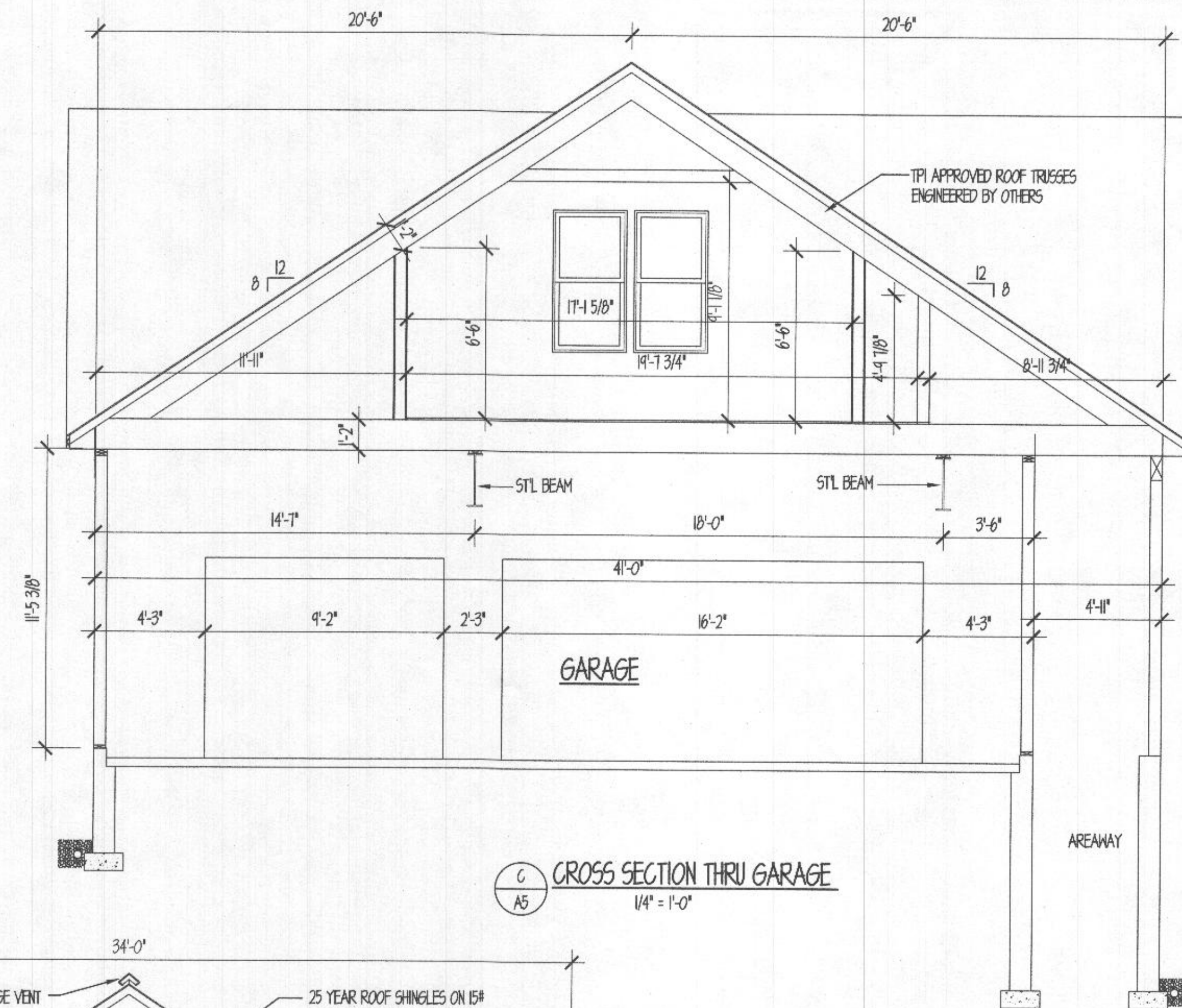
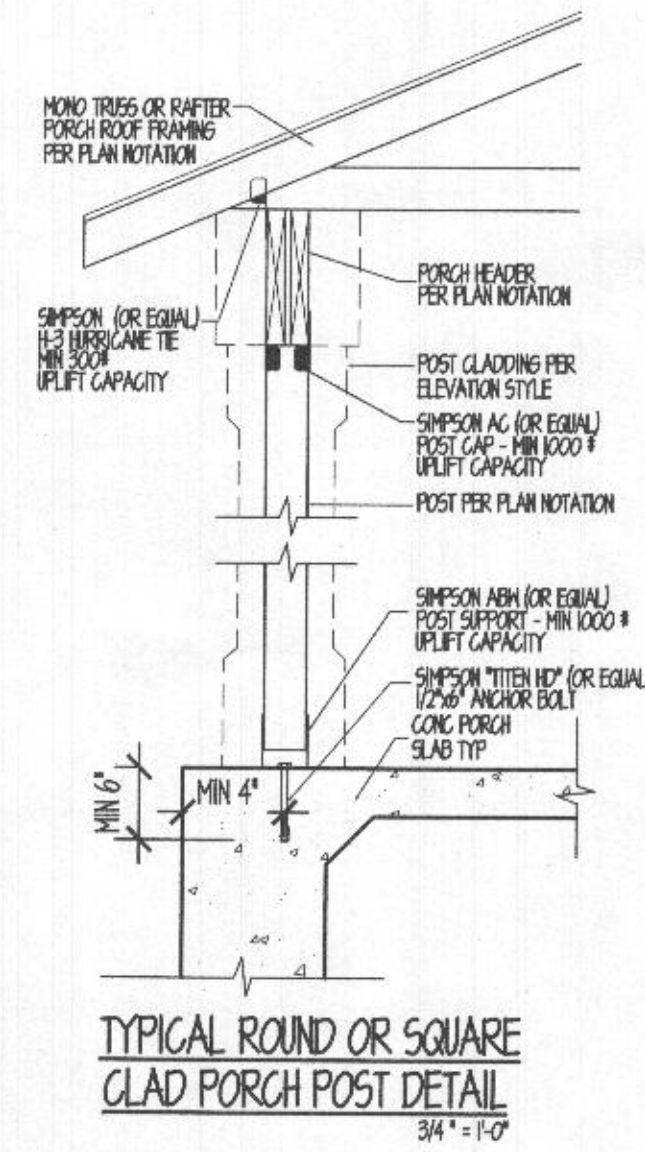
TITLE
CARRIGAN HOMES
DATTIN - THACKER
RESIDENCE

SCALE
1/4" = 1'-0"

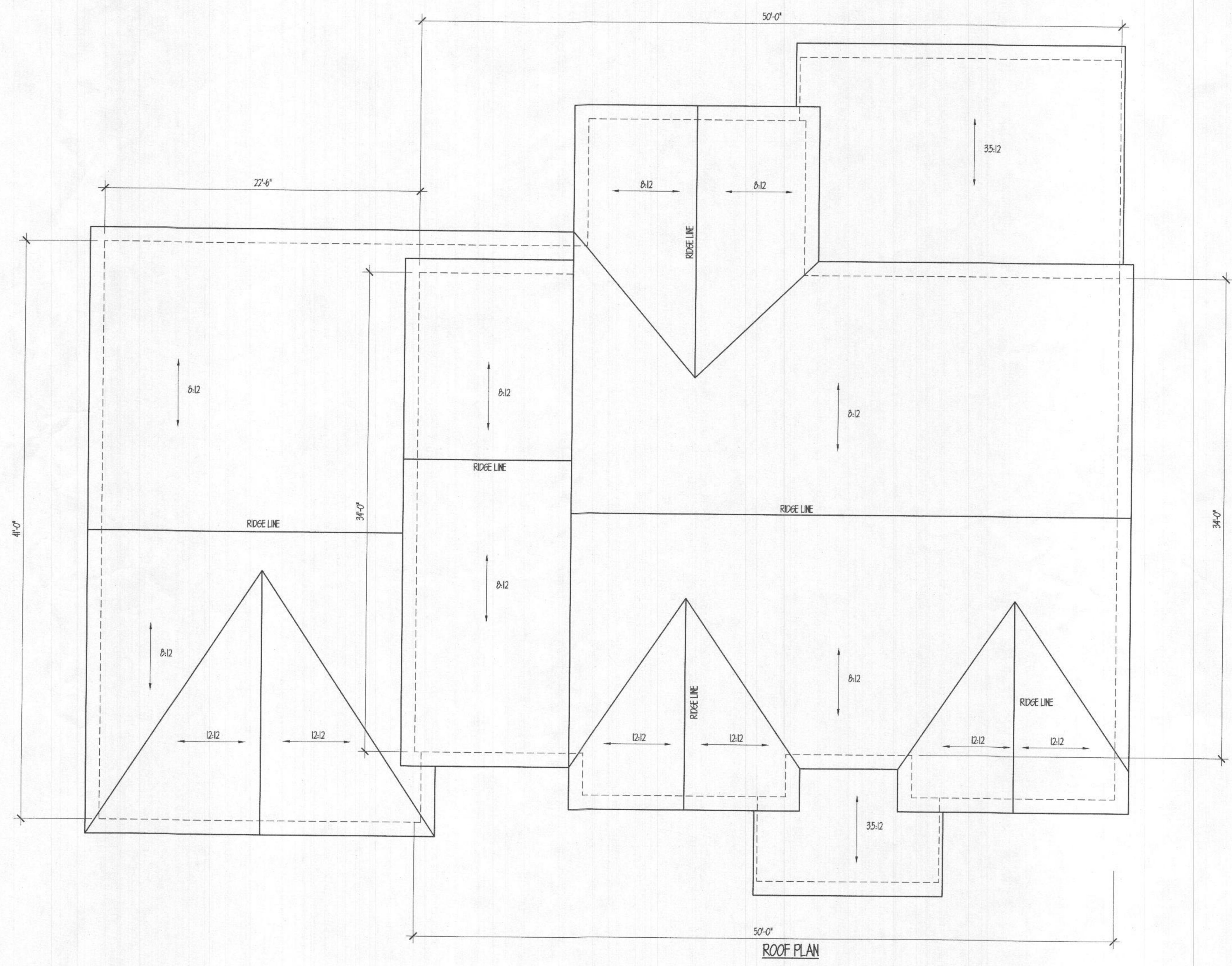
DATE
MARCH 11, 2022

SHEET NUMBER

A-4



CONTENT	CROSS SECTIONS
TITLE	CARRIGAN HOMES DATTIN - THACKER RESIDENCE
SCALE	1/4" = 1'-0"
DATE	MARCH 11, 2022
SHEET NUMBER	A-5



CONTENT	ROOF PLAN
TITLE	CARRIGAN HOMES DATTIN - THACKER RESIDENCE
scale	1/4" = 1'-0"
date	MARCH 11, 2022
SHEET NUMBER	A-6