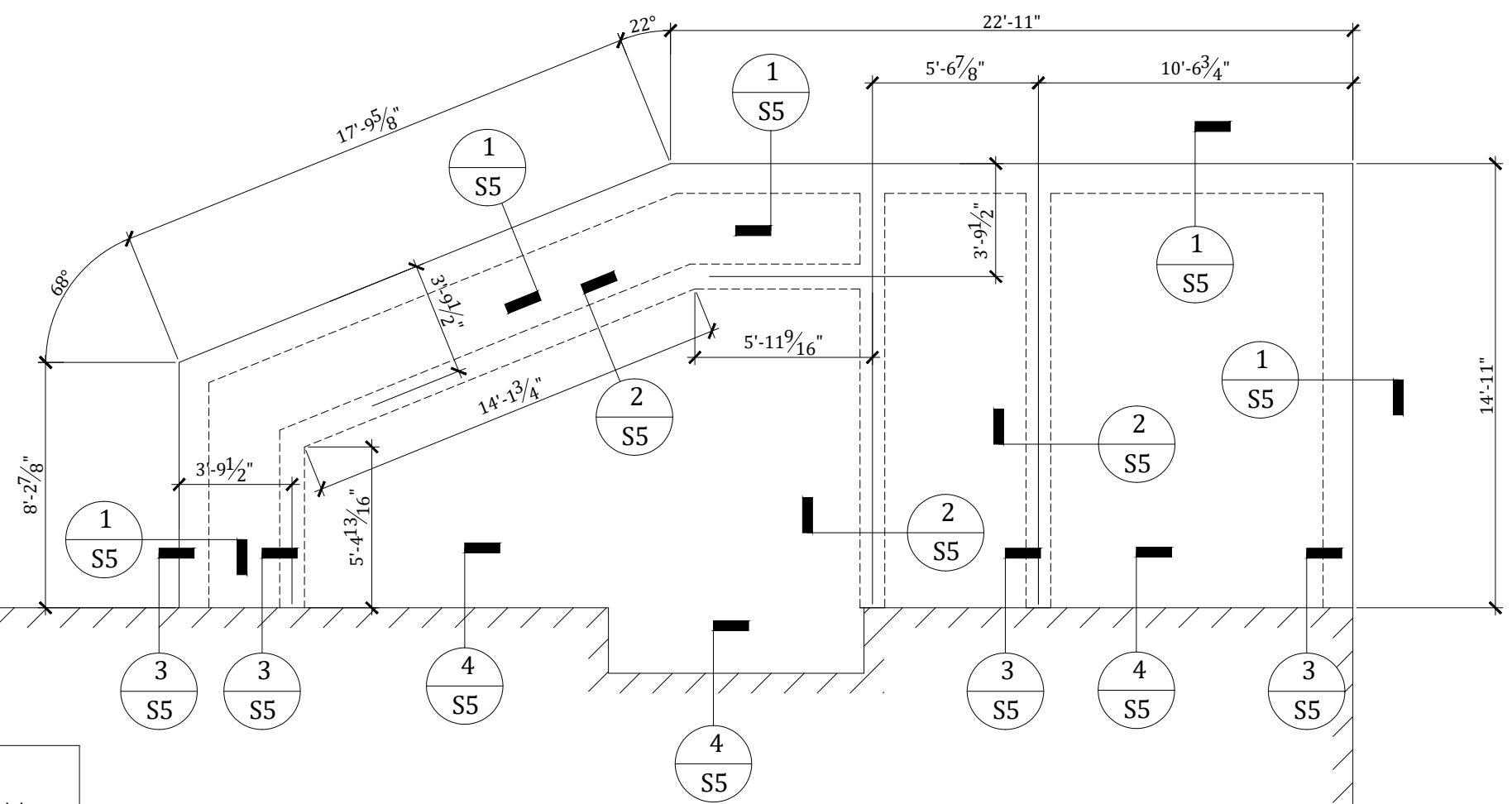


CODE: 2015 IRC

LOADING:

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ROOF LIVE	20 psf
ROOF SNOW	5 psf
FLOOR LIVE	40 psf
FLOOR DEAD	10 psf

WIND 115 mph
EXPOSURE C
RISK CAT II



EXISTING STRUCTURE

EXISTING STRUCTURE

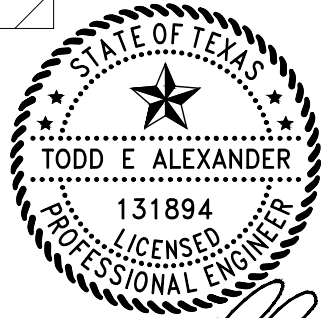
EXISTING STRUCTURE

- NOTES:
- 1) Concrete shall have a minimum 28 day compressive strength of 3,500 psi
 - 2) All #4 reinforcing shall be grade 60
 - 3) All #3 reinforcing shall be grade 40
 - 4) Foundation design is based on a non-expansive soil with a minimum bearing capacity of 1500 psf.

FOUNDATION PLAN

3/16" = 1'-0"

EXISTING STRUCTURE



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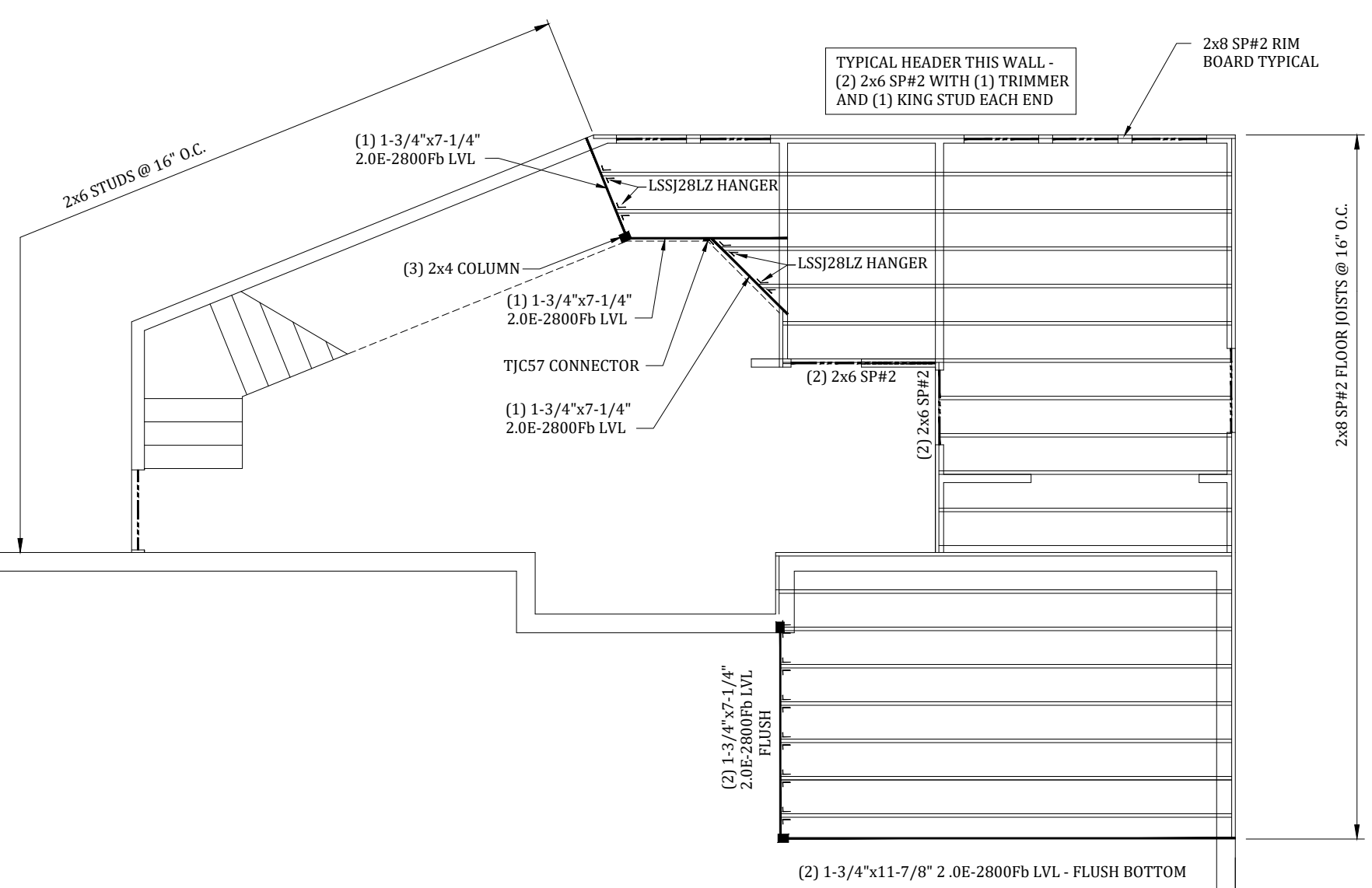
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ALL FLOOR SHEATHING SHALL BE $\frac{3}{32}$ " PLYWOOD OR $\frac{3}{4}$ " OSB W/ 10d RS NAILS AT 6" O.C. ALONG ALL SUPPORTED EDGES AND 12" O.C. IN FIELD

ALL WALL SHEATHING SHALL BE $\frac{1}{8}$ " PLYWOOD OR $\frac{7}{16}$ " OSB W/ 8d RS NAILS AT 6" O.C. ALONG ALL EDGES AND 12" O.C. IN FIELD - BLOCK ALL EDGES

CODE: 2015 IRC

LOADING:

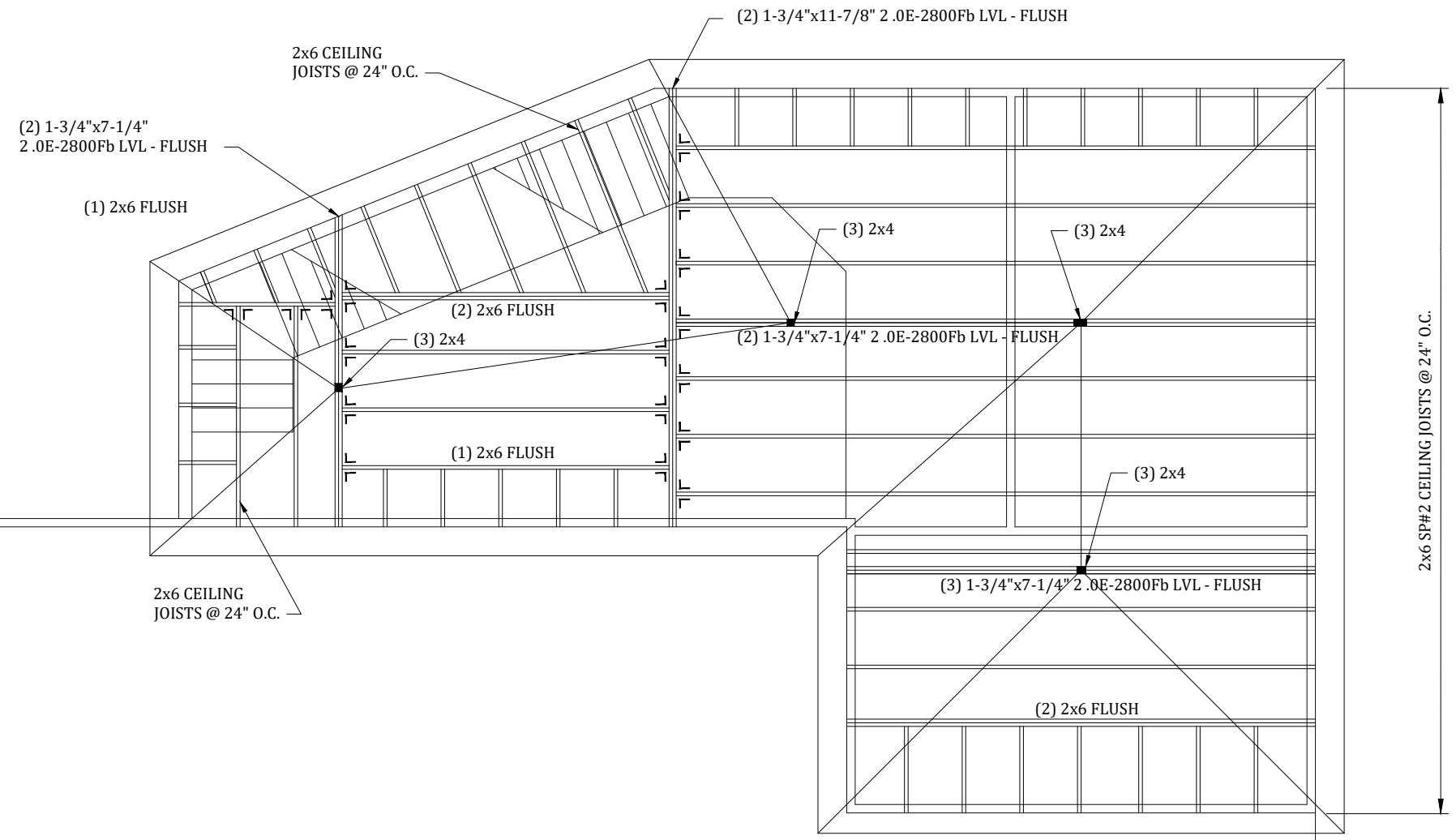
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ROOF LIVE	20 psf
ROOF SNOW	5 psf
FLOOR LIVE	40 psf
FLOOR DEAD	10 psf
WIND	115 mph
	EXPOSURE C
	RISK CAT II

UPPER FLOOR FRAMING

$\frac{3}{16}$ " = 1'-0"

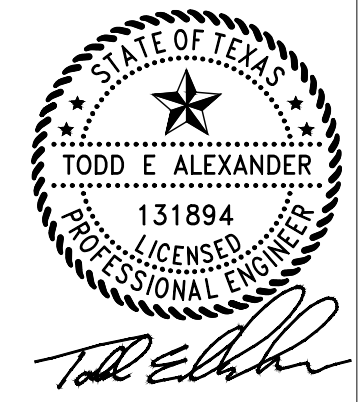
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CODE:	2015 IRC
LOADING:	
ROOF DEAD	15 psf
ROOF LIVE	20 psf
ROOF SNOW	5 psf
FLOOR LIVE	40 psf
FLOOR DEAD	10 psf
WIND	115 mph
	EXPOSURE C
	RISK CAT II



CEILING FRAMING PLAN

$\frac{3}{16}$ " = 1'-0"



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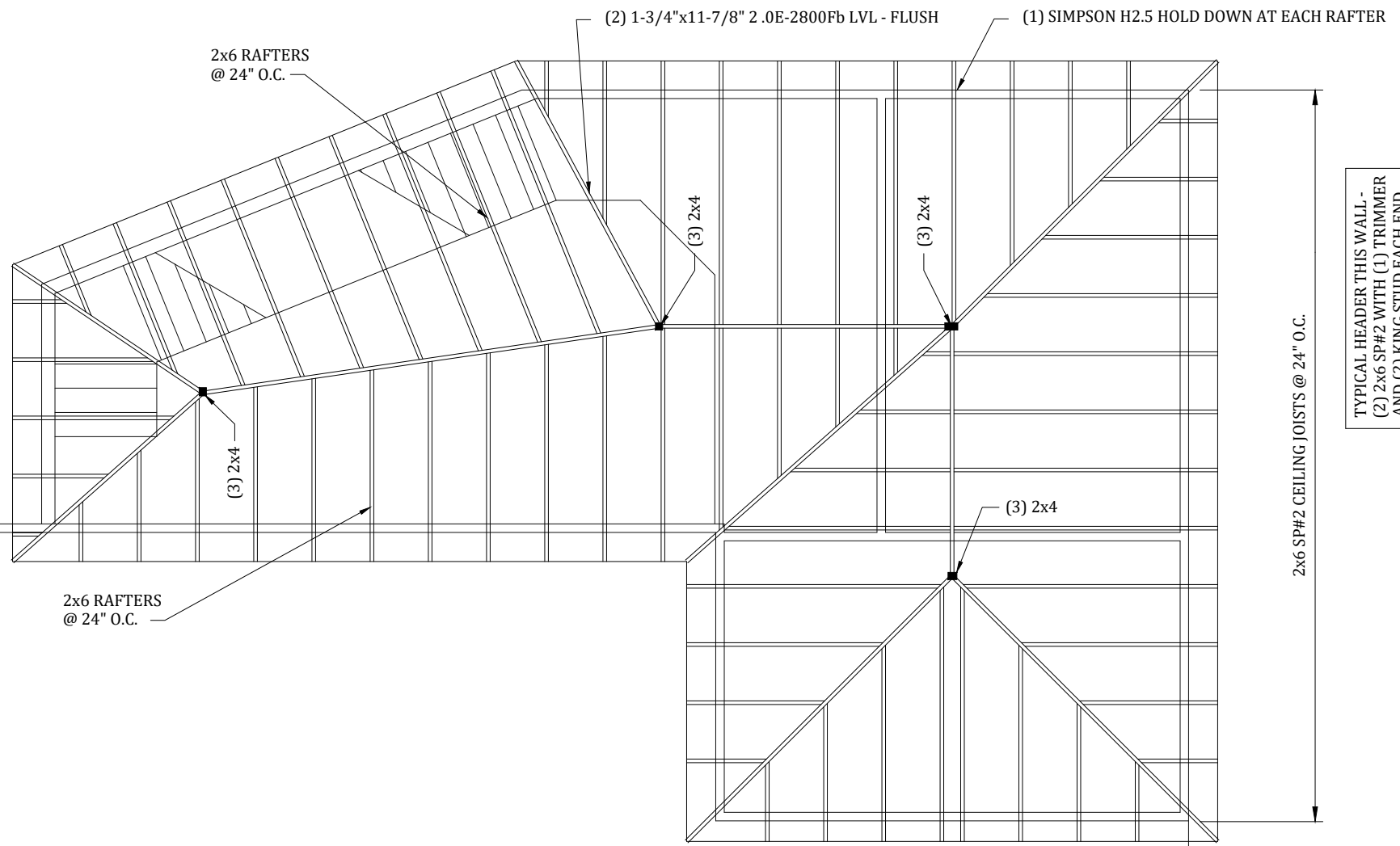
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ALL ROOF SHEATHING SHALL BE $\frac{15}{32}$ " PLYWOOD OR $\frac{7}{16}$ " OSB W/ 8d RS NAILS AT 6" O.C. ALONG ALL SUPPORTED EDGES AND 12" O.C. IN FIELD

ALL WALL SHEATHING SHALL BE $\frac{15}{32}$ " PLYWOOD OR $\frac{7}{16}$ " OSB W/ 8d RS NAILS AT 6" O.C. ALONG ALL EDGES AND 12" O.C. IN FIELD - BLOCK ALL EDGES

CODE:	2015 IRC
LOADING:	
ROOF DEAD	15 psf
ROOF LIVE	20 psf
ROOF SNOW	5 psf
FLOOR LIVE	40 psf
FLOOR DEAD	10 psf
WIND	115 mph
	EXPOSURE C
	RISK CAT II



RAFTER FRAMING PLAN

$\frac{3}{16}$ " = 1'-0"



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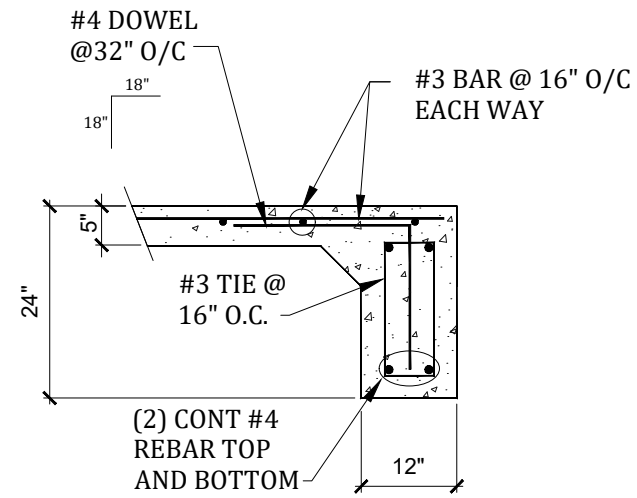
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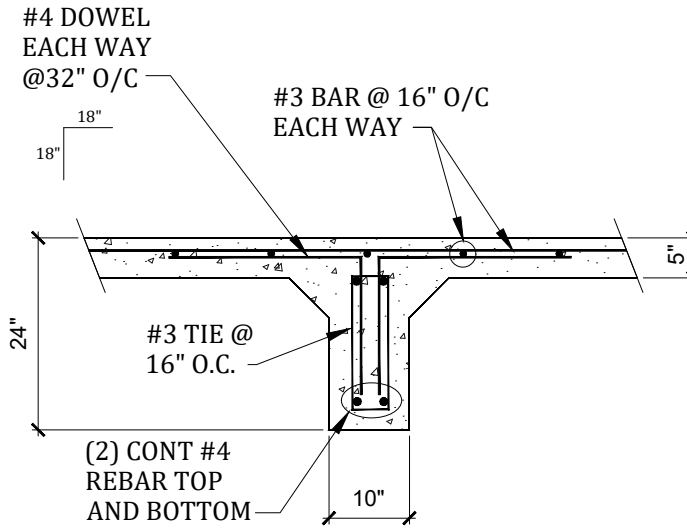
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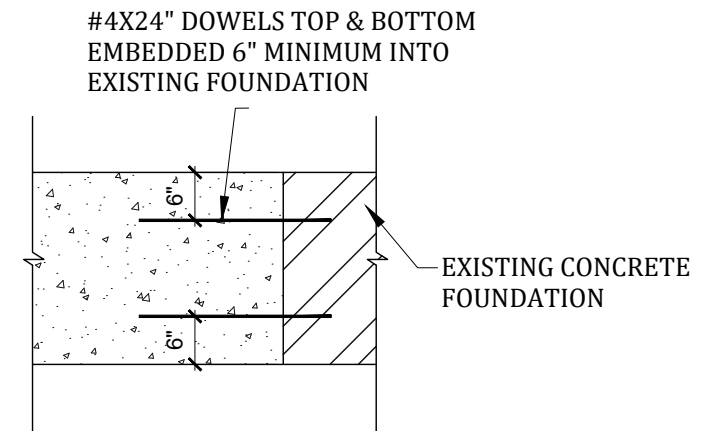
DETAIL - 1

$\frac{1}{2}" = 1'-0"$



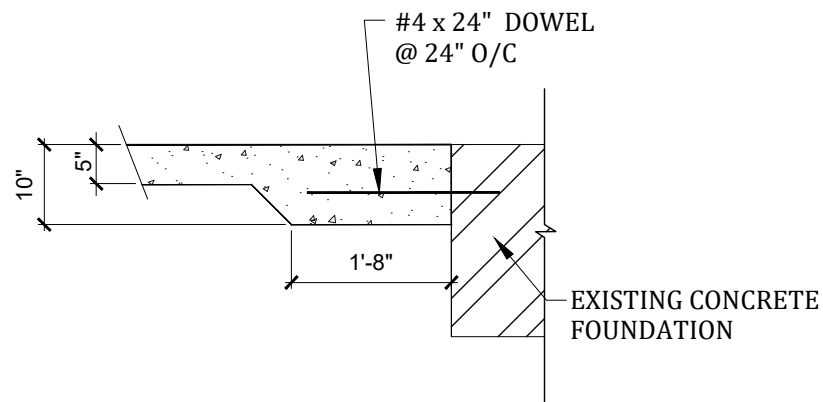
DETAIL - 2

$\frac{1}{2}" = 1'-0"$



DETAIL - 3

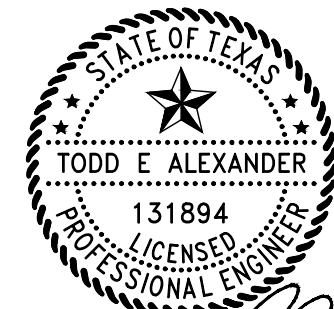
$\frac{1}{2}" = 1'-0"$



DETAIL - 4

$\frac{1}{2}" = 1'-0"$

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GENERAL NOTES:

APPLICABLE CODES:

- A. These general notes apply to all structural drawings. This project is designed in accordance with the International Building Code (IBC), 2015 Edition and the 'Minimum Design Loads for Buildings and Other Structures' (ASCE/SEI 7-10).
- B. All material and workmanship shall be in accordance with applicable provisions of the codes specified above.

LOADS USED IN DESIGN:

- A. Gravity Loading

Roof Snow Loads	5 psf
Roof Live Load	20 psf
Roof Dead Load	15 psf
Floor Live Load	40 psf
Floor Dead Load	10 psf
- B. Wind Loading

Velocity Ultimate (3 sec gust)	115 mph
Exposure	C
Risk Factor	II
Internal Pressure Coeff., GCpi	-0.18 / 0.18 (Enclosed)

COORDINATION:

- A. DO NOT SCALE PLANS. The layout shown is based solely on the architectural plans by Hal Sell Drafting & Design, last dated 01/31/2020. Changes affecting the layout shown must be specific and clearly conveyed to GreenWorks Engineering and Consulting in written form as a change for inclusion into these plans.
- B. Contractor and/or client shall verify all dimensions and layout prior to construction. All dimensions shall be checked against the architectural plans referenced above and any discrepancies shall be brought to the attention of the Architect and Engineer of Record immediately. Refer to mechanical, electrical and architectural plans for openings not shown on the structural plans.
- C. Shop drawings shall be prepared by the fabricator. Copying of these construction documents for use as shop drawings will not be permitted.
- D. All temporary shoring shall be the responsibility of the contractor.
- E. Design is based on the current applicable building codes listed above and shall be void if the building code at the time of construction changes from the codes listed above.

CONCRETE:

- A. Concrete has been designed and shall be constructed in accordance with the American Concrete Institute 'Building Code Requirement Reinforced Concrete' and 'Specifications for Structural Concrete for Buildings'(ACI 318 and ACI 301) latest editions. Section 1.3"Inspection" of ACI 318 is deleted in its entirety, see 'Field Observations' paragraph. All concrete shall be of stone aggregate, unless noted otherwise.
- B. Concrete Mixes: See specifications for any additional durability requirements.
 - Mix 'A' For Slabs on Grade
 - 4,000 psi minimum compressive strength at 28 days.
 - Type I/II Cement, minimum of 540 pounds per cubic yard.
 - Fly Ash not allowed.
 - 1" maximum aggregate size.
 - 3% maximum entrained air.
 - 4" maximum slump (8" with super-plasticizer).
 - Water reducing agent (use in accordance with manufacturer's recommendations).
- C. Reinforcing shall be new billet steel conform to ASTM A615, grade 60, except ties shall be grade 40. Provide not less than (2) #4 around all sides of all openings in concrete and extend 2'-0" past edges of openings. No splices Of reinforcement are permitted except as detailed or authorized by the Engineer of Record. Where permitted use contact lap splices, (36) bar diameters minimum.
- D. For the proper placement of the reinforcement provide chairs, bolsters, additional reinforcement, and accessories necessary to support the reinforcement at the positions shown on plans. Support of reinforcement on form ties, wood, brick, brickbat or other unacceptable material, will not be permitted.

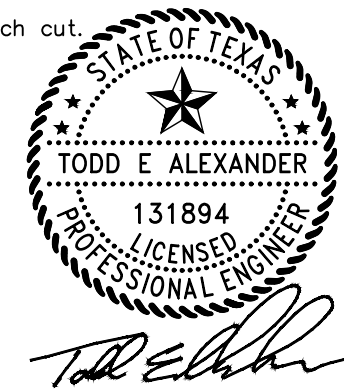
- E. Reinforcement shall be placed so that the following minimum concrete cover is provided, unless noted otherwise.

1) Concrete poured against earth.	3" Clear
2) Formed surfaces exposed to earth or weather. <ul style="list-style-type: none"> a) #6 Bars and larger. b) #5 Bars and smaller. 	2" Clear 1-1/2" Clear
3) Concrete not exposed to earth or weather.	3/4" Clear
4) Beams, columns, ties, stirrups or spirals around primary reinforcement, or primary reinforcement with no ties, stirrups or spirals.	1-1/2" Clear
5) Slabs.	Placed at center (U.N.O.)
- F. The contractor is responsible for determining when it is safe to remove forms and/or shoring. Forms and shoring must not be removed until the walls are strong enough to support their own weight and any superimposed loads. For foundation walls, this typically requires 12 hours of cumulative curing time at a temperature of 50° F or more. Concrete must be adequately covered during cold periods to maintain this surface temperature. Due to varying weather conditions, alternative curing processes, and the use of Type I/II cement, GreenWorks Engineering suggests forms remain in place a minimum of 3 days to assure this performance specification has been met. When forms are stripped there must be no excessive deflection, distortion, discoloration and no evidence of damage to the concrete. Adequate thermal protection of the concrete shall be continued after stripping for a cumulative period of 48 hours at 50° F, or more, after the initial pour. See applicable notes for specifications on when to backfill foundation walls.

WOOD:

- A. Framing lumber shall be Southern Pine (unless noted otherwise) and as follows or better:

2x4 studs	Stud Grade
2x6 or larger studs.	#2 Grade
Plates.	#3 Grade
Joists and Rafters	#2 Grade
2x and 4x Beams	#2 Grade
6x or larger Beams	#1 Grade Beam and Stringer
Glu-Lam Beams	24F-V4 DF/DF unless noted otherwise
Posts.	#1 Grade Post and Timber
LVL	2.0 E - Fb 2800
- B. All wood construction shall be in conformance with the provisions of "The National Design Specification for Wood Construction", latest edition.
- C. Laminated Veneer Lumber (LVL) and prefab joists shall be manufactured by 'TrusJoist' or equivalent or shall meet APA Performance Standards, and installed per manufacturers specifications. Supplier shall furnish shop drawings showing all joists, bridging, blocking and miscellaneous accessories for review by the structural engineer prior to fabrication.
- D. Where not otherwise shown on plans, all nailing or screwing shall be as indicated in the current Building Code. All sheathing must be nailed. Adhesives SHALL NOT be used in place of nailing.
- E. Metal connectors to be provided by 'Simpson Strong-Tie' or equivalent.
- F. APA rated OSB may be used in lieu of plywood with prior approval from Engineer of Record.
- G. Minimum treatment for pressure treated lumber shall be as follows:
 - 1) Wood not in contact with soil 0.25 ACQ
 - 2) Wood in contact with soil 0.40 ACQ
- H. Pressure treated lumber that has been cut shall be site treated at each cut.
- I. Bolt holes in lumber shall be drilled as bolt diameter plus 1/16".



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