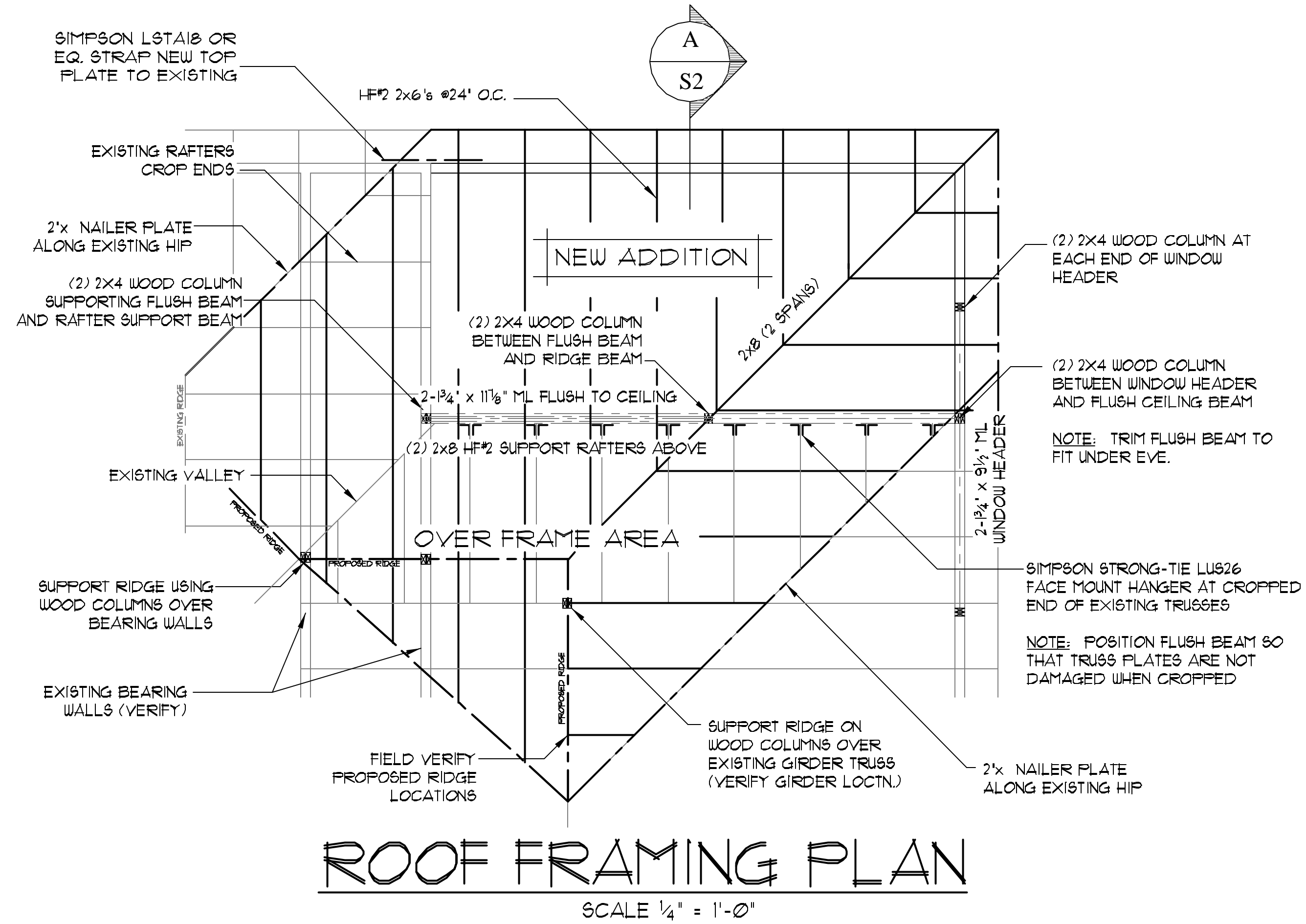
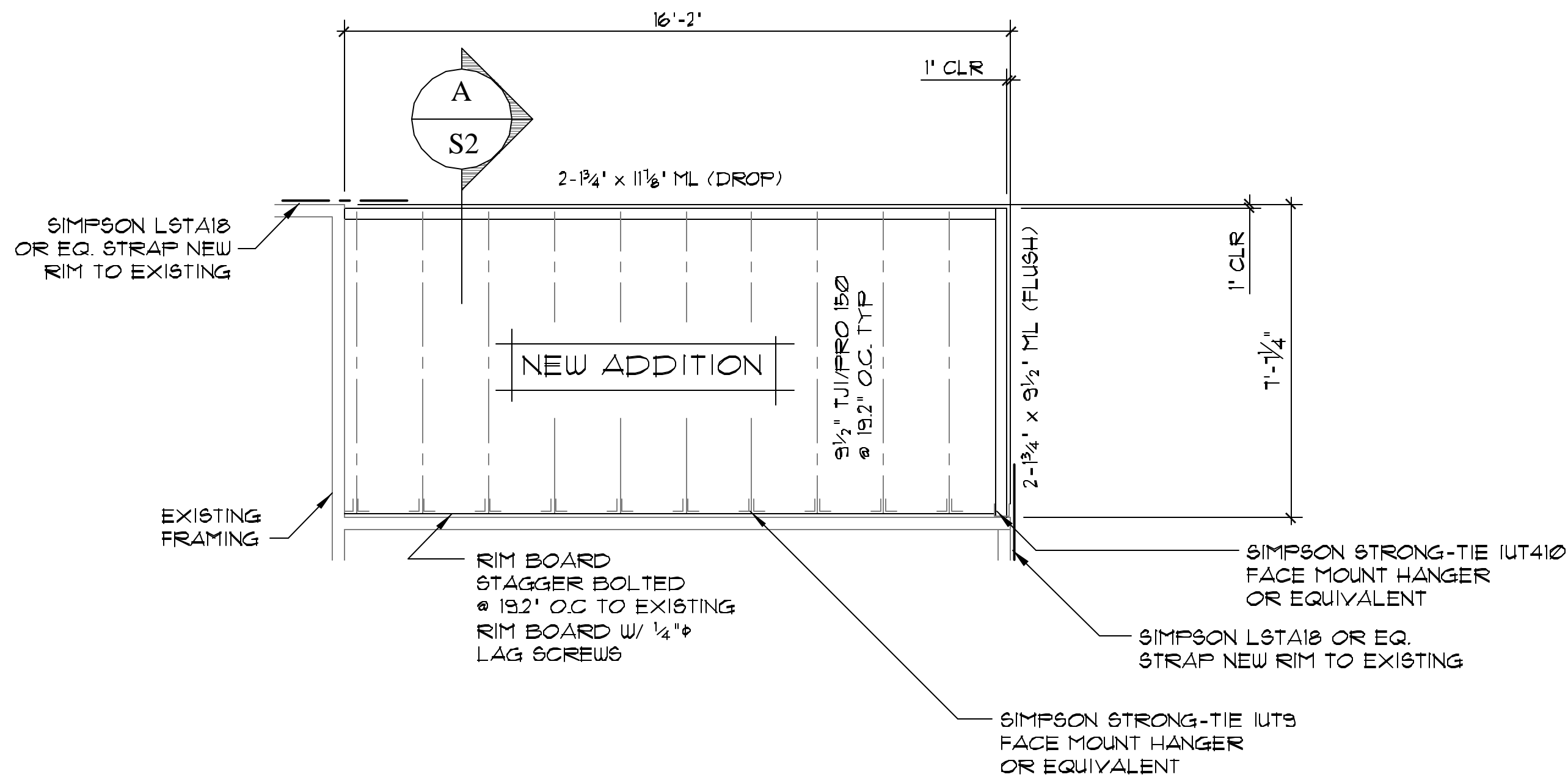


FOUNDATION PLAN
SCALE 1/4" = 1'-0"



ROOF FRAMING PLAN
SCALE 1/4" = 1'-0"



FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"

HELIX FOUNDATION SCHEDULE					
SYMBOL	QUANTITY	DESIGN CAPACITY	MIN. LENGTH*	PIER CAP CONNECTION	NOTES
①	3	6 KIPS	15' (FT)	MPI920 4x4 WOOD POST CAP	MIN. Ø25Ø WALL HELIX SHAFT (STD. DUTY)

* MIN. DISTANCE BETWEEN GROUND SURFACE AND UPPERMOST HELICAL BEARING PLATE

EXAMPLE PREPARED BY:
SECURE
FOUNDATIONS & STRUCTURES, INC.
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Fort Collins, CO 80521
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RESIDENTIAL ADDITION

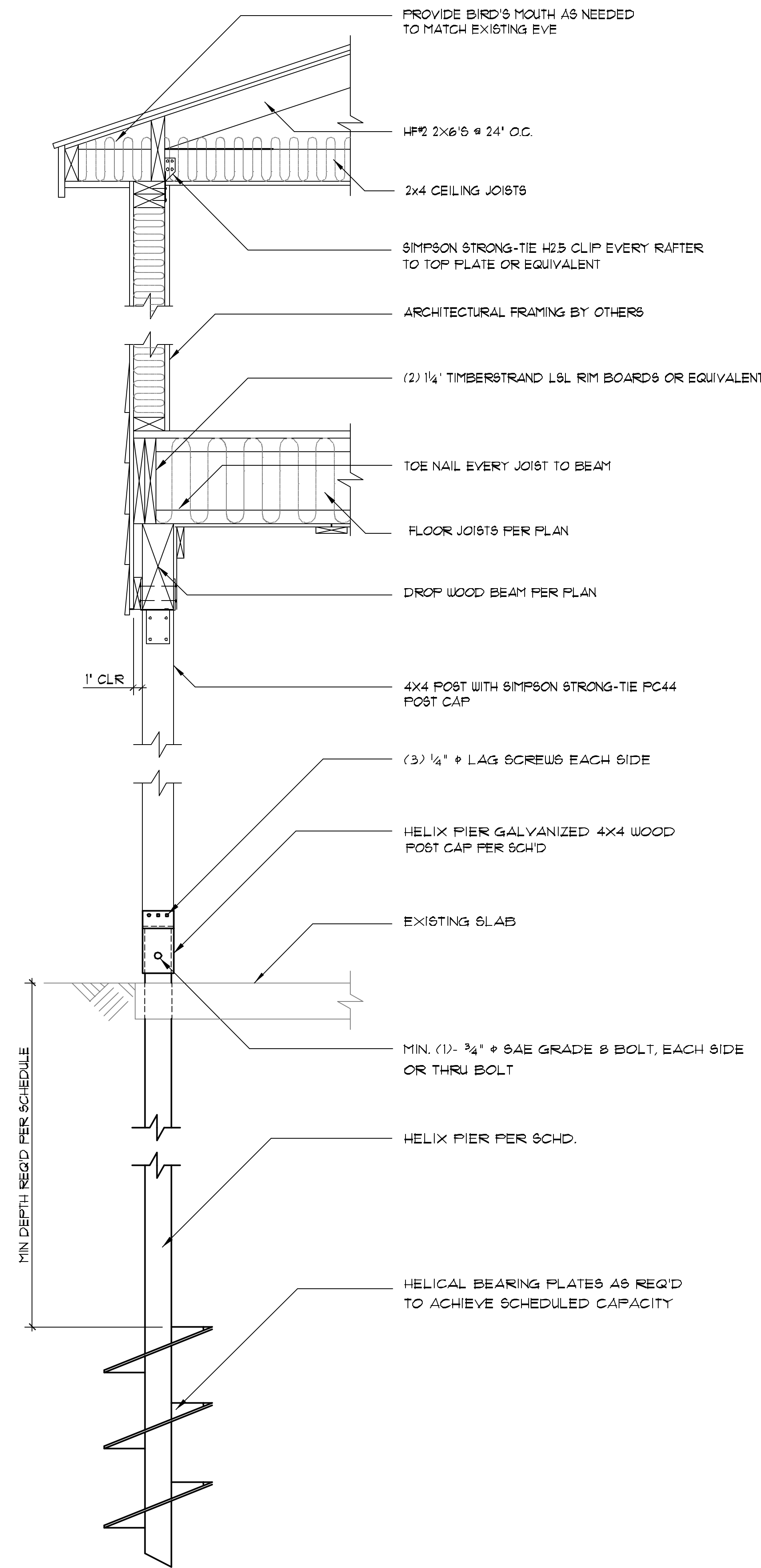
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NO.	DATE	REVISION/ISSUE
1		
2		
3		

EXAMPLE 1

DESIGN/CHK	SHEET
WRR/HAP	S1
PROJECT #	OR
DATE: 07-11-03	S2
SCALE: 1/4" = 1'-0"	

PLAN NOT VALID WITHOUT ORIGINAL NET STAMP.

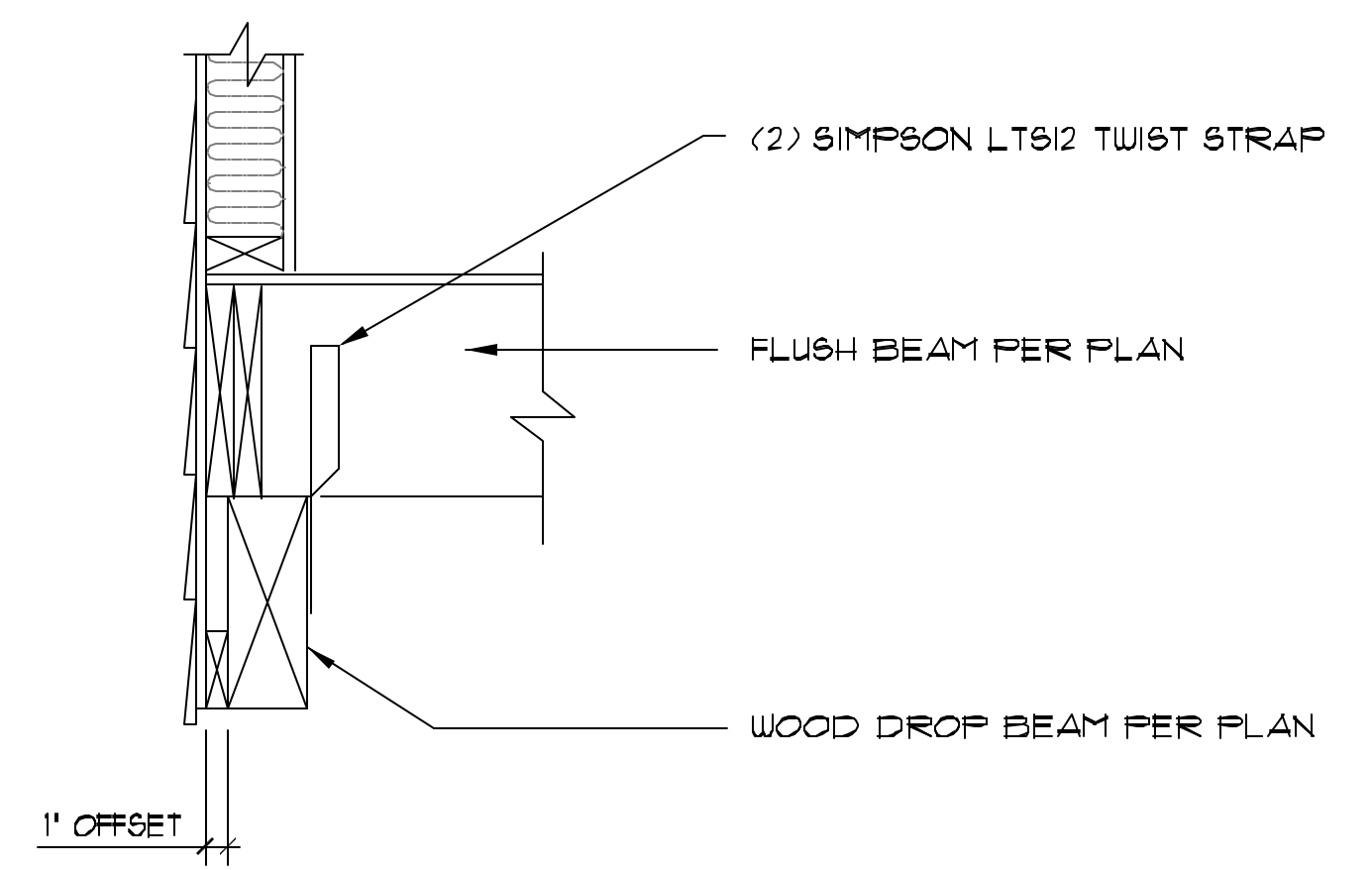


A
S2
NOT TO SCALE

TYPICAL HEADER SCHEDULE

1. DOOR/WINDOW OPENING: 2 FEET OR LESS
(2) - 2 x 8 w/ 1-2x TRIMMER
2. DOOR/WINDOW OPENING: 2 FEET TO 4 FEET
(2) - 2 x 10 w/ 1-2x TRIMMER
3. DOOR/WINDOW OPENING: 4 FEET TO 6 FEET
(2) - 2 x 12 w/ 2-2x TRIMMER

NOTE: See the plan for larger openings. For all headers supporting Girder Truss or other point loads contact the engineer if specific size not shown on plan.



**FLUSH TO DROP
BEAM DETAIL**
NOT TO SCALE

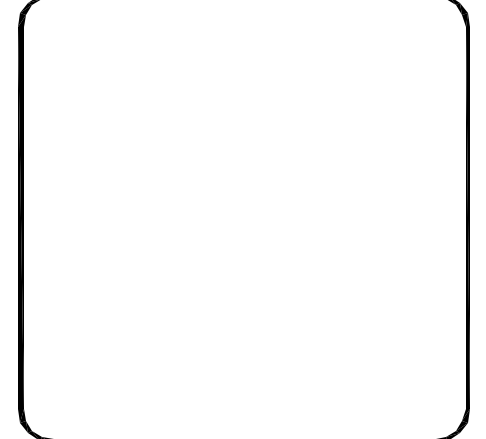
General Notes:

1. All helix foundations and pier caps shall be as manufactured by Magnum Piering Inc. or equivalent.
2. Slope ground surface to drain away on all sides. In areas where sidewalks or paving do not immediately adjoin the structure, this slope should have a minimum grade of 10% for at least 10 feet.
3. Exterior slabs shall be isolated from the rest of the structure.
4. Helix foundation installation should be observed by a representative from Secure Foundations and Structures, Inc. (970) 472-6255 or other geotechnical engineer to verify installation torques and minimum depth.
5. All framing lumber shall be Hem-Fir No. 2 or better, Fb=850 psi, Fv=75 psi, Fc=405 psi, E=1,300,000 psi.
6. TJI Joists shall be by Trus Joist MacMillian or equivalent.
7. 19E Microlam beams and headers shall be by Trus Joist MacMillian or equivalent.
8. Sheath all exterior walls with minimum 7/16" thick shear panels conforming to UBC grade structural 1. Nail panels with 8d nails at 4' o.c. at all edges and 12' o.c. at intermediate members.
9. All connections shall be Simpson Strong-Tie or equivalent.
10. All construction shall be in conformance with the latest edition of the Uniform Building Code.
11. Structural design is based on the following loads and general design criteria.
Live Loads: Roof=30psf Floor=40psf
Wind: 100 mph wind, Exposure B
Seismic Zone=1
12. Not applicable.
13. Provide minimum 3/4" thick plywood tongue and groove floor sheathing attached with 8d nails spaced at 6' o.c. along beams, joists, and intermediate framing members.
14. All interior and exterior walls to be framed with 2x4 studs at 16" o.c. Exterior walls shall have double top plates. Use minimum (2) studs built-up and nailed with 16d nails at 24" o.c. at each exterior wall corner. Studs are to be Hem-Fir Larch Stud Grade and better, Fb=650psi, Fv=75psi, Fc=500psi, E=1,300,000 psi.
15. Not applicable.
16. Contractor to verify all measurements prior to construction.

Approved by Howard A. Perko, P.E.

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EXAMPLE PREPARED BY:
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RESIDENTIAL ADDITION	
NO. DATE	REVISION/ISSUE
1	A
2	B
3	C

EXAMPLE 1

DESIGN/CHK: WRR/HAP	SHEET
DRAWN:	S2
PROJECT #:	OR
DATE: 07-11-03	S2
SCALE: 1/4" = 1'-0"	

PLAN NOT VALID WITHOUT ORIGINAL MET. STAMP.