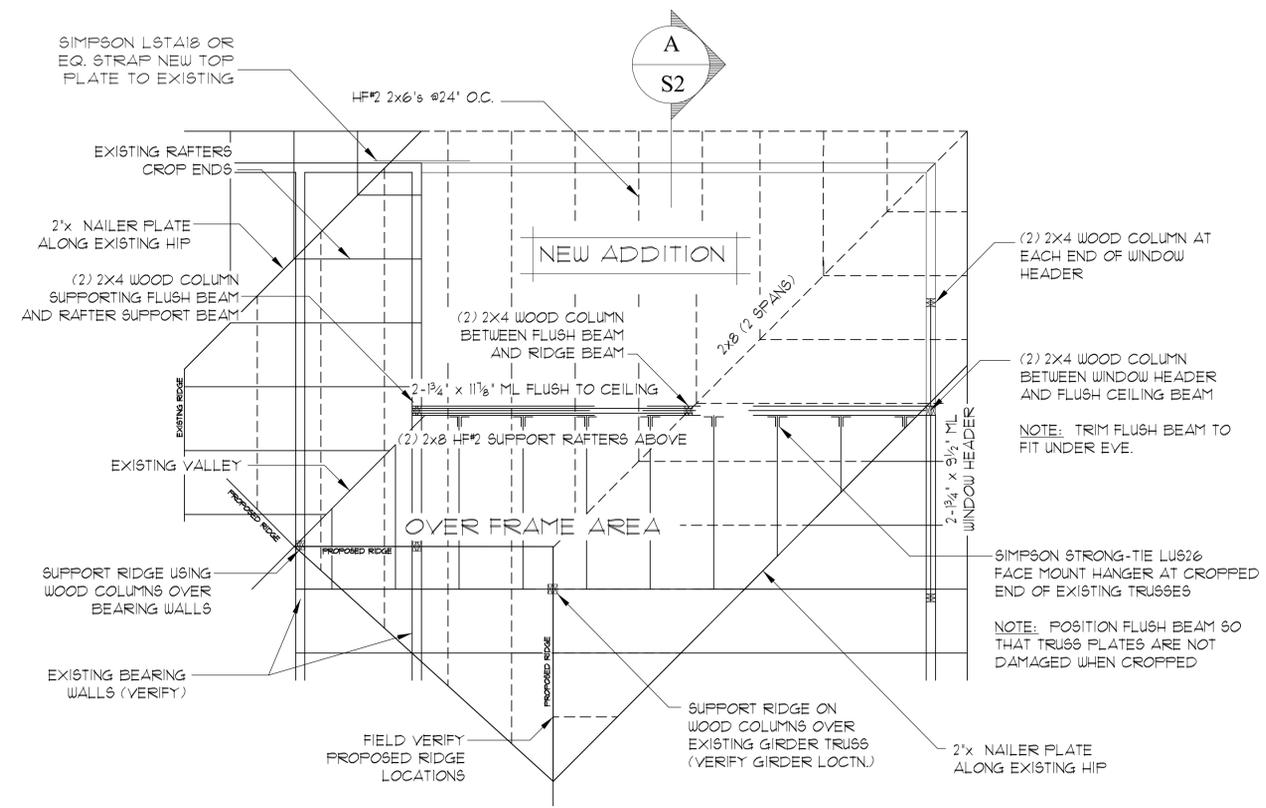
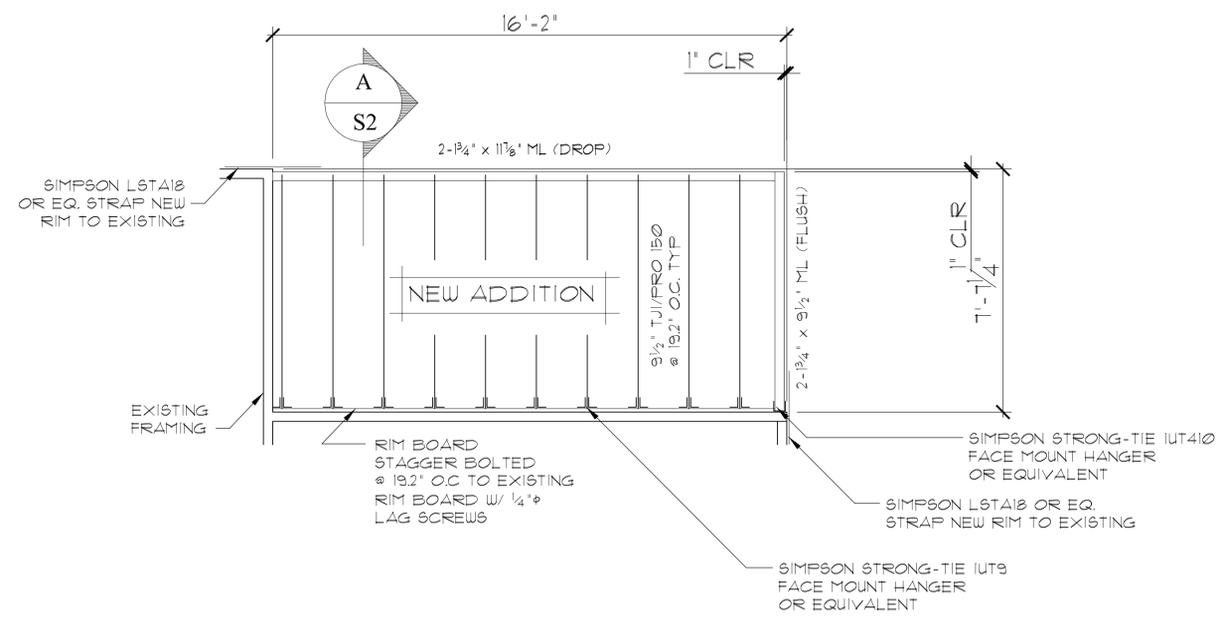


FOUNDATION PLAN
 SCALE 1/4" = 1'-0"



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



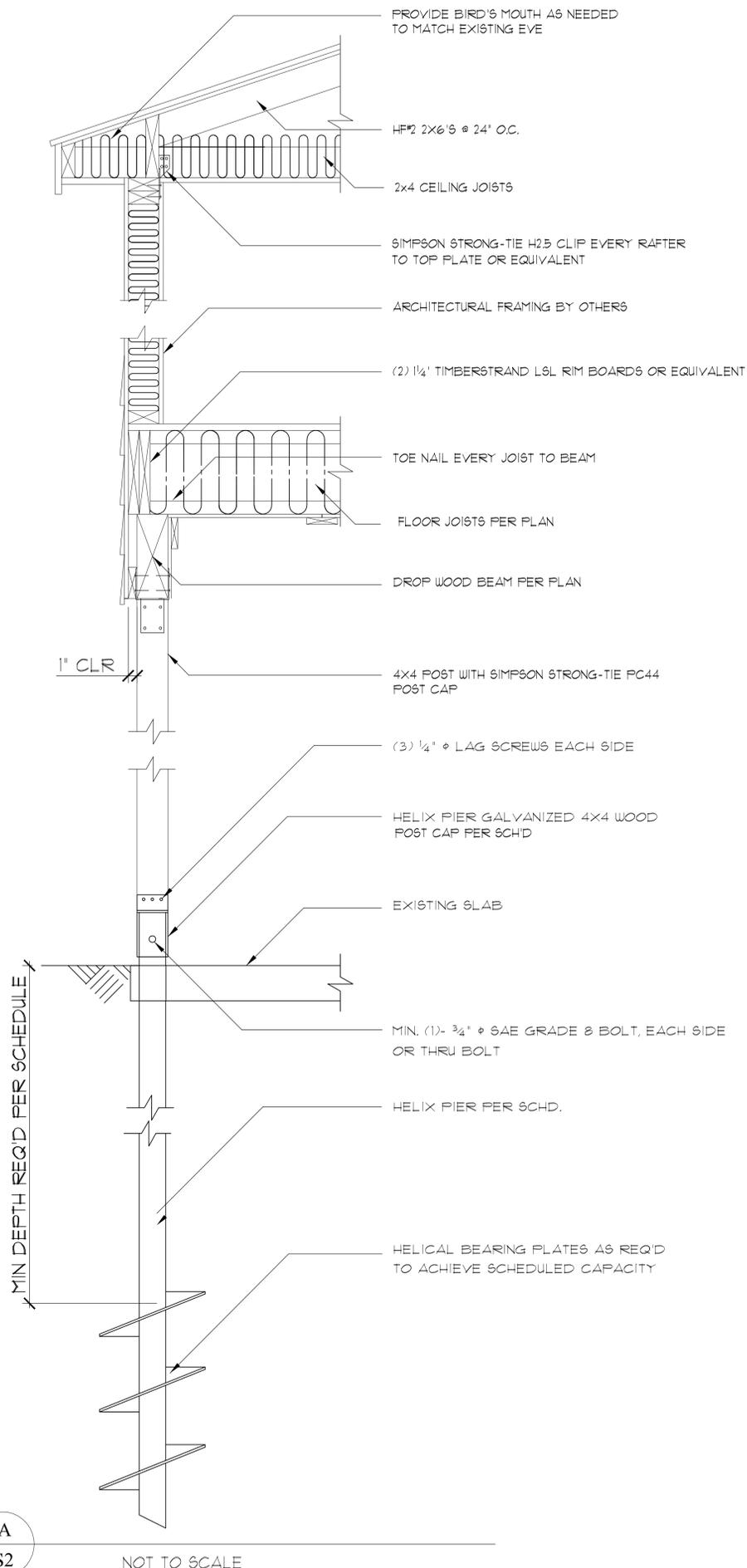
FLOOR FRAMING PLAN
 SCALE 1/4" = 1'-0"

HELIX FOUNDATION SCHEDULE					
SYMBOL	QUANTITY	DESIGN CAPACITY	MIN. LENGTH*	PIER CAP CONNECTION	NOTES
①	3	6 KIPS	15' (FT)	MP1920 4X4 WOOD POST CAP	MIN. Ø250 WALL HELIX SHAFT (STD. DUTY)

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

HELICAL PILE LAYOUT

NO.	DATE	REVISION/ISSUE



TYPICAL HEADER SCHEDULE

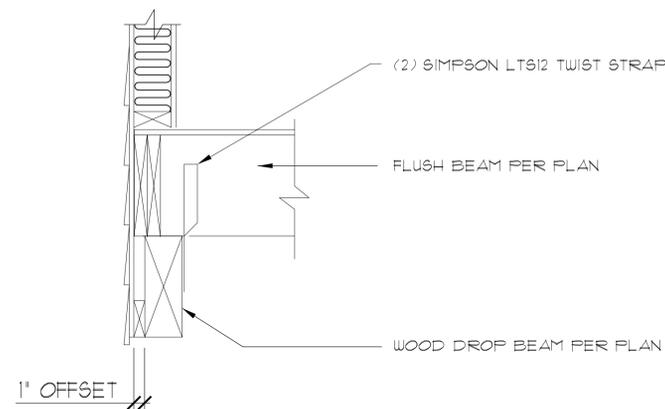
1. DOOR/WINDOW OPENING: 2 FEET OR LESS
(2) - 2 x 8 w/ 1-2x TRIMMER
2. DOOR/WINDOW OPENING: 2 FEET TO 4 FEET
(2) - 2 x 10 w/ 1-2x TRIMMER
3. DOOR/WINDOW OPENING: 4 FEET TO 6 FEET
(2) - 2 x 12 w/ 2-2x TRIMMER

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.

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 Magnum or other geotechnical engineer to verify installation torques and minimum depth.
5. All framing lumber shall be Hem-Fir No. 2 or better, $F_b=850$ psi, $F_v=75$ psi, $F_c=405$ psi, $E=1,300,000$ psi.
6. TJI Joists shall be by Trus Joist MacMillian or equivalent.
7. LBE Microllam 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 I. 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, $F_b=650$ psi, $F_v=75$ psi, $F_c=500$ psi, $E=1,300,000$ psi.
15. Not applicable.
16. Contractor to verify all measurements prior to construction.

Approved by Howard A. Perko, P.E.



FLASH TO DROP BEAM DETAIL

NOT TO SCALE



MAGNUM GEO-SOLUTIONS, LLC
383 W. DRAKE RD., SUITE 1
FORT COLLINS, CO 80526
913-275-2442
800-822-7437
WWW.MAGNUMPIERING.COM

THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF THE ENGINEER AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD IN WHOLE OR IN PART IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM THE ENGINEER. TITLE TO THESE PLANS AND SPECIFICATIONS SHALL REMAIN WITH THE ENGINEER WITHOUT PREJUDICE, AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

COPYRIGHT MAGNUM GEO-SOLUTIONS, LLC ALL RIGHTS RESERVED.

PLAN NOT VALID WITHOUT ORIGINAL WET STAMP

PROJECT NAME:

PROJECT NAME

PROJECT DESCRIPTION
STREET ADDRESS
CITY, STATE

CLIENT:
YOUR COMPANY NAME
STREET ADDRESS
CITY, STATE
Contact: Your Name
Your Number

FOUNDATION AND PILE DETAILS

NO.	DATE	REVISION/ISSUE

THESE DRAWINGS AND DETAILS ARE PROVIDED FOR GENERAL REFERENCE PURPOSES AND SHALL NOT BE USED FOR OR BY ANY MAGNUM COMPETITOR PARTY OR PUBLISHED IN ANY MANNER.

DESIGNED BY: MMB DATE: 5/26/09
DRAWN BY: MMB SCALE: AS SHOWN
CHECKED BY: HAP
PROJECT NO: RMB19

SHEET: S2

A
S2