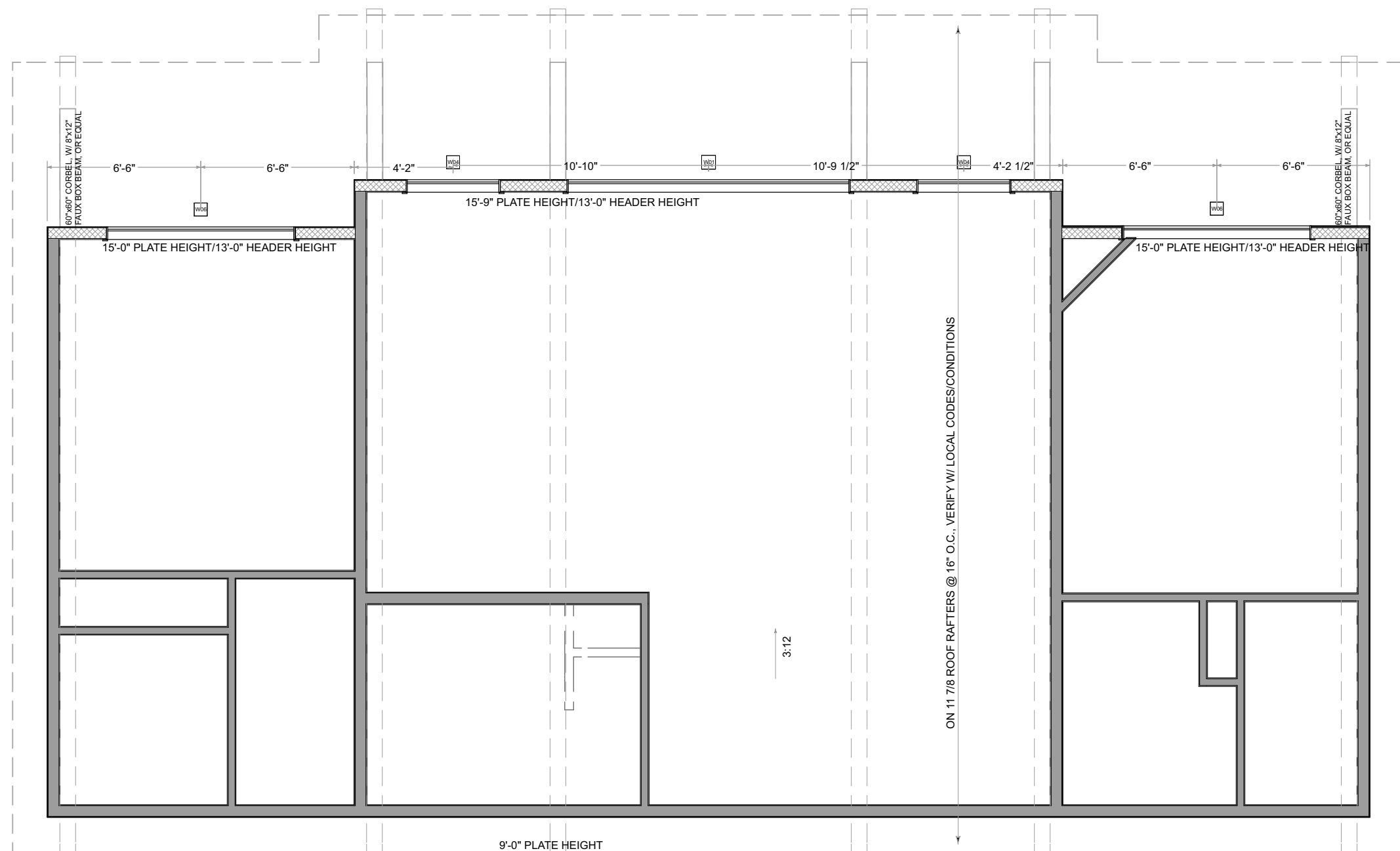


**MAIN FLOOR PLAN**  
1/4"=1'-0"



**ROOF PLAN**  
3/16"=1'-0"

FIRST FLOOR AREA: 1,455 SQ. FT.  
DECK AREA: 506 SQ. FT.  
Total Under Roof Area is taken to outside edge of sheathing.

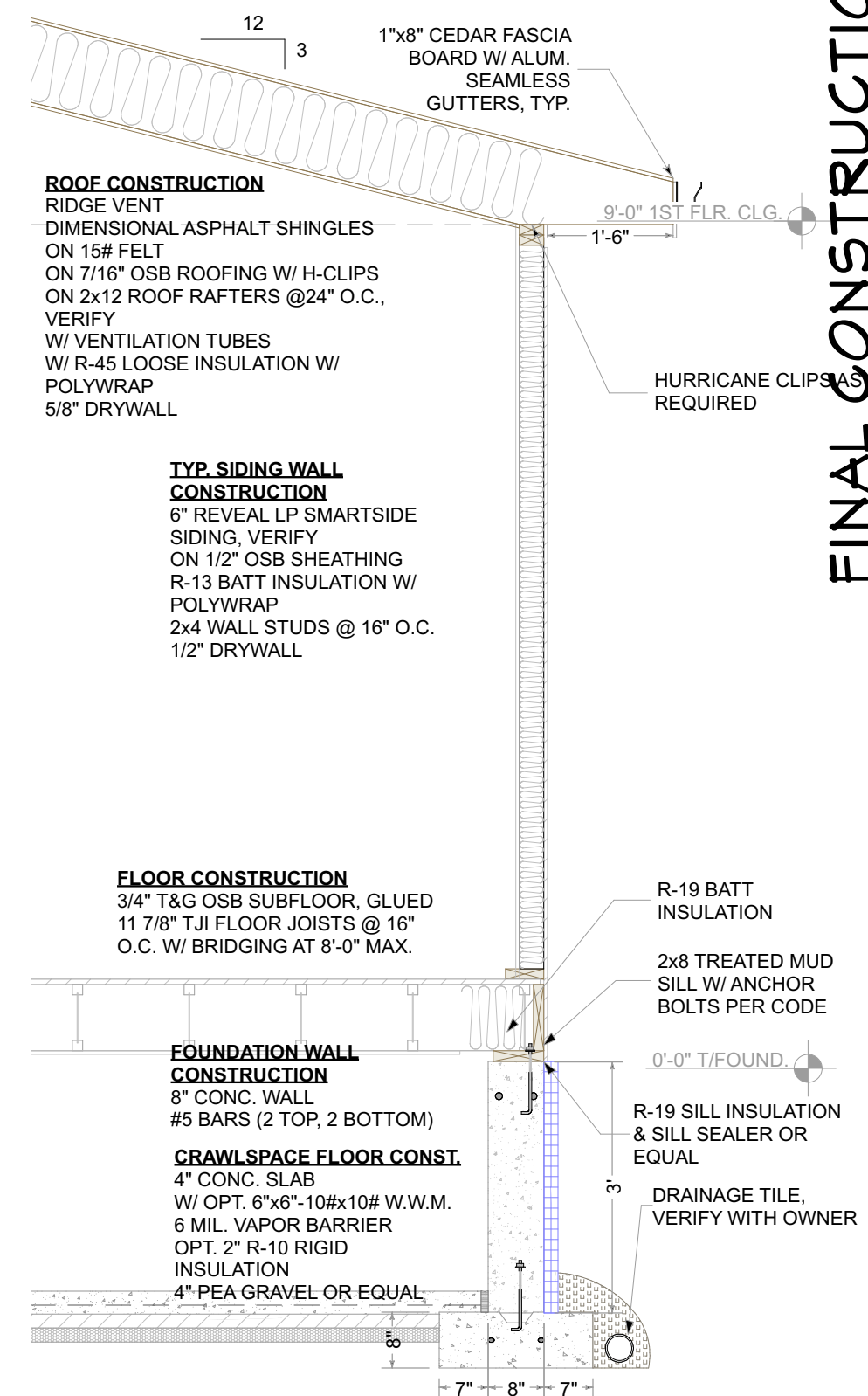
**GENERAL NOTES:**  
-WALL HEIGHT IS 9'-0"  
-CRAWLSPACE WALL HEIGHT, TO FROST DEPTH, VERIFY W/ LOCAL CODES  
-ALL WINDOWS TO BE INSTALLED AT 8'-0" HEADER HEIGHT  
-ALL DOORS ARE 6'-8" TALL

**STRUCTURAL NOTES:**  
-ALL HEADERS, UNLESS CALLED OUT, ARE TO BE (2) 2x12s W/ 1/2" PLYWOOD IN BETWEEN  
-VERIFY W/ LUMBER/FRAMING PLAN, AS IT SUPERSEDES THIS PLAN  
H-1 (2) 1 3/4" x 9 1/4" 2.0E MICROLAM HEADER, W/ PARALAM PSL COLUMN W/ PORTAL FRAME METHOD, PER CODE, OR EQUAL  
H-2 (3) 1 3/4" x 14" 2.0E MICROLAM HEADER, W/ PARALAM PSL COLUMN W/ PORTAL FRAME METHOD, PER CODE, OR EQUAL (GARAGE DOOR)

**WALL BRACING NOTE:**  
CONTINUOUS SHEATHING (CS-WSP TABLE 321.25 G): ALL EXTERIOR WALLS TO BE 1/2" OSB SHEATHING FASTENED WITH 6d COMMON OR 8d BOX NAILS @ 6" EDGES AND 12" FIELD.  
PORTAL FRAME METHOD (PF TABLE 321.25H): REAR WINDOW WALLS, WHERE NOTED, EXTERIOR WALLS TO BE 1/2" SHEATHING FASTENED WITH 8d COMMON NAILS @ 3" O.C. IN ALL FRAMING STUDS & SILL. HEADER TO JACK STRAPS AND FRAMING ANCHORS PER CODE. FASTEN WSP TO HEADERS WITH 8d COMMON NAILS IN 3" O.C. PATTERN. 2 1/2" ANCHOR BOLTS W/ 2"x2"x3/16" PLATE WASHERS PER CODE.

WINDOW SCHEDULE

NUMBER	QTY	WIDTH	HEIGHT	DESCRIPTION
W01	1	144"	42"	FIXED GLASS
W02	2	96"	24"	FIXED GLASS
W03	4	30"	30"	SINGLE AWNING
W04	2	48"	42"	FIXED GLASS
W05	2	48"	72"	DOUBLE HOPPER-T/B
W06	2	96"	42"	FIXED GLASS



**TYP. WALL SECTION**  
1/2"=1'-0"

FINAL CONSTRUCTION DOCUMENTS

LANGDON RESIDENCE  
ADDRESS  
CITY, STATE



DRAWINGS PROVIDED BY:  
SHAWNA DUNCAN, CPBD  
DRAFTSMITH  
3380 N 129TH ST BROOKFIELD, WI 53005  
262.707.9293  
DRAFTSMITH@GMAIL.COM

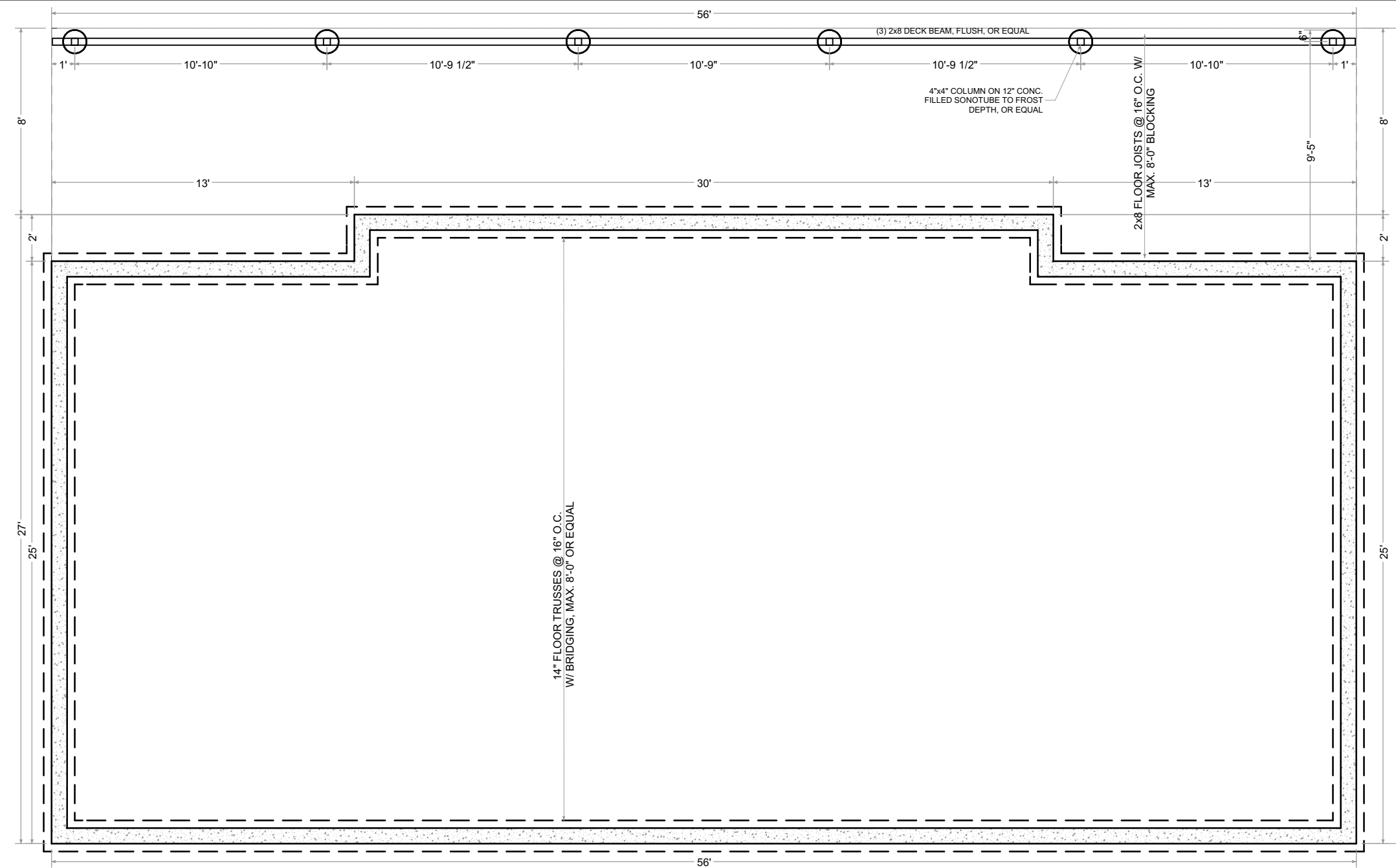
THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF DRAFTSMITH INC. & WILL BE RELEASED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF DRAFTSMITH INC. IN PART OR IN WHOLE. ANY VIOLATION OF THESE TERMS WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. VIOLATORS WILL BE RESPONSIBLE FOR DRAFTSMITH INC'S LEGAL FEES.



DATE:  
7/26/2022

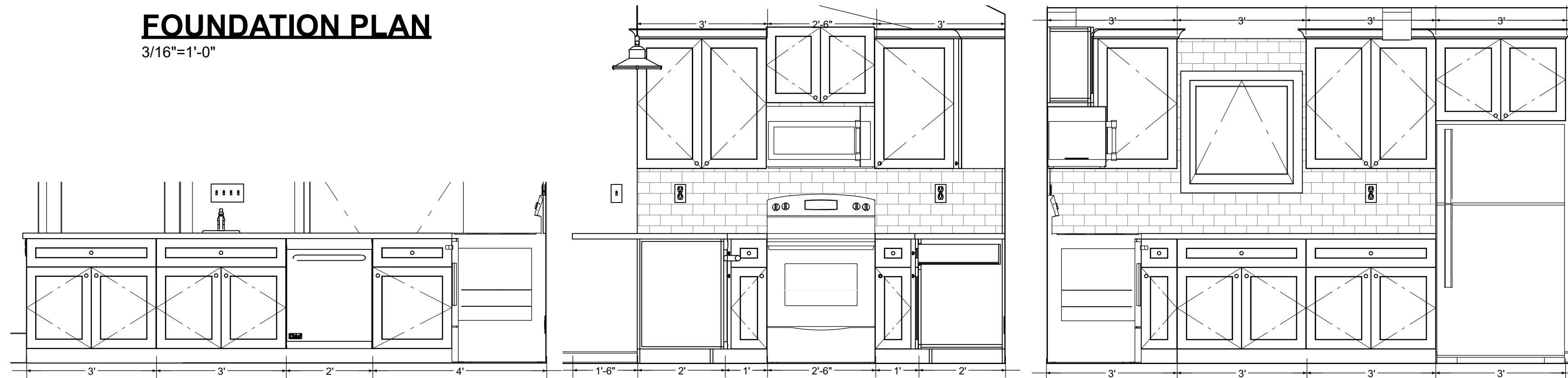
PROJECT:  
2022.236

SHEET:  
1



**FOUNDATION PLAN**

3/16"=1'-0"



**KITCHEN ELEVATIONS**

1/2"=1'-0"



**FRONT ELEVATION**

1/4"=1'-0"

FIRST FLOOR AREA: 1,455 SQ. FT.  
DECK AREA: 506 SQ. FT.  
Total Under Roof Area is taken to outside edge of sheathing.

**GENERAL NOTES:**  
-WALL HEIGHT IS 9'-0"  
-CRAWLSPACE WALL HEIGHT, TO FROST DEPTH, VERIFY W/ LOCAL CODES  
-ALL WINDOWS TO BE INSTALLED AT 8'-0" HEADER HEIGHT  
-ALL DOORS ARE 6'-8" TALL

**STRUCTURAL NOTES:**  
-ALL HEADERS, UNLESS CALLED OUT, ARE TO BE (2) 2x12s W/ 1/2" PLYWOOD IN BETWEEN  
-VERIFY W/ LUMBER/FRAMING PLAN, AS IT SUPERSEDES THIS PLAN  
H-1 (2) 1 3/4" x 9 1/4" 2.0E MICROLAM HEADER, W/ PARALAM PSL COLUMN W/ PORTAL FRAME METHOD, PER CODE, OR EQUAL  
H-2 (3) 1 3/4" x 14" 2.0E MICROLAM HEADER, W/ PARALAM PSL COLUMN W/ PORTAL FRAME METHOD, PER CODE, OR EQUAL (GARAGE DOOR)

**WALL BRACING NOTE:**  
CONTINUOUS SHEATHING (CS-WSP TABLE 321.25 G): ALL EXTERIOR WALLS TO BE 1/2" OSB SHEATHING FASTENED WITH 6d COMMON OR 8d BOX NAILS @ 6" EDGES AND 12" FIELD.

PORTAL FRAME METHOD (PF TABLE 321.25H): REAR WINDOW WALLS, WHERE NOTED, EXTERIOR WALLS TO BE 1/2" SHEATHING FASTENED WITH 8d COMMON NAILS @ 3" O.C. IN ALL FRAMING STUDS & SILLIS. HEADER TO JACK STRAPS AND FRAMING ANCHORS PER CODE. FASTEN WSP TO HEADERS WITH 8d COMMON NAILS IN 3" O.C. PATTERN. 2 1/2" ANCHOR BOLTS W/ 2"x2"x3/16" PLATE WASHERS PER CODE.

WINDOW SCHEDULE				
NUMBER	QTY	WIDTH	HEIGHT	DESCRIPTION
W01	1	144"	42"	FIXED GLASS
W02	2	96"	24"	FIXED GLASS
W03	4	30"	30"	SINGLE AWNING
W04	2	48"	42"	FIXED GLASS
W05	2	48"	72"	DOUBLE HOPPER-T/B
W06	2	96"	42"	FIXED GLASS

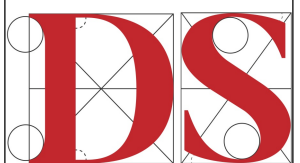
FINAL CONSTRUCTION DOCUMENTS

LANGDON RESIDENCE  
ADDRESS  
CITY, STATE



DRAWINGS PROVIDED BY:  
SHAWNNA DUNCAN, CPBD  
DRAFTSMITH  
3380 N 129TH ST BROOKFIELD, WI 53005  
262.707.9293 DRAFTSMITH@GMAIL.COM

THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF DRAFTSMITH INC. & WILL BE RELEASED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF DRAFTSMITH INC. ANY REPRODUCTION OR USE OF THESE DRAWINGS WITHOUT THE WRITTEN PERMISSION OF DRAFTSMITH INC. IS PROHIBITED. VIOLATORS WILL BE SUBJECT TO COMPENSATORY DAMAGES THROUGH LEGAL ACTION. VIOLATORS WILL BE RESPONSIBLE FOR DRAFTSMITH INC'S LEGAL FEES.



DATE:  
7/26/2022

PROJECT:  
2022.236

SHEET:  
2

DESIGN LOADS		
USE:	LIVE LOAD	DEAD LOAD
ROOF	40 PSF	15 PSF
ROOF W/ CEILING ATTACHED	40 PSF	20 PSF
ATTICS W/ LIMITED STORAGE	20 PSF	10 PSF
ATTICS W/ NO STORAGE	10 PSF	5 PSF
DECKS	40 PSF	10 PSF
ROOMS OTHER THAN BEDROOM	40 PSF	10 PSF
BEDROOMS	30 PSF	10 PSF
STAIRS	40 PSF	10 PSF

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS	
STRUCTURAL MEMBER	ALLOWABLE LIVE LOAD DEFLECTION
RAFTERS W/ NO FIN. CLG. ATTACHED	L/180
INTERIOR WALLS & PARTITIONS	H/180
	L/360
ALL OTHER STRUCTURAL MEMBERS	L/240
EXT. WALLS - WIND LOADS W/ FLEXIBLE FINISHES	L/120

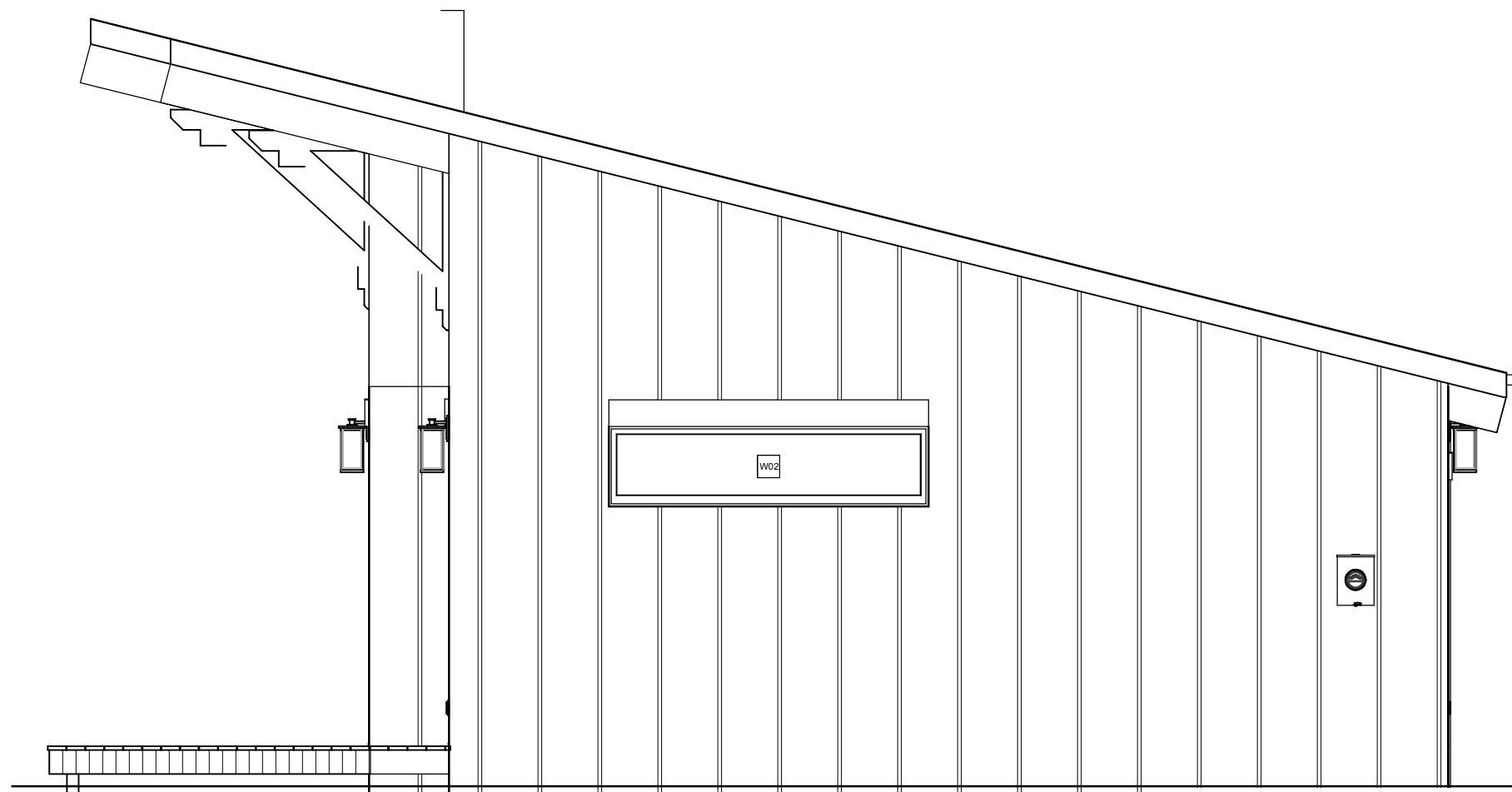
**DESIGN CRITERIA:**  
THE FOLLOWING DESIGN CRITERIA WERE USED IN THE DESIGN OF THIS HOME. THE BUILDER AND/OR THE PURCHASER OF THESE PLANS IS FULLY RESPONSIBLE FOR REVIEWING THE DESIGN CRITERIA. ADDITIONAL DESIGN CRITERIA MAY ALSO BE REQUIRED TO BE CONSIDERED, THIS IS ALSO THE RESPONSIBILITY OF THE BUILDER AND/OR PURCHASER OF THESE PLANS. THE PLANS MUST BE REVIEWED AND ADJUSTED ACCORDINGLY BY THE BUILDER AND/OR PURCHASER OF THESE PLANS (CONSULTATION WITH A LOCAL ENGINEER IS RECOMMENDED) TO MEET THE ACTUAL DESIGN CRITERIA OF THE CHOSEN SITE. THE BUILDER AND/OR PURCHASER OF THESE PLANS WILL ALSO NEED TO VERIFY THE APPROPRIATE CODES AND ORDINANCES THAT WILL GOVERN THE PROJECT ACCORDING TO THE LOCAL AUTHORITY HAVING JURISDICTION (USUALLY THE LOCAL BUILDING DEPARTMENT). ALL SUCH ADJUSTMENTS FOR THE ACTUAL DESIGN CRITERIA AND TO MEET LOCAL CODES SHALL TAKE PRECEDENCE OVER THE INFORMATION IN THESE PLANS.

**CLIMATIC & GEOGRAPHIC DESIGN CRITERIA:**  
GROUND SNOW LOAD: 40 PSF  
BASIC WIND SPEED: 90 MPH  
EXPOSURE CATEGORY: B  
SEISMIC CATEGORY: C (DETACHED ONE FAMILY DWELLINGS IN THIS CATEGORY ARE EXEMPT FROM THE SEISMIC REQUIREMENTS OF THE CODE)  
SUBJECT TO DAMAGE FROM:  
CONCRETE WEATHERING PROBABILITY: SEVERE  
MIN. DISTANCE OF FOOTING BELOW GRADE LEVEL (FROST LINE 48")  
TERMITE INFESTATION PROBABILITY: SLIGHT TO MODERATE  
DECAY PROBABILITY: SLIGHT TO MODERATE  
ICE & WATER SHIELD UNDERLAYMENT REQUIREMENT:  
YES 6'-0" FROM ALL EDGES, IN ACCORDANCE W/ LOCAL CODES  
FLOOD HAZARD ZONE: N/A

**STRUCTURAL FRAMING LUMBER:**  
1. FLOOR JOISTS, CEILING JOISTS, HEADERS & ROOF TRUSSES, IN-GRADE BASE DESIGN VALUES, SPRUCE/PINE/FIR (SPF) SPECIES, Fb = 8.75 PSI, Fc PERPENDICULAR = 4.25 PSI, Fc PARALLEL = 1150 PSI, Fv = 10 PSI, E = 1,400,000 PSI, GRADE #2 OR BETTER, US DOMESTIC OR CANADIAN.  
2. WALL STUDS, IN GRADE BASE DESIGN VALUES, SPRUCE/PINE/FIR (SPF) SPECIES, Fb = 6.75 PSI, Fb 6.75 PSI, Fv = 10 PSI, Ft = 350 SPI, Fc PERPENDICULAR = 4.25 PSI, Fc PARALLEL = 725 PSI, E = 1,200,000 PSI, STUD GRADE OR BETTER CANADIAN  
3. COLUMN, BEAM, OR HEADER PRODUCT, LAMINATED VENEER LUMBER (LVL), MICROLAM BY TRUSJOIST MACMILLAN, Fb = 2600 PSI, E = 1,900,000 PSI, Fc PERPENDICULAR = 750 PSI (PARALLEL TO GLUE LINE), Fc PARALLEL = 2510 PSI, Fv - 285 PSI (HORZ. SHEAR PERPENDICULAR TO GLUE LINE), G = 118,750 PSI (SHEAR MODULUS OF ELASTICITY)  
4. COLUMN, BEAM, OR HEADER PRODUCT, PARALLEL STRAND LUMBER (PSL), PARALLAM PSL BY TRUSJOIST MACMILLAN, Fb = 2900 PSI, E = 2,000,000 PSI, Fc PERPENDICULAR = 750 PSI (PARALLEL TO WIDE FACE OF STRANDS), Fc PARALLEL = 2900 PSI, Fv - 290 PSI (HORZ. SHEAR PERPENDICULAR TO WIDE FACE OF STRANDS), G = 125,000 PSI (SHEAR MODULUS OF ELASTICITY)

**STRUCTURAL STEEL:**  
1. DESIGN, DETAIL, FABRICATE & ERECT STEEL IN ACCORDANCE W/ THE LATEST AISI SPECS.  
2. STEEL SHAPES SHALL BE ASTM a36, TUBING ASTM GRADE B, & PIPE ASTM A 53 GRADE B.  
3. ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF APPROVED PRIMING PAINT. PARTS INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS  
4. CONNECTIONS SHALL BE SHOP WELDED & FIELD BOLTED UNLESS OTHERWISE SHOWN  
5. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBER AS DETERMINED BY THE LOAD TABLES IN THE AISI MANUAL  
6. BOLTED CONNECTIONS SHALL BE 3/4" DIA, A 325, WITH A MIN. OF 2 BOLTS  
7. ALL WELDING SHALL BE IN ACCORDANCE W/ THE LATEST AISI AND AWS SPECS. USING E10 ELECTRODES  
8. BASE PLATES SHALL BE WELDED TO COLUMNS  
9. ANCHOR BOLTS SHALL BE FABRICATED FRP, ASTM A36 ROUND BAR STOCK

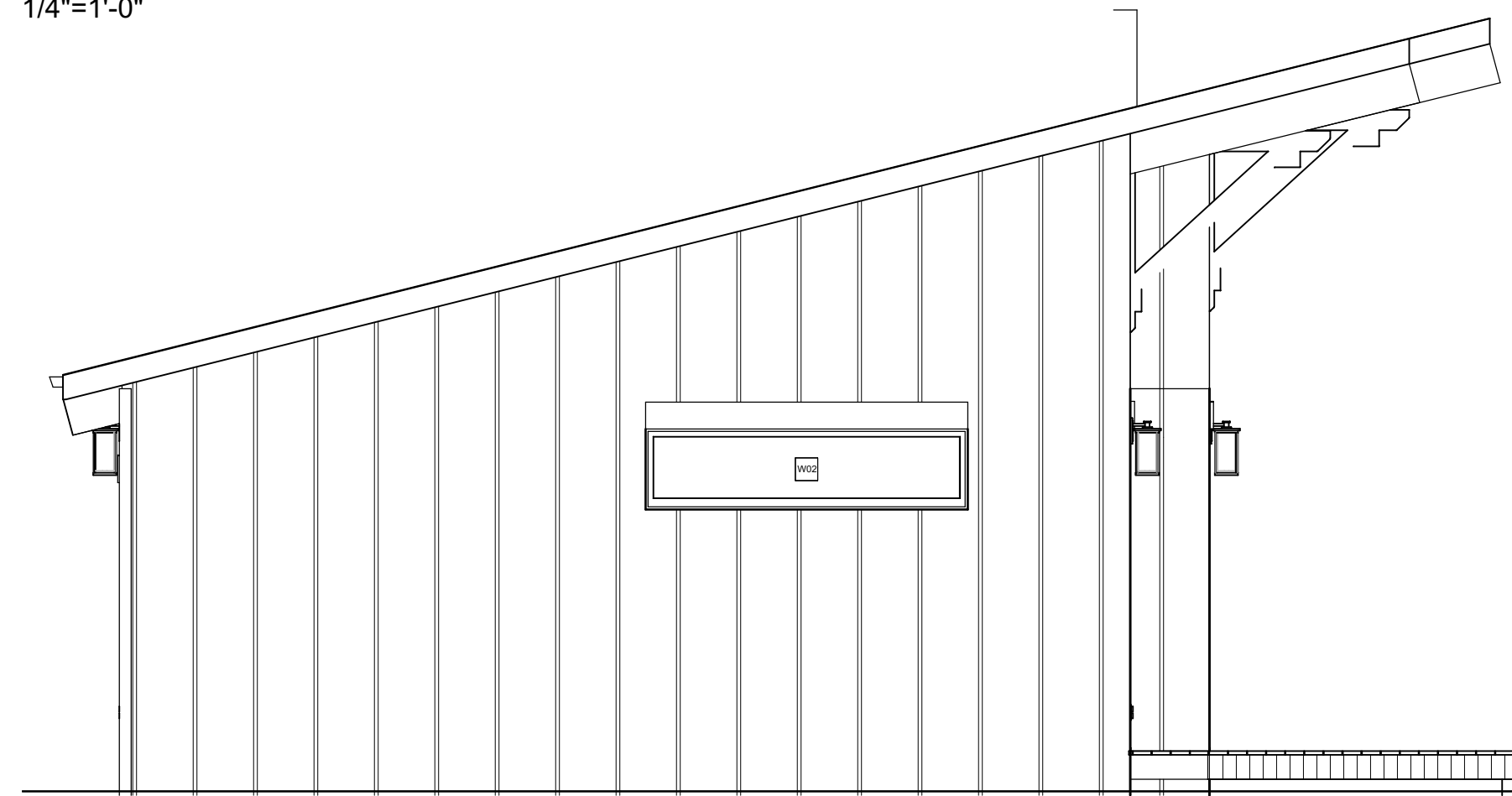
**MASONRY:**  
1. MASONRY CONSTRUCTION SHALL CONFORM TO THE LATEST ACI & NCMA SPECS. PERTINENT TO THE PARTICULAR TYPE OF CONSTRUCTION OR CONDITION OCCURRING  
2. CONCRETE MASONRY UNITS SHALL BE ASTM C-90, GRADE N, TYPE I, UNLESS OTHERWISE, WITH A MIN. COMPRESSIVE STRENGTH OF MASONRY (fm') OF 1500 PSI. MORTAR SHALL BE TYPE S OR M BELOW GRADE & TYPE S ABOVE GRADE, UNLESS NOTED  
3. CHASES, RIDED, CONDUITS OR TOOTHING OF MASONRY SHALL NOT OCCUR WITHIN 1'-4" OF CENTERLINE OF LOAD CONCENTRATIONS  
4. THREE COURSES (24" MIN.) OF SOLID BEARING, BUILT IN A PYRAMID FASHION, SHALL BE PROVIDED BELOW ALL BEAM & JOIST BEARINGS & LINTELS IN BEARING WALLS.  
5. SINGLE WYTH WALLS SHALL HAVE TRUSS DESIGN MASONRY WALL REINFORCEMENT IN EVERY OTHER HORIZONTAL JOINT (16" c/c) AND IN EACH JOINT (8" c/c) FOR TWO JOINTS ABOVE REINFORCEMENT AT OPENINGS. REINFORCEMENT SHALL BE CONT. W/ 6" MIN. LAPS. REINFORCEMENT AT OPENINGS SHALL EXTEND 2" BEYOND EACH SIDE OF THE OPENING. GRAVITY WALLS SHALL HAVE ONE ROD FOR EACH BED JOINT. NO 'TRUSS' RODS SHALL EXTEND THROUGH THE CAVITY.  
6. PROVIDE CONTROL JOINTS IN CONC. MASONRY WALLS AT A MAX. SPACING OF 40' c/c OR AS OTHERWISE SHOWN ON THE DRAWINGS.



## RIGHT ELEVATION

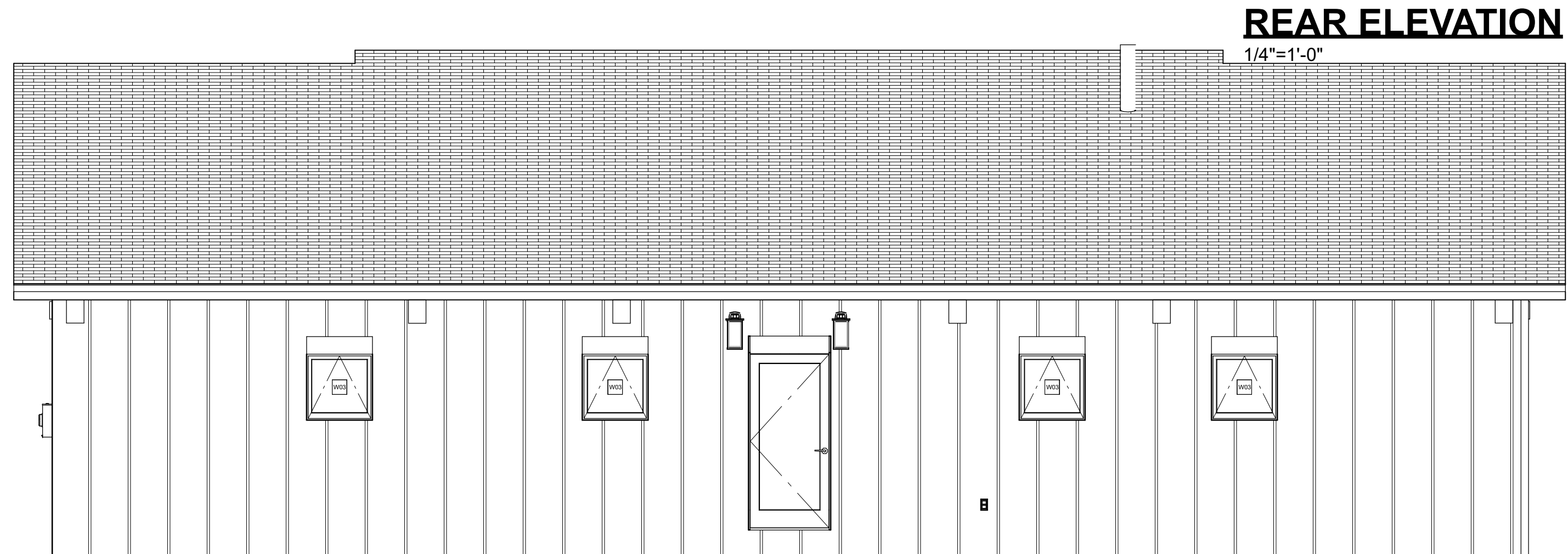
1/4"=1'-0"

**CONCRETE:**  
1. DESIGN, FURNISH & PLACE CONCRETE IN ACCORDANCE WITH THE LATEST SPECS. OF THE ACI.  
2. UNLESS NOTED OR SPECIFIED OTHERWISE, CONCRETE SHALL BE CONTROLLED STONE OR GRAVEL CONCRETE. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:  
-UNEXPOSED FOUNDATIONS: 2500 PSI  
-INTERIOR SLABS OTHER THAN GARAGE SLAB 2500 PSI  
-BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS & OTHER VERTICAL CONCRETE SURFACES EXPOSED TO WEATHER  
-ANY FLATWORK EXPOSED TO THE WEATHER INCLUDING GARAGE SLAB 4500 PSI  
3. SEE TABLE R301.2(7) INTERNATIONAL RESIDENTIAL BUILDING CODE FOR AIR-ENTRAINED CONCRETE.  
4. DESIGN, DETAIL, FABRICATE AND ERECT REINFORCING STEEL ACCORDING TO THE LATEST SCI AND CRSI SPECS. FROM ASTM A-615, GRADE 60 MATERIAL.  
5. WALL & FOOTING REINFORCING SHALL BE HOOKED AROUND CORNERS A MINIMUM OF 30 BAR DIAMETERS OR SEPARATE CORNER BARS SHALL BE PROVIDED.  
6. REINFORCING BARS SHALL LAP A MIN. OF 30 BAR DIAMETERS, BUT NOT LESS THAN 12"  
7. PROVIDE A 1" NOMINAL CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, COLUMNS & WALLS  
8. AT ALL CONSTRUCTION JOISTS PROVIDE KEYWAYS 1 1/2" DEEP BY 1/3 OF THE WIDTH OF THE MEMBERS (3 1/2" MIN.)  
9. PROVIDE CONTROL JOINTS IN FLOOR SLABS AT 20' c/c MAX. EACH WAY UNLESS OTHERWISE NOTED ON DRAWINGS. MAX. NOT TO EXCEED 400 SQ. FT.  
10. PROVIDE THE FOLLOWING PROTECTION (COVER) OVER REINFORCING COLUMNS, BEAMS & GIRDERS 1 1/2" SLABS & WALLS 3/4" FORMED MEMBERS IN CONTACT W/ EARTH 2" MEMBERS PLACED AGAINST EARTH 3"  
11. PROVIDE ALL SLEEVES, INSERTS, HANGERS, ETC. NECESSARY TO THE JOB.



## LEFT ELEVATION

1/4"=1'-0"



## REAR ELEVATION

1/4"=1'-0"

FIRST FLOOR AREA: 1,455 SQ. FT.  
DECK AREA: 506 SQ. FT.  
Total Under Roof Area is taken to outside edge of sheathing.

**GENERAL NOTES:**  
-WALL HEIGHT IS 9'-0"  
-CRAWLSPACE WALL HEIGHT, TO FROST DEPTH, VERIFY W/ LOCAL CODES  
-ALL WINDOWS TO BE INSTALLED AT 8'-0" HEADER HEIGHT  
-ALL DOORS ARE 6'-8" TALL

**STRUCTURAL NOTES:**  
-ALL HEADERS, UNLESS CALLED OUT, ARE TO BE (2) 2x12s W/ 1/2" PLYWOOD IN BETWEEN  
-VERIFY W/ LUMBER/FRAMING PLAN, AS IT SUPERSEDES THIS PLAN  
H-1 (2) 1 3/4" x 9 1/4" 2.0E MICROLAM HEADER, W/ PARALAM PSL COLUMN W/ PORTAL FRAME METHOD, PER CODE, OR EQUAL  
H-2 (3) 1 3/4" x 14" 2.0E MICROLAM HEADER, W/ PARALAM PSL COLUMN W/ PORTAL FRAME METHOD, PER CODE, OR EQUAL (GARAGE DOOR)

**WALL BRACING NOTE:**  
CONTINUOUS SHEATHING (CS-WSP TABLE 321.25 G): ALL EXTERIOR WALLS TO BE 1/2" OSB SHEATHING FASTENED WITH 6d COMMON OR 8d BOX NAILS @ 6" EDGES AND 12" FIELD.  
PORTAL FRAME METHOD (PF TABLE 321.25H): REAR WINDOW WALLS, WHERE NOTED, EXTERIOR WALLS TO BE 1/2" SHEATHING FASTENED WITH 8d COMMON NAILS @ 3" O.C. IN ALL FRAMING STUDS & SILLIS. HEADER TO JACK STRAPS AND FRAMING ANCHORS PER CODE. FASTEN WSP TO HEADERS WITH 8d COMMON NAILS IN 3" O.C. PATTERN. 2 1/2" ANCHOR BOLTS W/ 2"x2"x3/16" PLATE WASHERS PER CODE.

WINDOW SCHEDULE				
NUMBER	QTY	WIDTH	HEIGHT	DESCRIPTION
W01	1	144 "	42 "	FIXED GLASS
W02	2	96 "	24 "	FIXED GLASS
W03	4	30 "	30 "	SINGLE AWNING
W04	2	48 "	42 "	FIXED GLASS
W05	2	48 "	72 "	DOUBLE HOPPER-T/B
W06	2	96 "	42 "	FIXED GLASS

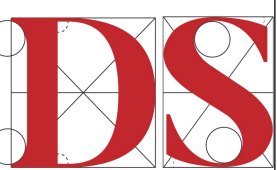
FINAL CONSTRUCTION DOCUMENTS

LANGDON RESIDENCE  
ADDRESS  
CITY, STATE



DRAWINGS PROVIDED BY:  
SHAWNA DUNCAN, CPBD  
DRAFTSMITH  
3380 N 129TH ST BROOKFIELD, WI 53005  
262.707.9293  
DRAFTSMITH@GMAIL.COM

THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF DRAFTSMITH INC. & WILL REMAIN THE PROPERTY OF DRAFTSMITH INC. IN PART OR IN WHOLE. NO REPRODUCTION OR TRANSMISSION OF ANY KIND IS PROHIBITED. VIOLATORS WILL BE SUBJECT TO COMPENSATORY DAMAGES THROUGH LEGAL ACTION. VIOLATORS WILL BE RESPONSIBLE FOR DRAFTSMITH INC'S LEGAL FEES.



DATE:  
7/26/2022

PROJECT:  
2022.236

SHEET:

3



(800) 700-4788

techplans@eewp.com

Installation Guide



Scan with your Smart Phone or visit:

www.eewp/resources

NOTES:

- Joist layout shown is to assist with estimate and joist location. Contractor is responsible to see that joist and LVL locations do not interfere with plumbing or mechanical equipment.
  - Please review plans prior to order any materials.
  - Refer to details in the installation guide prior to construction.
  - This design layout is to be used as a guide only and is meant to be used in conjunction with the architectural and structural drawings, not to replace them.
  - BBO = Beam By Others
  - EGB = End Grain Bearing
  - SFB = Steel Fitch Plate Beam By Others
  - BHB = Better Header Beam
- Every effort has been made to be as accurate as possible with this design layout. Due to lack of detail and information on many plans and the variance of framing techniques in the industry, where necessary, applicable standard practices in the construction industry have been utilized. Therefore, it is imperative that the lumber dealer and the customer review these drawings for layout, bearing locations, point loads, and special conditions prior to order any materials. Failure to do so will constitute acceptance as shown. Any changes, additions, or deletions will be at the expense of the lumber dealer and/or the contractor.

Legend

	Load from Above
	Wall
	Norbord Rimboard 1.125 X 14
	NI-40x 14
	NI-90 14
	2.0E Rigidlam LVL 1.75 X 14
	OJ418 3.5 X 14

**Description**  
Langdon Residence, ., NC, USA  
**Dealer**  
J.E. Wombles  
**Sales Rep**  
Robbie McNeill  
**Designer**  
Mike Heller

Revisions:

Scale 1/4 inch = 1 ft

First Floor Framing	ASD (USA)
Design Method	IRC 2018
Building Code	
<b>Floor Loads</b>	
Live	40
Dead	15
<b>Deflection Joist</b>	
LL Span L/	480
TL Span L/	240
<b>Deflection Flush Girder</b>	
LL Span L/	360
TL Span L/	240
<b>Deflection Dropped Girder</b>	
LL Span L/	360
TL Span L/	240
<b>Deflection Header</b>	
LL Span L/	360
TL Span L/	240
<b>Decking</b>	OSB
	23/32 APA Rated Sturd-I-
Fastener	Nailed & Glued
<b>Project</b>	22-2554JE

Note: All non-structural roof members are not included in this design quote.

Note: Beam sizes may have been re-designed due to design loads

**First Floor Framing**  
**Floor Truss (Flush)**

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J5	OJ418	3.5	14			18	26-0-0
J9	OJ418	3.5	14	2	2	4	26-0-0

**I Joist (Flush)**

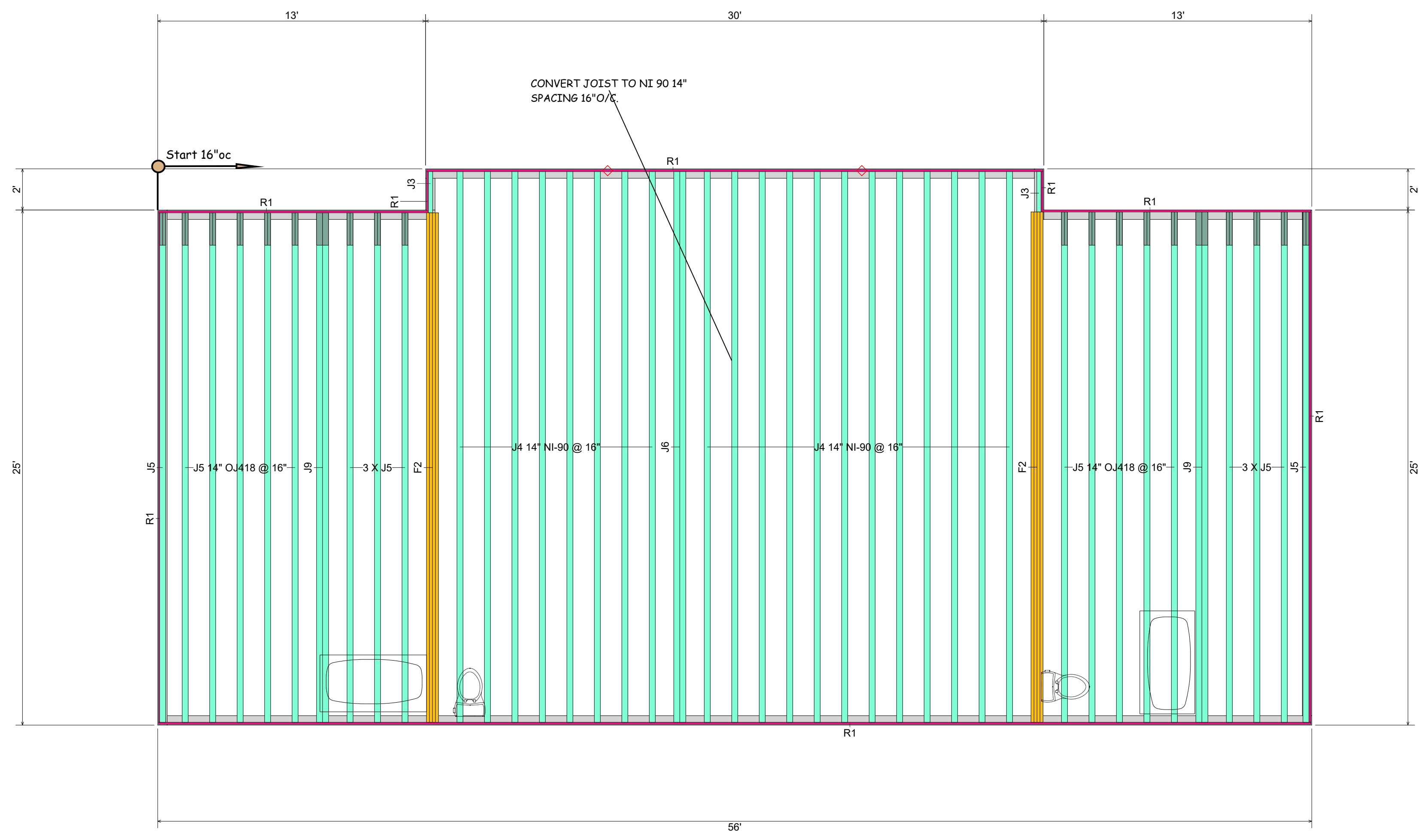
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J3	NI-40x	2.5	14			2	2-0-0
J4	NI-90	3.5	14			20	28-0-0
J6	NI-90	3.5	14	1	2	2	28-0-0

**LVL/LSL (Flush)**

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
F2	2.0E Rigidlam LVL	1.75	14	2	4	8	26-0-0

**Rim Board**

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Norbord Rimboard 1.125 X 14	1.125	14			14	12-0-0



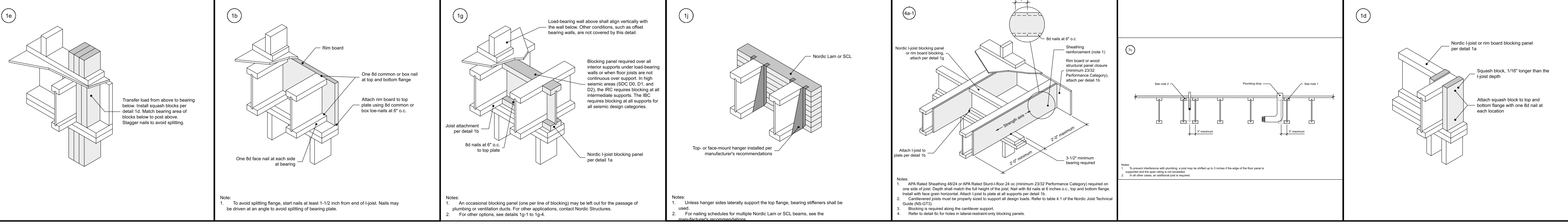
**\*PRELIMINARY LAYOUT\***

**WARNING FOR A PROPER INSTALLATION (TOP AND BOTTOM)**  
Please refer to the stamp on the joist to install them in the right position

**Reinforcement**  
For Reinforcement please refer to the calculation sheets.



OPEN JOIST TRIFORCE® and OPEN JOIST 2000® are in accordance with ICC 2015 and NDS-2015. OPEN JOIST TRIFORCE® and OPEN JOIST 2000® have been evaluated by ICC (report # ESR-2999) & (report # ESR-1035) and are quality controlled by a qualified third DRAWN BY party agency. Parts are joined together with phenol-resorcinol adhesives. Lumber used for diagonal and vertical web members is visually graded in-plant as per quality control manual. A sub-floor must be attached to the top chord member according to the building code. If specified, strong backs must be of dry lumber and attached to the joists, according to current practice. Required bearing length must be determined for each application based on specifications by the manufacturer and must never be less than 1.5 inches. OPEN JOIST 2000® must be used under dry conditions. Refer to the specifications by the manufacturer for details of installation.



Note: All non-structural roof members are not included in this design quote.

Note: Beam Sizes may have been re-designed due to design load.

**Ceiling Framing  
LVL/LSL (Dropped)**

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
D1	2.0E Rigidlam LVL	1.75	16	1	3	3	14-0-0



(800) 700-4788  
techplans@eewp.com

Installation Guide

Scan with your Smart Phone or visit:

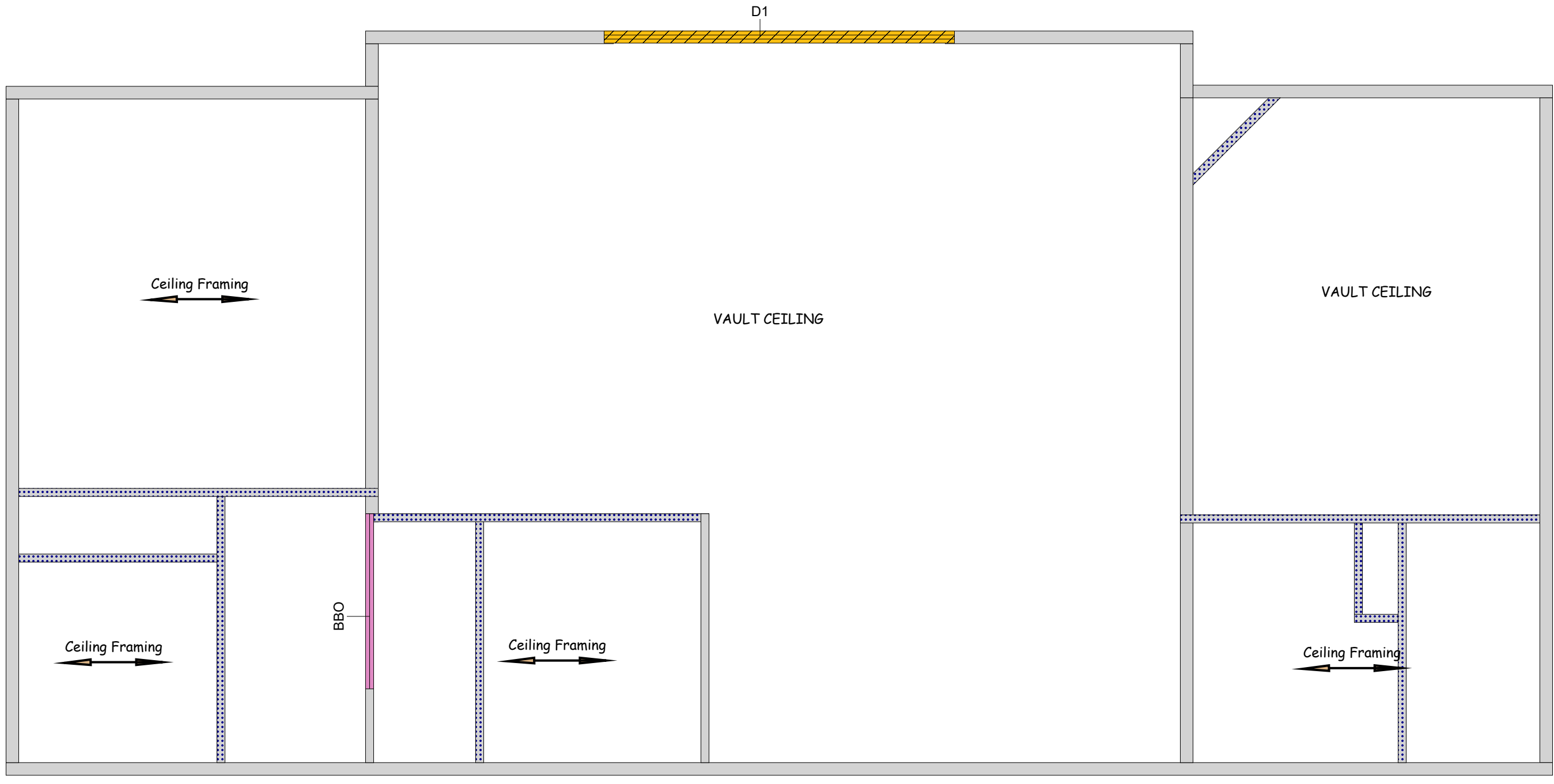
[www.eewp/resources](http://www.eewp/resources)

- NOTES:**
- Joist layout shown is to assist with estimate and joist location. Contractor is responsible to see that joist and LVL locations do not interfere with plumbing or mechanical equipment.
  - Please review plans prior to order any materials.
  - Refer to details in the installation guide prior to construction.
  - This design layout is to be used as a guide only and is meant to be used in conjunction with the architectural and structural drawings, not to replace them.
  - BBO = Beam By Others
  - EGB = End Grain Bearing
  - SFB = Steel Fitch Plate Beam By Others
  - BHB = Better Header Beam

Every effort has been made to be as accurate as possible with this design layout. Due to lack of detail and information on many plans and the variance of framing techniques in the industry, where necessary, applicable standard practices in the construction industry have been utilized. Therefore, it is imperative that the lumber dealer and the customer review these drawings for layout, bearing locations, point loads, and special conditions prior to order any materials. Failure to do so will constitute acceptance as shown. Any changes, additions, or deletions will be at the expense of the lumber dealer and/or the contractor.

**Legend**

	Load from Above
	Wall
	2.0E Rigidlam LVL 1.75 X 16 (Dropped)
	D FRL-4 SS 1.5 X 8.25
	1.75 X 9.25



**\*PRELIMINARY LAYOUT\***

**Description**  
Langdon Residence, ., NC, USA

**Dealer**  
J.E. Wombles

**Sales Rep**  
Robbie McNeill

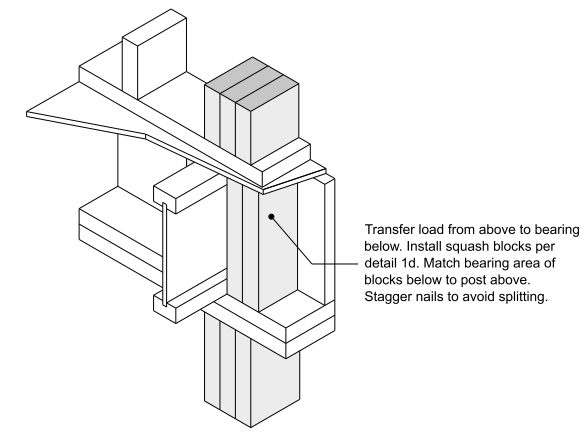
**Designer**  
Mike Heller

**Revisions:**

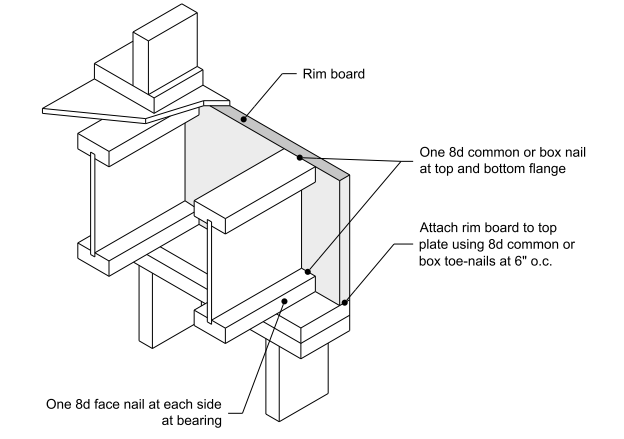
**Scale 1/4 inch : 1 ft**

<b>Ceiling Framing</b>	
Design Method	ASD (USA)
Building Code	IRC 2018
<b>Floor</b>	
Live	20
Dead	10
<b>Deflection Joist</b>	
LL Span / L	480
TL Span / L	240
<b>Deflection Flush Girder</b>	
LL Span / L	360
TL Span / L	240
<b>Deflection Dropped Girder</b>	
LL Span / L	360
TL Span / L	240
<b>Deflection Header</b>	
LL Span / L	360
TL Span / L	240
<b>Decking</b>	
	OSB
	23/32 APA Rated Sturd-I-Floor
Fastener	Nailed & Glued
<b>Project</b>	22-2554JE

1a

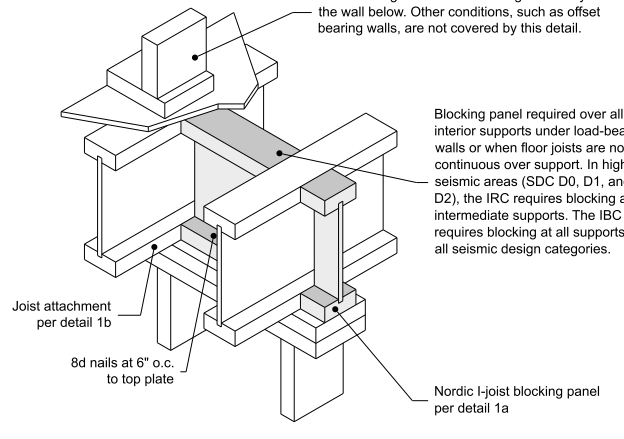


1b



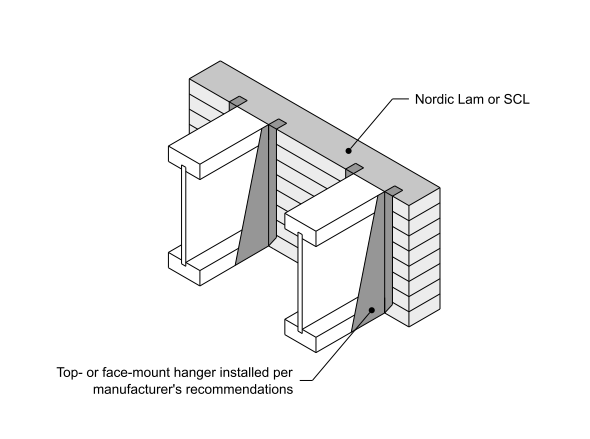
Note:  
1. To avoid splitting, stagger nails at least 1-1/2 inch from end of joist. Nails may be driven at an angle to avoid splitting of bearing plate.

1c



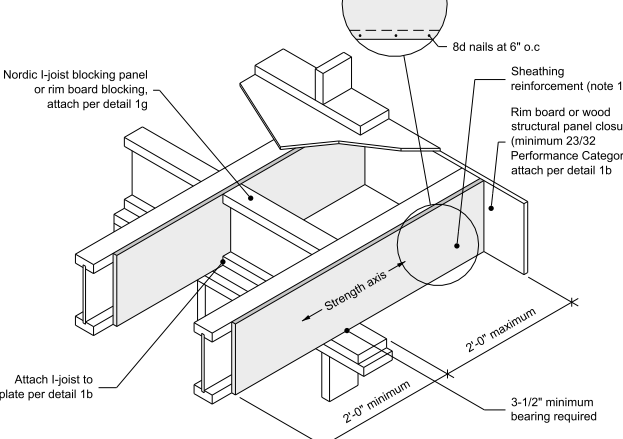
Note:  
1. An occasional blocking panel (one per line of blocking) may be left out for the passage of plumbing or ventilation ducts. For other applications, contact Nordic Structures.  
2. For other options, see detail 1g 1b, 1g1d.

1d



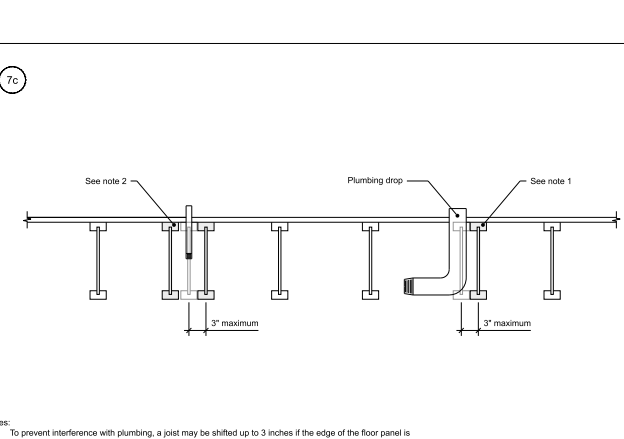
Note:  
1. L-truss hanger sides laterally support the top flange. Bearing stiffeners shall be used.  
2. For racking resistance for multiple Nordic Lam or SCL beams, see the manufacturer's recommendations.

1e



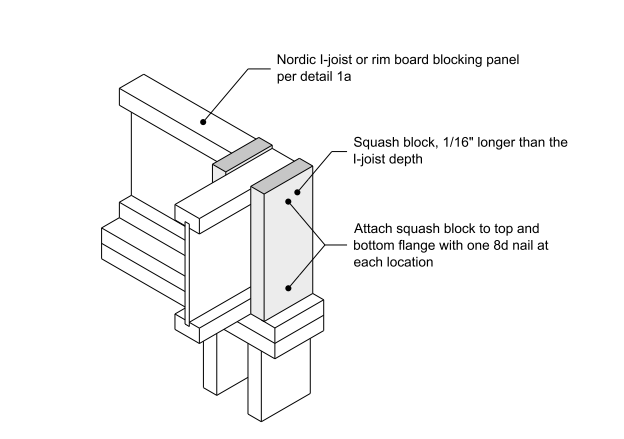
Note:  
1. APA Rated Sheathing 4024 or APA Rated Plywood 24 or minimum 23/32 Performance Category required on one side of plate. Depth shall extend the full height of the plate. Use with 8d nails at 8 inches o.c. Top and bottom flange tied with two green horizontal straps 1/2 inch to plate at all supports per detail 1a.  
2. Construction joints must be properly spaced to support all design loads. Refer to table 1 of the Nordic Joist Technical Guide 2017.  
3. Blocking is required along the cantilever supports.  
4. Refer to detail 1b for beam or lateral-resistance blocking panels.

1f



Note:  
1. The maximum spacing of blocking shall be 16 inches o.c. to the edge of the floor panels.  
2. Refer to the manufacturer's recommendations for blocking to the edge of the floor panels.  
3. For other options, see detail 1g 1b, 1g1d.

1g



Note: All non-structural roof members are not included in this design quote.

Note: Beam Sizes may have been re-designed due to design load.

**Roof Framing**  
**Joist (Flush)**

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J7	NI-90	3.5	11.875	18	2	36	36-0-0
J8	NI-90	3.5	11.875	25	2	50	38-0-0

**Blocking**

Label	Description	Width	Depth	Qty	Pcs	Length
B1	NI-90	3.5	11.875		84	2-0-0



(800) 700-4788  
techplans@eewp.com

**Installation Guide**

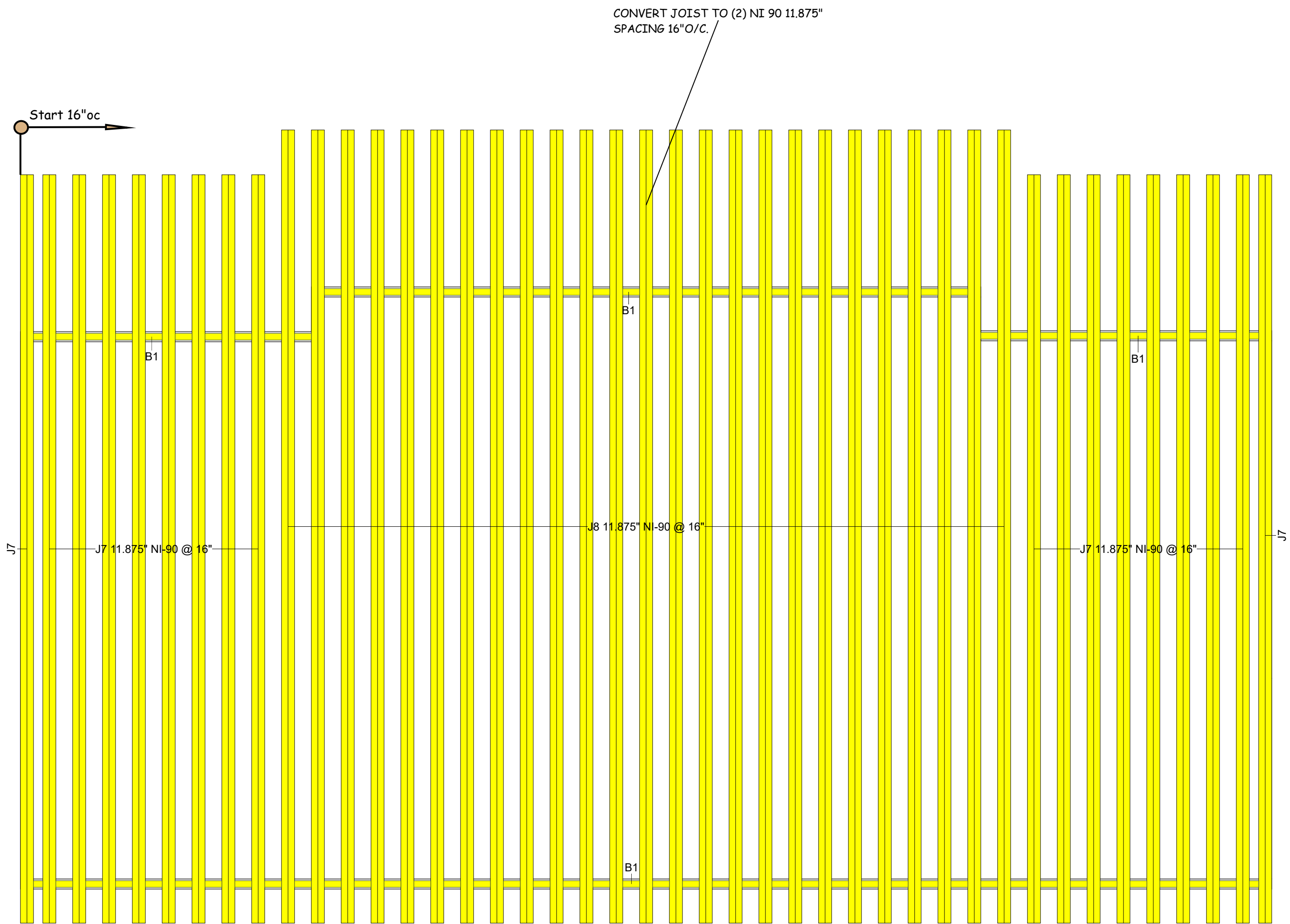
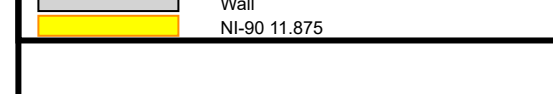
Scan with your Smart Phone or visit:  
[www.eewp/resources](http://www.eewp/resources)

**NOTES:**

- Joist layout shown is to assist with estimate and joist location. Contractor is responsible to see that joist and LVL locations do not interfere with plumbing or mechanical equipment.
- Please review plans prior to order any materials.
- Refer to details in the installation guide prior to construction.
- This design layout is to be used as a guide only and is meant to be used in conjunction with the architectural and structural drawings, not to replace them.
- BBO = Beam By Others
- EGB = End Grain Bearing
- SFB = Steel Fitch Plate Beam By Others
- BHB = Better Header Beam

Every effort has been made to be as accurate as possible with this design layout. Due to lack of detail and information on many plans and the variance of framing techniques in the industry, where necessary, applicable standard practices in the construction industry have been utilized. Therefore, it is imperative that the lumber dealer and the customer review these drawings for layout, bearing locations, point loads, and special conditions prior to order any materials. Failure to do so will constitute acceptance as shown. Any changes, additions, or deletions will be at the expense of the lumber dealer and/or the contractor.

**Legend**



**\*PRELIMINARY LAYOUT\***

<b>Description</b>	Langdon Residence, ., NC, USA
<b>Dealer</b>	J.E. Wombles
<b>Sales Rep</b>	Robbie McNeill
<b>Designer</b>	Mike Heller

<b>Revisions:</b>	
-------------------	--

Scale 1/4 inch : 1 ft

<b>Roof Framing</b>	ASD (USA)
Design Method	IRC 2018
Building Code	
<b>Floor</b>	
<b>Loads</b>	
Live	0
Dead	20
Snow	40
<b>Deflection Joist</b>	
LL Span / L	480
TL Span / L	240
<b>Deflection Flush Girder</b>	
LL Span / L	360
TL Span / L	240
<b>Deflection Dropped Girder</b>	
LL Span / L	360
TL Span / L	240
<b>Deflection Header</b>	
LL Span / L	360
TL Span / L	240
<b>Decking</b>	
Decking	OSB
	23/32 APA Rated Sturd-I-Floor

Project  
22-2554JE