### Governing Codes and Standards:

- 2018 International Building Code (and local amendments)
- 2018 International Residential Code (and local amendments)
- "Minimum Design Loads for Buildings and Other Structures" ASCE 7-16 "Steel Construction Manual" - AISC Fourteenth Edition
- "National Design Specification for Wood Construction" ANSI/AF&PA-NDS 2018
- F. "Building Code Requirements for Structural Concrete" ACI318-14

### <u>Design Loads</u>

1. <u>Building Risk Category:</u>

### 2. Roof Load: A. Roof Snow Load, Ps

100 psf (Unbalanced Snow Load Accounted for) 51 + 100psf = 151psfLargest Unbalanced Snow Load

C. Dead Load 20 psf

### Floor Load: 40 psf or 3,000 lb Point Load A. Live Load

## 4. <u>Snow Load Criteria:</u>

- A. Ground Snow Load, Pa
- Flat Roof Snow Load, Pf 100 psf (Unheated/Open Air Deck Roofs)
- Exposure Factor, Ce

C. Int. Pressure Coeff, Gcpi

Thermal Factor, Ct 1.2 (Unheated/Open Air Deck Roofs) Importance Factor, I

1 (Allows for Shinale Roof and/or Snow Guards)

- Roof Slope Factor, Cs
- 5. <u>Wind Criteria:</u> A. Basic Wind Speed (Ultimate) 115 mph

## Project General Notes

B. Exposure

A. Material and design specifications cited herein shall be those conforming with the version of the applicable specification or code most recently adopted by the permitting authorities. These structural notes are to be used as a supplement to the specifications, unless noted otherwise.

+/-0.18

- B. Refer to the architectural documents for all dimensions not shown on the structural contract documents. Do no scale the structural contract documents.
- C. The general contractor shall verify all dimensions, elevations, and conditions with architectural, mechanical, electrical, plumbing, and civil drawings and notify the architect/engineer of any discrepancies or inconsistencies.
- D. The size, weights and locations of all equipment pads, roof mounted mechanical units, and penetrations required for mechanical, electrical, and plumbing work shall be verified by the contractor. All penetrations are subject to approval by the architect/engineer.
- E. Any contractor inducing loads on the structure not specified on the contract documents must obtain approval from the architect/engineer prior to erection. Field alterations for any structural member shall not be executed without approval from the architect/engineer
- F. Architect/engineer's approval shall be secured for all substitutions.
- G. The structure and all of its parts must be adequately braced against wind, lateral earth, and seismic forces until the permanent lateral-force resisting systems have been constructed and all of its parts have been installed.
- H. Shop drawings, vendor drawings, or any material prepared and submitted by the contractor or subcontractor are not considered part of the structural contract documents. Any engineering design provided by others and submitted for review shall bear the seal of an engineer registered in the state where the project is
- During construction the contractor may encounter existing conditions which were not known during design or are at variance with the project documentation. Such conditions may interfere with new construction, require protection and/or support of existing work, or may consist of damaged or deterioration of structural materials/components which could jeopardize the structural integrity of the building. Post Installed Anchors The contractor shall notify the engineer of record of all discoveries he believes may interfere with proper execution of the work or jeopardize the integrity of the building prior to proceeding with work related to such discoveries.
- J. The structural engineer shall not have control or charge of and shall not be responsible for construction means, methods, techniques, sequences, procedures, nor site safety.
- K. The structural drawings have been prepared using available information regarding the existing conditions. No attempt has been made to verify any existing conditions against information provided by others. The contractor shall compare the existing documents and notify the architect of any differences before proceeding with work.
- L. Items, in the opinion of the contractor, that appear to be deficiencies, omissions, contradictions, or ambiguities in the plans and / or specifications shall be brought to the attention of the structural engineer. Plans and / or specifications will be corrected or written interpretations of the alleged deficiency, omission, contradiction or ambiguity will be made by the structural engineer. Work shall not proceed in these areas before a response in received from the structural engineer. Structural Wood Framing
- M. All products and materials used by the contractor shall be installed in strict accordance with the manufacturer's instructions.
- N. The general contractor shall determine from the local building official when the permit is obtained whether any letters of construction compliance will be requested from the structural engineer, if so, the contractor shall notify the engineer in writing before the start of construction.
- O. Provide passive radon gas control system per IRC AF103 on new single family homes - Install passive submembrane depressurization system during construction.

## <u>Foundations</u>

- A. Foundations designs are based on owner accepted recommendations provided by Northwest Colorado Consultants, Inc. in soils report No. 22-12594 dated April 22,
- B. Spread footing foundation designs are based on the following:
- . Maximum Bearing Pressure = 3,000 psf 2. Minimum Bearing Pressure = 800 psf
- 3. Minimum Exterior Footing Depth =  $4^{1}-0^{11}$ 4. Minimum Interior Footing Depth = 0'-11"
- C. Retaining wall designs are based on the following
- 1. Active Pressure (Unconstrained-Active) = 45 psf 2. Active Pressure (Constrained-At Rest) = 55 psf 3. Passive Pressure = 250 psf
- 4. Coefficient of Friction = 0.4
- D. All over excavation and fill shall be placed per the soils report.
- E. All foundations and slabs shall be placed on undisturbed or compacted control fill as per the soils report.
- F. All forms and organic debris shall be removed prior to backfilling.
- G. Do not place back-fill against foundation walls until floor slabs at the top and bottom are in place or adequate bracing is installed and concrete is cured, U.N.O.

### Concrete - Cast-In-Place

- A. Structural concrete shall be type 1, and have a minimum 28 day strength of 3,000 psi, exterior concrete slabs shall be type 1 and have a minimum 28 day strength of 4,000 psi. All concrete shall have a min 6% (+/- 1.5%) entrained air for durability and a 4" (+/- 1") slump. The maximum gagregate size shall be 3/4" Concrete shall not be placed on frozen ground and shall be protected from freezing for a minimum of 7 days. During cold weather the methods and specifications set forth in ACI318-14 shall be followed to prevent frost
- B. All concrete work shall conform to the requirements of ACI318-14 and 301, latest edition.
- C. All exposed edges shall have a 3/4" chamfer.
- D. Concrete shall be adequately consolidated/vibrated during placement to ensure it is thoroughly placed around all reinforcing steel and embedded fixtures.
- E. Unless noted otherwise, slabs, footings, and walls shall not have any horizontal 'cold joints. All construction joints shall be detailed or reviewed by the engineer of record.
- F. Interior concrete slab finish shall be steel trowel finished and exterior concrete slabs shall be broom finished.
- G. All concrete shall be normal weight aggregate unless noted otherwise.
- H. Concrete topping for metal decks shall not include any add mixtures containing chloride
- All lightweight aggregate concrete shall have a maximum unit weight of 110 pcf. Concrete Reinforcing Steel:
- A. Reinforcing bars shall conform to ASTM spec. A615-79 and shall be grade 60.
- B. At splices, lap bars a minimum of 38 diameters. At corners and intersections, make horizontal continuous or provide matching corner bars. Around openings in walls and slabs, provide (2) #5 bars extending a minimum of 2 feet beyond the edge of any openings in concrete walls and slabs which are greater than 1'-6" in any direction. Continuous top bars in walls shall be spliced at mid-span. Continuous bottom bars in walls shall be spliced at
- C. Welded wire fabric shall conform to ASTM 185 and shall be lapped one full mesh at splices and tied together.
- D. Concrete reinforcing steel shall conform with ASTM A615 deformed grade 60 (weldable reinforcement shall be ASTM A706, grade 60) unless noted otherwise
- E. Place  $2'-0'' \times 2'-0''$  bars at corners and intersections for walls and foundations equal in size and number to horizontal reinforcing, unless notes otherwise.
- F. All reinforcing steel shall be detailed, fabricated and placed in accordance with ACI detailing manual 315.
- G. All reinforcing steel shall be accurately and securely placed.
- H. Minimum cover from concrete surfaces to reinforcing steel shall conform to ACI318-14, 7.7 unless a greater cover is required and shall be:
- 1. 3" to bottom of footing/grade beams cast against earth
- 2.2" to earth face or exposed face of wall for No. 6 bar \$ greater
- 3.1½" to earth face or exposed face of wall for No. 5 bar \$ smaller 4.1%" to inside face of wall
- 5.1%" to inside faces of main beams and columns
- 6.1" to top and bottom of concrete slab surfaces of slab-on-arade
- Start first rebar 3" in from the edge, where slab rebar is called out as On-Center (O.C.) spacing.
- J. All welded wire fabric shall maintain a minimum lap splice of 6".
- K. Install rebar chairs with appropriate material for anticipated concrete exposure
- L. Concrete foundation walls shall be dampproofed on the exterior surface with either bituminous material, acrylic modified cement (3 lb/sq, yard), or surface-bonding mortar ( $\frac{1}{2}$ " thick), per IBC 1805.2.2

- A. Expansion anchors shall be ICC-approved (zinc plated in accordance with ASTM B633, hot-dipped galvanized in accordance with ASTM A153, AISI 304 stainless steel) and conform with FS-S-325, group II, type 4, class 1
- B. Expansion bolts called for on the drawings shall be Simpson "Weg-All", "Strong-Bolt 2" or approved wedge type anchors with the following minimum embedment's: 3," diameter bolts -  $3\frac{5}{8}$ ",  $\frac{5}{8}$ " diameter bolts -  $2\frac{3}{4}$ ",  $\frac{1}{2}$ " diameter bolts -  $2\frac{1}{4}$ "

C. Adhesive anchors shall be ICC-approved and shall consist of all-thread anchor rod, nut

- washer and adhesive capsule. Anchor rods shall comply with ASTM A307. (not used at PT slabs).
- D. All epoxy shall be Simpson "Set-XP" and shall be installed per the "Anchoring and Fastenina Systems for Concrete and Masonry" Simpson Catalog #C-A-2018 by a qualified
- E. Heavy duty screw anchors shall be stainless steel: Simpson Titen HD or approved equal
- A. Unless noted otherwise, all 2" lumber shall be Douglas-Fir S4S No. 2 and better. All solid timber beams and posts shall be DF-1 No. 1 or better.
- B. Unless noted otherwise, minimum nailing shall be provided as specified in table No. 2304.10.1, "Fastening Schedule", of the 2018 IBC or table No. R602.3(1), "Fastener Schedule" for Structural Members", of the 2018 IRC.
- C. Wall and floor sheathing shall be APA rated with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.
- D. Where light gauge framing anchors are shown or required, they shall be Simpson "Strong Tie" (or equal approved by ICBO). they shall be installed with the number and type of fasteners recommended by the manufacturer to develop the rated capacity.
- Floor joists shall be plant fabricated I series with LVL or solid wood flanaes and plywood or OSB webs, and shall carry ICBO approval for a complete section. Joists shall be designed to carry full live and dead loads of the roof(s), floor(s), and any superimposed
- F. Roof overframing shall be 2x6 rafters @ 24" o.c. w/ 2x6 studs @ 24" o.c. to stack over rafters or purlins below.
- G. All members 3x or less (least dimensions) shall be kiln-dry with 19% moisture content,
- H. Provide solid blocking (same depth of member) at all points of bearing.
- I. All plates and ledgers in contact with concrete or masonry shall be pressure treated in accordance with AWPA standard C-2. Pressure-treated lumber shall bear the AWPB (American Wood Preservers Bureau) quality mark.
- K. Block all shear wall sheathing with 2x6 flat blocking at all edges.

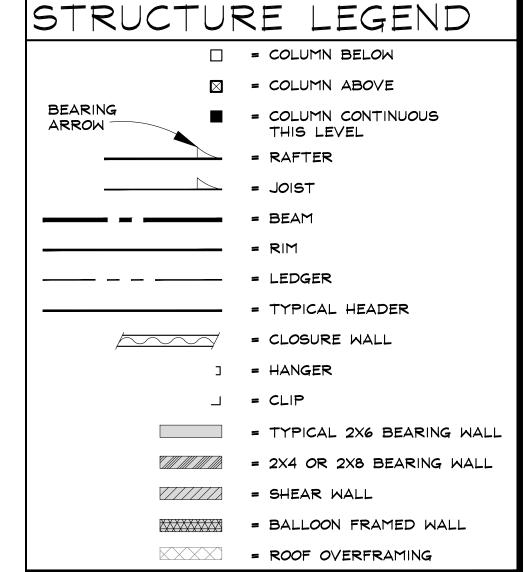
J. Plywood sheathing shall be laid with end joints staggered.

- Nailing indicated on plans and details are "common" nails as defined by the National Design Specification for Wood Construction (NDS), unless noted otherwise. The minimum nail sizes are as follows:
- $8d = 0.131'' dia \times 2\frac{1}{9}'' long$ 10d = 0.148" dia x 3" long
- c.  $16d = 0.162'' \text{ dia } \times 3\frac{1}{2}'' \text{ long}$

- Structural Wood Framing Continued
- M. Lay out plywood to eliminate any width less than 1'-0", except at plywood floors where minimum dimension shall be  $2^{1}-0^{1}$ , unless all edges of the undersized sheets are supported
- N. Oriented strand board conforming with IBC and manufactured with exterior glue may be substituted for plywood provided it has equal load/span rating index and bears the APA trademark of the American Plywood Association.
- O. Solid bridging at maximum of 8'-0'' on center shall be required where joists have a five-to-one or greater depth-to-thickness ratio and where one edge is not held in line by sheathing, wallboard, bracing, etc.
- P. Double up study at corners of bearing walls, unless noted otherwise, see plans for bearing wall locations.
- Q. Provide (3) 2x studs nailed together under all bearing points of roof girder trusses, concentrated loads and beam bearings, unless noted otherwise. Studs shall extend from top of foundation to bottom of members.
- R. Contractor is to protect floor and roof sheathing from extreme wet conditions to limit movements due to expansion caused by moisture. Additionally, provide proper panel spacing per the American Plywood Association recommendations.
- S. Where pressure-treated plywood is indicated on the drawings, it shall conform with AWPA standard C-9 and shall exceed the AWPB (American Wood Preservers Bureau) apality
- T. Joists shall be treated if w/in 18" above grade \$ beams shall be treated if w/in 12"
- U. All lumber exposed to weather shall be naturally durable, preservative treated or pressure treated if not covered by a roof overhang or covering to prevent moisture or water accumulation on the surface.
- V. All fasteners (nails, screws, anchor bolts, etc.) in contact with pressure treated or FRT lumber shall be corresion resistant in accordance with IBC 2304.10.5.
- W. All connectors used with pressure treated material or exposed to weather shall be stainless steel or have a Simpson Z-Max/HDG coating or equal. All connectors exposed to the exterior shall be G185 galvanized or approved equal.
- X. Provide 2x6 blocking around all openings in roof. Nail the panels to blocking with 10d nails at 4" O.C around the opening. Provide 2x8 blocking around all openings in floors. Nail the panels to the blocking with 10d nail at 4" O.C. around the opening.
- Y. Provide solid blocking under all columns from top of foundation or beam bearing to the bottom of column or post.
- Z. Provide one  $\frac{1}{4}$ "x3"x3" minimum galvanized plate washer (conforming to the 2018 National Design Specification Special Design Provisions for Wind and Seismic) under all shear wall anchor bolts. Plate washers shall extend to within  $\frac{1}{2}$ " of the edge of the bottom plate on the side with shear wall sheathing. Where sheathing occurs on both sides of wall, stagger plate washers
- AA. All floor decking shall be glued and nailed to joists. All floor decking shall be tongue and groove with glued joints.
- BB. Engineered wood beams shall be as manufactured by I-level, or approved equal.
- CC. Glue laminated beams shall be as manufactured by Weyerhaeuser, or approved equal.
- DD. All rim joists shall be as noted on plans and details. Rim material shall be ICC approved for rim joist applications.

# Manufactured Wood Trusses

- A. Roof trusses shall be designed by a Colorado registered professional engineer to support the full live load and dead loads of the roof, ceiling, and any other superimposed loads. Calculations and shop drawinas, including member sizes, lumber species, and arade and substantiating data for connector capacities and truss bearing, shall be submitted to the architect or engineer for review and approval prior to fabrication.
- B. Trusses shall comply with all provisions of the design specifications for light metal plate connected wood trusses of the truss plate institute, except as noted otherwise.
- C. All truss and compressive member stay bracing and connections shall be manufactured and designed by an approved manufacturer.
- D. Members shall not exceed the following deflection criteria:
- Roof Live = L/360Floor Live = L/480
- Roof Total = L/240Floor Total = L/240
- E. Connect all trusses to supporting members with one Simpson H2.5a anchor and two 10d toenails, unless noted otherwise.
- Provide a drag truss over all shear walls parallel to the truss direction. Provide blocking panels between trusses over shear walls perpendicular to truss. Design the drag truss \$ blocking over shear walls for minimum of 300 plf, unless noted otherwise on
- G. Truss manufacturer shall furnish all end and intermediate stiffeners, blocking and/or shear panels, metal bridging assemblies and hangers, as required to provide a complete floor or roof structural system.
- H. Truss shall be designed for a point load equal to a filled sprinkler pipe, plus a minimum 250 lbs load, applied at the point of hanging per NFPA. The contractor shall provide sprinkler shops to the truss manufacture for coordination of hanger locations and
- Attic spaces of trusses shall not be used for storage unless specifically noted on plans that such space was designed for a storage load



## Structural Steel and Miscellaneous Iron

ABV

ALT

ALUM

ARCH

BO

BOT

COL

CONC

CONT

DIA

DWG

EΑ

EOR

EΜ

EXT

FTG

IBC

IRC

INT

LVL

ABOVE

ALUMINUM

BOTTOM

COLUMN

DOUBLE

DIAMETER

DIAMETER

DRAWING

ELEVATION

EACH WAY

EXTERIOR

GIRDER TRUSS

FOOTING

HEM-FIR

INTERIOR

ENGINEER OF RECORD

GLUE-LAMINATED BEAM

INTERNATIONAL BUILDING CODE

LAMINATED STRAND LUMBER

LAMINATED VENEER LUMBER

INTERNATIONAL RESIDENTIAL CODE

CONCRETE

CONTINUOUS

DOUGLAS FIR

BOTTOM OF

CENTER LINE

ALTERNATE/ALTERNATING

CONCRETE MASONRY UNIT

ARCHITECT/ARCHITECTURAL

- A. Structural steel shall be detailed and fabricated in accordance with the latest version of the AISC manual of steel construction.
- B. All bolts, including anchor bolts, shall conform to ASTM spec. A307.
- C. Structural steel rolled shapes, including plates and angles, shall be ASTM spec. A570, gr. 50ksi.
- D. Field welded connections must be inspected by the engineer of record.
- E. Fillet welds indicated on the plans shall be of E70xx electrodes and shall be the minimum size specified in the AISC manual of steel construction, table J2.4. All other welds shall be made with E70xx electrodes.
- F. All welding shall conform to AWS specifications.
- G. All welds shall be performed by a certified welder under AWS specifications.
- H. Steel shall be thoroughly cleaned of mill scale prior to application of the primer in accordance with SSPC SP-3.
- . All steel plates and angles in contact with concrete and exposed to weather shall have a protective coating as specified by the architect.
- J. Sections of equal or greater strength may be substituted subject to the enameer's written approval.
- K. Shop and erection drawings shall be submitted for engineers review prior to fabrication. Fabricator proceeds at his own risk without receipt of above review.
- L. The contractor shall coordinate with the mechanical drawings the location of all openings cut through the roof or floors.
- M. All fabrication, erection, identification and painting of structural steel shall conform to AISC specifications.
- N. Anchor rods are to be located by means of a template. Do not hand set or wet set.
- O. Anchor rods and embedded items shall be set in accordance with the code of standard, practice section 7.5.
- P. All boits shall be snug tight, unless noted otherwise on the plans.
- Q. Anchor bolts shall conform with ASTM A307 or F1554 and shall be provided with plate washers and heavy hex nuts. Bolts in contact w/ pressure treated material or are exterior bolts shall be galvanized in accordance with ASTM A153, class C. Nuts shall be over-tapped to class 2A fit before galvanizing, in accordance with ASTM A563. Bolt heads or nuts bearing on sloping flanges shall be equipped with beveled washers.

ABBREVIATIONS LIST

MECH

MFR

MIN

oc

OSB

PERP

PLYMD

REINF

REQ

SBW

SCH

SIM

SPF

T#B

T#G

THRU

TYP

VIF

MD

STRUCT

MAXIMUM

MINIMUM

PLATE

PLUMBING

PLYWOOD

REQUIRED

SCHEDULE

SCHEDULE

THROUGH

TYPICAL

MOOD

SIMILAR

ON CENTER

MECHANICAL

MANUFACTURER

PERPENDICULAR

POST TENSIONED

SPRUCE-PINE-FIR

TOP AND BOTTOM

VERIFY IN FIELD

ORIENTED STRAND LUMBER

PARALLEL STRAND LUMBER

REINFORCEMENT/REINFORCING

PRESERVATIVE TREATED

STEP BOTTOM OF WALL

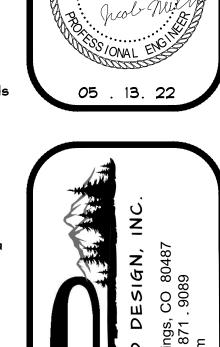
STRUCTURE/STRUCTURAL

UNLESS NOTED OTHERWISE

WEATHER RESISTIVE BARRIER

TONGUE AND GROOVE

WELDED WIRE FABRIC



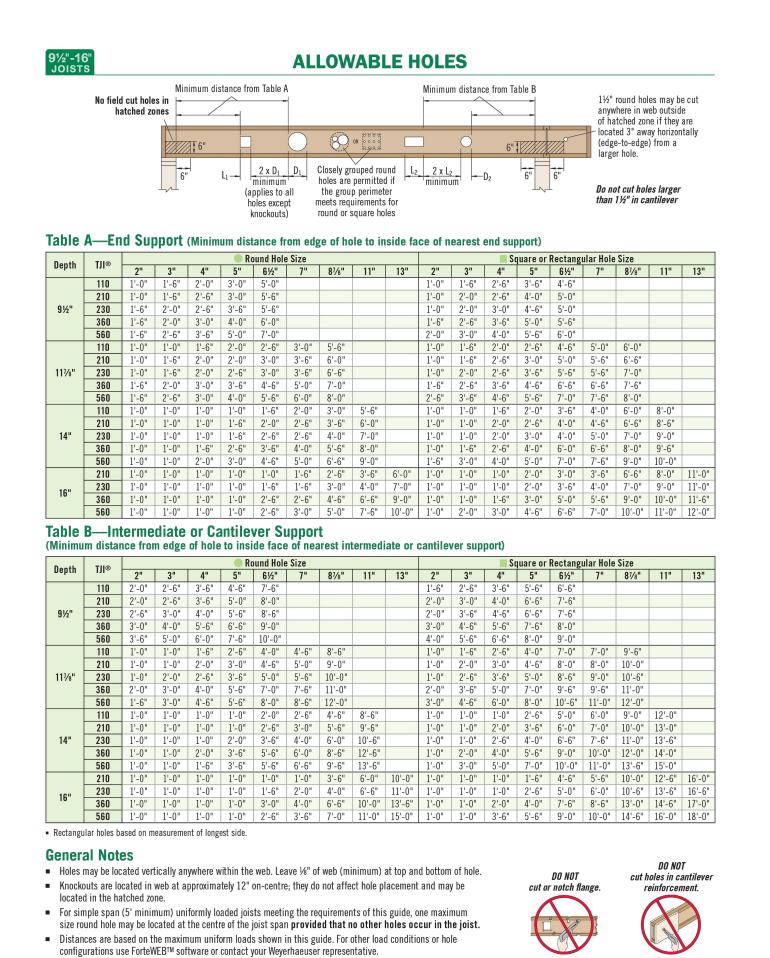
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ISSUE DATES 03 . 18 . 22 REVIEW SET 03 . 25 . 22 REVIEW SET 03 . 31 . 22 REVIEW SET 05 . 13 . 22 PERMIT

DRAWN BY: JEM REVIEWED BY: CWM/KLI PROJECT # 22024 STRUCTURAL NOTES

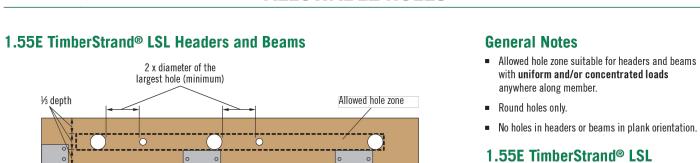


See page 24 for how to use these tables and General Notes.

ALLOWABLE HOLES IN 9/2"-16" TJI JOISTS

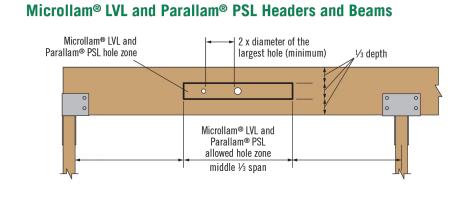
Trus Joist® TJI Joist® Specifier's Guide (Canada) NBCC TJ-4500 | March 2021

PER WEYERHAEUSER MARCH 2021 SPECIFIER'S GUIDE #TJ-4500 VERIFY WITH OTHER MANUFACTURER SPECIFICATIONS IF OTHER THAN WEYERHAEUSER JOISTS USED ONLY APPLICABLE FOR RESIDENTIAL LIVING AREA LOADING - CONTACT SEAD FOR OTHER SCENARIOS



**ALLOWABLE HOLES** 

Header or Beam Depth | Maximum Round Hole Size • See illustration for allowed hole zone.



Larger holes in Trus Joist® structural

composite lumber may be possible; refer to Forte®WEB or Javelin® software.



See illustration for allowed hole zone.

Allowed hole zone suitable for headers and beams

No holes in headers or beams in plank orientation.

Header or Beam Depth Maximum Round Hole Siz

**General Notes** 

Round holes only. No holes in cantilevers.

with **uniform loads only**.

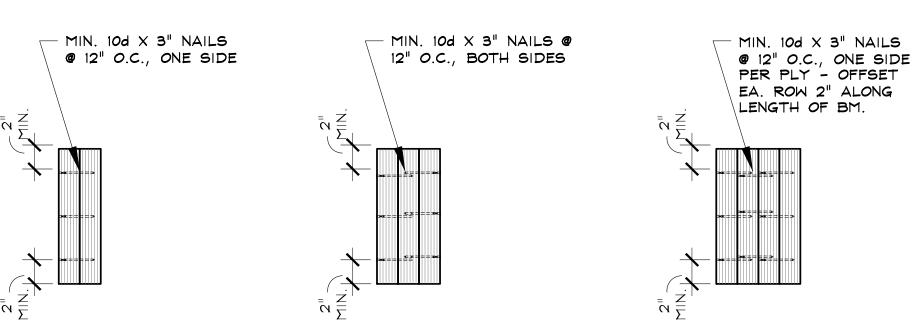
Microllam® LVL and

Parallam® PSL

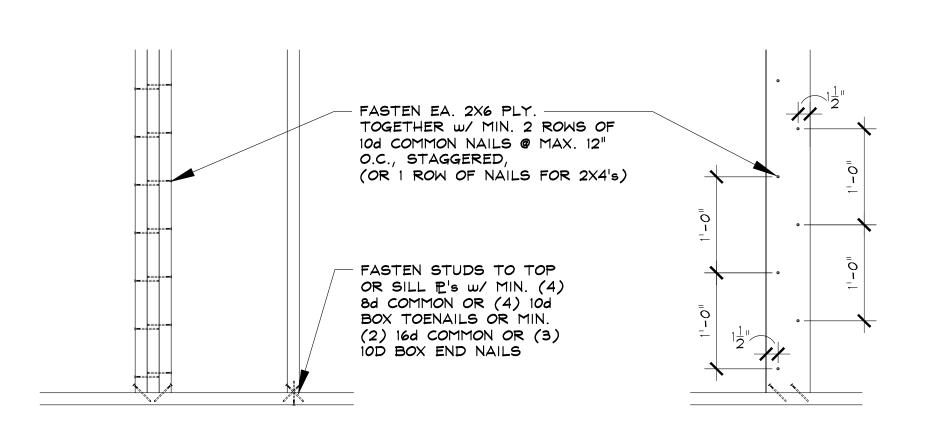
PER WEYERHAEUSER MARCH 2020 SPECIFIER'S GUIDE #TJ-9505 VERIFY WITH OTHER MANUFACTURER SPECIFICATIONS IF OTHER THAN WEYERHAEUSER JOISTS USED NOTE: ADHESIVE SHALL BE APPLIED BETWEEN EA. PLY

NOTE: ADD A ROW OF NAILS IF BEAM IS DEEPER THAN 14"

NOTE: IF USING 16d X 3" NAILS, CAN REDUCE BY A ROW



TYPICAL MULTI PLY BEAM FASTENING PER WEYERHAEUSER MARCH 2021 SPECIFIER'S GUIDE #TJ-4500 SCALE: 1/2" = 1'-0" ADHESIVE SHALL BE APPLIED BETWEEN EA. PLY



TYPICAL BUILT-UP WOOD COLUMN PER IBC, TBL. 2304.10.1, FASTENING SCHEDULE \$ NDS SECTION 15.3.3

SCALE: 1" = 1'-0"

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03 . 18 . 22 REVIEW SET 03 . 25 . 22 REVIEW SET 03 . 31 . 22 REVIEW SET 05 . 13 . 22 PERMIT

DRAWN BY: JEM REVIEWED BY: CWM/KLN PROJECT # 22024 GENERAL WOOD

FRAMING DETAILS

NOTE: DIMENSIONS SHOWN APPLY FOR %"\$ BOLTS FOR 1/2" POLTS, USE MIN. 2" SPACING FOR 3/4 BOLTS, USE MIN. 3" SPACING SADDLE NOTCH CONNECTION @ BM - COL.

TYPICAL BOLT SPACING CLEARANCES

SCALE: N.T.S.

# FOUNDATION NOTES

. ELEVATION @ TOP OF CONCRETE WALL INDICATED THUS: ELEV/

- 2. ELEVATION @ TOP OF CONCRETE FOOTING INDICATED THUS: (ELEV)/
- 3. COLUMNS THAT BEGIN THIS LEVEL ARE INDICATED ON PLAN.
- 4. FLOOR SLABS SHALL BE SEPARATED FROM ALL BEARING WALLS, COLUMNS, \$ FOUNDATIONS W/ POSITIVE SLIP JOINT (1/2" CELLOTEX MATERIAL OR APPROVED EQUAL).
- 5. ALL FLOOR SLABS SHALL HAVE SAWN OR TOOLED CONTROL JOINTS @ 10'-0" O.C., EACH WAY
- 6. PROVIDE MIN. 6 MIL. POLYVINYL CHLORIDE WATERPROOFING (W/ JOINTS LAPPED \$ SEALED PER MANUFACTURER) OVER MIN. 6" GRAVEL BELOW CONC. FLOOR SLABS.
- 7. APPLY WATERPROOFING TO EXTERIOR OF CONC. WALL W/ MIN. 2-PLY HOT-MOPPED FELT, 40 MIL POLYMER-MODIFIED ASPHALT, OR 6-MIL POLYETHYLENE
- 8. INTERIOR NON-BEARING WALLS SHALL HAVE POSITIVE SLIP JOINT. Re: SOILS REPORT FOR TYPICAL SECTION

FOOTING SCHEDULE			
⊗ MARK	SIZE	REINFORCING	
А	28" DRILLED PIER - POUR 'NEAT' IN HOLE. FORM TOP 12" ω/ 14"φ SONOTUBE	(4) #4 VERTS w/ #3 HOOP TIES @ 12" O.C. w/ (3) IN TOP 5"	

COLUMN LEGEND \$				
SCHEDULE				
© © MARK	SIZE	REMARKS		
C2	(3) 2×6			
C10	C10 10X10 TIMBER COL. W/ ABUZ1010			
NOTES:  CX INDICATES COLUMN BELOW  CX INDICATES COLUMN ABOVE				
INDICATES CONTINUOUS COLUMNS				
1. COLUMN SCHEDULE IS FOR ENTIRE PROJECT 2. N/A DENOTES COLUMN IS NOT USED THIS SHEET				

MALL KEY
= 8" WIDE CONCRETE WALL
= 10" WIDE CONCRETE WALL

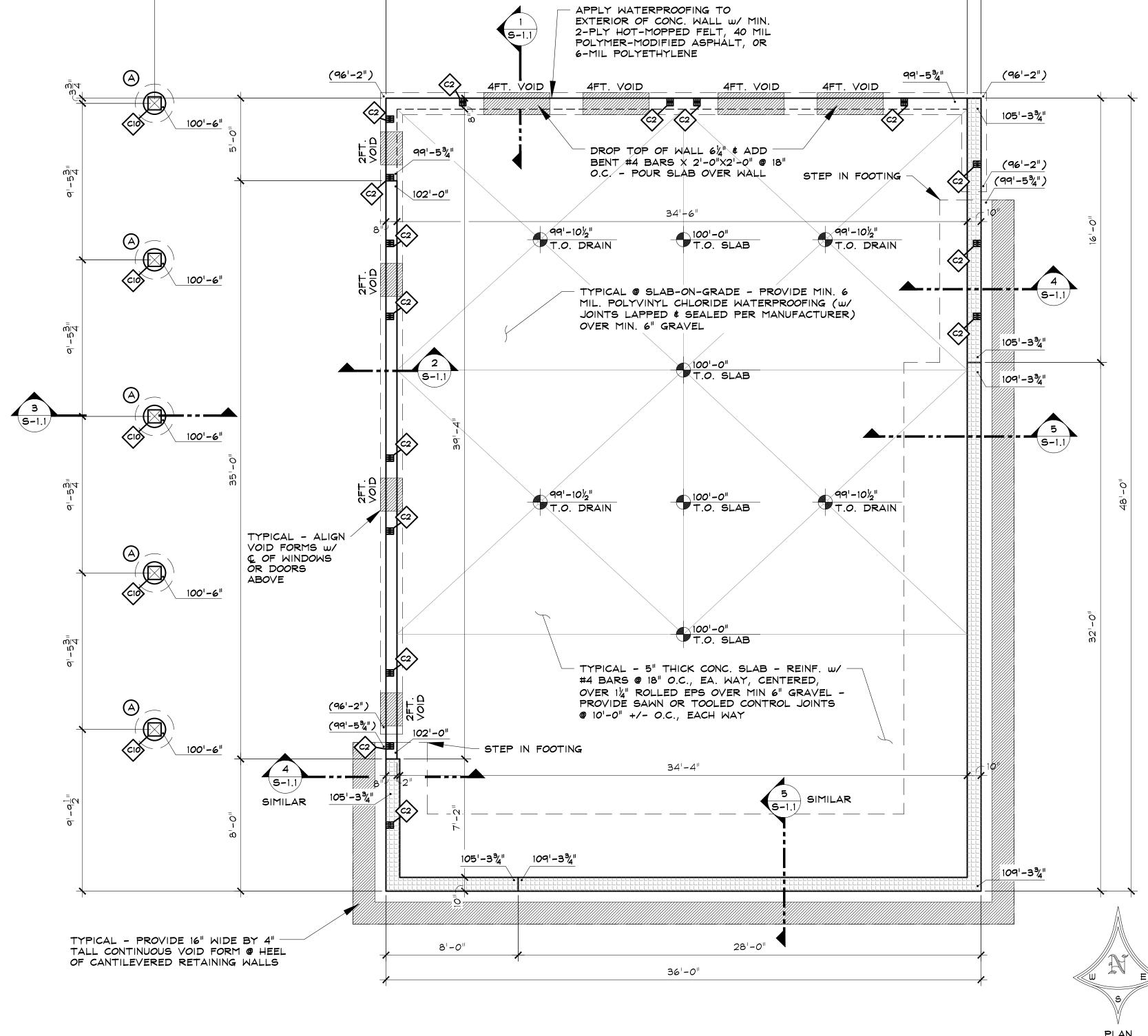




03 . 18 . 22 REVIEW SET 03 . 25 . 22 REVIEW SET 03 . 31 . 22 REVIEW SET 05 . 13 . 22 PERMIT

DRAWN BY: JEM REVIEWED BY: CWM/KLN PROJECT # 22024 FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

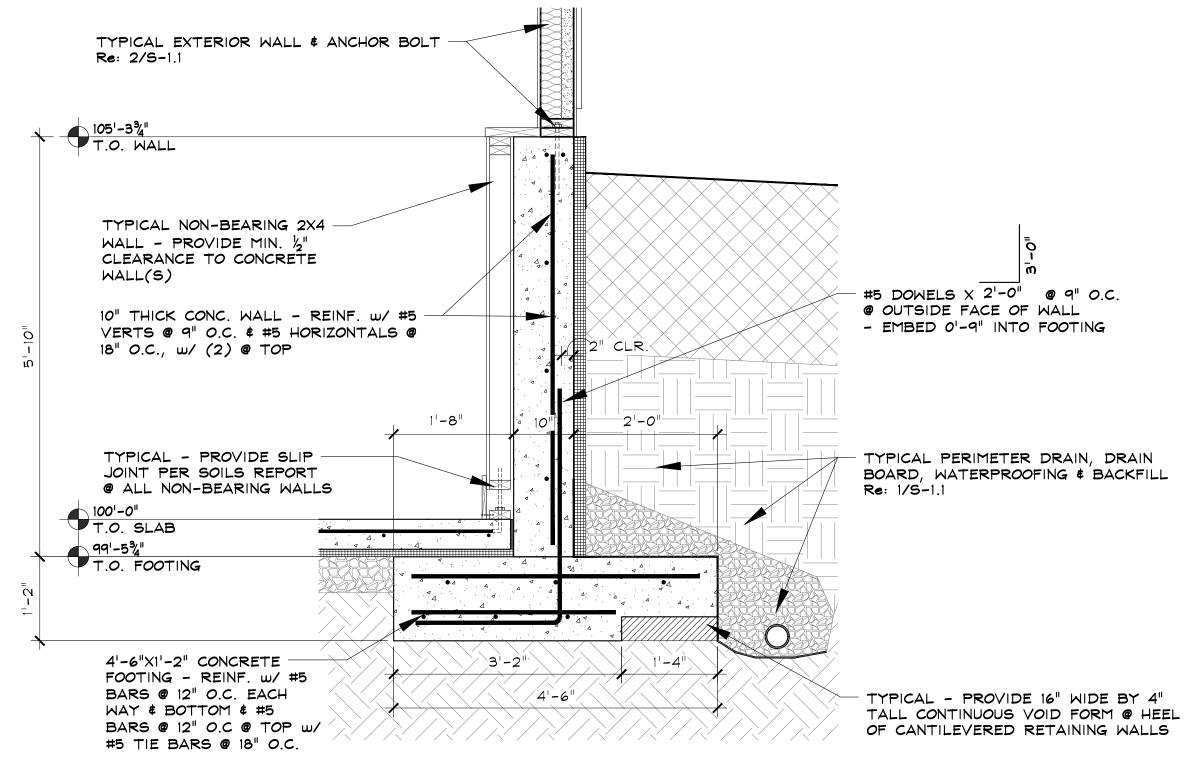


36'-0"

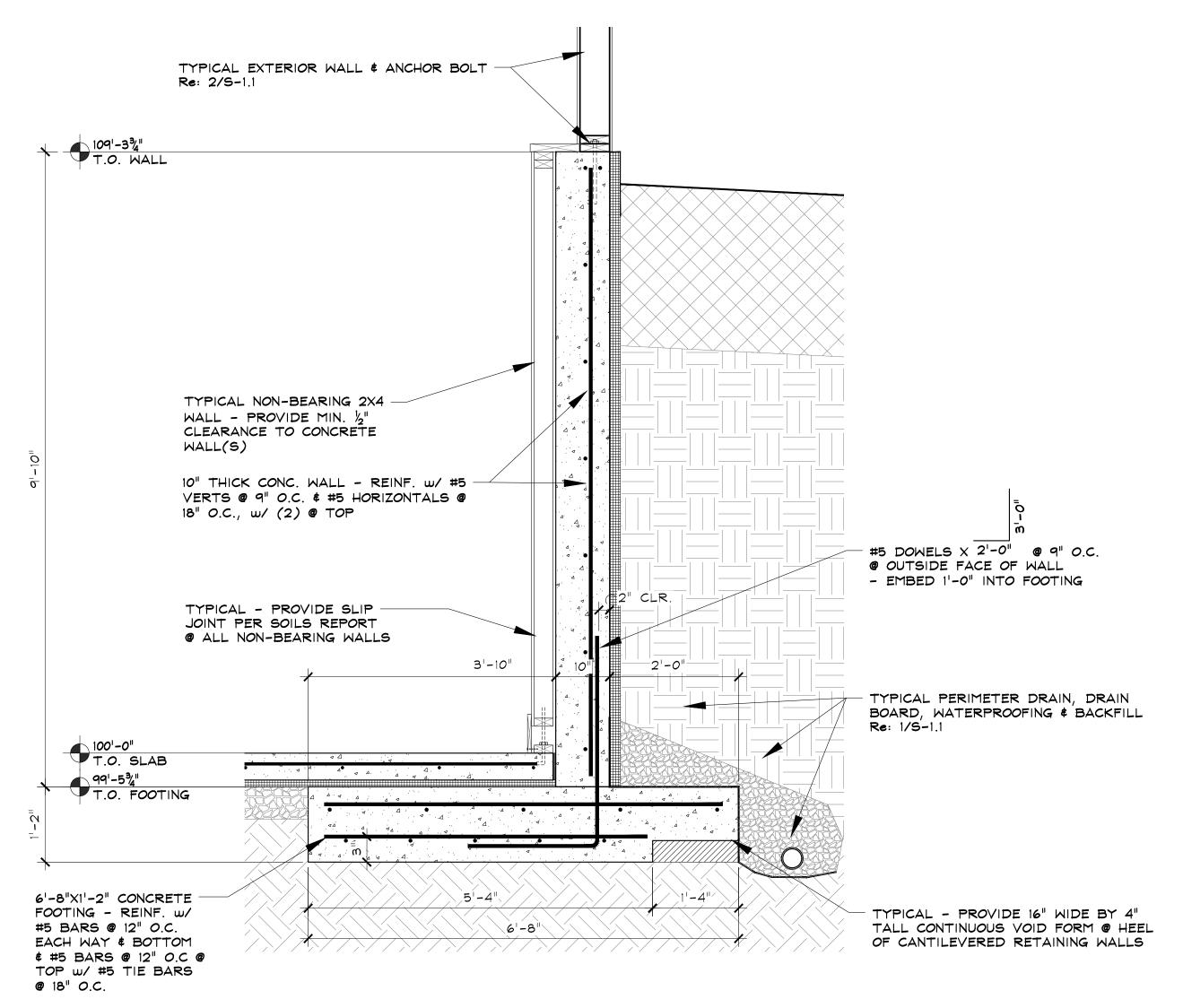
35'-2"

14'-0"

FOUNDATION PLAN

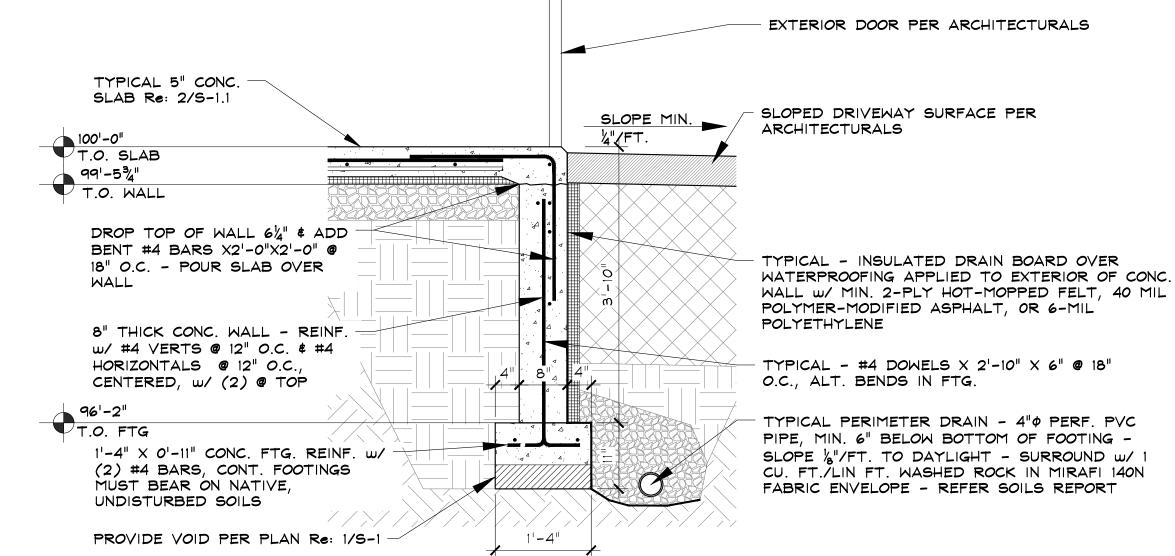


TALL CANTILEVERED WALL SECTION SCALE:  $\frac{3}{4}$ " = 1'-0"



TALL CANTILEVERED WALL SECTION

SCALE:  $\frac{3}{4}$ " = 1'-0"



TYPICAL - INSULATED DRAIN BOARD OVER

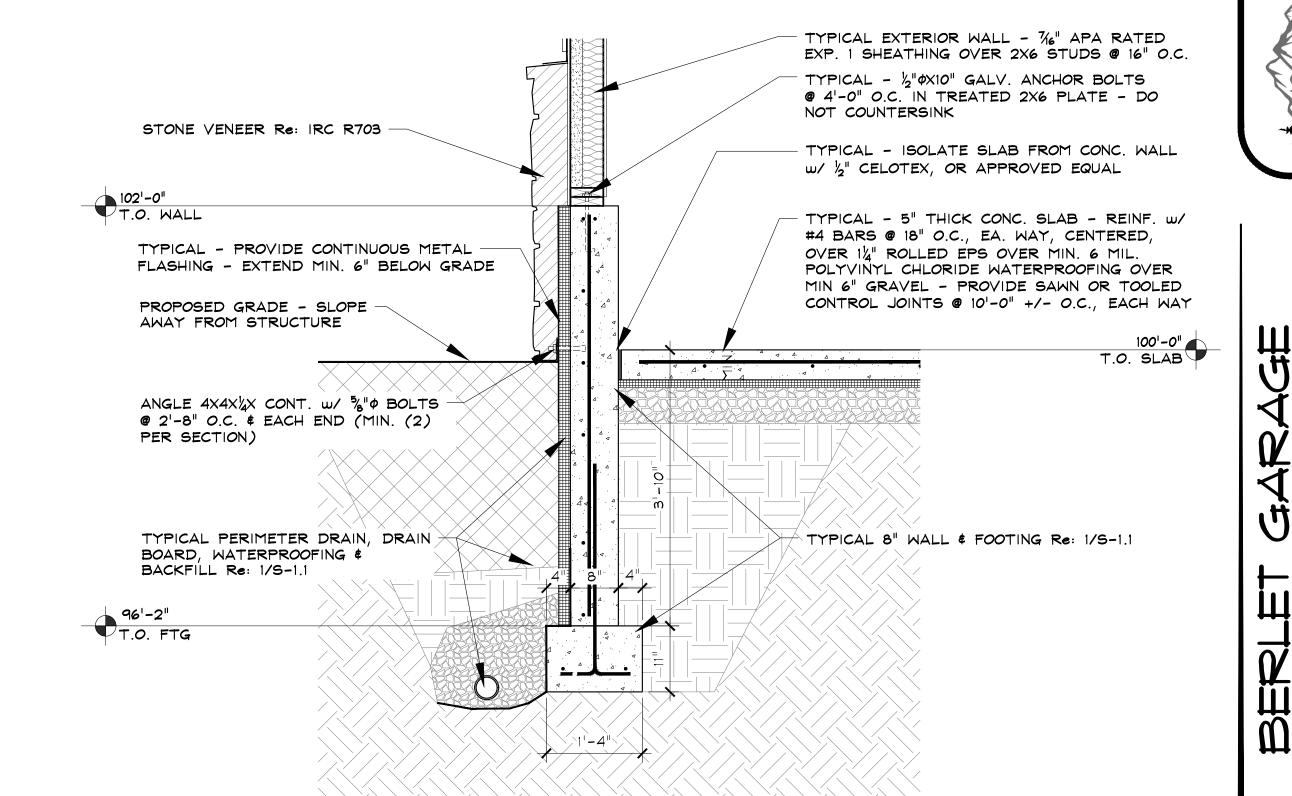
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TYPICAL - #4 DOWELS X 2'-10" X 6" @ 18" O.C., ALT. BENDS IN FTG.

TYPICAL PERIMETER DRAIN - 4"\$ PERF. PVC PIPE, MIN. 6" BELOW BOTTOM OF FOOTING -SLOPE 1/FT. TO DAYLIGHT - SURROUND W/ 1 CU. FT./LIN FT. WASHED ROCK IN MIRAFI 140N FABRIC ENVELOPE - REFER SOILS REPORT

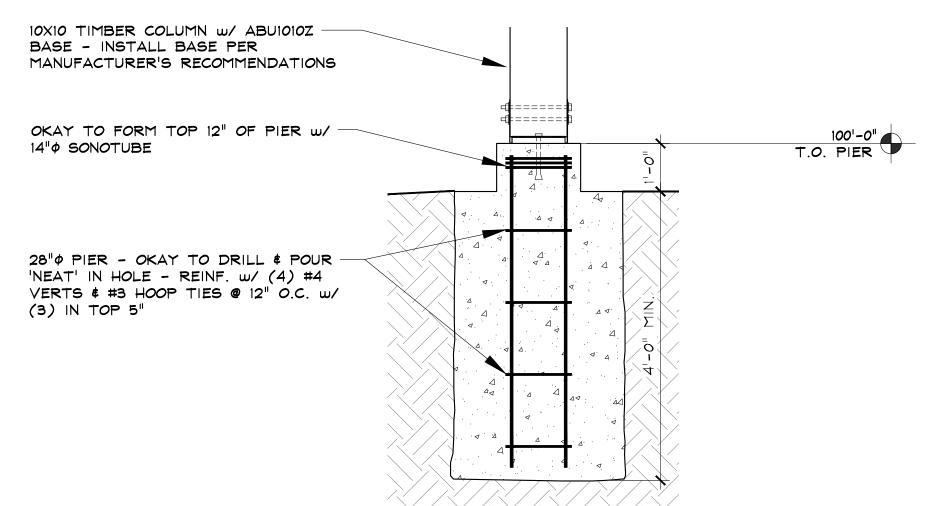
# YPICAL FOUNDATION SECTION @ DROPPED WALL

SCALE:  $\frac{3}{4}$ " = 1'-0"



FOUNDATION SECTION @ 8" WALL

SCALE:  $\frac{3}{4}$ " = 1'-0"



TYPICAL PIER SECTION

DRAWN BY: JEM REVIEWED BY: CWM/KLN PROJECT # 22024 FOUNDATION

SCALE:  $\frac{3}{4}$ " = 1'-0"

SECTIONS

03 . 18 . 22 REVIEW SET 03 . 25 . 22 REVIEW SET 03 . 31 . 22 REVIEW SET 05 . 13 . 22 PERMIT

## FRAMING NOTES

- PROVIDE %" APA RATED EXPOSURE 1 40/20 SHEATHING
- 2. ELEVATION @ TOP OF BEAM INDICATED THUS: (ELEV)
- 3. TYPICAL @ MULTI-PLY BEAMS & HEADERS FASTEN EA. PLY w/ ADHESIVE & FASTENING PER 1/S-0.1
- 4. Re: 5/S-2.1 FOR MANUFACTURED TRUSS SCHEMATICS
- 5. FULL HEIGHT BLOCKING & DIAPHRAGM NAILING INDICATED THUS: Re: 2/5-2.1

BEARING 2X6 STUD PACK BELOW GIRDER BEARING, U.N.O.

6. TYPICAL @ GIRDER TRUSSES & GIRDER RAFTERS - PROVIDE FULL

8. ATTIC SPACES OF TRUSSES SHALL NOT BE USED FOR STORAGE UNLESS SPECIFICALLY NOTED ON PLANS THAT SUCH SPACE WAS DESIGNED FOR A STORAGE LOAD

WALL SCHEDULE				
HATCH	DESCRIPTION	STUDS	FASTENING	REMARKS
	TYPICAL 134"X5½" LSL BEARING W/ SHEATHING	1¾"X5½" LSL <i>O</i> R LVL	76" SHEATHING ONE SIDE W/ 6" EDGE NAILING \$ 12" FIELD NAILING	NO SHEATHING @ INTERIOR WALLS
	BALLOON FRAME	1¾"X5½" LSL <i>O</i> R LVL	SAME AS TYPICAL	

PLANS

1. ALL STUDS SHALL BE MAX. 16" O.C., U.N.O.
2. WALL HATCHES ARE FOR WALLS BELOW FRAMING PLAN SHOWN 3. BLOCK ALL PANEL EDGES OF ALL SHEAR WALLS 4. PROVIDE HOLDOWNS AT SHEAR WALLS AS LABELED ON FRAMING

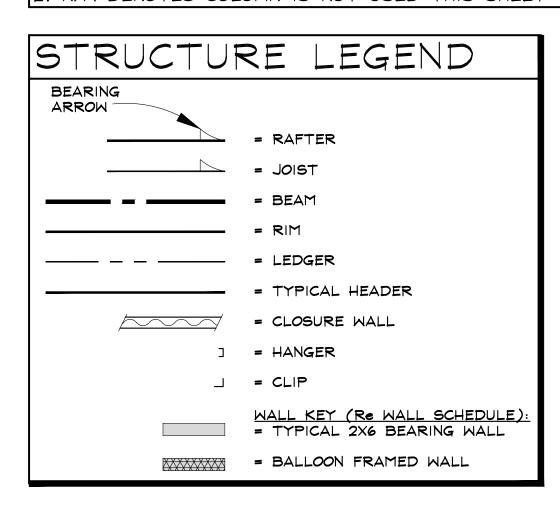
HEADER SCHEDULE				
HXMARK	SIZE	TRIMMER	K K	REMARKS
H1	(2) 9½" LVL's	(2) 2×6	(1) 2×6	
H2	(3) 11%" LVL's	(2) 2×6	(1) 2×6	
NOTES:  1. HEADER SCHEDULE IS FOR ENTIRE PROJECT				

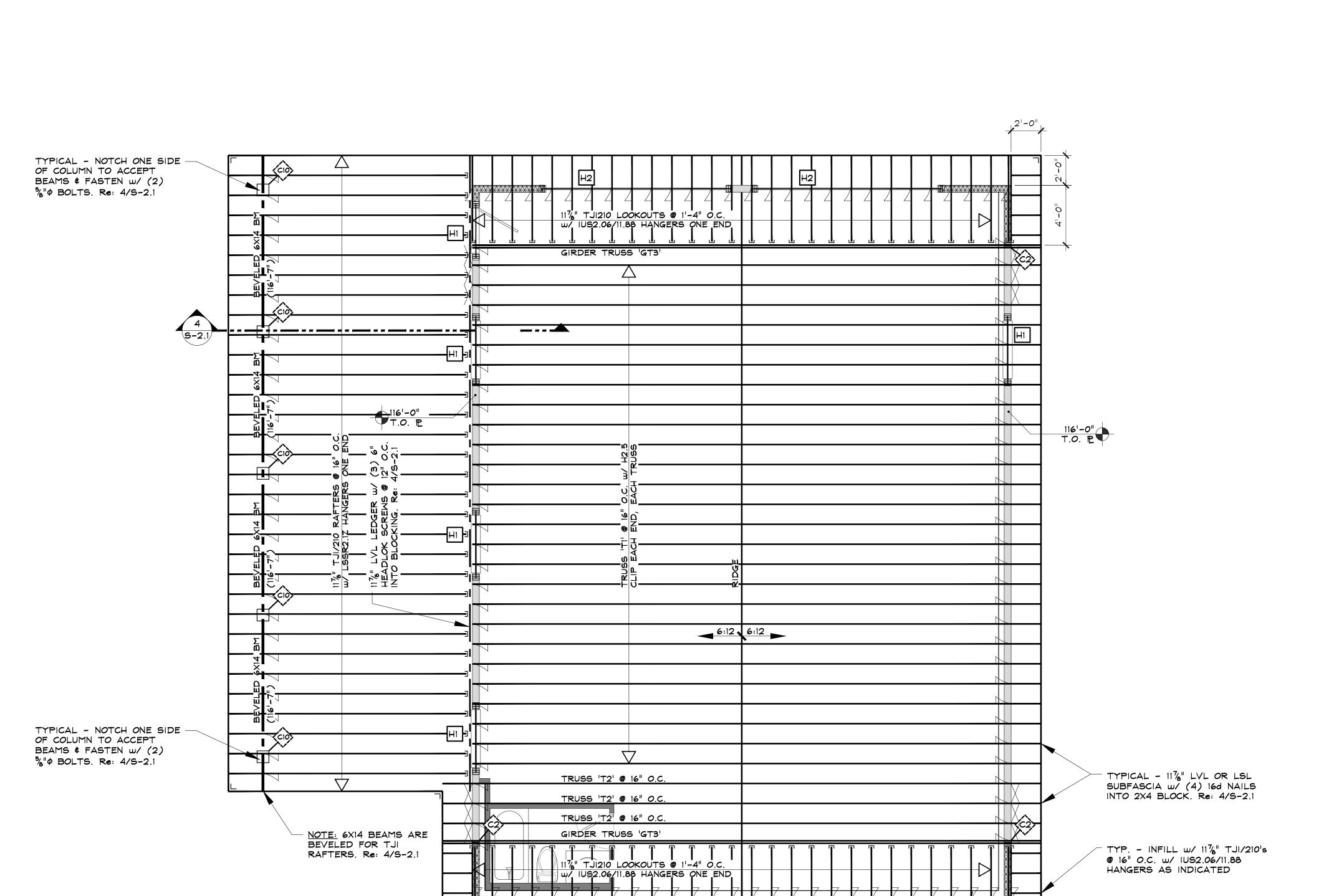
2. N/A DENOTES HEADER IS NOT USED THIS SHEET 3. TRIMMER & KING STUDS ARE PER EA. END OF HEADER, U.N.O.

COLUMN LEGEND \$		
SCHEDULE		
(XXX)MARK	SIZE	REMARKS
C2	(3) 2×6	TRIMMER/KING STUDS OR COLUMNS BELOW GIRDERS
C10	1 <i>0</i> ×1 <i>0</i>	TIMBER COL.
NOTES:		
INDICATES COLUMN BELOW		
CXX INDICATES COLUMN ABOVE		

■ INDICATES CONTINUOUS COLUMNS

COLUMN SCHEDULE IS FOR ENTIRE PROJECT 2. N/A DENOTES COLUMN IS NOT USED THIS SHEET









ISSUE DATES 03 . 18 . 22 REVIEW SET 03 . 25 . 22 REVIEW SET 03 . 31 . 22 REVIEW SET 05 . 13 . 22 PERMIT

DRAWN BY: JEM REVIEWED BY: CWM/KLN PROJECT # 22024 ROOF FRAMING PLAN

PROVIDE  $11\frac{7}{8}$ " LVL GIRDER RAFTER  $\omega$ / HU9 HANGER AS

TYPICAL - PROVIDE LS90

SCALE:  $\frac{1}{4}$ " = 1'-0"

CLIPS @ CORNERS

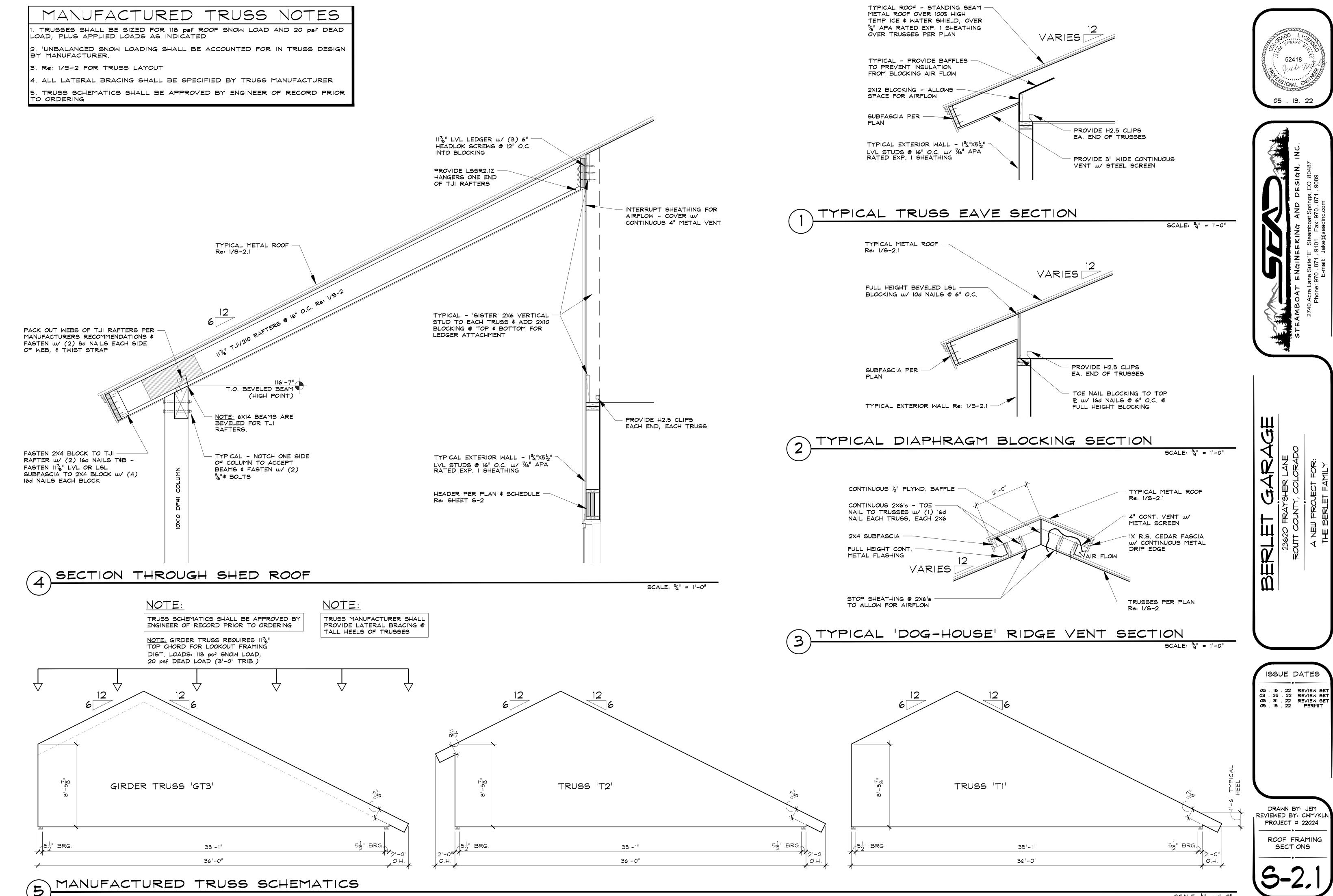
INDICATED

IMPORTANT NOTE: FRAME

MNI. 22"X30" ATTIC ACCESS

IN CEILING BELOW LOOKOUTS

ROOF FRAMING PLAN



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SCALE:  $\frac{1}{4}$ " = 1'-0"