

STRUCTURAL GENERAL NOTES

**GOVERNING CODE:** 2021 INTERNATIONAL RESIDENTIAL CODE (IRC) AND ALL LOCAL AMENDMENTS, EXCEPT AS NOTED; ANY STRUCTURAL ELEMENTS (IF ANY) NOT IN CONFORMANCE WITH THE IRC HAVE BEEN DESIGNED PER THE 2021 IRC PER IRC R301.1.3

- DESIGN LOADS:**
1. RISK CATEGORY:

2. ROOF SNOW LOADS:

A. GROUND SNOW LOAD (P<sub>g</sub>):

B. FLAT ROOF SNOW LOAD (P<sub>f</sub>) (UNHEATED):

C. SNOW EXPOSURE FACTOR (C<sub>e</sub>):

D. SNOW LOAD IMPORTANCE FACTOR (I<sub>s</sub>):

E. THERMAL FACTOR (C<sub>t</sub>) (UNHEATED):

F. SLOPE FACTOR (C<sub>s</sub>):

G. SNOW DRIFTING AND UNBALANCED LOADS:

A. RESIDENTIAL:

B. EXTERIOR DECKS:

4. ROOF AND FLOOR DEAD LOADS:

A. ROOF - STANDING SEAM METAL:

B. DECK:

5. WIND LOADS:

A. BASIC WIND SPEED, 3-SECOND GUST (V<sub>1-17</sub>):

B. ALLOWABLE STRESS DESIGN WIND SPEED (V<sub>ASD</sub>):

C. OCCUPANCY RISK CATEGORY:

D. INTERNAL PRESSURE COEFFICIENT (GC<sub>pi</sub>):

E. WIND EXPOSURE:

6. COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF) (ASCE 7-16):

A. ROOF ZONE (50 SQ FT)

a. 3 WITHIN 12'-0" x 6'-0" OF CORNERS:

b. 2 WITHIN 12'-0" x 6'-0" OF EDGES AND RIDGES:

c. 1 INTERNAL:

B. NOTE: ALL COMPONENT AND CLADDING PRESSURES ARE ULTIMATE PRESSURES. TO CONVERT TO ALLOWABLE STRESS DESIGN PRESSURES, MULTIPLY ULTIMATE PRESSURES BY 0.6.

7. SEISMIC LOADS:

II, STANDARD

144 PSF

120 PSF

1.0

1.0

1.2

1.0

IN ACCORDANCE WITH ASCE 7-16

40 PSF

SAME AS OCCUPANCY SERVED

20 PSF

15 PSF

115 MPH

89 MPH

II

±0.18

C

(ASCE 7-16):

+16.0 PSF, -44.8 PSF

+16.0 PSF, -27.4 PSF

+16.0 PSF, -24.5 PSF

EXEMPT PER IRC SECTION 1613.1, EXCEPTION #1
- FOUNDATION DESIGN:**

1. FOUNDATION DESIGN IS IN ACCORDANCE WITH RECOMMENDATIONS CONTAINED IN SOILS INVESTIGATION REPORT NUMBER 23-12920 PREPARED BY NORTHWEST COLORADO CONSULTANTS, INC. DATED JANUARY 20, 2023.

2. SOIL CONDITIONS SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FORMWORK OR CONCRETE. IF DIFFERENT SOIL CONDITIONS EXIST, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO RE-EVALUATE THE FOUNDATION DESIGN AT ADDITIONAL EXPENSE TO THE OWNER.

3. SLOPE FINAL GRADES DOWN AND AWAY FROM FOUNDATION WALLS A MINIMUM OF 6 INCHES IN FIRST 10 FEET PER IRC.

4. FOOTINGS:

A. FOOTINGS, SELECTED BY THE OWNER SHALL BEAR ON THE NATURAL, UNDISTURBED SOILS, OR APPROVED COMPACTED STRUCTURAL FILL.

B. EXTERIOR FOOTINGS SHALL BEAR BELOW FROST DEPTH

a. MINIMUM FROST DEPTH SHALL BE 4'-0" BELOW ADJACENT EXTERIOR FINISHED GRADE

C. DESIGN OF FOOTINGS IS BASED ON:

a. MAXIMUM ALLOWABLE BEARING PRESSURE: 3,000 PSF

b. MINIMUM DEAD LOAD PRESSURE: 800 PSF

5. EARTH RETAINING STRUCTURES:

A. EARTH EQUIVALENT FLUID LATERAL PRESSURE:

a. AT REST PRESSURE: 55 PCF

b. ACTIVE PRESSURE: 45 PCF

c. PASSIVE PRESSURE: 250 PCF

d. COEFFICIENT OF SLIDING FRICTION: 0.4
- REINFORCED CONCRETE:**

1. CONCRETE DESIGN IS BASED ON THE AMERICAN CONCRETE INSTITUTE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318) AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 'STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE' (ACI 301).

2. STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES (NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE):

A. CEMENT TYPE: I/II

B. MAXIMUM AGGREGATE SIZE: 3/4"

C. MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'<sub>c</sub>) AS FOLLOWS:

fc

w/cm (MAX)

ENTRAINED AIR %

SLUMP

a. FOOTINGS: 3,500 PSI 0.52 1.5% (± 1.5%) 5 INCHES (± 1")

b. COLUMNS: 4,000 PSI 0.45 3.0% (± 1.5%) 4 INCHES (± 1")

c. EXTERIOR SLABS-ON-GRADE: 3,500 PSI 0.45 6.0% (± 1.5%) 4 INCHES (± 1") (EXCLUDES FLATWORK)

3. REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'.

4. WHEN COLD WEATHER CONDITIONS EXIST, PLACE AND CURE CONCRETE IN ACCORDANCE WITH ACI 306.

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

6. DEFORMED REINFORCEMENT SHALL BE DOMESTIC NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60 INCLUDING STIRRUPS AND TIES, EXCEPT THAT REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706.

7. EPOXY COATED REINFORCING BARS SHALL CONFORM TO ASTM A775.

8. ZINC COATED (GALVANIZED) REINFORCING BARS SHALL CONFORM TO ASTM A767.

9. UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS, LAP BARS 50 x BAR DIAMETER MINIMUM.

10. REINFORCING AT ALL ABUTTING CONCRETE (INCLUDING FOOTINGS) SHALL BE CONTINUOUS THROUGH OR AROUND ALL CORNERS AND INTERSECTIONS, OR USE MATCHING CORNER BARS OF EQUAL SIZE AND SPACING TO REINFORCING IN THE ABUTTING MEMBERS.

11. INSTALL (2) #5 BARS MINIMUM AROUND ALL SIDES OF ALL OPENINGS IN CONCRETE AND EXTEND 3'-0" PAST EDGES OF OPENINGS, UNLESS OTHERWISE NOTED.

12. IN CONTINUOUS MEMBERS, SPLICE TOP BARS AT MID-SPAN BETWEEN SUPPORTS AND SPLICE BOTTOM BARS OVER SUPPORTS.

13. FORM INTERMITTENT SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND AS SHOWN ON THE STRUCTURAL DRAWINGS.

14. UNLESS OTHERWISE NOTED ON THE DRAWINGS, MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE AS FOLLOWS:

A. UNIFORMED SURFACE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

B. FORMED SURFACE EXPOSED TO EARTH OR WEATHER:

a. #6 THROUGH #18 BARS

b. #5 BAR, W31 OR D31 WIRE, AND SMALLER

C. FORMED SURFACE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

a. SLABS, WALLS, JOISTS: #11 BARS AND SMALLER

D. BEAMS AND COLUMNS:

a. PRIMARY REINFORCEMENT

b. STIRRUPS, TIES, SPIRALS

15. INSTALL CHAIRS, BOLSTERS, ADDITIONAL REINFORCEMENT, AND ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITION SHOWN ON DRAWINGS. SUPPORT OF REINFORCEMENT ON WOOD, BRICK, OR OTHER UNACCEPTABLE MATERIALS SHALL NOT BE PERMITTED.

16. KEEP REINFORCEMENT CLEAN AND FREE OF DIRT AND OIL. OIL FORMS PRIOR TO PLACING REINFORCEMENT.

17. FIBER ADMIXTURE SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS, TYPE III 4.1.3, PERFORMANCE LEVEL ONE, PER ASTM C1116.

18. PROPERLY PLACE, ACCURATELY POSITION AND MAINTAIN SECURELY IN PLACE ALL EMBEDDED ITEMS PRIOR TO AND DURING CONCRETE PLACEMENT.

19. ANCHOR BOLTS AND RODS FOR BEAM AND COLUMN-BEARING PLATES SHALL BE PLACED WITH SETTING TEMPLATES.

20. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL COLUMN, WALL, SLAB OR BEAM EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
- STRUCTURAL WOOD & TIMBER:**

1. DESIGN IS BASED ON ANSI/AF&PA NDS 'NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH SUPPLEMENT: DESIGN VALUES FOR WOOD CONSTRUCTION' AND ANSI/AF&PA SDPWS 'SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC'.

2. 2x FRAMING LUMBER SHALL BE S4S DOUGLAS FIR-LARCH AND BETTER UNLESS NOTED OTHERWISE.

3. ALL LUMBER SHALL BE 19% OR LESS MAXIMUM MOISTURE CONTENT, UNLESS NOTED OTHERWISE.

4. SOLID TIMBER BEAMS AND POSTS SHALL BE KILN DRIED DOUGLAS FIR-LARCH NO. 1, UNO.

5. 2x STUD BEARING WALLS SHALL BE 2x6 @ 16" (UNO) DOUGLAS FIR-LARCH STUD GRADE OR BETTER.

6. 2x TOP AND BOTTOM PLATES SHALL BE DOUGLAR FIR-LARCH NO. 2 OR BETTER.

7. USE OF WOOD BEARING WALLS SHOWN ON DRAWINGS WITH LATERALLY UNSUPPORTED HEIGHTS IN EXCESS OF THAT SHOWN IN IRC 2308.5.1 HAVE BEEN JUSTIFIED BY ANTHEM'S ANALYSIS.

8. FASTENERS FOR USE WITH TREATED WOOD SHALL COMPLY WITH IRC SECTION R317.3.

9. WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE-TREATED DOUGLAS FIR-LARCH OR SOUTHERN YELLOW PINE.

10. PRESERVATIVE TREATED WOOD SHALL BE TREATED IN ACCORDANCE WITH AWPA U1 AND AWPA M4.

11. CONVENTIONAL LIGHT FRAMING SHALL COMPLY WITH IRC SECTIONS R502, R502, AND R502.

12. MINIMUM NAILING SHALL BE PROVIDED AS SPECIFIED IN IRC TABLE R502.3(1) 'FASTENER SCHEDULE FOR STRUCTURAL MEMBERS'.

13. METAL FRAMING ANCHORS SHOWN OR REQUIRED, SHALL BE SIMPSON STRONG-TIE OR EQUAL CODE APPROVED CONNECTORS AND INSTALLED PER THE HANGER SCHEDULE. NOTE THAT HEAVY-DUTY HANGERS AND SKEWED HANGERS MAY NOT BE STOCKED LOCALLY AND REQUIRE SPECIAL ORDER FROM THE FACTORY.

14. GLUE WOOD NAILER PLATES TO STEEL BEAMS AND ATTACH WITH EITHER 1/2"x8 BOLTS @ 32" O.C., STAGGERED OR 0.145"x0 POWDER ACTUATED DRIVE PINS @ 16" O.C. STAGGERED. WIDTH OF NAILER PLATE SHALL MATCH BEAM WIDTH + 1/8" MIN (1/4" MAX) OVERHANG EACH SIDE.

15. LEAD HOLES FOR LAG SCREWS SHALL BE 40%-70% OF THE SHANK DIAMETER AT THE THREADED SECTION AND EQUAL TO THE SHANK DIAMETER AT THE UNTHREADED SECTION PER NDS SECTION 12.1.4.

16. CONNECTOR BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME B18.2.1 AND ASTM SAE J429 GRADE 1.

17. NAILS AND SPIKES SHALL CONFORM TO ASTM F1667.

18. WOOD SCREWS SHALL CONFORM TO ANSI/ASME B18.6.1.
- WOOD FRAMING NOTES:**

1. INSTALL SOLID BLOCKING BETWEEN JOISTS UNDER JAMB STUDS OF OPENINGS.

2. COLUMNS MUST HAVE A CONTINUOUS LOAD PATH TO FOUNDATION.

3. UNLESS NOTED OTHERWISE, INSTALL TWO LENGTHS OF SOLID BLOCKING x JOIST DEPTH x 12 INCHES LONG IN FLOOR FRAMING UNDER COLUMN LOADS.

4. BUILT-UP STUD COLUMNS SHALL CONSIST OF 2x4, 2x6, OR 2x8 STUDS WITH NUMBER OF LAMINATIONS NOTED ON PLAN AND EACH LAMINATION SHALL BE NAILED TOGETHER WITH (2) ROWS OF 12d GUN NAILS (0.131"x3 x 3 1/4") @ 6" FULL HEIGHT OF COLUMN. DO NOT SPLICE LAMINATIONS.

5. ALL BEAMS AND TRUSSES SHALL BE BRACED AGAINST ROTATION AT POINTS OF BEARING.

6. UNLESS NOTED OTHERWISE, LOWER CHORD OF GABLE END TRUSSES SHALL BE ANCHORED TO WALL PLATE WITH FRAMING ANCHORS AT 4'-0" SPACING AND Laterally BRACED TO ROOF FRAMING AT 8'-0" SPACING.

7. PROVIDE CONTINUOUS WALL STUDS EACH SIDE OF OPENINGS EQUAL TO ONE-HALF OR GREATER THE NUMBER OF STUDS INTERRUPTED BY OPENING UNLESS NOTED OTHERWISE.

8. ALL WALL STUDS SHALL BE CONTINUOUS FROM FLOOR TO FLOOR OR FROM FLOOR TO ROOF.

9. PROVIDE SOLID BLOCKING OR RIM JOISTS AT ALL JOIST SUPPORTS AND JOIST ENDS.

10. SOLE PLATE AT ALL PERIMETER WALLS AND AT DESIGNATED SHEAR WALLS SHALL BE NAILED WITH (4) 0.131"x3 x 3" NAILS AT 16" MINIMUM.

11. ALL ROOF RAFTERS, JOISTS, TRUSSES, BEAMS SHALL BE ANCHORED TO SUPPORTS WITH METAL FRAMING ANCHORS.
- STRUCTURAL GLUED LAMINATED TIMBER:**

1. MATERIALS, MANUFACTURE, AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH ANSI/AITC A190.1 'STRUCTURAL GLUED LAMINATED TIMBER' AND AITC 117 'STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES, DESIGN AND MANUFACTURING REQUIREMENTS'.

2. SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION SYMBOL 24F-V8 DF/DF WITH NO CAMBER.

3. CONTINUOUS AND CANTILEVERED MEMBERS SHALL BE DOUGLAS FIR COMBINATION SYMBOL 24F-V8 DF/DF WITH NO CAMBER.

4. COLUMNS SHALL BE COMBINATION #2 OR BETTER.

5. ALL GLUED LAMINATED TIMBER SHALL HAVE LESS THAN 16% MOISTURE CONTENT, UNLESS NOTED OTHERWISE.

6. MEMBERS SHALL BE ARCHITECTURAL APPEARANCE GRADE.

7. ADHESIVES SHALL MEET THE REQUIREMENTS FOR WET CONDITIONS OF SERVICE.

8. SEAL OUT EDGES AND ENDS EXPOSED TO WEATHERING.

9. THE FABRICATOR SHALL FURNISH ALL ITEMS OF CONNECTION STEEL AND HARDWARE FOR JOINING TIMBER MEMBERS TO EACH OTHER AND TO THEIR SUPPORTS, EXCLUSIVE OF ANCHORAGE EMBEDDED IN MASONRY, SETTING PLATES, AND ITEMS FIELD-WELDED TO STRUCTURAL STEEL.
- TONGUE AND GROOVE DECKING:**

1. TONGUE AND GROOVE DECKING SHALL BE DOUGLAS FIR-LARCH AND HAVE THE FOLLOWING MINIMUM ALLOWABLE DESIGN VALUES:

A. F<sub>b</sub> = 1,750 PSI F<sub>v</sub> = 165 PSI E = 1800 KSI

2. TONGUE AND GROOVE DECKING SHALL COMPLY WITH SECTION 2304.9 OF THE IRC INSTALLED IN A COMBINATION SIMPLE SPAN TWO SPAN CONTINUOUS LAYOUT PATTERN.
- LOOSE LINTELS:**

1. UNLESS NOTED OTHERWISE, PROVIDE LOOSE LINTELS AS FOLLOWS: (ONE ANGLE FOR EACH 4' OF WALL THICKNESS TO BEAR 4' MINIMUM EACH END)

2. OPENING ANGLE

A. 0'-8" TO 4'-0" L3 1/2X3 1/2X1/4

B. 4'-1" TO 5'-4" L5X3 1/2X1/4 (LLV)

C. 5'-5" TO 10'-0" L5X3 1/2X5/16 (LLV)
- CONSTRUCTION ADMINISTRATION:**

1. SHOP DRAWINGS:

A. THE STRUCTURAL DRAWINGS ARE COPYRIGHTED AND SHALL NOT BE COPIED FOR USE AS ERECTION PLANS OR SHOP DETAILS. USE OF ANTHEM'S ELECTRONIC FILES AS THE BASIS FOR SHOP DRAWINGS REQUIRES PRIOR APPROVAL BY ANTHEM. A SIGNED RELEASE OF LIABILITY BY THE GENERAL CONTRACTOR AND/OR HIS SUBCONTRACTORS, AND DELETION OF ANTHEM'S NAME AND LOGO FROM ALL SHEETS SO USED.

B. THE GENERAL CONTRACTOR SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE STRUCTURAL DRAWINGS OR PROJECT SPECIFICATIONS.

C. ALL SHOP AND ERECTION DRAWINGS SHALL BE CHECKED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION FOR STRUCTURAL ENGINEER REVIEW. SHOP DRAWING SUBMITTALS NOT CHECKED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER WILL BE RETURNED WITHOUT REVIEW.

D. FURNISH TWO (2) PRINTS OF SHOP AND ERECTION DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR:

a. REINFORCING STEEL.

b. STRUCTURAL STEEL.

c. PLANT FABRICATED WOOD JOISTS.

d. GLUED-LAMINATED TIMBER.

E. SUBMIT IN A TIMELY MANNER TO PERMIT 10 WORKING DAYS FOR REVIEW BY THE STRUCTURAL ENGINEER.

F. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE 'REQUEST FOR CHANGE IN WRITING' UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED. IN ANY EVENT, CHANGES MADE BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE ONE INITIATING THE CHANGE.

2. REQUESTS FOR INFORMATION (RFI):

A. SUBMIT IN A TIMELY MANNER TO PERMIT 5 WORKING DAYS FOR REVIEW BY THE STRUCTURAL ENGINEER.

3. FIELD OBSERVATIONS:

A. CONTRACTOR SHALL PROVIDE 5 WORKING DAYS ADVANCE NOTICE FOR ALL FIELD OBSERVATIONS.
- FIELD VERIFICATION OF EXISTING CONDITIONS:**

1. THE GENERAL CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY THE EXISTING STRUCTURE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS.

2. THE GENERAL CONTRACTOR SHALL REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING.
- STRUCTURAL ERECTION AND BRACING REQUIREMENTS:**

1. THE STRUCTURAL DRAWINGS ILLUSTRATE AND DESCRIBE THE COMPLETED STRUCTURE WITH ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED, CONNECTED, AND/OR BRACED.

2. THE STRUCTURAL DRAWINGS ILLUSTRATE TYPICAL AND REPRESENTATIVE DETAILS TO ASSIST THE GENERAL CONTRACTOR. DETAILS SHOWN APPLY AT ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED. ALTHOUGH DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT EVERY DETAIL IS ILLUSTRATED AND NOT EVERY EXCEPTIONAL CONDITION IS ADDRESSED.

3. ALL PROPRIETARY CONNECTIONS AND ELEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

4. ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE CODES AND LOCAL ORDINANCES.

5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK, INCLUDING LAYOUT AND DIMENSION VERIFICATION, MATERIALS COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF SUBCONTRACTORS. ANY DISCREPANCIES OR OMISSIONS DISCOVERED IN THE COURSE OF THE WORK SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR RESOLUTION. CONTINUATION OF WORK WITHOUT NOTIFICATION OF DISCREPANCIES RELIEVES THE ARCHITECT AND STRUCTURAL ENGINEER FROM ALL CONSEQUENCES.

6. UNLESS OTHERWISE SPECIFICALLY INDICATED, THE STRUCTURAL DRAWINGS DO NOT DESCRIBE METHODS OF CONSTRUCTION.

7. THE GENERAL CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK NECESSARY TO ACHIEVE THE FINAL COMPLETED STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN, AND OTHERS DURING CONSTRUCTION. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING FOR CRANES AND OTHER ERECTION EQUIPMENT.

8. DO NOT BACKFILL AGAINST BASEMENT OR RETAINING WALLS UNTIL SUPPORTING SLABS AND FLOOR FRAMING ARE IN PLACE AND SECURELY ANCHORED, UNLESS ADEQUATE TEMPORARY BRACING IS INSTALLED.

9. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL FLOORS, WALLS, ROOFS AND ANY OTHER SUPPORTING ELEMENTS ARE IN PLACE.

10. THE ARCHITECT AND STRUCTURAL ENGINEER BEAR NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INFLUENCE INSPECTIONS OF THESE ITEMS.

11. THESE PLANS HAVE BEEN ENGINEERED FOR CONSTRUCTION AT ONE SPECIFIC BUILDING SITE. BUILDER ASSUMES ALL RESPONSIBILITY FOR USE OF THESE PLANS AT ANY OTHER BUILDING SITE. PLANS SHALL NOT BE USED FOR CONSTRUCTION AT ANY OTHER BUILDING SITE WITHOUT SPECIFIC REVIEW BY THE ENGINEER.
- PRECAUTIONARY NOTES ON STRUCTURAL BEHAVIOR:**

1. INTERIOR ARCHITECTURAL FINISH DETAILING MUST ACCOMMODATE THE RELATIVE DIFFERENTIAL MOVEMENTS OF SUPPORTING STRUCTURAL ELEMENTS.

2. WHERE THE ROOF FRAMING ELEMENT SPANS ARE LONG, APPLIED LOADING WILL NATURALLY CAUSE SUBSTANTIAL DEFLECTION. INTERIOR ELEMENTS HUNG FROM THE ROOF STRUCTURE WILL DEFLECT WITH THE ROOF.

3. THE FLOOR IS A FLOATING CONCRETE SLAB-ON-GRADE AND MAY EXPERIENCE MOVEMENTS INDEPENDENT OF THE STRUCTURAL FOUNDATIONS. INTERIOR ELEMENTS SUPPORTED ON THE SLAB-ON-GRADE FLOOR WILL MOVE WITH THE FLOOR. INTERIOR ELEMENTS SUPPORTED ON FOUNDATIONS AND COLUMNS WILL NOT EXPERIENCE SIMILAR OR MEASURABLE MOVEMENTS.

4. EXTERIOR/PERIMETER WALL ASSEMBLIES HUNG FROM THE EDGE OF THE BUILDING STRUCTURE WILL BE DIRECTLY AFFECTED (TO SOME DEGREE) BY CHANGES IN EXTERNAL TEMPERATURE AND FLOOR DEFLECTION.

5. EXTERIOR/PERIMETER AND INTERIOR ARCHITECTURAL FINISH DETAILS SHOULD ALLOW FOR RELATIVE MOVEMENTS BETWEEN ELEMENTS WITH DIFFERENT SUPPORT CONDITIONS.

6. THE FOUNDATION DESIGN SHOWN ASSUMES THAT THE OWNER/BUILDER IS AWARE OF THE PRESENCE OF EXPANSIVE SOILS, AND THAT HE HAS READ THE PREVIOUSLY REFERENCED SOILS REPORT. USE OF THESE PLANS IS INDICATION THAT THE OWNER/BUILDER ACCEPTS THE RISKS ASSOCIATED WITH BUILDING ON THIS SITE, ESPECIALLY THOSE RELATED TO SLAB ON GRADE CONSTRUCTION IN FINISHED AREAS. ANTHEM, LLC WILL NOT BE HELD LIABLE FOR DAMAGES CAUSED BY SLAB MOVEMENT.
- LETTERS OF CONSTRUCTION COMPLIANCE:**

1. THE GENERAL CONTRACTOR SHALL DETERMINE FROM THE LOCAL BUILDING AUTHORITY, AT THE TIME THE BUILDING PERMIT IS OBTAINED, WHETHER ANY LETTERS OF CONSTRUCTION COMPLIANCE WILL BE REQUESTED FROM THE STRUCTURAL ENGINEER.

2. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ALL SUCH REQUIREMENTS IN WRITING PRIOR TO THE START OF CONSTRUCTION.

3. TWO DAY ADVANCE NOTICE SHALL BE GIVEN WHEN REQUESTING SITE VISITS NECESSARY AS THE BASIS FOR THE COMPLIANCE LETTER.

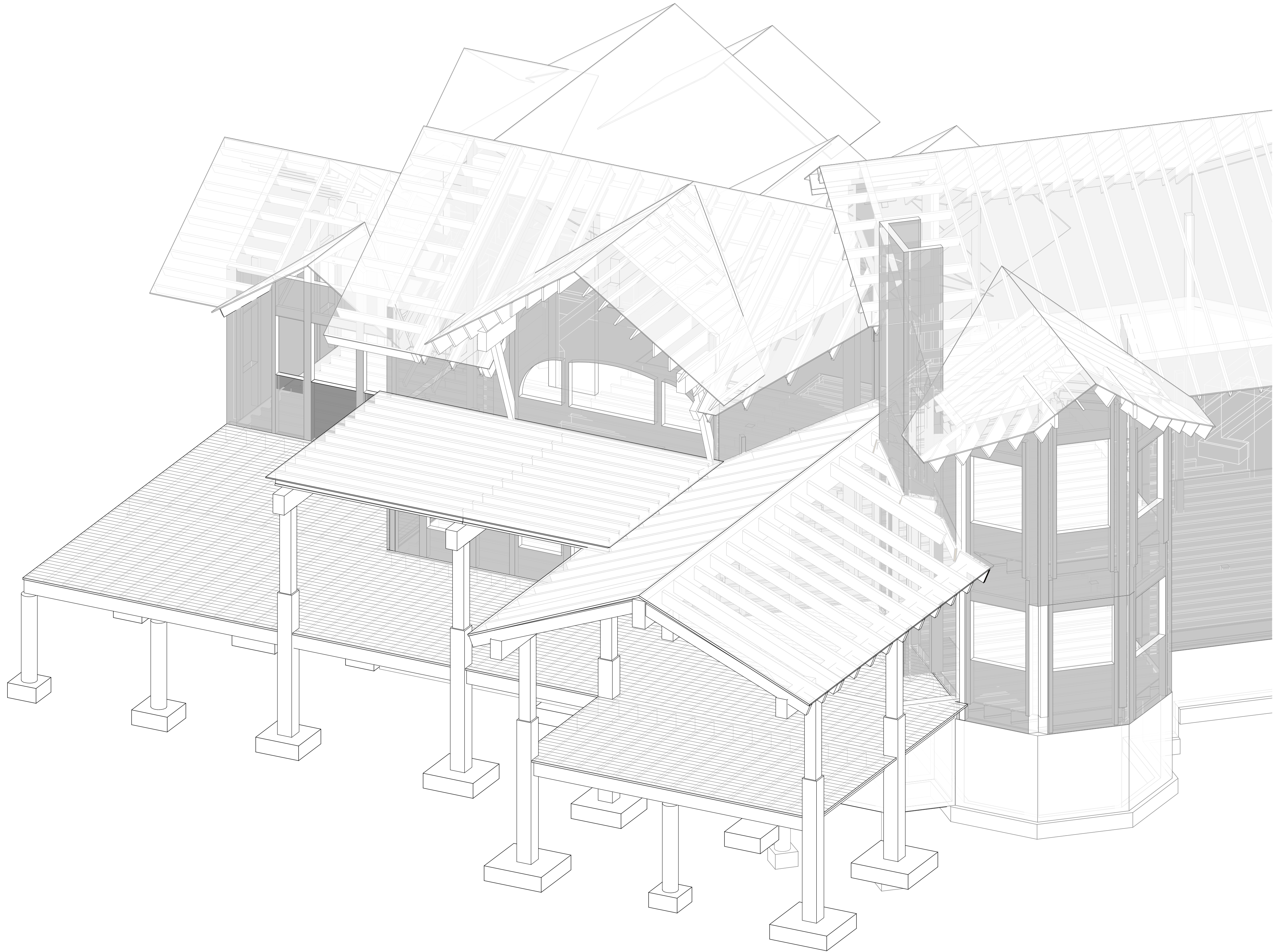
4. THE GENERAL CONTRACTOR SHALL PROVIDE COPIES OF ALL THIRD-PARTY TESTING AND INSPECTION REPORTS TO THE ARCHITECT AND STRUCTURAL ENGINEER A MINIMUM OF ONE WEEK PRIOR TO THE DATE THAT THE COMPLIANCE LETTER IS NEEDED.
- INSPECTIONS:**

1. INSPECTIONS AND TESTING SHALL BE PERFORMED BY A QUALIFIED INSPECTOR IN ACCORDANCE WITH IRC SECTION R109.

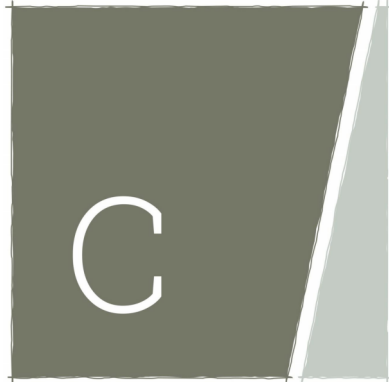
2. THE INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING INSPECTION.

3. EXCEPT AS NOTED, THE INSPECTIONS OUTLINED IN THE IRC ARE IN ADDITION TO, AND BEYOND THE SCOPE OF, PERIODIC STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS ARE INCLUDED IN THE STRUCTURAL ENGINEERING DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES PROVIDED BY THE STRUCTURAL ENGINEER.
- | SHEET LIST   |                                      |
|--------------|--------------------------------------|
| SHEET NUMBER | SHEET NAME                           |
| S0.1         | STRUCTURAL COVER SHEET               |
| S0.2         | 3D VIEWS                             |
| S1.0         | FOUNDATION PLAN                      |
| S1.1         | LEVEL 1 FRAMING PLAN                 |
| S1.2         | ROOF FRAMING PLAN                    |
| S2.0         | STRUCTURAL/TRUSS ELEVATION & DETAILS |
| S3.0         | STRUCTURAL DETAILS                   |
| S6.0         | SCHEDULES                            |
| SSK1         | HSS STUB COLUMN                      |
- | LEGEND |  |  |   |
|--------|--|--|---|
|        | "X" KING STUDS, "Y" TRIMMER STUDS, STUDS TO MATCH WALL THICKNESS (E.G. "2K, 1T" = 2 KING STUDS + 1 TRIMMER STUD)                           |  | CMU   |
|        | INDICATES COLUMN CONTINUOUS THROUGH LEVEL SHOWN  |  | CONCRETE  |
|        | BOT OF COL AT LVL SHOWN, SEE FRAMING LEVEL ABOVE FOR SIZE; INSTALL SQUASH BLKG IN FLOOR CAVITIES BETWEEN COLUMNS, WIDTH TO MATCH COL ABOVE |  | EARTH FILL  |
|        | INDICATES SIZE OF COLUMN BELOW   |  | POROUS FILL (I.E. GRAVEL)   |
|        | INDICATES TOP OF COLUMN AND TYPE BELOW FRAMING LEVEL. STUB INDICATES SHORTER COLUMN THAT EXTENDS VERTICALLY BETWEEN BEAMS                  |  | INDICATES TOP OF CONCRETE SLAB OR WOOD SUBFLOOR ELEVATION         |
|        | INDICATES BASEPLATE  |  | INTERIOR WOOD BEARING WALL  |
|        | INDICATES STEP IN FLOOR ELEVATION  |  | WOOD SHEAR WALL   |
|        | INDICATES DIRECTION OF SLOPE   |  | STRUCTURAL WALL ABOVE FRAMING                                     |
|        | INDICATES FLOOR DRAIN  |  | INDICATES WOOD STUD WALL TYPE, SEE SCHEDULE                       |
|        | INDICATES TOP OF FOOTING OR PIER ELEVATION. INDICATES MINIMUM PIER PENETRATION INTO BEDROCK  |  | INDICATES BUILDING WALL TYPE, SEE SCHEDULE                        |
|        | CONTINUOUS SPREAD FOOTING. SEE SCHEDULE FOR SIZE AND REINFORCING   |  | INDICATES SHEAR WALL, SEE SCHEDULE FOR SHEATHING TYPE AND NAILING |
|        | ISOLATED PAD FOOTING. SEE SCHEDULE FOR SIZE AND REINFORCING  |  | INDICATES HOLDOWN, SEE SCHEDULE FOR DESCRIPTION                   |
|        | INDICATES TOP OF CONCRETE ELEVATION. INDICATES BOTTOM OF CONCRETE ELEVATION  |  | JOIST, OR TRUSS BEARS ON WALL OR BEAM BELOW                       |
|        | INDICATES STEP IN BOTTOM OF CONCRETE WALL ELEVATION (E.G. LOCATION WHERE TOP OF FOOTING STEPS)   |  | BEAM, JOIST, OR TRUSS CONNECTED TO SUPPORT WITH METAL HANGER      |
|        | INDICATES TOP OF CONCRETE LEDGE ELEVATION  |  | BEAM, JOIST, OR TRUSS CONNECTED TO SUPPORT WITH CONCEALED HANGER  |
|        | INDICATES BEAM POCKET IN CONCRETE WALL (X = POCKET WIDTH PERPENDICULAR TO BEAM, Y = POCKET DEPTH PARALLEL TO BEAM)                         |  | INDICATES STEEL DECK OR CONCRETE SLAB SPAN DIRECTION              |
|        | INDICATES STEP IN TOP OF CONCRETE WALL OR LEDGE ELEVATION. ARROW POINTS TOWARD LOWER ELEVATION   |  | INDICATES TOP OF STEEL BEAM ELEVATION                             |
|        | INDICATES 'EXISTING'   |  | INDICATES LOCATION OF BEND IN BENT BEAM                           |
|        | INDICATES 'NEW'  |  | INDICATES MOMENT CONNECTION                                       |
|        | INDICATES 'TO BE REMOVED'  |  | INDICATES 'TO BE REMOVED'   |
- | ABBREVIATIONS KEY |                                   |
|-------------------|-----------------------------------|
| AB                | ANCHOR BOLT                       |
| ADDL              | ADDITIONAL                        |
| AFF               | ABOVE FINISH FLOOR                |
| AFG               | ABOVE FINISH GRADE                |
| AJH               | AUTHORITY HAVING JURISDICTION     |
| ALT               | ALTERNATE                         |
| ARCH              | ARCHITECT                         |
| AVG               | AVERAGE                           |
| BC                | BOTTOM OF CONCRETE                |
| BLKG              | BLOCKING                          |
| BM                | BEAM                              |
| BOT               | BOTTOM                            |
| BP                | BASE PLATE, BEAM POCKET           |
| BG                | BEARING                           |
| BS                | BOTH SIDES                        |
| BTWN              | BETWEEN                           |
| CANT              | CANTILEVER                        |
| GFS               | COLD FORM STEEL                   |
| GIP               | CAST IN PLACE                     |
| GJ                | CONTROL JOINT, CONSTRUCTION JOINT |
| GJP               | COMPLETE JOINT PENETRATION        |
| GL                | CENTER LINE                       |
| CLR               | CLEARANCE                         |
| CLT               | CROSS LAMINATED TIMBER            |
| CMU               | CONCRETE MASONRY UNIT             |
| COL               | COLUMN                            |
| CON               | CONCRETE                          |
| CONN              | CONNECTION                        |
| CONST             | CONSTRUCTION                      |
| CONT              | CONTINUOUS, CONTINUE              |
| D                 | DEPTH                             |
| DEMO              | DEMOLITION                        |
| DIA               | DIAMETER                          |
| DIM               | DIMENSION                         |
| DTL               | DETAIL                            |
| DWG               | DRAWING                           |
| DWL               | DOWEL                             |
| (E)               | EXISTING                          |
| EA                | EACH                              |
| EF                | EACH FACE                         |
| EJ                | EXPANSION JOINT                   |
| ELEV              | ELEVATION                         |
| EO                | EDGE OF                           |
| EOD               | EDGE OF DECK                      |
| EOR               | ENGINEER OF RECORD                |
| EOS               | EDGE OF SLAB                      |
| EQ                | EQUAL                             |
| EW                | EACH WAY                          |
| EXP               | EXPANSION                         |
| EXT               | EXTERIOR                          |
| FDN               | FOUNDATION                        |
| FLR               | FLOOR                             |
| FO                | FACE OF                           |
| FS                | FAIR SIDE                         |
| FTG               | FOOTING                           |
| GA                | GAUGE                             |
| GB                | GRADE BEAM                        |
| GC                | GENERAL CONTRACTOR, CONSTRUCTION  |
| GEN               | GENERAL                           |
| GL                | GLUE LAMINATED, GLU-LAM           |
| GW                | GRADE WALL                        |
| GYP               | GYPSUM                            |
| H                 | HEIGHT                            |
| HAS               | HEADED ANCHOR STUD                |
| HD                | HOLDDOWN                          |
| HDG               | HOT DIP GALVANIZED                |
| HDR               | HEADER                            |
| HGR               | HANGER                            |
| HK                | HOOK                              |
| HORIZ             | HORIZONTAL                        |
| IF                | INSIDE FACE                       |
| INT               | INTERIOR                          |
| INV               | INVERTED                          |
| JNT               | JOINT                             |
| JST               | JOIST                             |
| K                 | KIP (1000 POUNDS)                 |
| KLF               | 1000 POUNDS PER LINEAL FOOT       |
| L                 | LENGTH                            |
| LAT               | LATERAL                           |
| Ld                | REBAR DEVELOPMENT LENGTH          |
| LLH               | LONG LEG HORIZONTAL               |
| LLV               | LONG LEG VERTICAL                 |
| LONG              | LONGITUDINAL                      |
| Ls                | REBAR SPLICE LENGTH               |
| LSL               | LAMINATED STRAND LUMBER           |
| LSV               | LONG SIDE VERTICAL                |
| LVL               | LAMINATED VENEER LUMBER           |
| LW                | LIGHT WEIGHT                      |
| MAS               | MASONRY                           |
| MATL              | MATERIAL                          |
| MAX               | MAXIMUM                           |
| MECH              | MECHANICAL                        |
| MIN               | MINIMUM, MINUTE                   |
| MISC              | MISCELLANEOUS                     |
| MNFR              | MANUFACTURER                      |
| MTL               | METAL                             |
| (N)               | NEW CONSTRUCTION                  |
| No.               | NUMBER                            |
| NOM               | NOMINAL                           |
| NS                | NEAR SIDE                         |
| NTS               | NOT TO SCALE                      |
| NW                | NORMAL WEIGHT                     |
| OC                | ON CENTER                         |
| OF                | OUTSIDE FACE                      |
| OH                | OVERHEAD                          |
| OPNG              | OPENING                           |
| OPP               | OPPOSITE HAND                     |
| OSB               | ORIENTED STRAND BOARD             |
| OWSJ              | OPEN WEB STEEL JOIST              |
| PAF               | POWDER ACTUATED FASTENER          |
| PC                | PRECAST                           |
| PE                | PRE-ENGINEERED                    |
| PEMB              | PRE-ENGINEERED METAL BUILDING     |
| PERP              | PERPENDICULAR                     |
| PJP               | PARTIAL JOINT PENETRATION         |
| PL                | PLATE                             |
| PLF               | POUNDS PER LINEAL FOOT            |
| PLY               | PLYWOOD                           |
| PSL               | PARALLEL STRAND LUMBER            |
| PT                | PRESSURE TREATED, POST-TENSIONING |
| QTY               | QUANTITY                          |
| RE                | REFERENCE, REFER TO               |
| REINF             | REINFORCE(MENT), REINFORCING      |
| REQ               | REQUIRED                          |
| RET               | RETAINING WALL                    |
| RO                | ROUGH OPENING                     |
| SC                | SLIP CRITICAL                     |
| SCHED             | SCHEDULE                          |
| SCL               | STRUCTURAL COMPOSITE LUMBER       |
| SDST              | SELF-DRILLING / SELF-TAPPING      |
| SHTG              | SHEATHING                         |
| SIM               | SIMILAR                           |
| SIP               | STRUCTURAL INSULATED PANEL        |
| SOG               | SLAB ON GRADE                     |
| SP                | SPACING, SPACE                    |
| SPEC              | SPECIFICATION                     |
| SS                | STAINLESS STEEL                   |
| STD               | STANDARD                          |
| STIFF             | STIFFENER                         |
| STL               | STEEL                             |
| SUBFLR            | SUBFLOOR                          |
| SW                | SHEAR WALL, SELF-WEIGHT           |
| t                 | THICKNESS                         |
| T&B               | TOP AND BOTTOM                    |
| T&G               | TONGUE AND GROOVE                 |
| T.O.              | TOP OF                            |
| T/                | TOP OF                            |
|                   |                                   |





3D PLOT VIEW  
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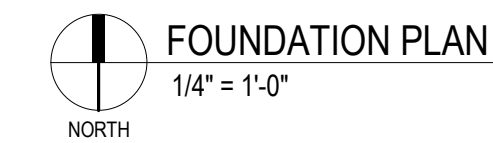
**WOODROW RESIDENCE**  
  
31555 GREEN RIDGE DRIVE

3D VIEWS

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**S0.2**





**31555 GREEN RIDGE DRIVE**

**\$1.0**

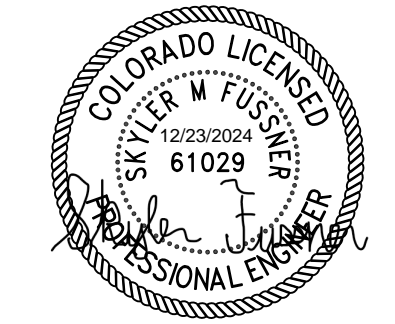


LEVEL 1 FRAMING PLAN NOTES

- SEE S0.1 & S0.2 FOR GENERAL STRUCTURAL NOTES, LEGEND, ABBREVIATIONS KEY, SPECIAL INSPECTIONS, AND 3D VIEWS.
- SEE S3.0 FOR DETAILS.
- SEE S6.0 FOR SCHEDULES.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- VIF (E) CONDITIONS PRIOR TO NEW CONSTRUCTION AND NOTIFY ANTHEM OF ANY DISCREPANCIES.
- WALL FRAMING AND COLUMNS SHOWN SUPPORT THE FRAMING ON THIS LEVEL.
- TYPICAL DECK CONSTRUCTION (UNO):** EXTERIOR DECKING PER ARCH OVER WOOD JOISTS PER PLAN. LAY DECKING PERPENDICULAR TO FRAMING AND FASTEN DECKING TO JOIST W/ (2) #8x3" EXTERIOR DECK SCREWS PER BOARD. FLASH TOP OF MULTI-PLY JOISTS / BEAMS.



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WOODROW RESIDENCE  
31555 GREEN RIDGE DRIVE

KEYNOTE SCHEDULE — LEVEL 1

X	DESCRIPTION
1	PT (2)2x12 LEDGER. ATTACH TO (E) CONC WALL W/ (2) 5/8"Ø x 6" MIN EMBED TITEN HD @ 24"
2	ATTACH TIMBER BEAM TO SONOTUBE WITH SIMPSON ABU TYPE POST BASE & 5/8"Øx6" TITEN HD SCREW ANCHOR(S).

HANGER SCHEDULE

1. ALL HANGERS NOTED TO BE INSTALLED WITH NUMBER AND SIZE FASTENERS SPECIFIED BY MNFR. ANY SUBSTITUTIONS SHALL BE REVIEWED AND APPROVED BY ANTHEM

2. INSTALL HANGERS NOTED OR APPROVED EQUIVALENT

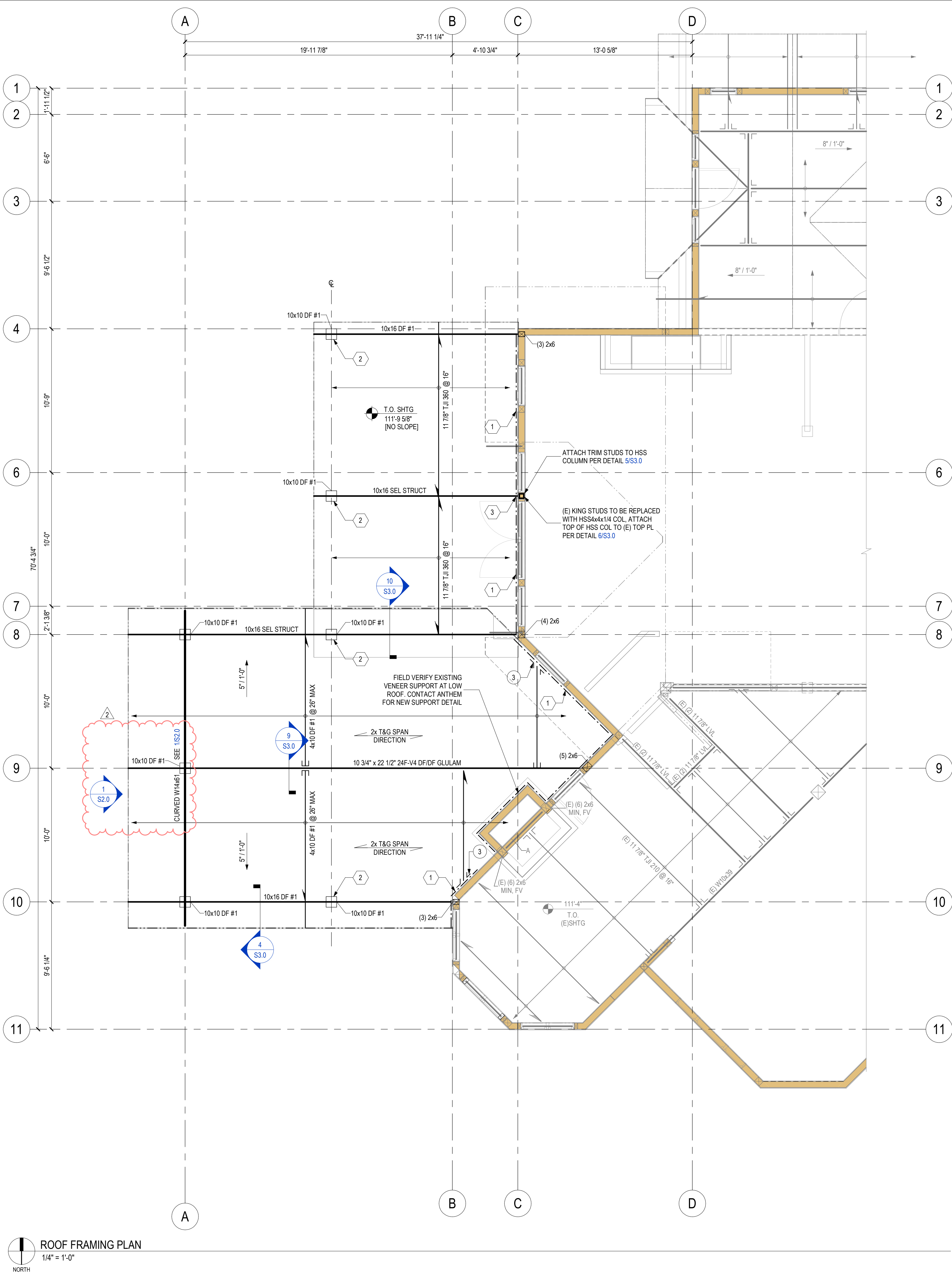
X	DESCRIPTION	HEADER FASTENERS	JOIST FASTENERS
1	(2)2x12: HU212-2 / HUC212-2 4x12: HU412 / HUC412	(16) 0.162" Ø x 2 1/2"	(6) 0.148" Ø x 3"
2	2x12: LUS210 4x12: HU412 / HUC412	(8) 0.148" Ø x 3" (16) 0.162" Ø x 2 1/2"	(4) 0.148" Ø x 3" (6) 0.148" Ø x 3"
3	LSSR4102	(20) 0.162" Ø x 2 1/2"	(13) 0.162" Ø x 2 1/2"

LEVEL 1 FRAMING PLAN

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S1.1





ROOF FRAMING PLAN NOTES

- SEE S0.1 & S0.2 FOR GENERAL STRUCTURAL NOTES, LEGEND, ABBREVIATIONS KEY, SPECIAL INSPECTIONS, AND 3D VIEWS.
- SEE S3.0 FOR DETAILS.
- SEE S6.0 FOR SCHEDULES.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- VIF (E) CONDITIONS PRIOR TO NEW CONSTRUCTION AND NOTIFY ANTHEM OF ANY DISCREPANCIES.
- TOP OF COLUMN HEIGHT = PER ARCH
- WALL FRAMING AND COLUMNS SHOWN SUPPORT THE FRAMING ON THIS LEVEL.
- TYPICAL ROOF CONSTRUCTION (UNO):** 5/8" NOMINAL APA 40/20 RATED SHEATHING OVER RAFTERS, SEE PLAN. FASTEN SHEATHING TO RAFTERS, RIMS, LEDGERS, AND NAILERS WITH 0.113" x 2 3/8" NAILS @ 4" OC ALONG PANEL EDGES, AND @ 8" OC ALONG INTERMEDIATE FRAMING MEMBERS. LAY PANELS PERPENDICULAR TO FRAMING MEMBERS AND STAGGER PANEL JOINTS.
- TONGUE & GROOVE ROOF CONSTRUCTION:** 5/8" NOMINAL APA 40/20 RATED SHEATHING OVER 1 1/2"x5 1/2" DFL TONGUE & GROOVE DECKING - FASTEN SHEATHING THROUGH T&G WITH 0.113"x2 3/8" NAILS @ 4" OC ALONG PANEL EDGES, AND @ 8" OC ALONG INTERMEDIATE FRAMING MEMBERS AND STAGGER PANEL JOINTS. FASTEN EACH T&G MEMBER TO EACH SUPPORT MEMBER W/ (2)10d NAILS OR 1/4"x3" WOOD SCREWS.



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WOODROW RESIDENCE  
31555 GREEN RIDGE DRIVE

KEYNOTE SCHEDULE — ROOF

X	DESCRIPTION
1	11 7/8" LVL LEDGER, ATTACH TO EXT WALL W/ (3) 1/4"Ø x 4 1/2" SDS SCREWS INTO EA STUD (16" MAX SPACING)
2	ATTACH TIMBER BEAM TO TIMBER COL PER DETAIL 3/S3.0
3	ATTACH NEW BEAM TO HSS COLUMN PER DETAIL 7/S3.0

HANGER SCHEDULE

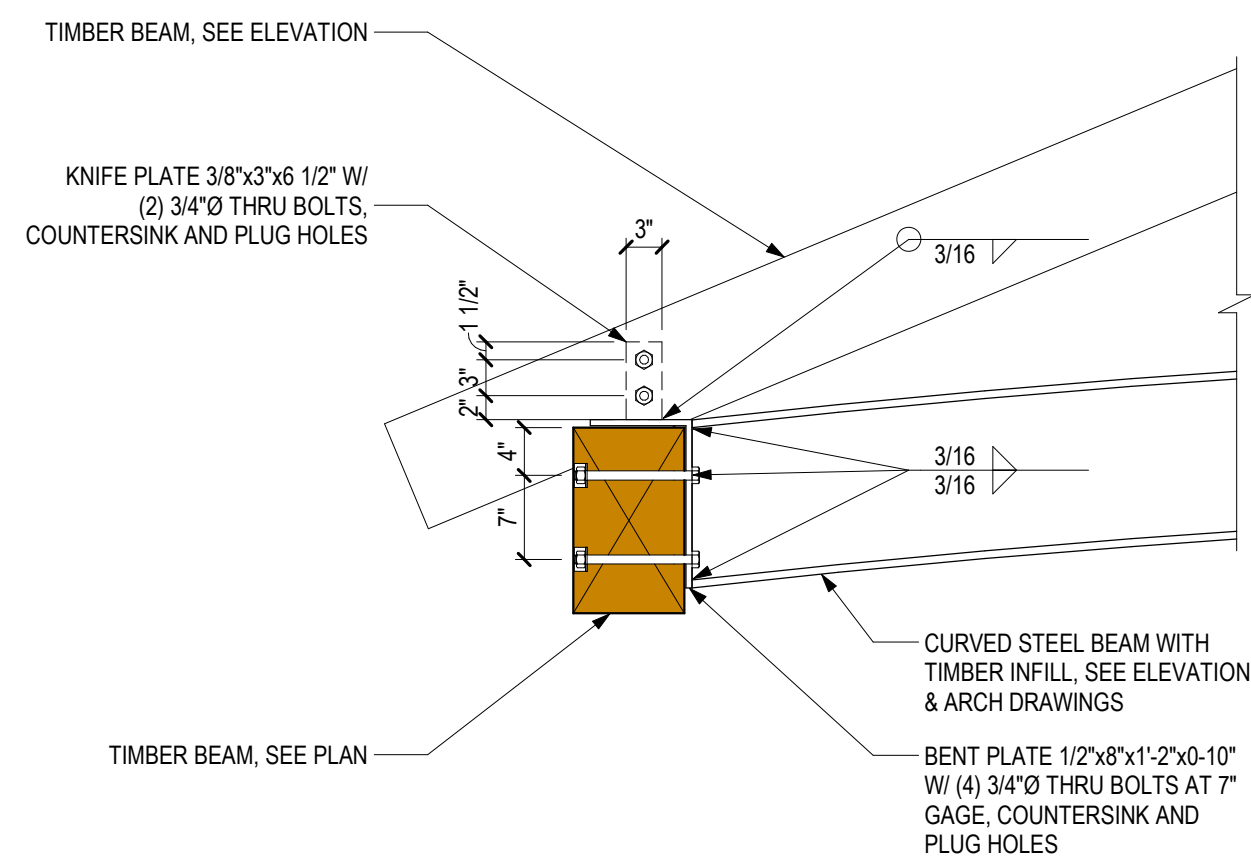
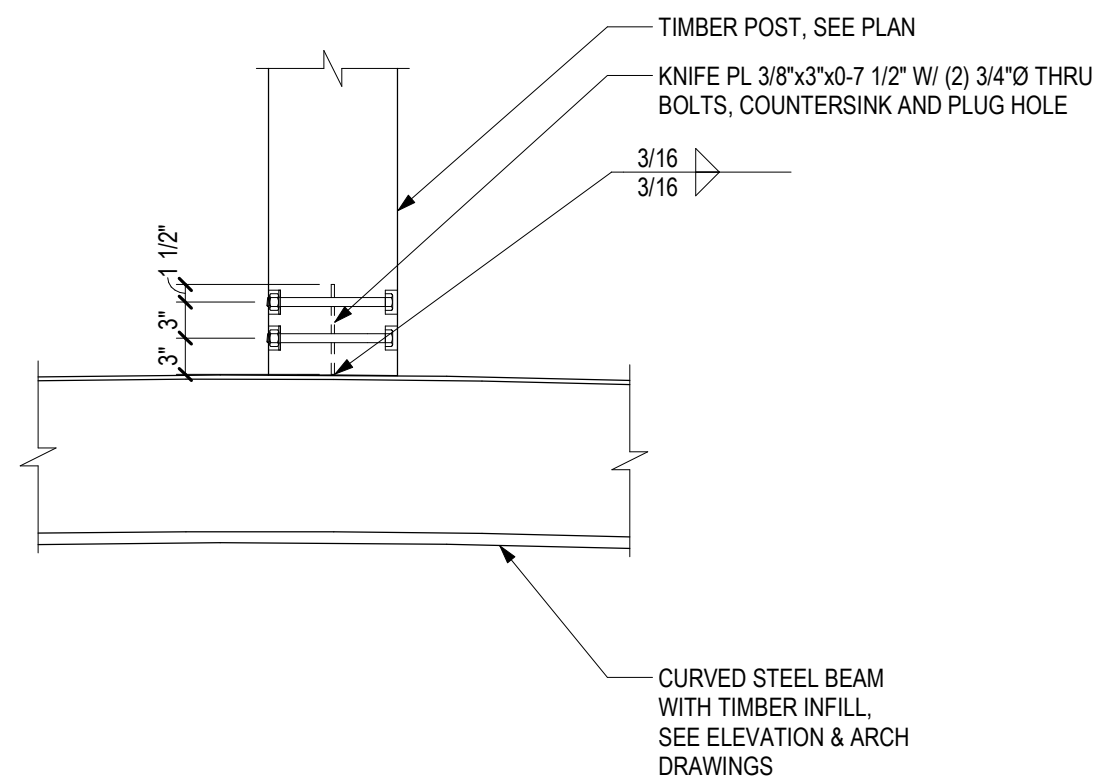
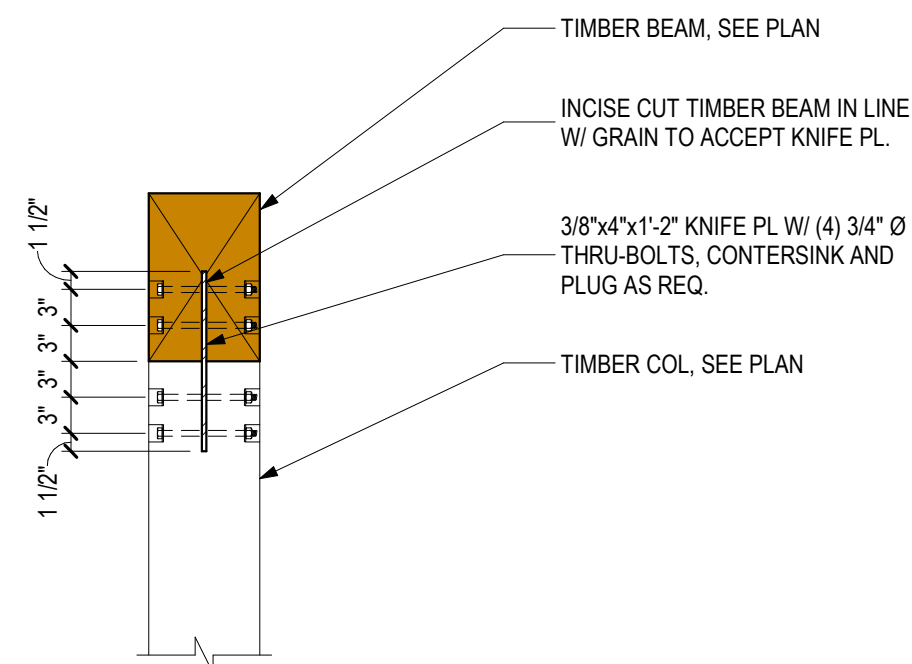
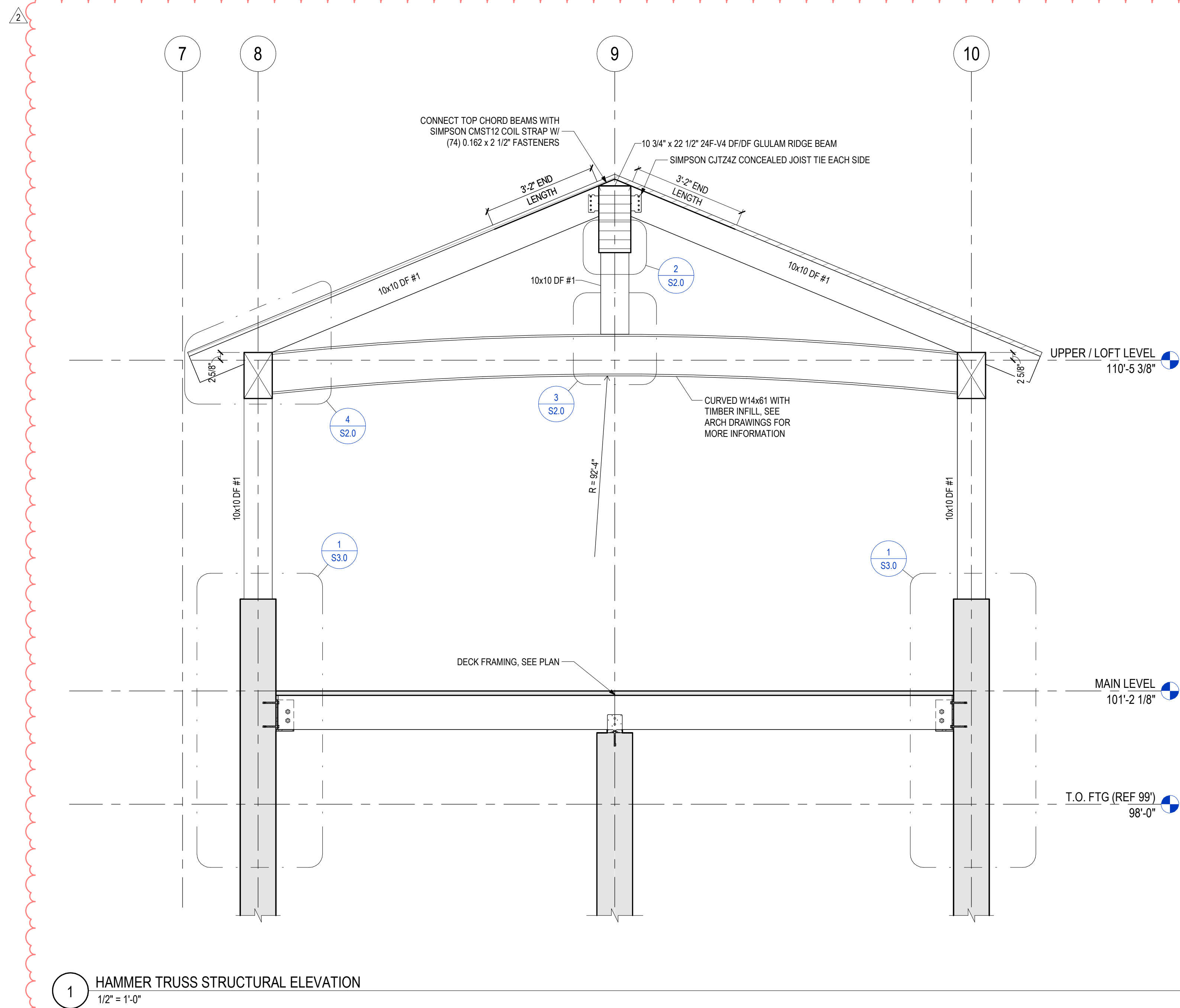
- ALL HANGERS NOTED TO BE INSTALLED WITH NUMBER AND SIZE FASTENERS SPECIFIED BY MNFR. ANY SUBSTITUTIONS SHALL BE REVIEWED AND APPROVED BY ANTHEM
- INSTALL HANGERS NOTED OR APPROVED EQUIVALENT

X	DESCRIPTION	HEADER FASTENERS	JOIST FASTENERS
1	(2)2x12: HU212-2 / HUC212-2 4x12: HU412 / HUC412	(16) 0.162" Ø x 2 1/2"	(6) 0.148" Ø x 3"
2	2x12: LUS210 4x12: HU412 / HUC412	(8) 0.148" Ø x 3" (16) 0.162" Ø x 2 1/2"	(4) 0.148" Ø x 3" (6) 0.148" Ø x 3"
3	LSSR410Z	(20) 0.162" Ø x 2 1/2"	(13) 0.162" Ø x 2 1/2"

ROOF FRAMING PLAN

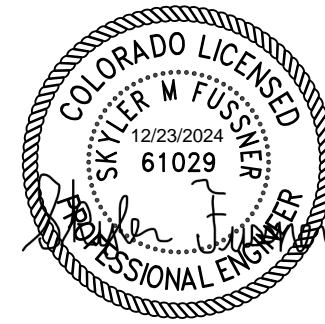
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S1.2



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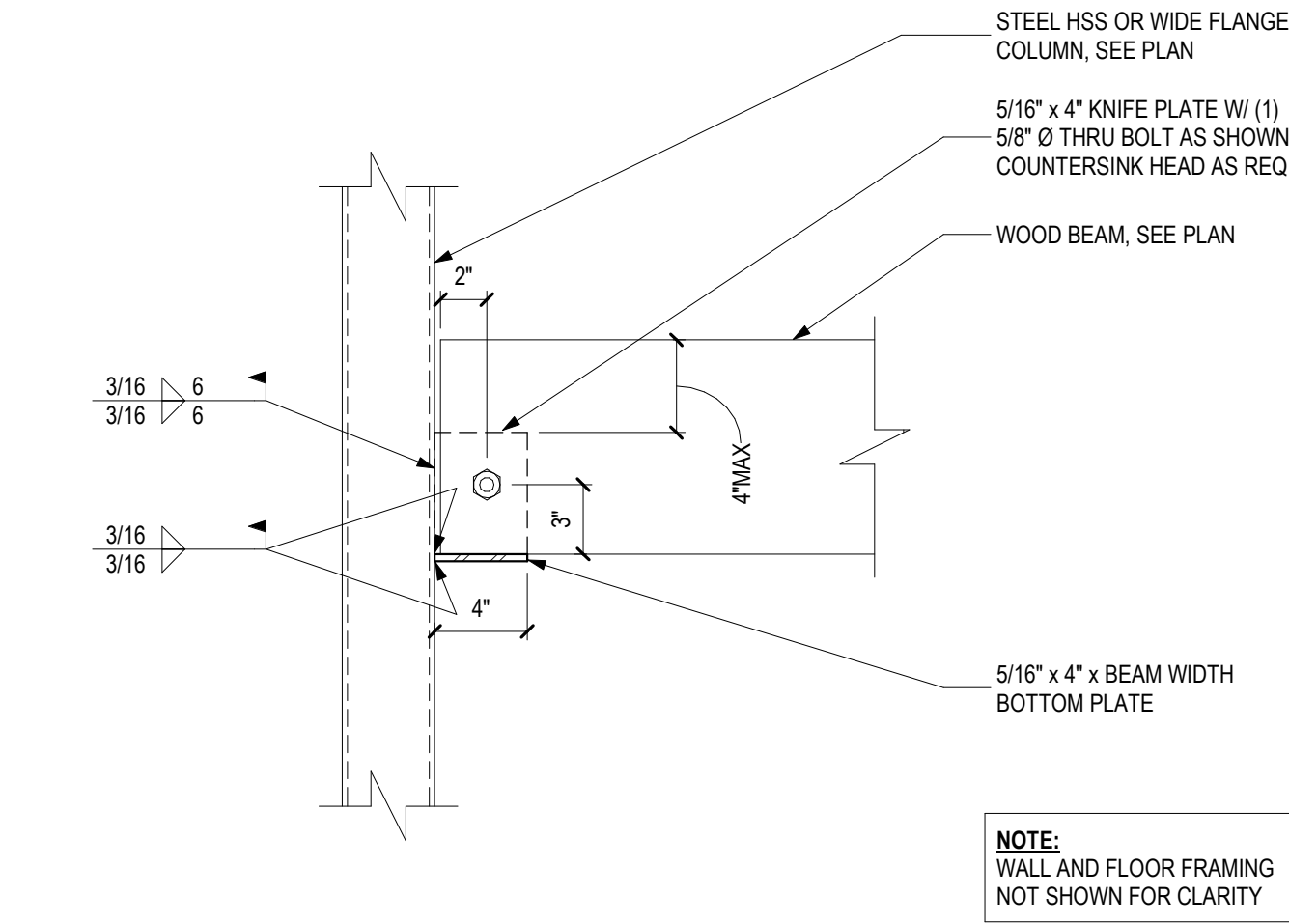
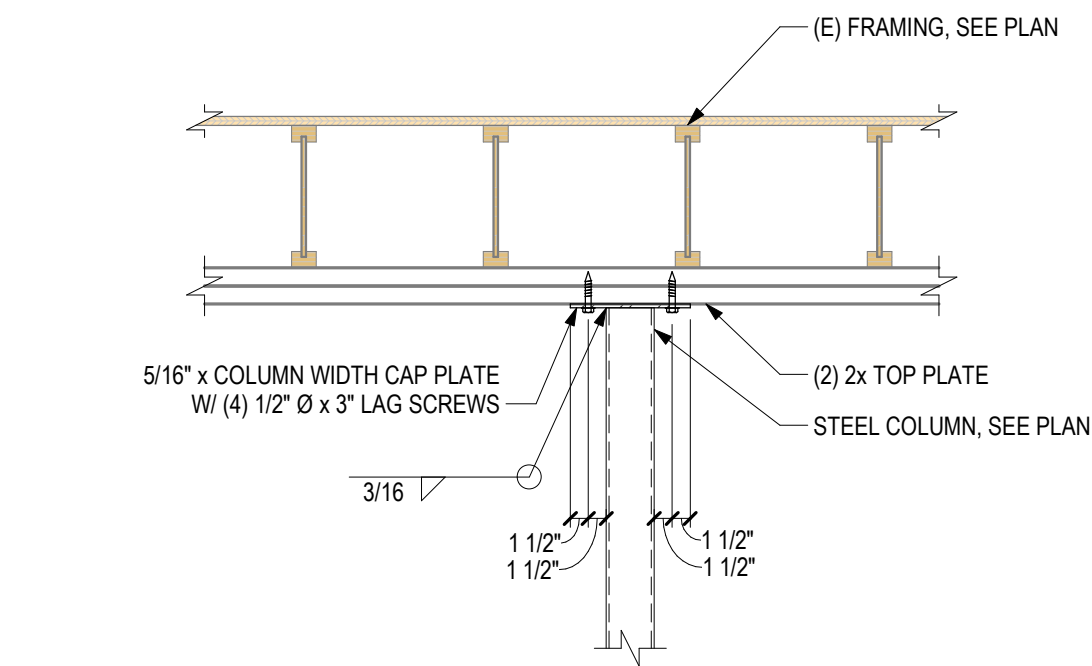
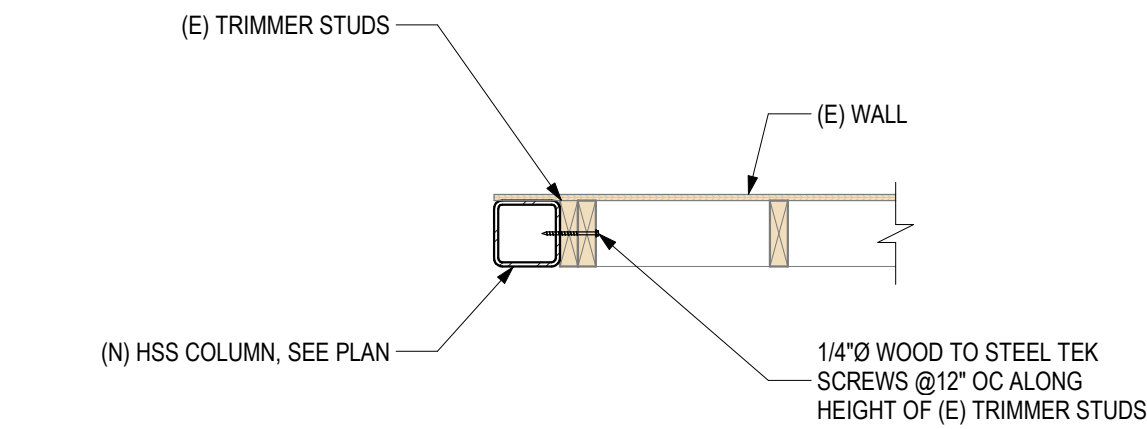
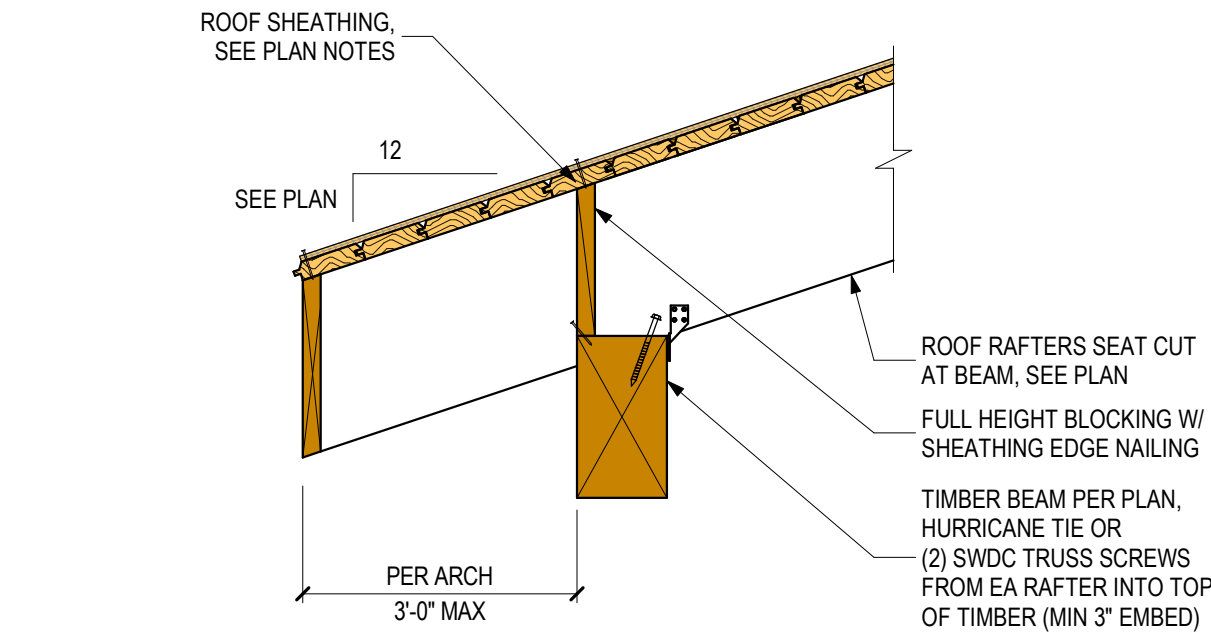
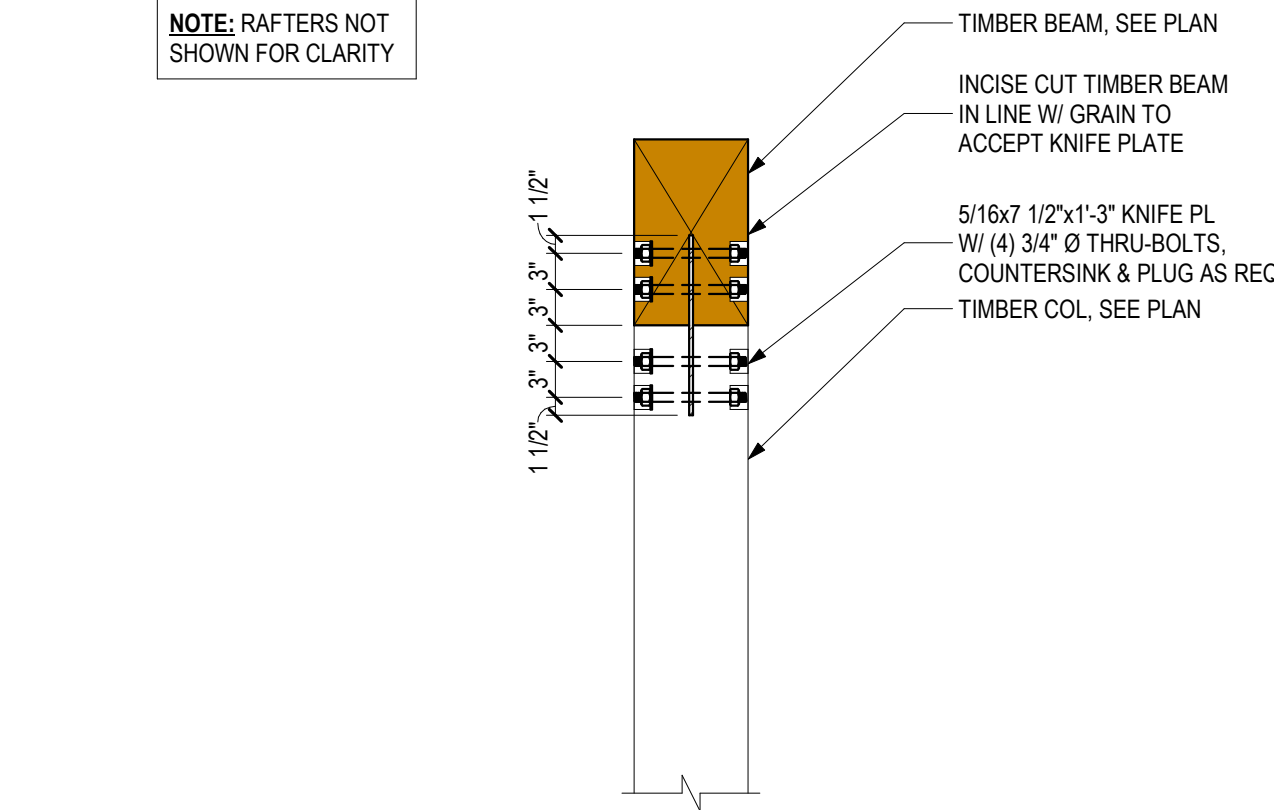
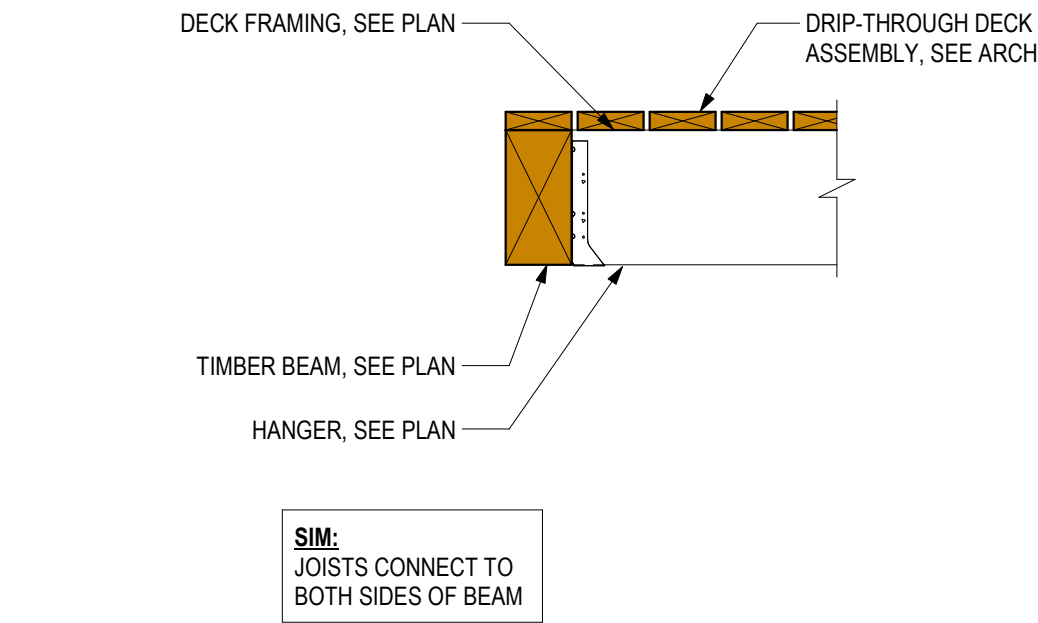
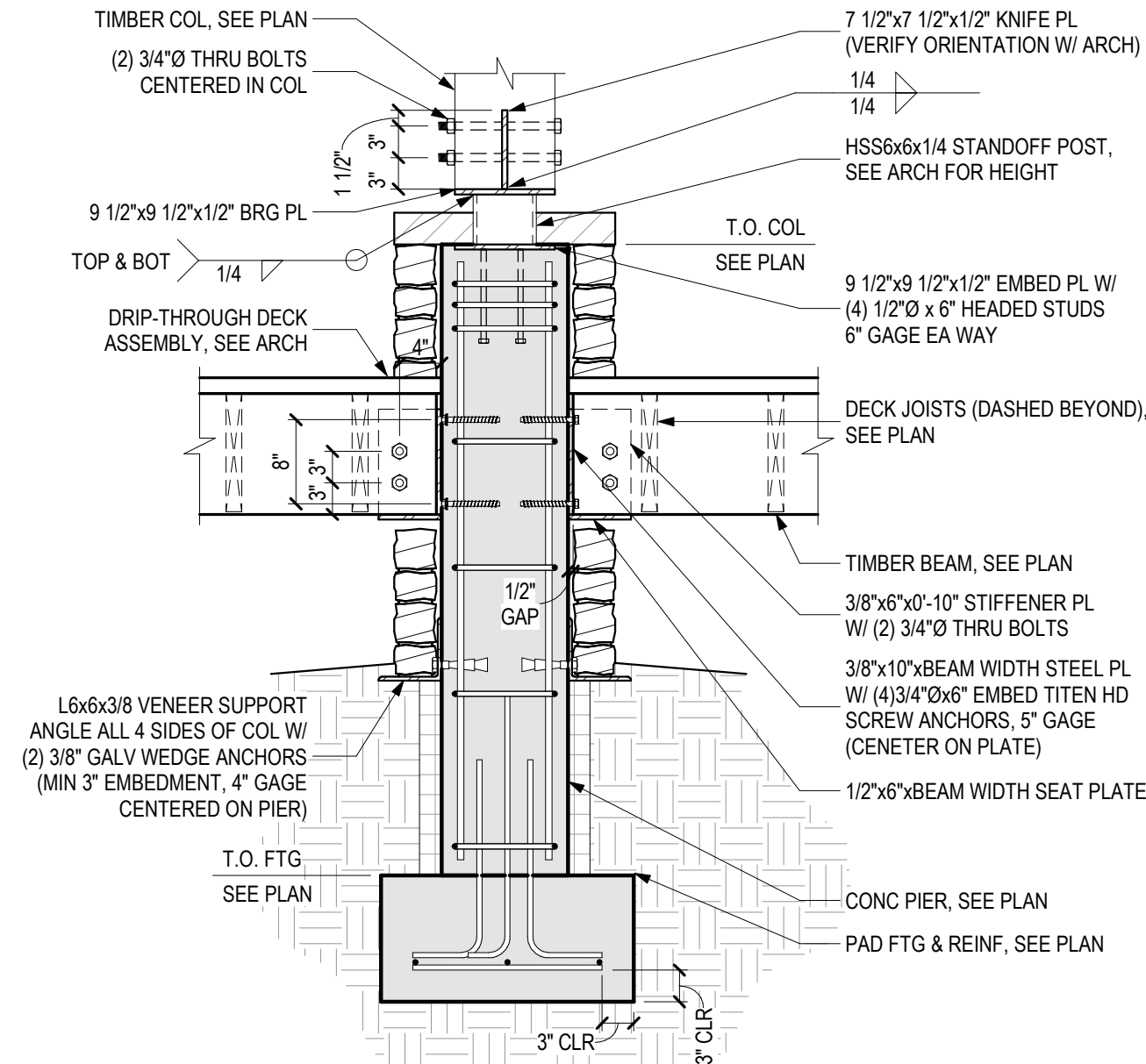
**WOODROW RESIDENCE**  
31555 GREEN RIDGE DRIVE

**STRUCTURAL TRUSS  
ELEVATION & DETAILS**

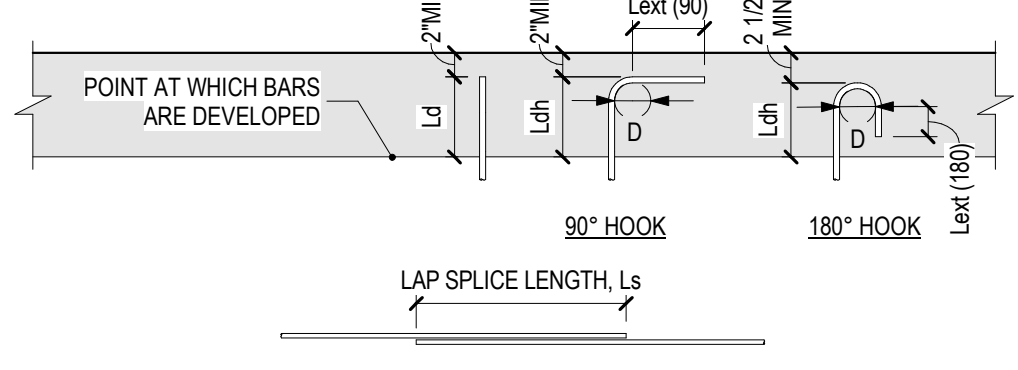
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**S2.0**

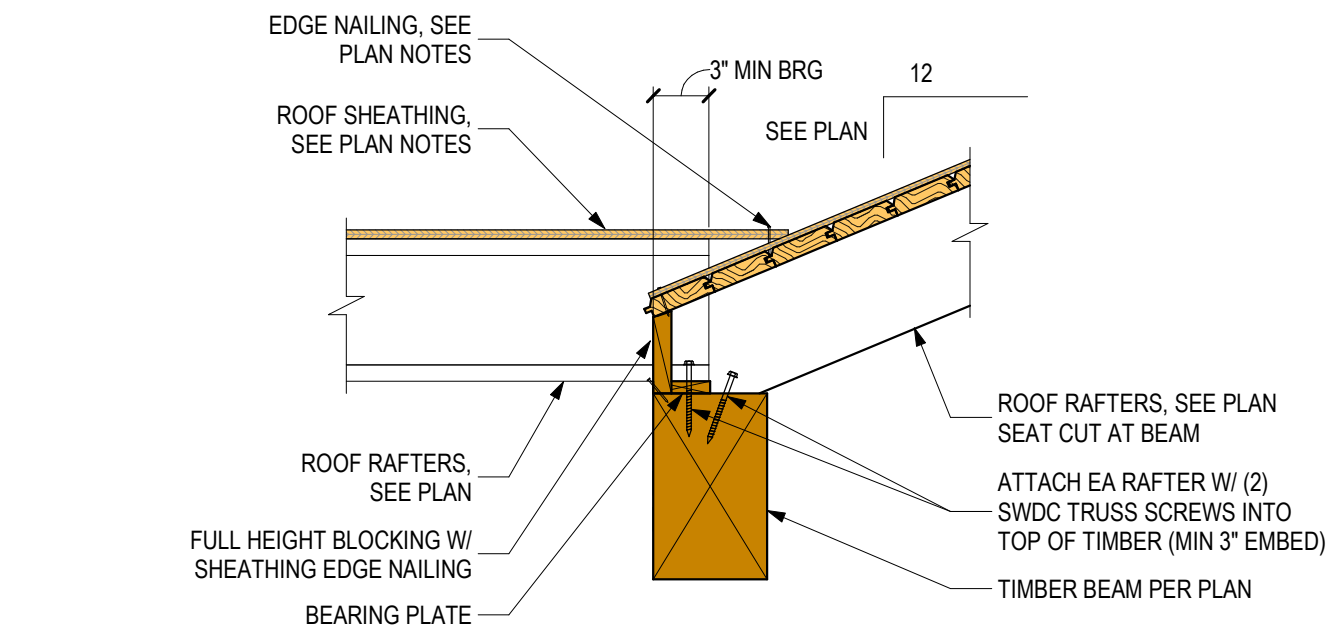
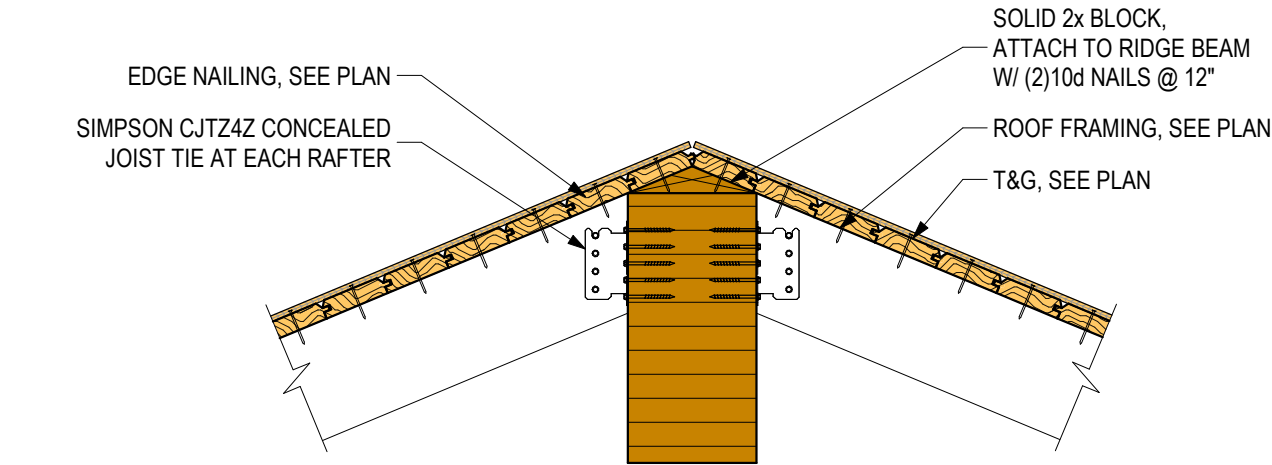


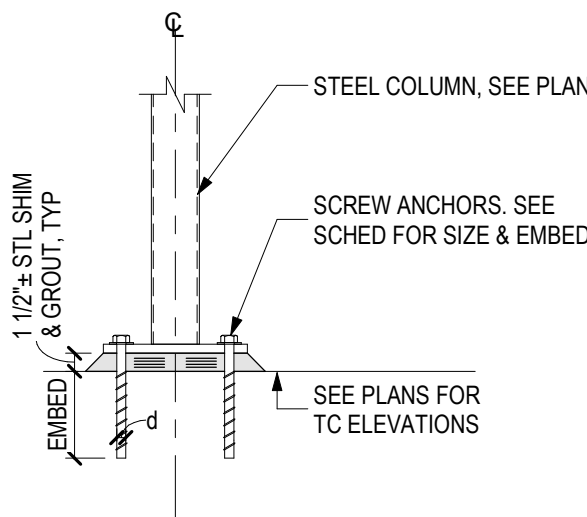
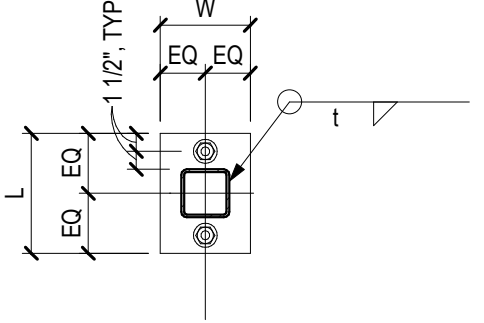


8  
CONCRETE REINFORCING SCHEDULE  
NOT TO SCALE

CONCRETE REINFORCING DEVELOPMENT LENGTH, HOOK & LAP SPLICE SCHEDULE						
						
BAR SIZE	NORMAL WEIGHT CONCRETE REINFORCING SCHEDULE (3,000 PSI MIN)					
	DEVELOPMENT LENGTH (Ld)	DEVELOPMENT HOOKS (Ldh)	LAP SPLICE (Ls)	D	Lex (90)	Lex (180)
#3	17"	12"	22"	2 1/4"	4 1/2"	2 1/2"
#4	22"	12"	29"	3"	6"	2 1/2"
#5	28"	12"	36"	3 3/4"	7 1/2"	2 1/2"
#6	33"	12"	43"	4 1/2"	9"	3"
#7	48"	14"	63"	5 1/4"	10 1/2"	3 1/2"
#8	55"	16"	72"	6"	12"	4"

NOTES:  
1. ALL VALUES LISTED ARE FOR ASTM A615 GRADE 60 STEEL.  
2. WHEN SPLICING DIFFERENT SIZE BARS, USE LAP LENGTH OF LARGER BAR.  
3. ALL LAP SPLICES ARE TO BE IN CONTACT AND WIRED TIED. STAGGER SPLICES SO THAT NO MORE THAN 50% OF REINFORCING IS SPLICED AT ONE LOCATION.  
4. FOR LIGHTWEIGHT CONCRETE, ALL TABULATED VALUES SHALL BE ADJUSTED BY x 1.30.  
5. FOR EPOXY COATED REBAR, ALL TABULATED VALUES SHALL BE ADJUSTED BY x 1.50.  
6. D = BEND DIAMETER; Lex = STRAIGHT BAR EXTENSION NOT INCLUDING BEND DIAMETER, Ldh = HOOK DEVELOPMENT LENGTH.



BASE PLATE SCHEDULE								
ANCHOR TYPES				BASE PLATE TYPES				
								
ANCHOR TYPE A				BASE PLATE TYPE 1				
<b>ANCHOR TYPE NOTES:</b> 1. LEVELING NUTS MAY BE PROVIDED ON ANCHORS TOP OF CONC AND BOT OF BASE PLATE IN LIEU OF STEEL SHIMS.				<b>BASE PLATE TYPE NOTES:</b> 1. HOLE SIZE TO BE 5/16" LARGER THAN ANCHOR BOLT DIAMETER, UNO. 2. DO NOT WELD FILLETED/CURVED SURFACES OR FLANGE TIPS.				
MARK	AB TYPE	AB DIAMETER [Ø]	AB EMBED	PLATE TYPE	DIM [L]	DIM [W]	PLATE THICKNESS	WELD [t]
BP1	A	5/8"	6"	1	11"	5 1/2"	1/2"	1/4"



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