

STRUCTURAL NOTES

Design Live Loads:
A. Roofs 110 psf
B. Floors 40 psf
C. Wind 120 mph, Exposure B, ASCE 7-10
D. Seismic Design Category B, Soil Type D, 2009 IBC

Foundation Criteria:
A. Design of continuous and individual footings is based on a maximum allowable soil bearing pressure of 2,500 psf dead load plus full live load placed on the natural undisturbed soils below frost depth. This is an assumed value based on local knowledge and previous projects in the area.

Reinforced Concrete:
A. Structural concrete shall be Type I, and have a minimum 28 day strength of 3,000 psi. Exterior concrete slabs shall be Type I and have a minimum 28 day strength of 4,000 psi w/ min 6% entrained air for durability.
B. Reinforcing bars shall conform to ASTM spec. A615-79 and shall be Grade 60.
C. All concrete work shall conform to the requirements of ACI318 and 301, latest edition.
D. At splices, lap bars a minimum of 34 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 the opening.
E. Concrete cover shall conform to ACI 318-08, 7.7. Unless a greater cover is required, concrete cast against earth shall have 3in. min. cover, concrete exposed to earth or weather shall have 1 1/2 in. min. cover for No. 5 bars & smaller & 2in. min. cover for No. 6 bars & greater. Concrete not exposed to weather shall have 3/4" min. cover for No. 11 bars & smaller.

Structural Steel:
A. All bolts, including anchor bolts, shall conform to ASTM spec. A307.
B. Structural steel rolled shapes, including plates and angles, shall be ASTM A36.
C. Expansion bolts called for on the drawings shall be Simpson "Weg-All", "Strong-Bolt 2" or approved wedge type anchors with the following minimum embedments: 3/4" diameter bolts - 3 3/8", 5/8" diameter bolts - 2 1/4", 1/2" diameter bolts - 2 1/4".
D. All epoxy shall be Simpson "Set-XP" and shall be installed per the "Anchoring and Fastening Systems For Concrete and Masonry" Simpson catalog #C-SAS-2012 by qualified personnel.
E. Field welded connections must be inspected by the Engineer Of Record or approved 3rd party.
F. 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.

Structural Wood Framing:
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-L No. 1 or better.
B. Unless noted otherwise, minimum nailing shall be provided as specified in Table No. 2304.9.1, "Fastening Schedule", of the 2009 IBC or Table No. R602.3(1), "Fastener Schedule For Structural Members", of the 2009 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 CBO). They shall be installed with the number and type of fasteners recommended by the manufacturer to develop the rated capacity.
E. Laminated Veneer Lumber shall be of such stress grade to provide an allowable bending stress of 2,600 psi, allowable shear stress parallel to the glue line of 285 psi and a modulus of elasticity of 1,900,000 psi.
F. Glue laminated timber shall be stress grade marked 24F-V4 for simple spans & 24F-V8 for multiple spans.
G. 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 drawings, including member sizes, lumber species, and grade and substantiating data for connector capacities and truss bearing, shall be submitted to the Architect or Engineer for review and approval prior to fabrication.
H. Floor joists shall be plant fabricated I series with LVL or solid wood flanges 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 loads.
I. Roof overframing shall be 2x6 rafters @ 24" O.C. w/ 2x6 studs @ 24" O.C. to stack over rafters or purlins below.

Backfilling:
A. Do not backfill against basement or retaining walls until supporting slabs and floor framing are in place and securely anchored.

STRUCTURE LEGEND

- = COLUMN BELOW
- = COLUMN ABOVE
- = COLUMN CONTINUOUS THIS LEVEL
- = RAFTER
- = JOIST
- = BEAM
- = RIM
- = LEDGER
- = TYPICAL HEADER
- = CLOSURE WALL
- = HANGER
- = CLIP

ALPINE COASTER EQUIPMENT BY WEIGAND

DROP TOP OF WEST WALL 1'-4" & ADD BENT #4 BARS X 3'-0"X2'-0" @ 18" O.C. - FOUR SLAB OVER WALL

TYPICAL - BEND #4 BARS TO EXTEND 8" FOR EDGE REINF. ALL AROUND SLAB PERIMETER

100'-0" = ELEV. 7345.754' T.O. SLAB

TYPICAL - BACKFILL WALL w/ ON-SITE SOILS

98'-8" T.O. WALL @ DOORWAY

TYPICAL PERIMETER DRAIN - 4" PERF. PVC PIPE - SLOPE 1/8" FT. TO DAYLIGHT - SURROUND w/ 1 CU. FT./LIN. FT. WASHED ROCK IN MIRAFI 140 N FABRIC ENVELOPE

95'-6" T.O. FOOTING

2 FOUNDATION SECTION @ DOORWAY

SCALE: 3/4" = 1'-0"

4 FOUNDATION SECTION

SCALE: 3/4" = 1'-0"

TYPICAL - REMOVE I.C.F. AS REQUIRED FOR SLAB & ISOLATE SLAB FROM WALL w/ (2) LAYERS OF 30# FELT

TYPICAL CONCRETE SLAB Re: 2/S-1

100'-0" = ELEV. 7345.754' T.O. SLAB

98'-8" T.O. FOOTING

5'-0"X0'-11" CONCRETE FOOTING REINF. w/ (5) #4 BARS, CONT. (MUST BEAR ON NATIVE, UNDISTURBED SOILS)

TYPICAL - DRILL 3/4" Ø HOLES @ 18" O.C. @ 30° ANGLE IN CONCRETE WALLS TO SET BENT #4 BARS X 2'-0" IN EPOXY @ TOP SLAB REINF.

TYPICAL PERIMETER DRAIN Re: 2/S-1

#5 DOWELS X 6" O.C. @ OUTSIDE FACE OF WALL

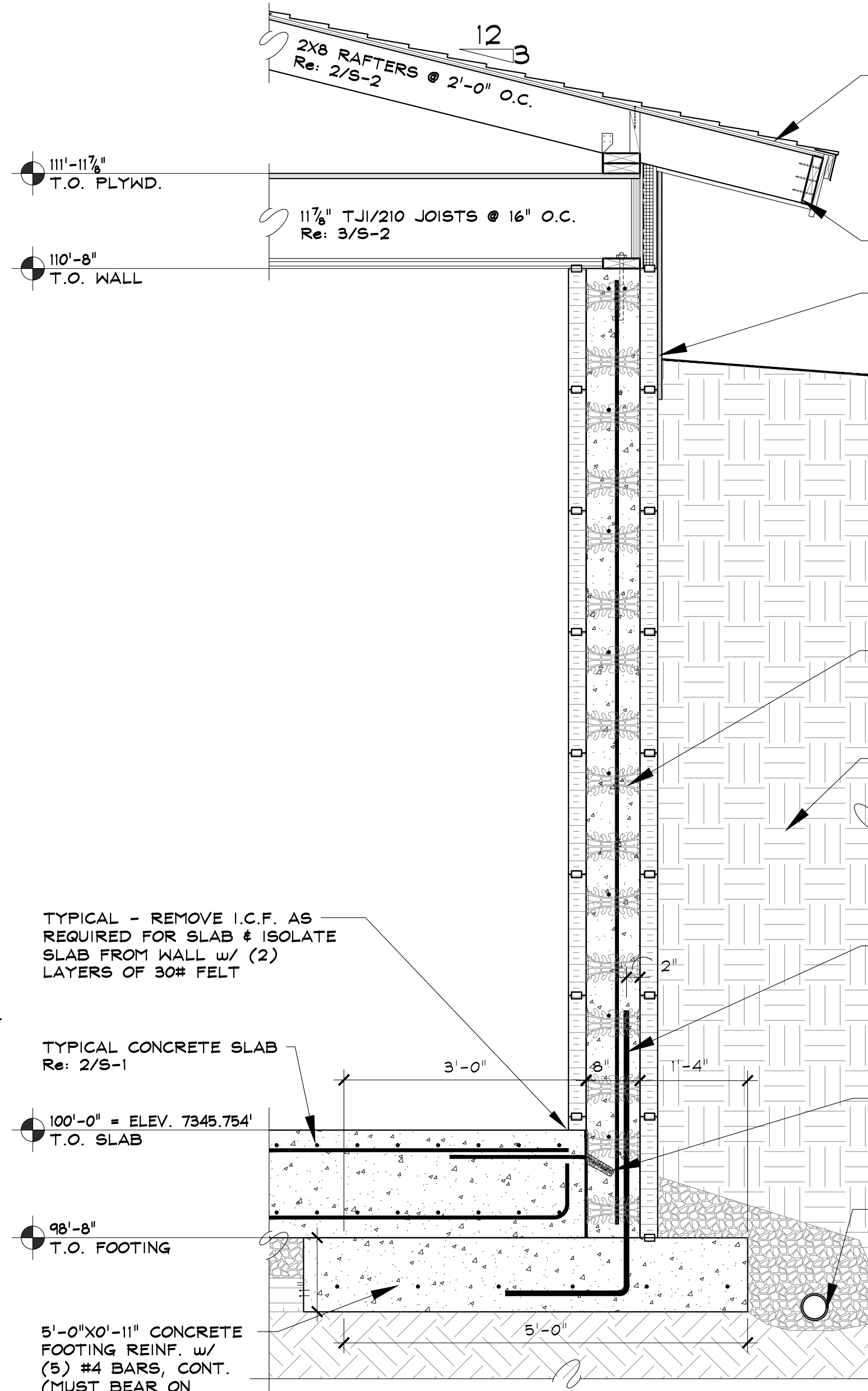
TYPICAL - BACKFILL WALL w/ ON-SITE SOILS

8" THICK CONCRETE WALL Re: 2/S-1 SIMILAR

CORRUGATED METAL SIDING (Re: 3/A-2) - EXTEND MIN. 6" BELOW TO GRADE TO PROTECT I.C.F.

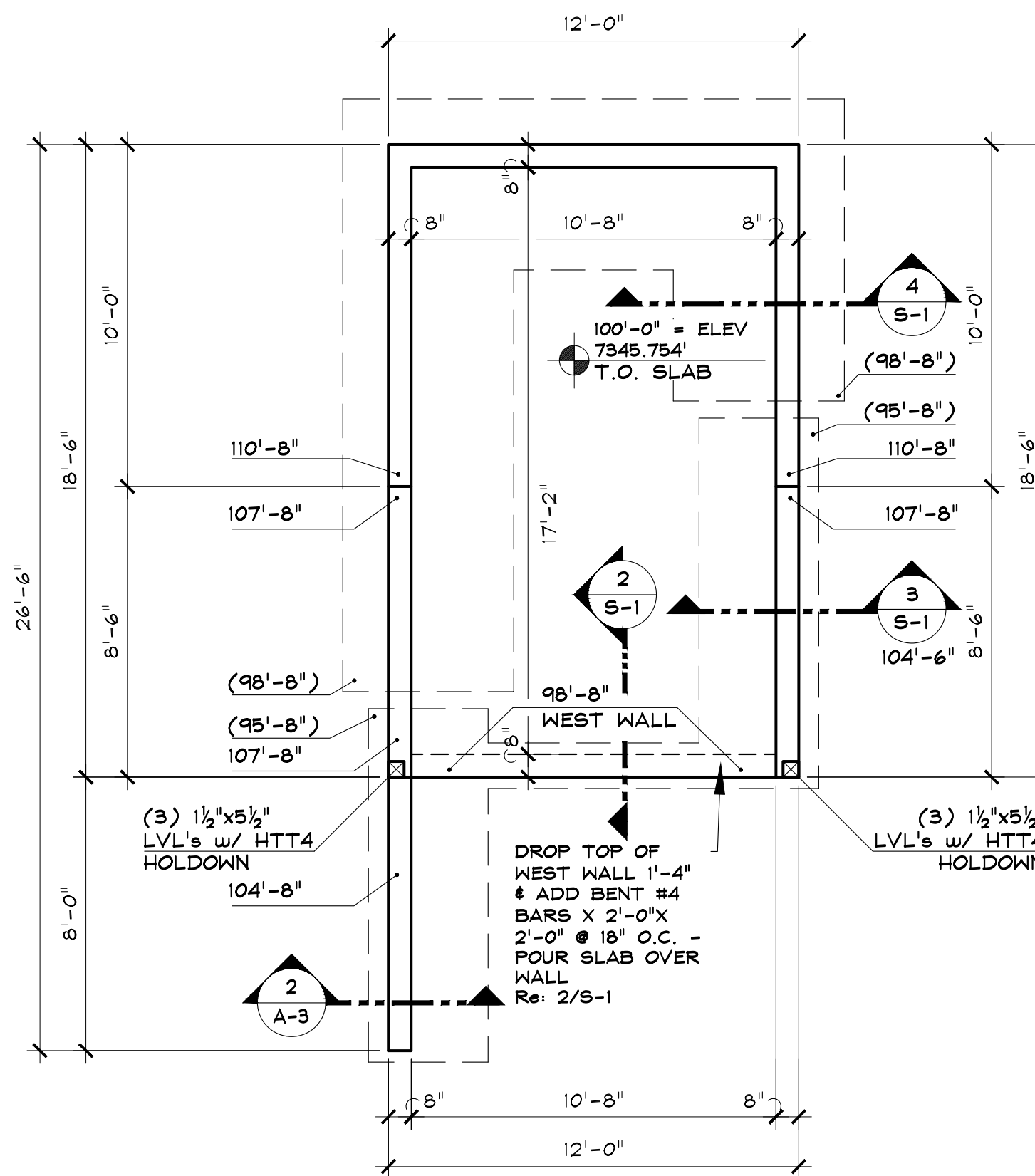
TYPICAL SOFFIT/EAVE Re: 4/S-2

ASPHALT SHINGLE ROOF Re: 4/S-2



3 FOUNDATION SECTION

SCALE: 3/4" = 1'-0"



NOTE:
CONCRETE SLAB SHALL BE 1'-4" THICK SLAB REINF. w/ #4 BARS @ 6" O.C. EACH WAY, CENTERED, TOP & BOTTOM, OVER MIN. 6" GRAVEL

1 FOUNDATION PLAN

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

TYPICAL - ELEVATION @ TOP OF CONCRETE WALL INDICATED THUS: (ELEV.)
TYPICAL - ELEVATION @ TOP OF CONCRETE FOOTING INDICATED THUS: (ELEV.)
TYPICAL - COLUMNS THAT BEGIN THIS LEVEL ARE INDICATED ON PLAN

RCRBD
RECORD SET

TYPICAL EXTERIOR WALL - 7/8" APA RATED EXP. 1 SHEATHING OVER 2X6 @ 16" O.C. FRAMED WALLS

TYPICAL - 1/2" ØX10" GALV. ANCHOR BOLTS @ 4'-0" O.C. IN TREATED 2X6 PLATE - DO NOT COUNTERSINK

104'-6" T.O. WALL

TYPICAL - REMOVE I.C.F. AS REQUIRED FOR SLAB & ISOLATE SLAB FROM WALL w/ (2) LAYERS OF 30# FELT

TYPICAL CONCRETE SLAB Re: 2/S-1

100'-0" = ELEV. 7345.754' T.O. SLAB

3'-6"X0'-11" CONCRETE FOOTING REINF. w/ (4) #4 BARS, CONT.

95'-6" T.O. FOOTING

CONTINUOUS METAL FLASHING

STONE VENEER PER IBC SECTION 1405.7

PROVIDE NUDURA BRICK LEDGE FORM w/ CONT. #4 BAR TO SUPPORT STONE VENEER

PROVIDE #3 TIES w/ STANDARD HOOKS @ 18" O.C.

8" THICK CONCRETE WALL Re: 2/S-1 SIMILAR

TYPICAL - BACKFILL WALL w/ ON-SITE SOILS

#4 DOWELS X 9" O.C. @ OUTSIDE FACE OF WALL

TYPICAL PERIMETER DRAIN Re: 2/S-1

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:

SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

PROGRESS
07 . 06 . 16
PERMIT
08 . 03 . 16
08 . 11 . 16
09 . 12 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

FOUNDATION
PLAN & NOTES

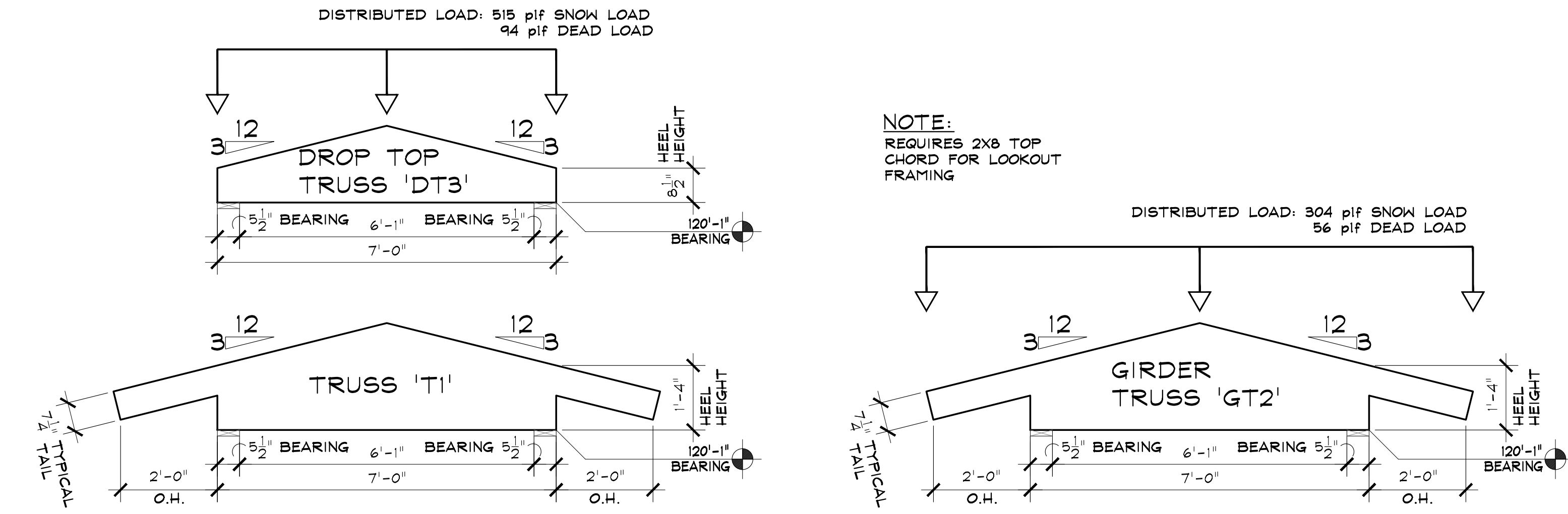
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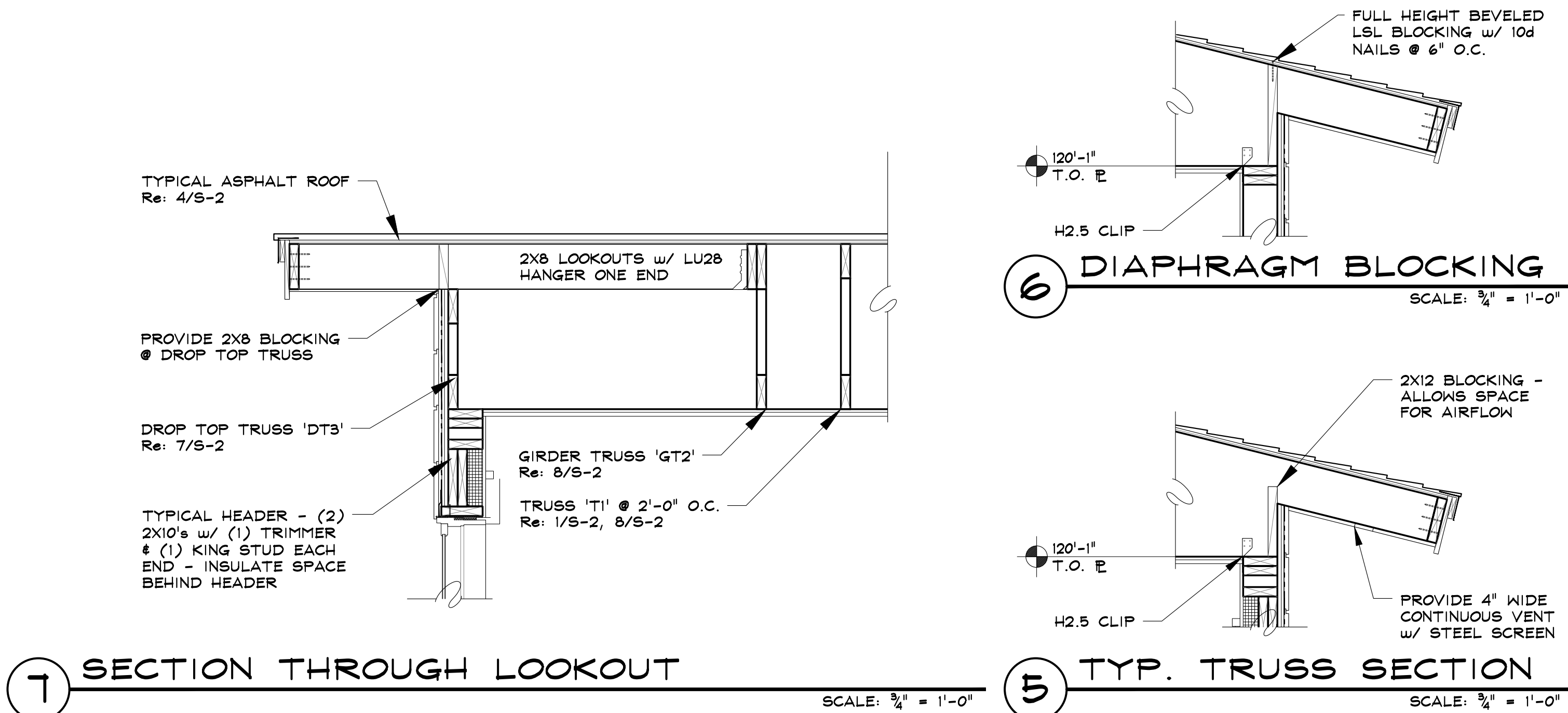
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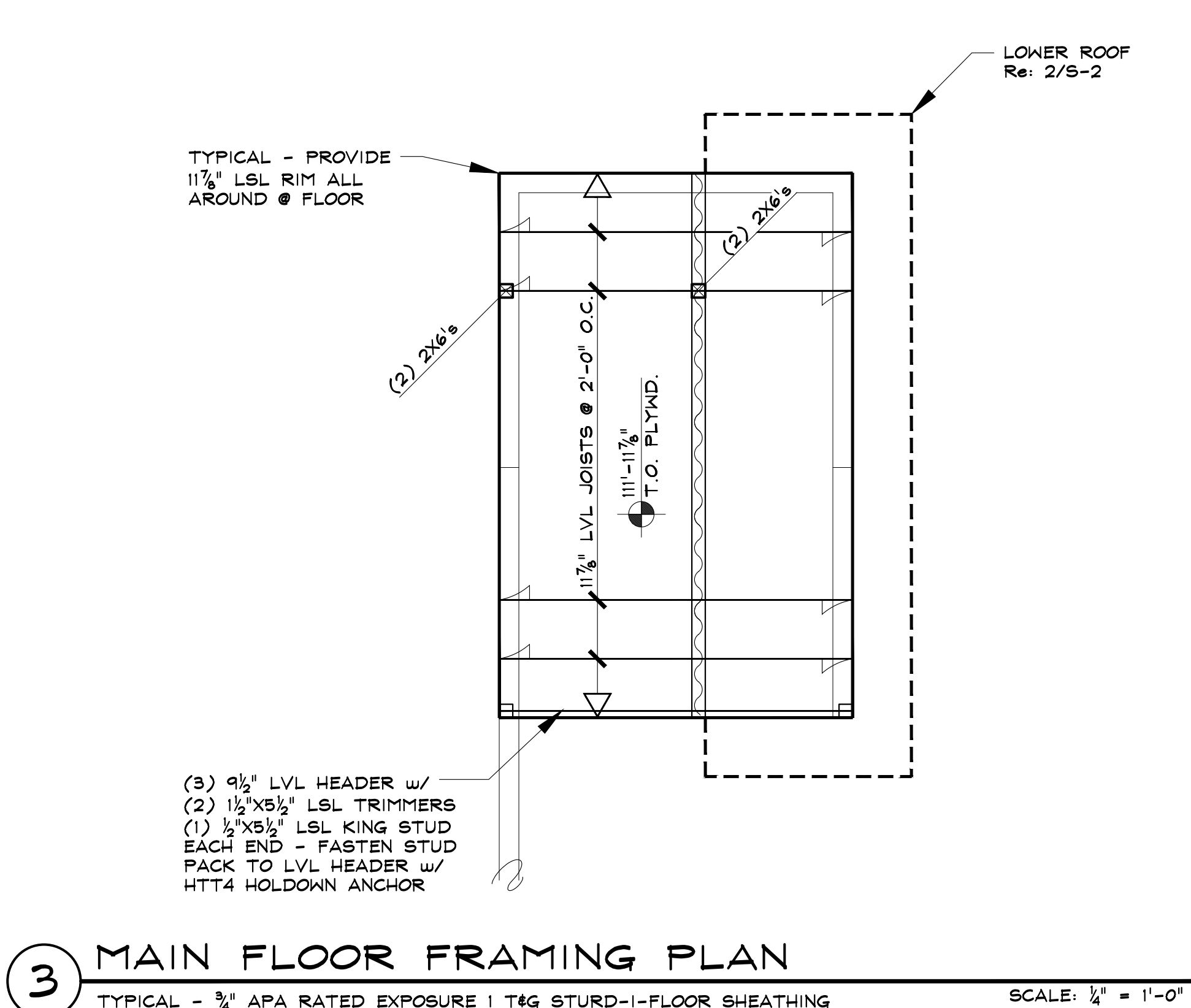
8 MANUFACTURED TRUSS SCHEMATICS



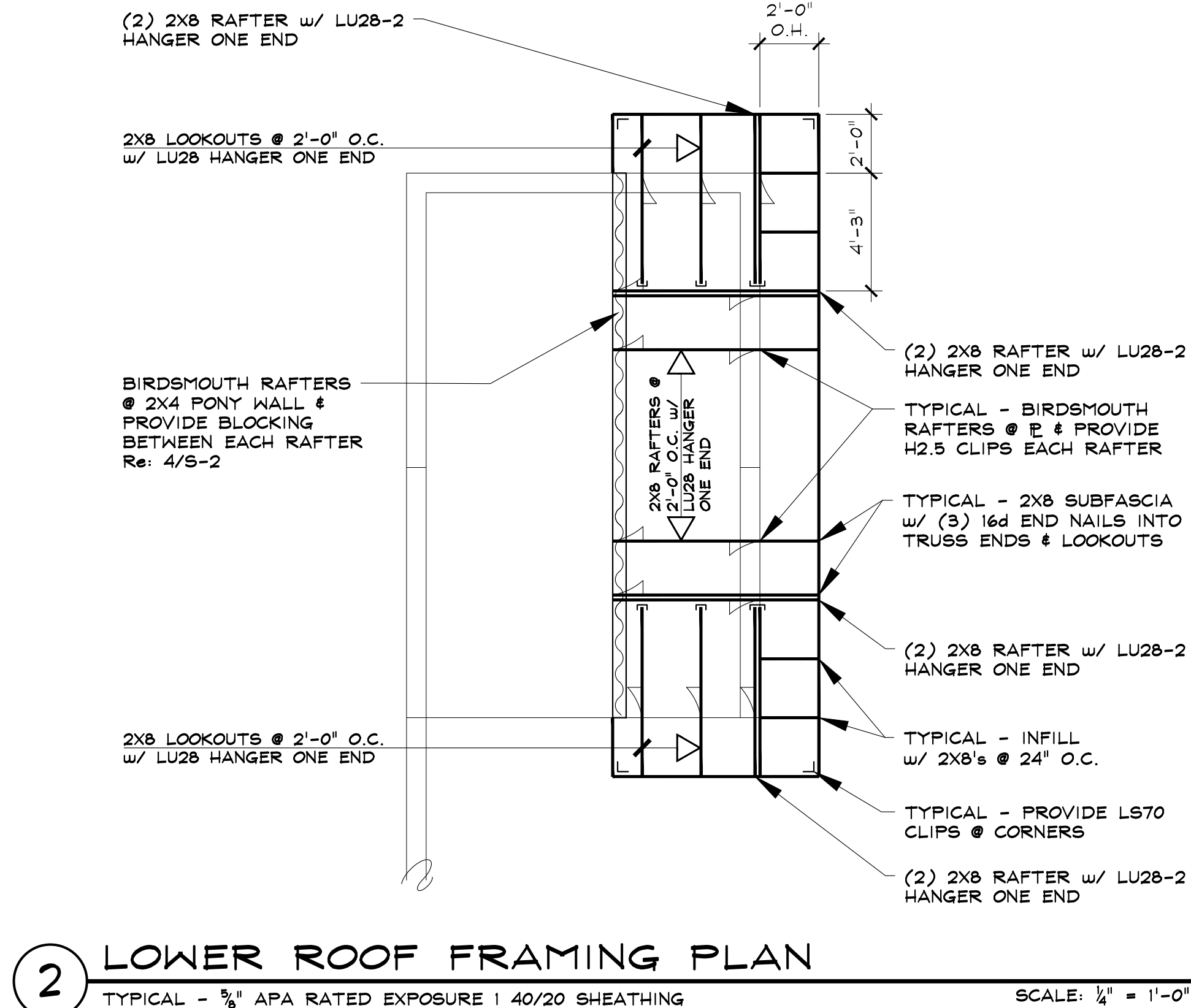
7 SECTION THROUGH LOOKOUT



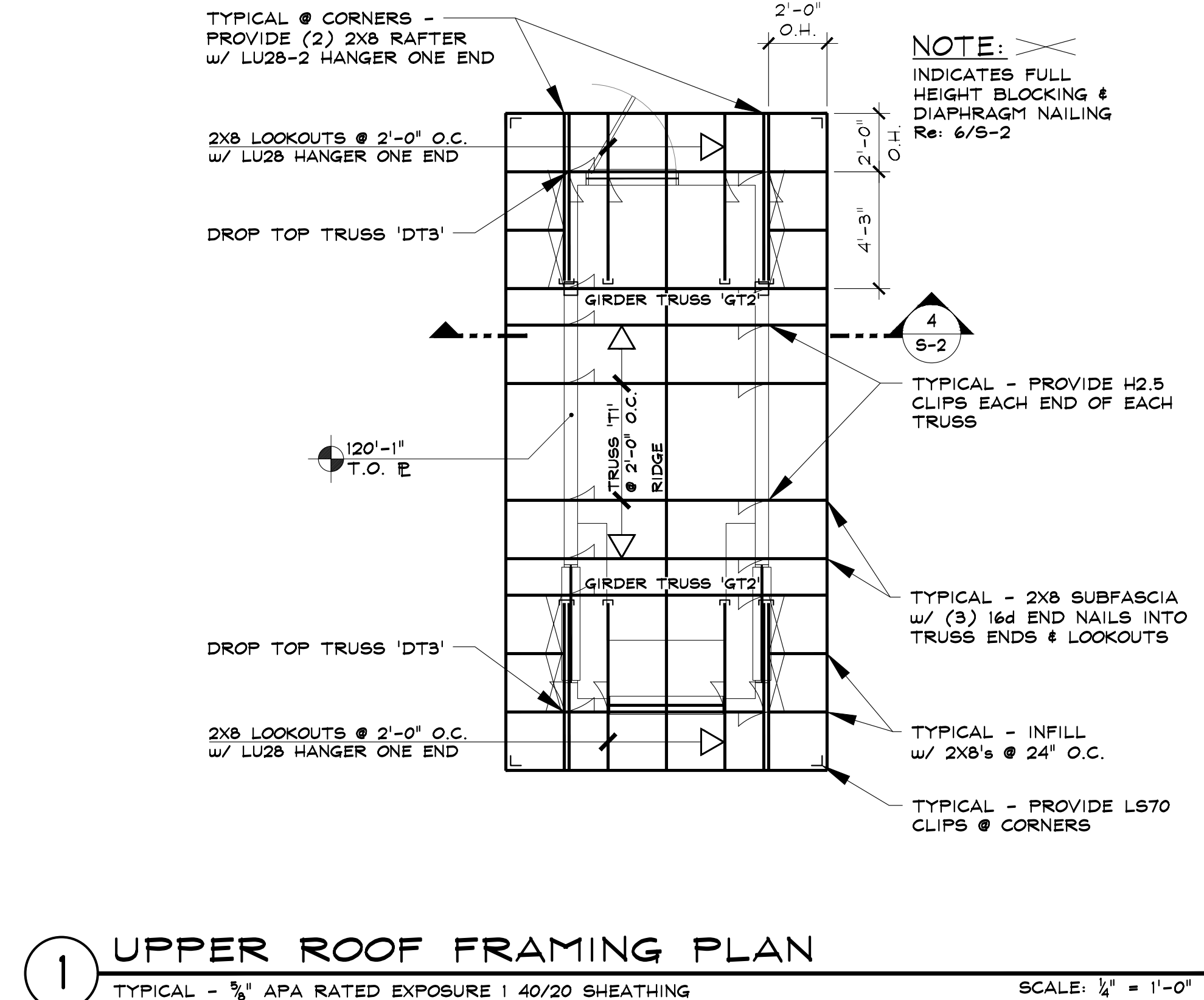
3 MAIN FLOOR FRAMING PLAN



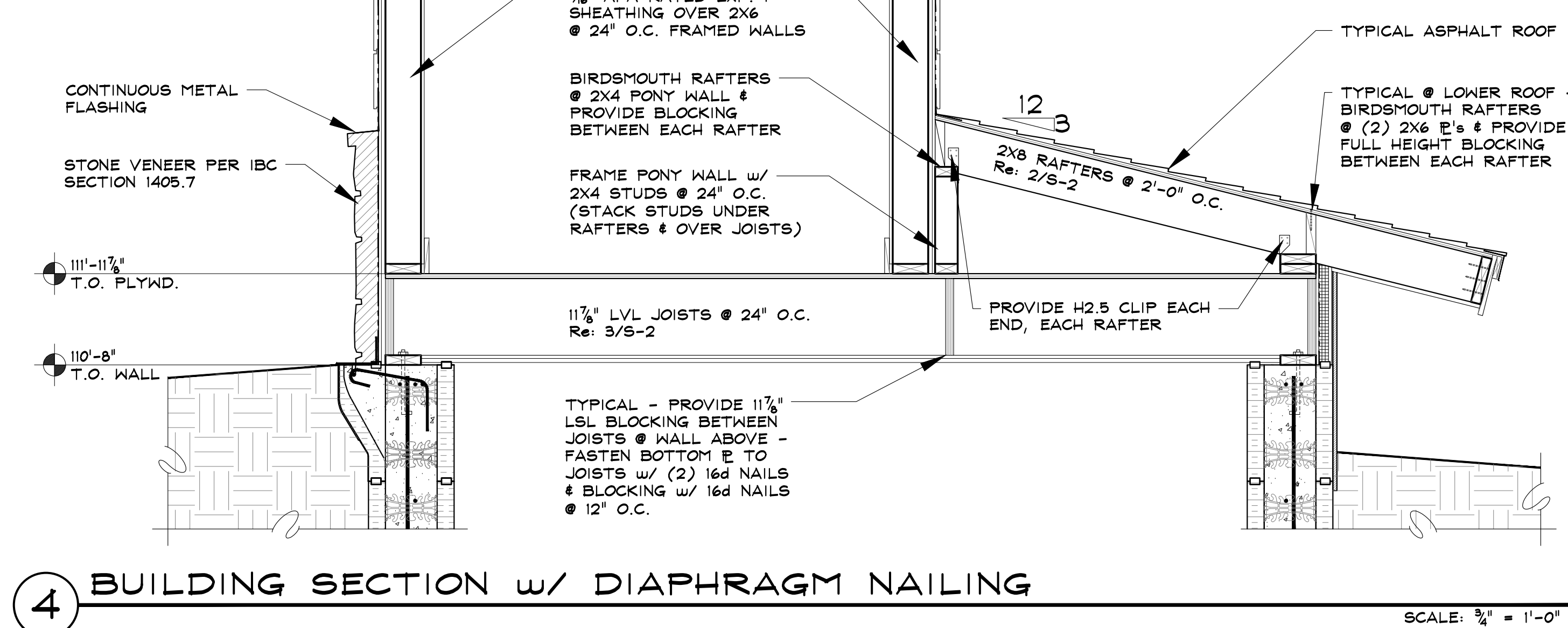
2 LOWER ROOF FRAMING PLAN



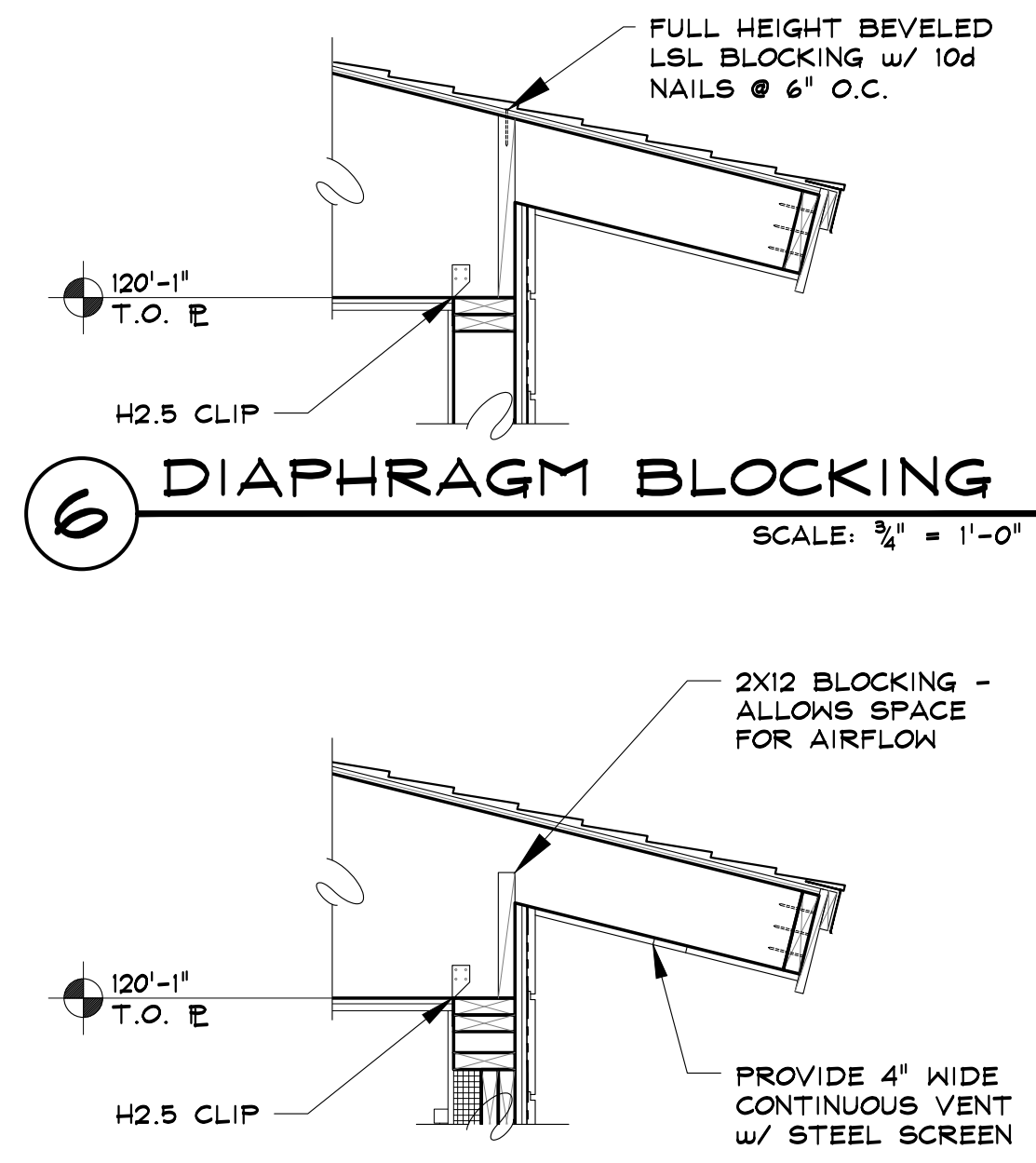
1 UPPER ROOF FRAMING PLAN



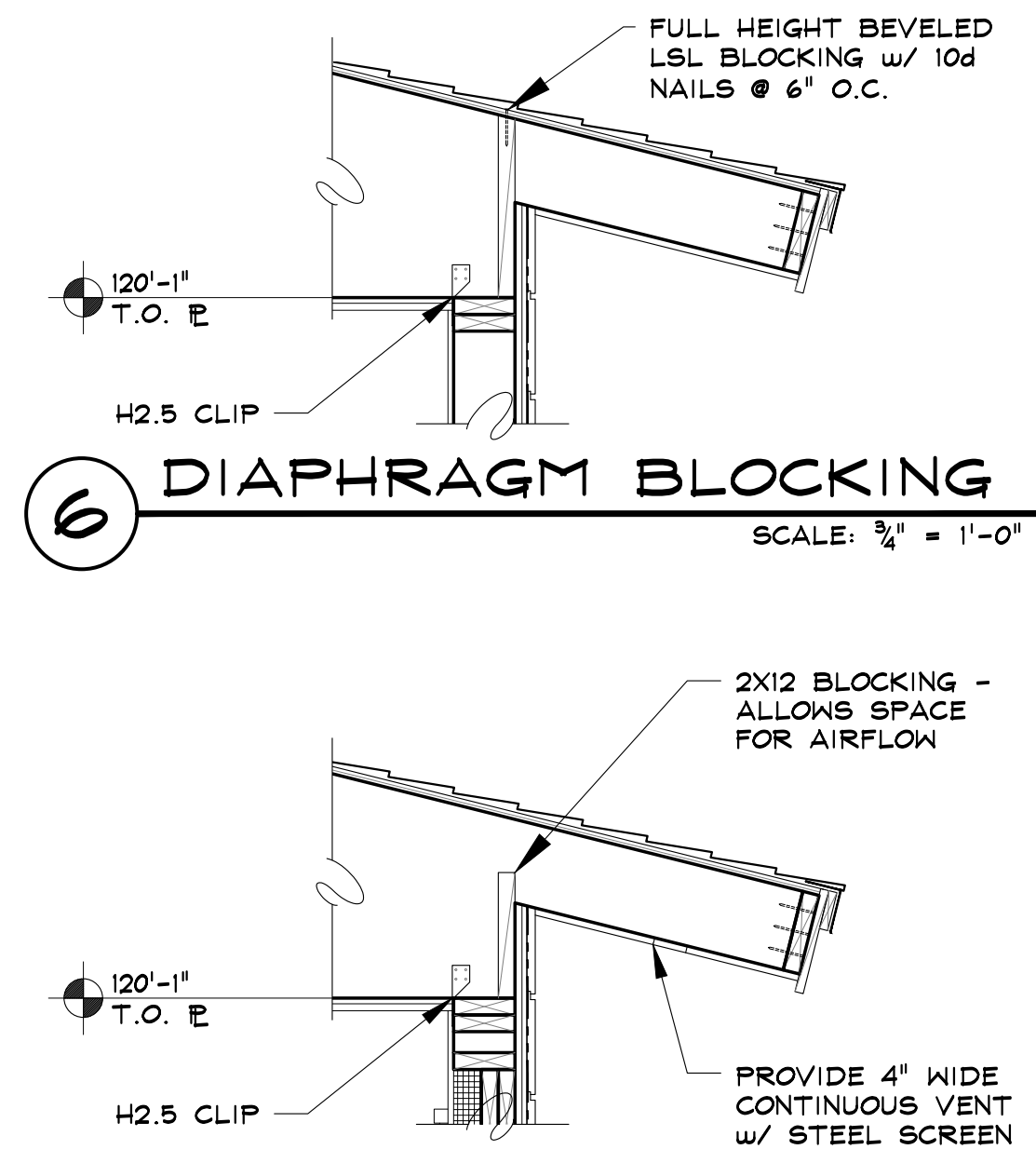
4 BUILDING SECTION w/ DIAPHRAGM NAILING



6 DIAPHRAGM BLOCKING



5 TYP. TRUSS SECTION



RCRBD
RECORD SET

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:

SSRC - STEAMBOAT SKI & RESORT CORP.

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DRAWN BY:
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PROJECT # 16020

FRAMING PLANS

S-2

SHEET 6 of 6

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