

STRUCTURAL NOTES

01.0 GENERAL NOTES

- These notes set minimum standards for construction. The drawings govern over the Structural Notes to the extent shown.
- Contractor shall verify all dimensions and conditions on drawings and in field. Coordinate locations of openings through floors, roofs and walls with architectural, mechanical and electrical plans. Notify owner's representative of any discrepancies.
- Construction means, methods and all necessary temporary support prior to completion of vertical and lateral load systems is the sole responsibility of the contractor.
- Compliance with all safety and OSHA requirements is the sole responsibility of the contractor.
- All work shall be in compliance with 2019 edition of the "Oregon Structural Specialty Code" (OSSC) as amended by all other state and local codes, permits, and building department requirements that apply.
- Where reference is made to ASTM, AISC, ACI or other standards, Code referenced issue shall apply.
- Design Criteria:

Table 1604.5	Risk Category	II
Roofs	Dead load	10 psf
	Snow load (minimum)	20 psf x I_s + 5 psf rain on snow per OSSC 1608.2.3
Wind	Ultimate wind speed	98 mph, 3-sec gust
	Wind exposure	B, N-S; B, E-W
Seismic	Mapped spectral response, S_S and S_T	0.721 and 0.411
	Site class	D
	Seismic importance factor, I_E	1.00
	Spectral response coeff., S_{DS}	0.588
	Seismic design category	D

- Mechanical equipment, mechanical and sprinkler piping larger than 2 inch diameter or other items producing a hanger load over 50 lbs. shall be hung by a system approved by the owner's representative. Any hanger producing a load over 200 lbs. shall have additional framing installed to transfer these loads to the main structural beams or walls unless otherwise approved.
- Brace all mechanical and electrical equipment, piping, etc. to the top of structural members to resist lateral forces as specified in Section 13.6 of the current edition of ASCE 7 using a system approved by the mechanical or electrical engineer respectively.
- Details shown on the drawings are intended to apply to all similar conditions and locations.
- Do not scale information from drawings.

06.0 WOOD FRAMING

- All lumber species and grade to be as follows:

Joists, beams and stringers (2x & 4x)	DF #2-19 percent M.C.
6" nominal & greater beams and stringers	DF #1-19 percent M.C.
Bucks, blocking, bridging and misc.	DF #3 or better
Exterior, above ground construction exposed to weather	Western Cedars #2 or better or pressure treated Hem Fir #2 AWP/UC3B

- All engineered wood to meet the following criteria:

Material	Grade	Fb	Fv	E
Laminated Veneer Lumber (LVL)	2.0E	2,600 psi	285 psi	2.0 x 10 ⁶ psi

- Approved manufacturers: RedBuilt LLC, LP Building Products or iLevel, a Weyerhaeuser business. Sheathing shall be APA Rated plywood sheathing or Sturd-I-Floor, C-D grade, Exposure 1 with Performance Category and Span Rating as noted below. Each sheet shall bear an APA stamp. Install roof and floor sheathing with face grain perpendicular to supports and stagger end joints. Install wall sheathing either horizontal or vertical, and block all edges of sheathing with 2x4 or thicker blocking. Block roof and floor sheathing where noted on drawings and where plywood widths are less than 12 inches wide. Glue floor sheathing to all supports. Protect all sheathing from weather damage and moisture. Replace all buckled or soft sheets. Do not cover sheathing with permanent roofing or finishes until sheathing has a moisture content of less than 19%.

Location	Performance Category	Span Rating
Roofs (supports 24" & less)	19/32	40/20
Roofs (supports greater than 24")	23/32 T&G	48/24

- Framing anchors, joist hangers, post caps, etc., shall be by 'Simpson Strong-Tie'. Install per manufacturer's recommendations for tabulated maximum capacities with fasteners installed in all holes. Framing anchors attaching to pressure treated lumber shall be Z Max coated or hot dipped galvanized and attached with hot dipped galvanized (2.0 oz per square foot) or stainless steel nails or screws. Framing anchors installed at exterior locations exposed to weather are to be stainless steel with stainless steel fasteners.
- All bolts for wood to steel or wood to wood connections and in manufactured connectors shall be ASTM A307, Grade A unless otherwise noted. Provide standard plate washers under all bolt heads and nuts in contact with wood. Use hot dipped galvanized washers in contact with pressure treated lumber.
- All bolt holes in wood to be 1/16 inch larger than the bolt. Do not ream or oversize bolt holes.
- Do not recess bolt heads or nuts unless shown on drawings.
- All nailing shall be per Table 2304.10.1 of the OSSC. Nails called for on the drawings shall be common for plywood nailing; box nails for framing; and type recommended by manufacturer for maximum capacity of hangers and connectors. Nail heads shall not penetrate the face veneer of plywood panels.
- Nails, bolts or lags in pressure treated lumber shall be hot dipped galvanized or stainless steel.
- Cutting and notching of joists not allowed. A one-inch (1") diameter hole may be drilled in the center 1/3 of width of member depth. All other holes shall be approved.
- Lag bolts shall be installed in lead holes as follows:
 - The lead hole for the shank shall have the same diameter as the shank and the same depth as the length of the unthreaded shank.
 - The lead hole for the threaded portion shall have a diameter equal to 70 percent of the shank diameter and a length equal to at least the length of the threaded portion.
 - The threaded portion or the screw shall be inserted in its lead hole by turning with a wrench, not by driving with a hammer. Soap or other lubricants may be used on the screws or in the lead hole to facilitate insertion and prevent damage to the screw.



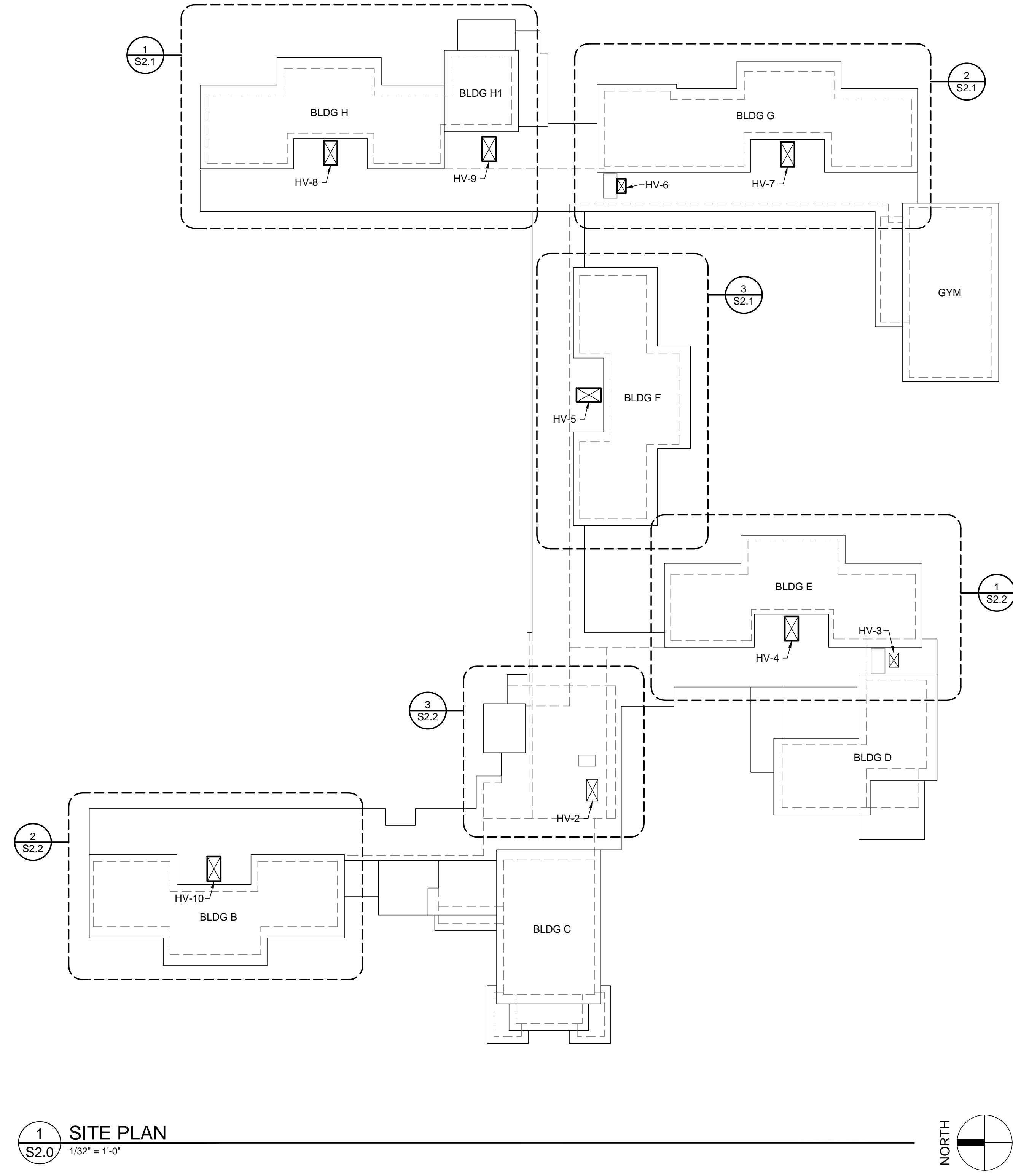
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 1717 CITY VIEW,
 EUGENE, OREGON
STRUCTURAL NOTES

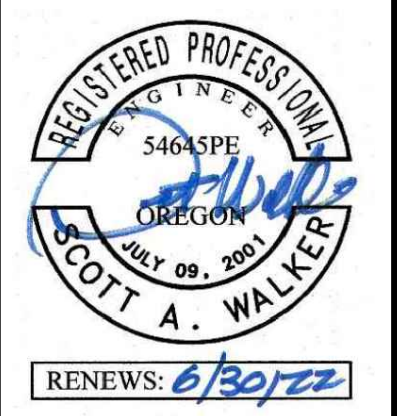
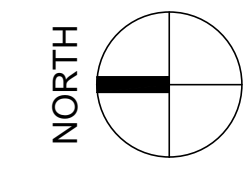
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SHEET

S1.0



1 SITE PLAN
S2.0 1/32" = 1'-0"



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SITE PLAN

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S2.0

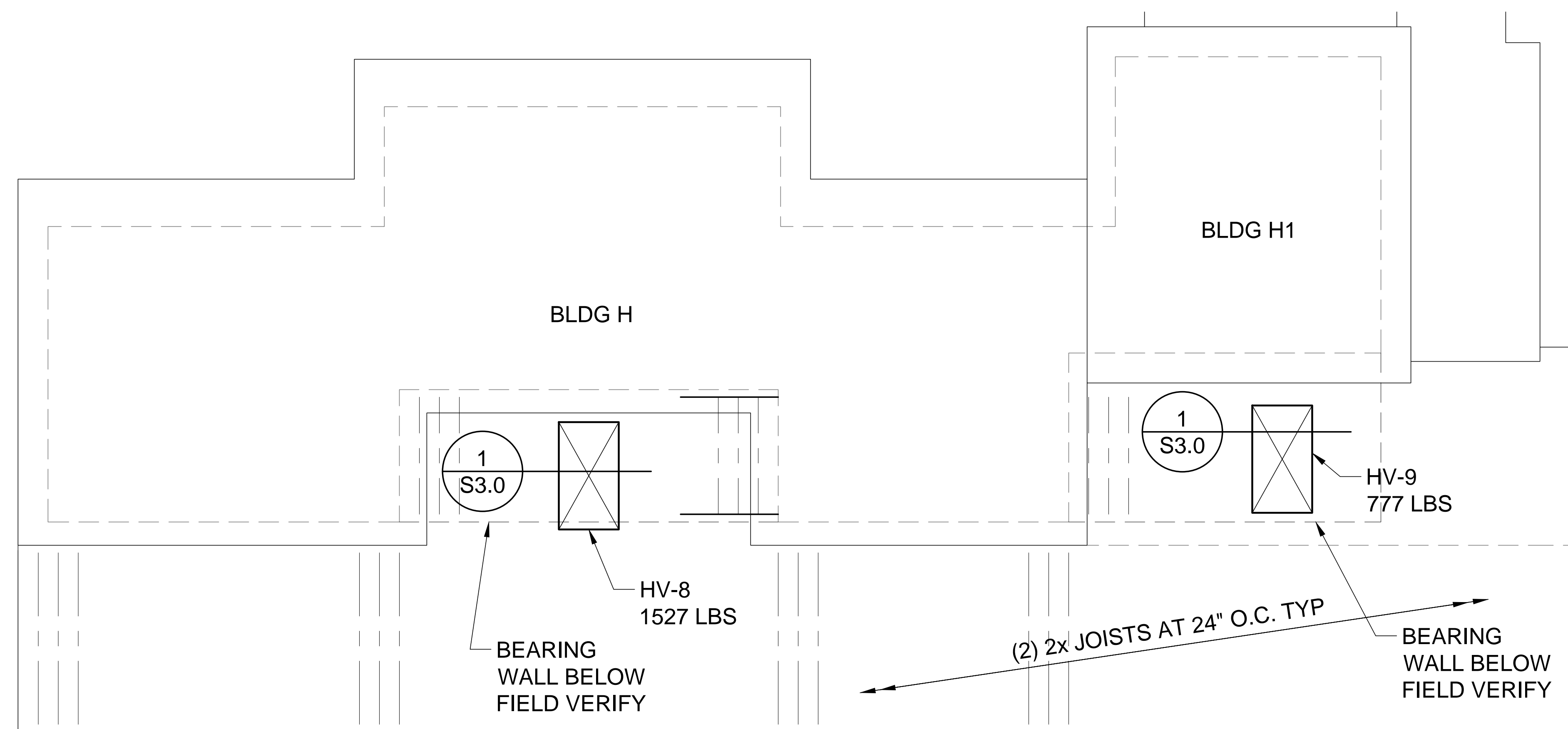


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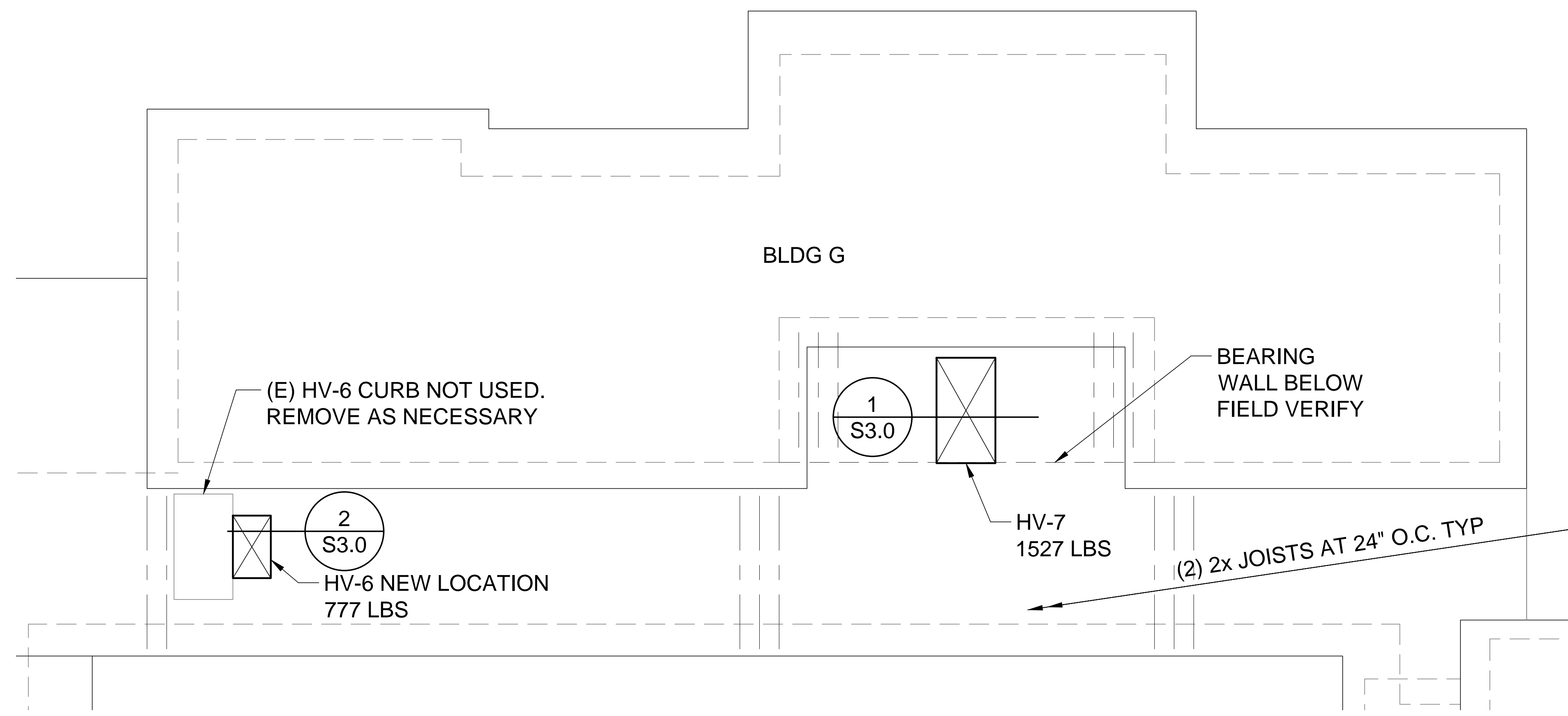
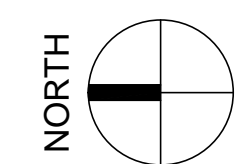
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PARTIAL ROOF PLAN NORTH BUILDING

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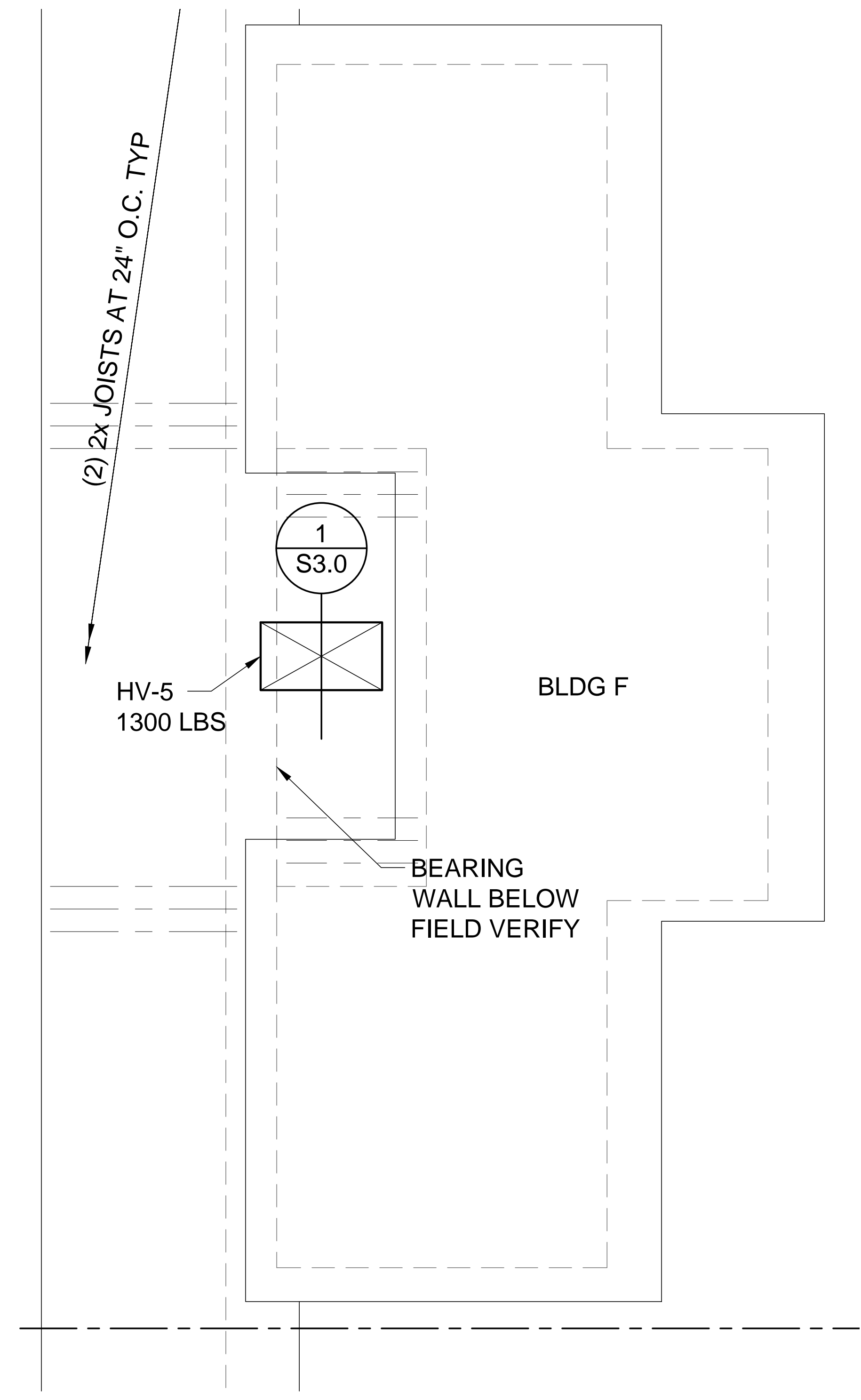
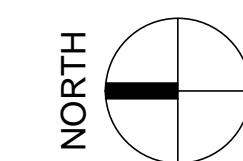
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S2.1



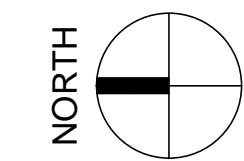
1 PARTIAL ROOF PLAN EAST BUILDING
S2.1 1/8" = 1'-0"



2 PARTIAL ROOF PLAN EAST BUILDING
S2.1 1/8" = 1'-0"



3 PARTIAL ROOF PLAN EAST BUILDING
S2.1 1/8" = 1'-0"



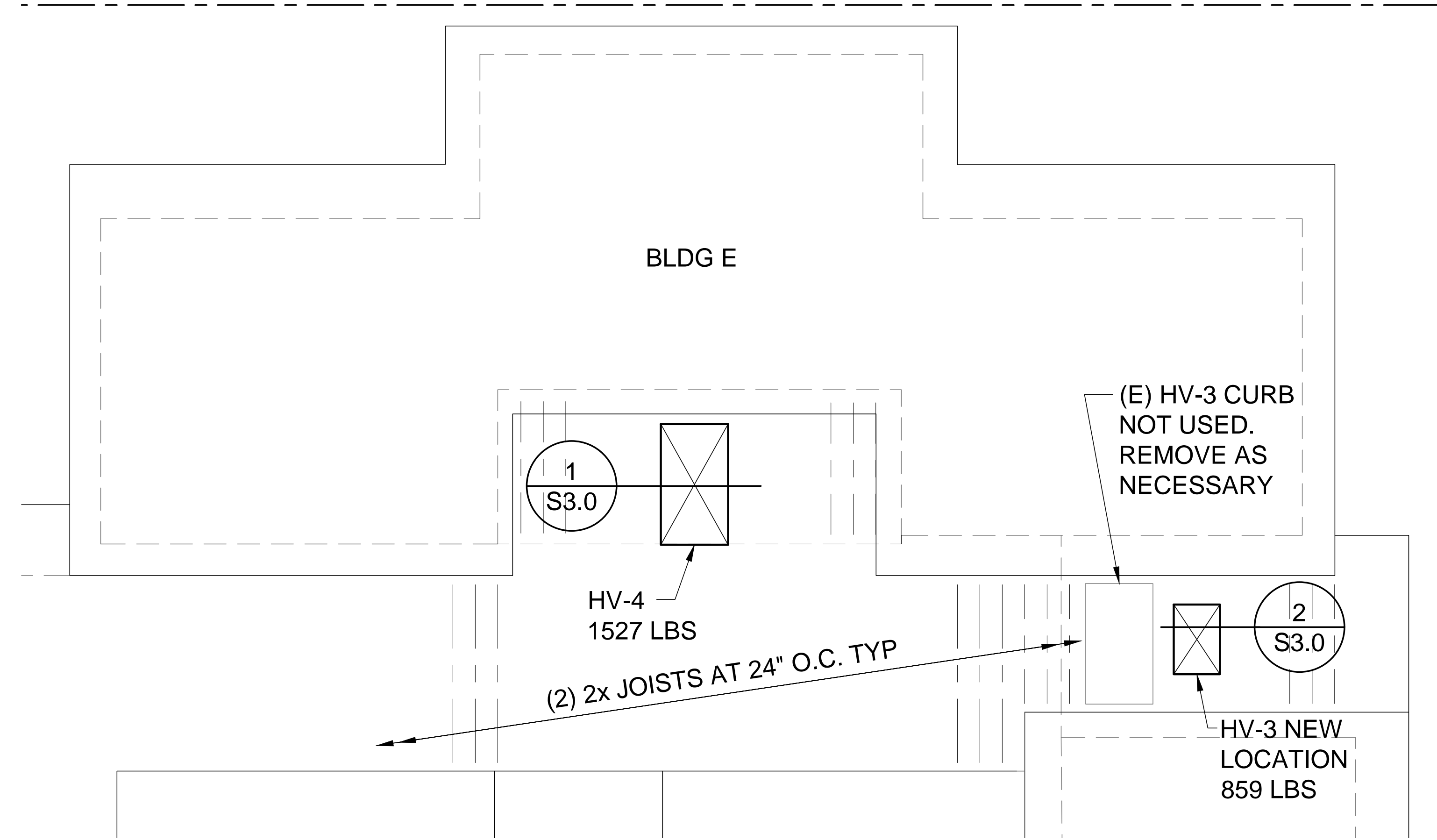


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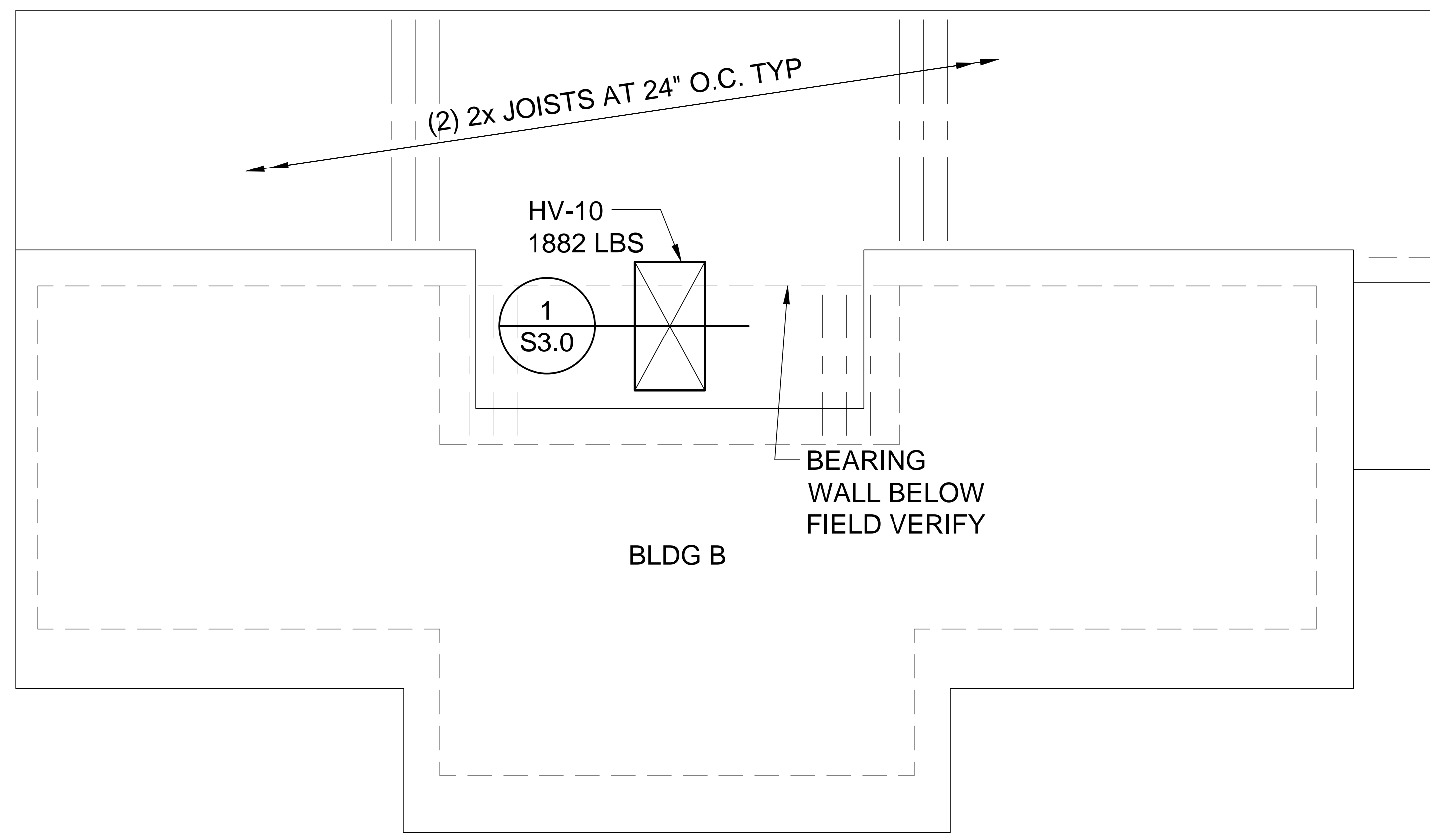
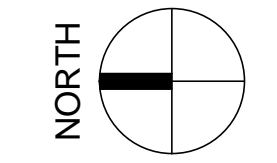
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 PARTIAL ROOF PLAN SOUTH BUILDING

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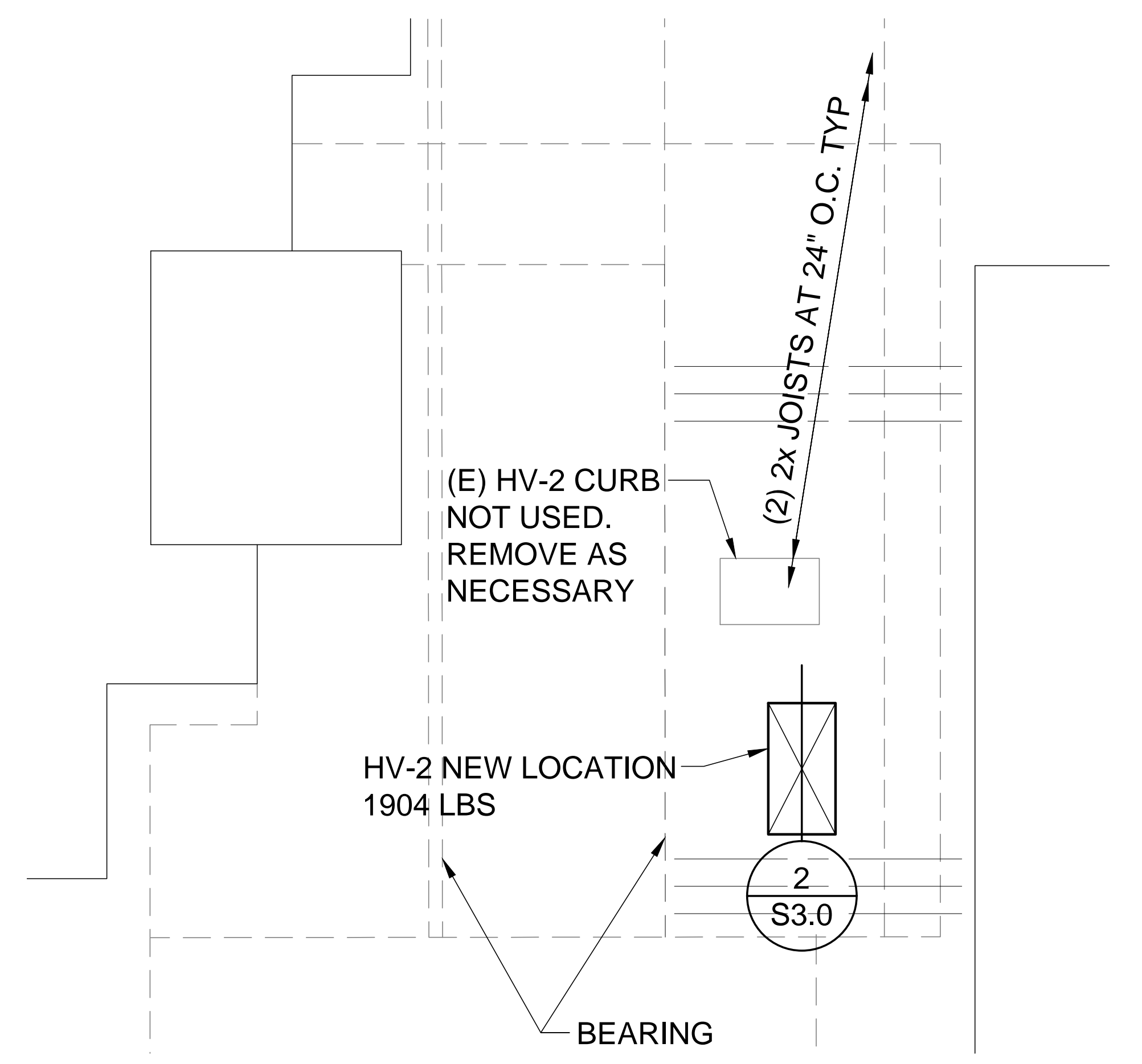
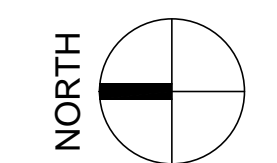
S2.2



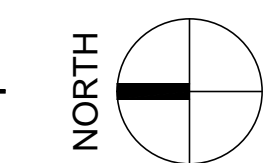
1 PARTIAL ROOF PLAN WEST BUILDING
 S2.2 1/8" = 1'-0"

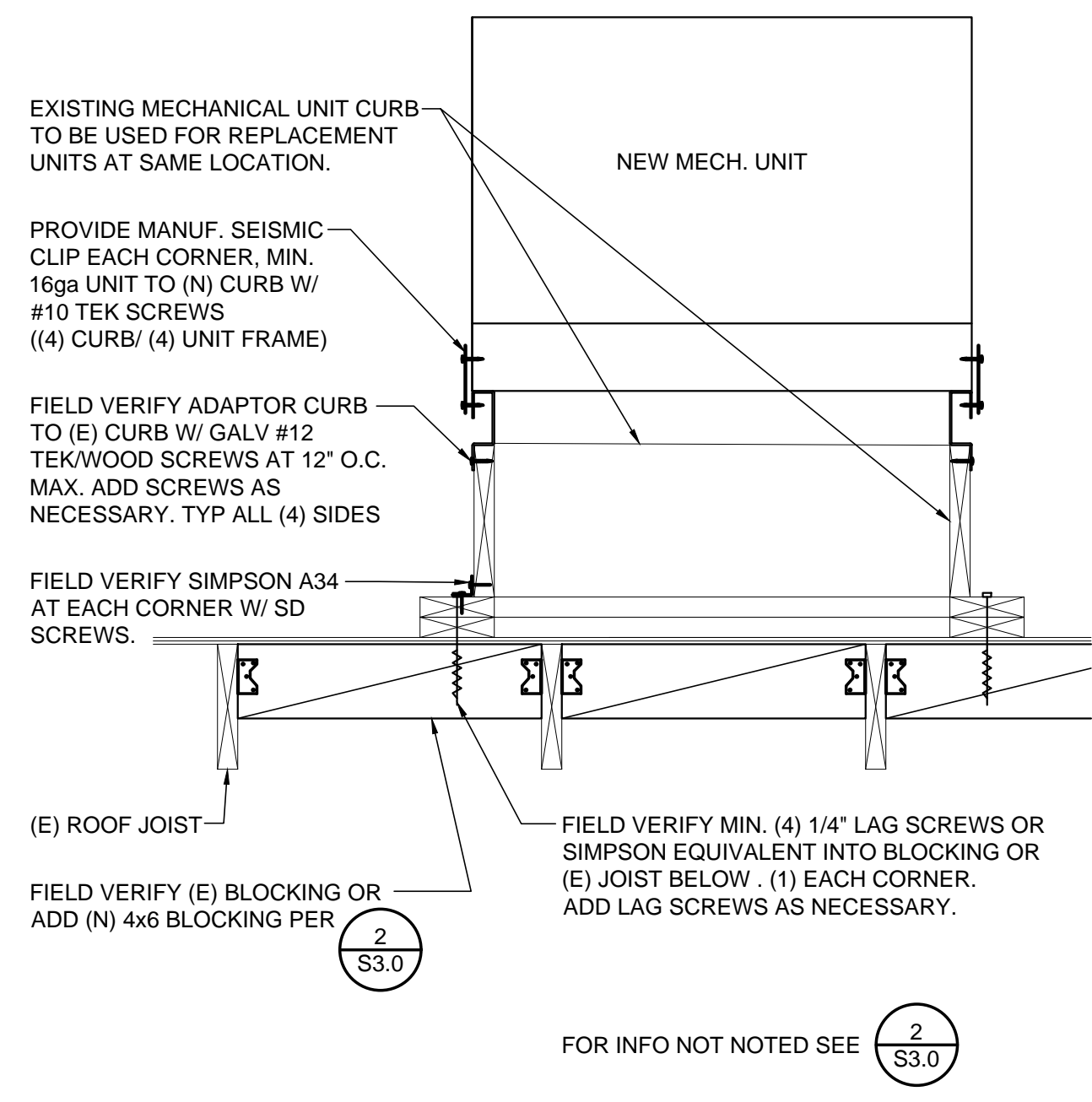


2 PARTIAL ROOF PLAN WEST BUILDING
 S2.2 1/8" = 1'-0"

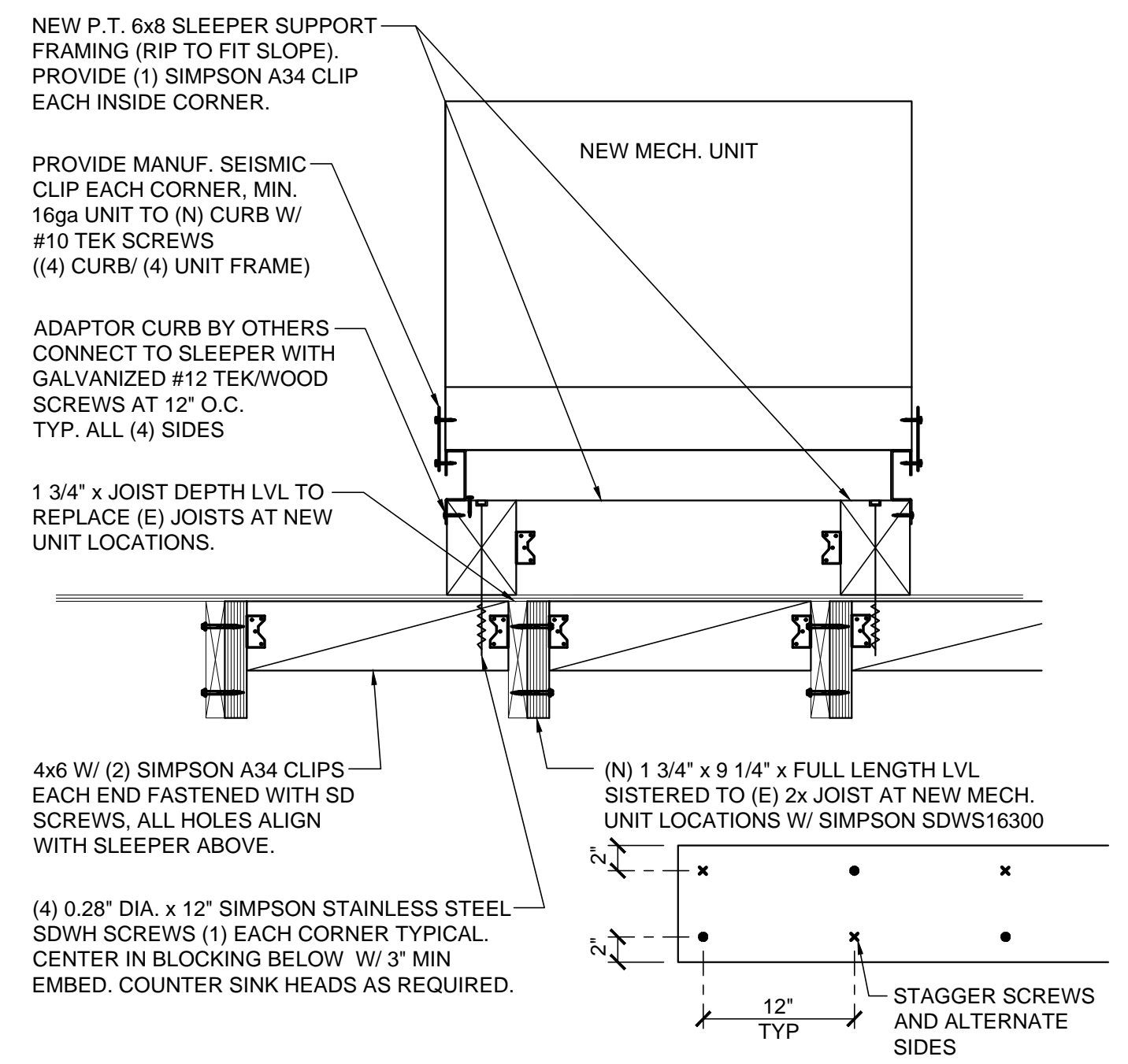


3 PARTIAL ROOF PLAN WEST BUILDING
 S2.2 1/8" = 1'-0"





1 NEW MECH. UNIT AT EXISTING CURB LOCATION
S3.0 1" = 1'-0"



2 NEW MECH. UNIT AT NEW CURB LOCATION
S3.0 1" = 1'-0"



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S3.0