

**King Building  
New Mixed Use Building**  
Cloverdale Blvd., Cloverdale, CA

Architect

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Revisions

No.	Date	Description

Project Number: 2380-06  
Drawn By: Sezen

Designed By: Sezen  
Checked By: Moon

Sheet Title:  
**2nd Floor Shear Plan**

Sheet Number:  
5

S5

Not Used

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Hardy Frames/Panels Notes:

- HF10x24\*** Hardy Panel HF10x24 1-1/8 model on Upper Floor w/ Hardy Frame Bearing Plate below panel and 1-1/8" threaded rods (Fu = 58 ksi, ASTM A36). See note H6 below for upper floor conditions.
- HF10x18** Hardy Panel HF9x24 7/8 model on Upper Floor w/ Hardy Frame Bearing Plate below panel and 7/8" threaded rods (Fu = 58 ksi, ASTM A36). See note H6 below for upper floor conditions.
- align** 7/8" (Fu = 58 ksi, ASTM A36) threaded rod anchor. Standard anchor for both Hardy Panels and Hardy Frames.
- align** 1-1/8" (Fu = 58 ksi, ASTM A36) threaded rod anchor. Heavy anchor for Hardy Panels only.
- align** 7/8" high strength (Fu = 120 ksi, ASTM A449 or equivalent) threaded rod anchor. The anchor is to be used in lieu of the conventional 1-1/8" specified Hardy Panel threaded rod which won't fit into Hardy Frames and Hardy Posts.
- This symbol indicates Hardy Frame/Panel aligned with threaded rod anchor or tie-down strap above.
- H1. Hardy Frame (or Panel) by Simplified Structural Systems (ICC REPORT PFC-5342, 800-754-3030). Refer to details by manufacturer. Contractor to verify required Hardy Frame height in field before ordering. Contact SSE with any questions of fit. Posts and beams are not to be supported by Hardy Frames and Panels. Contractor to contact SSE if plans indicate otherwise.
- H2. For installation guides and other general notes for Hardy Frame/Panel, refer to the sheet H-3.
- H3. For stacked condition in balloon walls, refer to the detail no. 14/H-2.
- H4. For stacked condition in multi-story walls, refer to the detail no. 13/H-2.
- H5. For double top plate connection, refer to the detail no. 26/H-1 or 26/H-2.
- H6. For upper floor Hardy Panel condition with Hardy Post below, refer to detail 9/H-1 for similar condition. For Hardy Panels with 1-1/8" holdown bolts, instead use 7/8" high strength (Fu = 120 ksi, ASTM A449) threaded rod anchors. 1-1/8" holdown bolts will not fit into Hardy Post.
- H7. Screws at bottom connection apply to installations on floor systems or beams and replace anchor bolts as a means of shear transfer.
- H8. Align Hardy Post with Hardy Frame/Panel anchor above.

- 26** When solid shim is used above Hardy Panel/Frame:
- For 12" wide Hardy Panel, use three LTP4 clips.
  - For 18" wide Hardy Panel, use five LTP4 clips.
  - For 24" wide Hardy Panel, use eight LTP4 clips.
  - For 32" wide Hardy Frame, use six LTP4 clips.
  - For 48" wide Hardy Frame, use nine LTP4 clips.
  - For 64" wide Hardy Frame, use thirteen LTP4 clips.
  - For 80" wide Hardy Frame, use sixteen LTP4 clips.

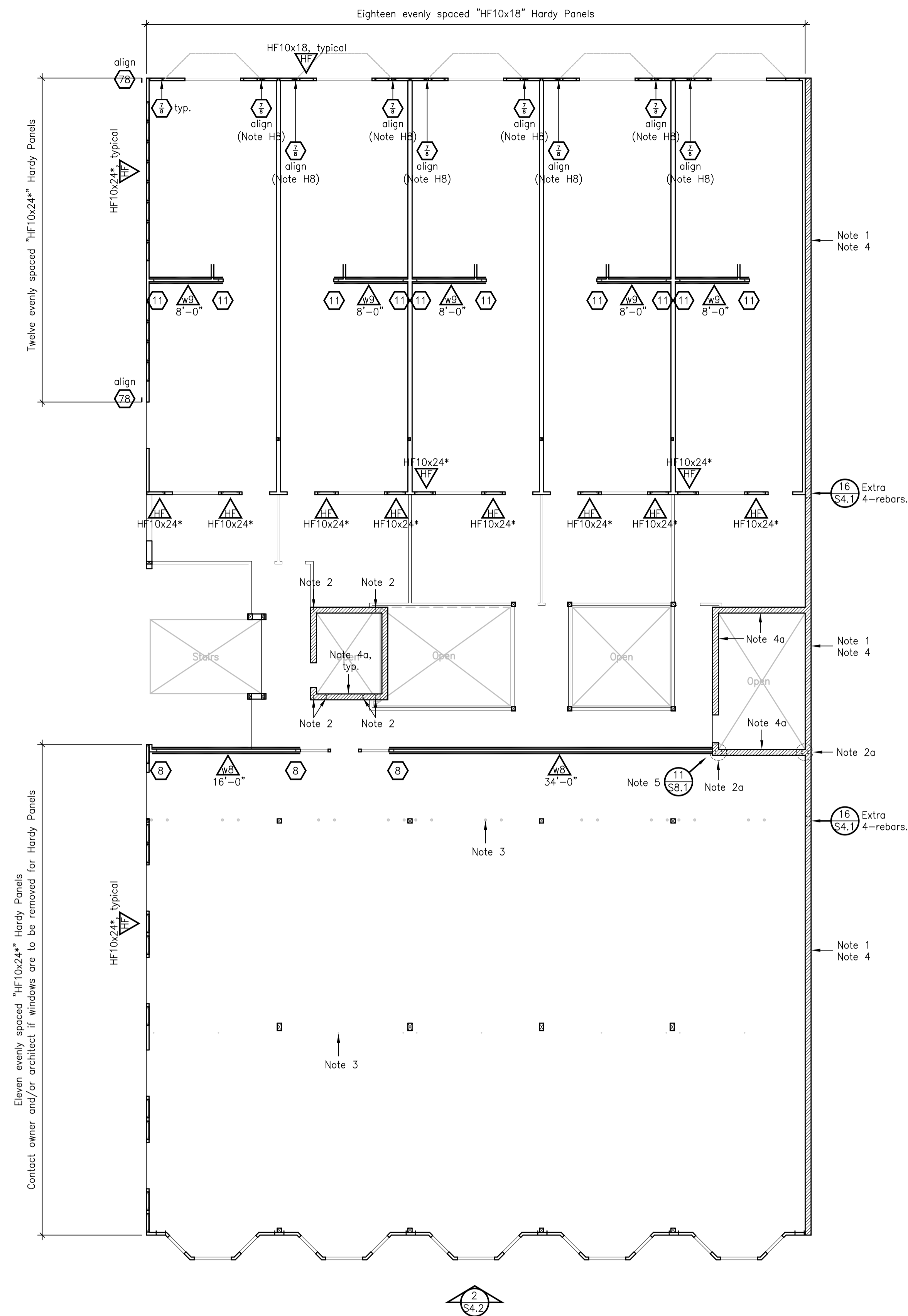
Legend:

- 2nd floor wall.
  - 2nd floor short wall and/or guardrail.
- Masonry walls: #5 verticals with matching dowels at 16" on center, unless noted otherwise on plan. #4 continuous horizontals at 24" on center, unless noted otherwise on plan.
- 2nd floor 8" 1500 psi concrete masonry unit (cmu) wall. Special inspection not required unless noted otherwise on plan.
  - 2nd floor 8" 2500 psi concrete masonry unit (cmu) wall. Special inspection is required.
  - 2nd floor 12" 1500 psi concrete masonry unit (cmu) wall. Special inspection not required unless noted otherwise on plan.

- 11** Plywood shear-wall call-out and length. Refer to SWS located on sheet S1.1 for call-out specifications.
- 11** HHQ11 heavy duty holdown with 4x6 stud minimum. Use 1" lag screw embedded 11-1/2" into beam below. Pre-drill hole for lag screw is required. Refer to detail 5/S5.
- 8** HD08 holdown with 4x4 stud minimum. Use 7/8" lag screw embedded 10" into beam below. Pre-drill hole for lag screw is required. Refer to detail 5/S5.

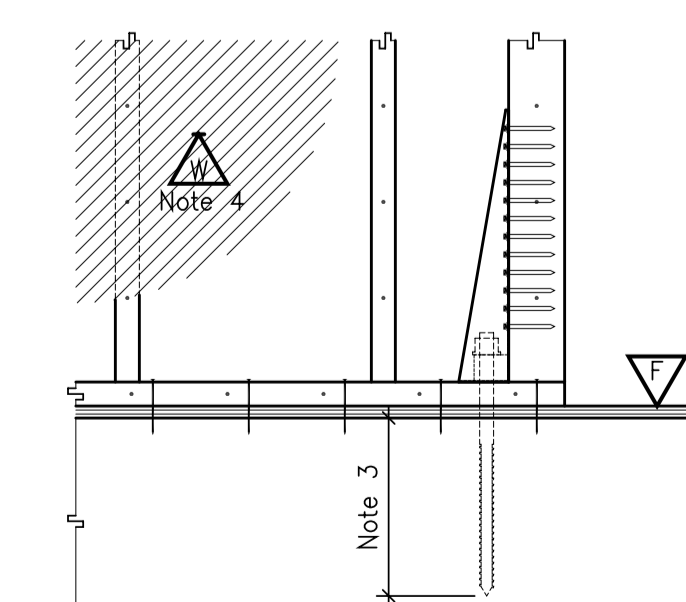
- Post or king post below. All post or king post to be 4x4 typical unless specified otherwise on plan.
- Hardy Frame/Panel, Post or holdown anchor above.

Refer to sheet S4.0 for 2nd floor framing information not shown or stated here.



- Notes:
- Special inspection required for masonry this floor level only where/if specified.
  - Use f'm = 2500 psi concrete masonry units this floor level only where/if specified.
  - Two #6 full height vertical rebar. Extend rebar 36" minimum beyond floor above. Provide matching dowels into wall below, unless larger reinforcing is specified.
  - Four #8 full height vertical rebar. Extend rebar 48" minimum beyond floor above. Provide matching dowels into wall below, unless larger reinforcing is specified.
  - Hardy Frame/Panel or Post anchor above.
  - 8" nominal concrete masonry units with #6 vertical reinforcing at 8" on center staggered, refer to detail 4/S3.
  - 8" nominal concrete masonry units.
  - Use 4x6 pressure treated post with four evenly spaced 5/8" anchor bolts to masonry.

2nd Shear-Wall Plan  
Scale: 1/8" = 1'-0"



- Notes:
- Floor beam below shear-wall per plan.
  - Holdown per plan. Use appropriately sized lag screw as shown.
  - Required lag screw penetration depth per plan. Pre-drill hole is required. Contact SSE if required depth exceeds beam depth.
  - Shear-wall per plan.