

# GENERAL NOTES

- WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
    - THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUBC), 2006 EDITION
    - THE INTERNATIONAL BUILDING CODE (IBC), 2006 EDITION AS AMENDED BY THE VUBC.
    - ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
  - DESIGN LOADS:
    - BUILDING CLASSIFICATION CATEGORY: I
    - GROUND SNOW,  $P_g$ : 30 PSF\*
    - FLAT ROOF SNOW LOAD,  $P_f$ : 20 PSF\*
    - SNOW EXPOSURE FACTOR,  $C_e$ : 0.4
    - SNOW THERMAL FACTOR,  $C_t$ : 1.2
    - SNOW IMPORTANCE FACTOR,  $I$ : 0.8
    - WIND SPEED: 110 MPH\*
    - EXPOSURE: C
    - IMPORTANCE FACTOR,  $I$ : 0.87
    - INTERNAL PRESSURE COEFFICIENT: ±0.18
    - COMPONENTS AND CLADDINGS (A = 10 SOFT):
      - ROOF WIND LOADINGS:
 

ZONE 1	+12.5, -21.8 PSF*
ZONE 2	+12.5, -26.5 PSF*
ZONE 3	+12.5, -25.0 PSF*
  - LIVE LOADS:
 

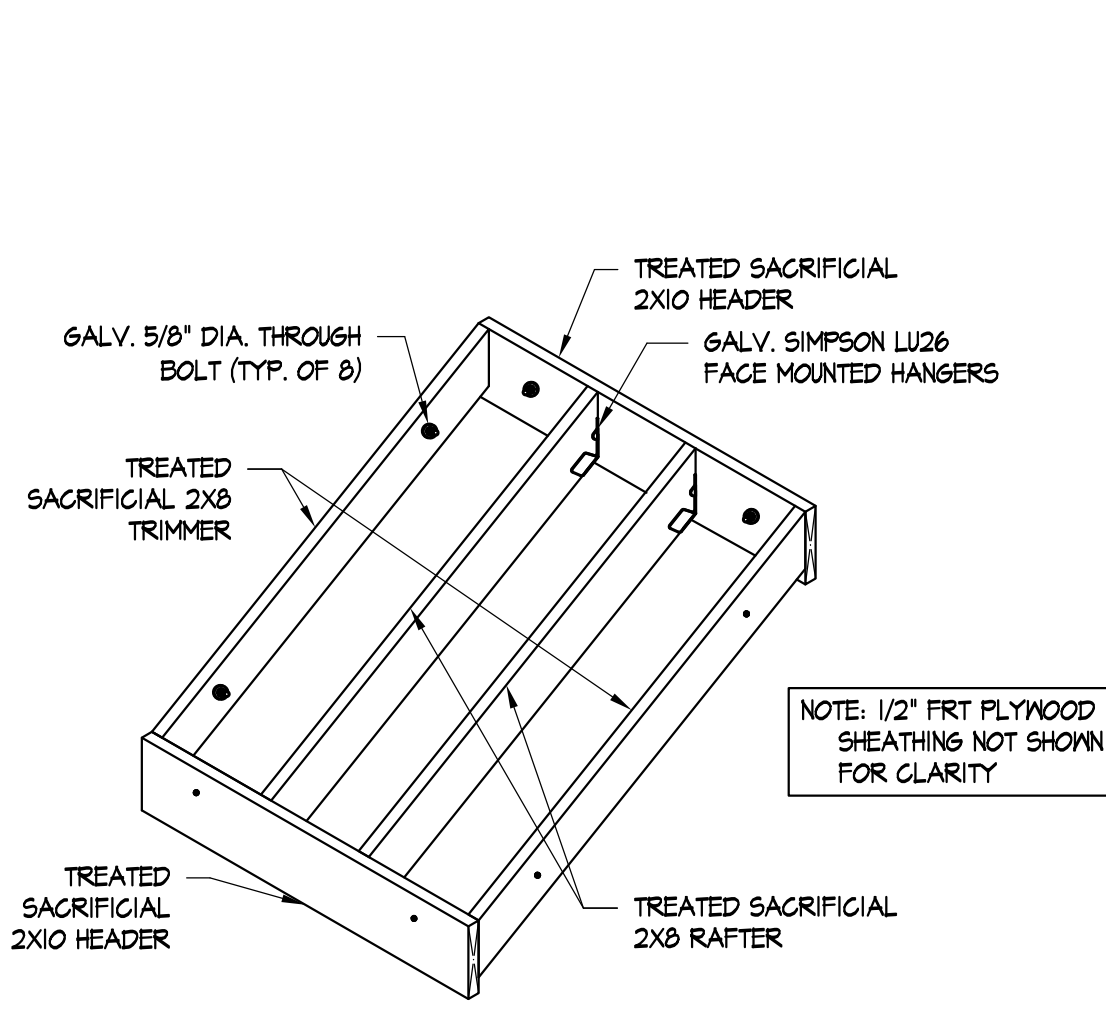
SLOPED ROOF	UNIFORM
	100 PSF
- SEISMIC DESIGN:
 

SEISMIC IMPORTANCE FACTOR, $I$	1.0
MAPPED SPECTRAL RESPONSE ACCELERATION $S_a$ , 0.42*	
MAPPED SPECTRAL RESPONSE ACCELERATION $S_1$ , 0.115*	
SITE SOIL CLASS	D*
SPECTRAL COEFFICIENT, $S_{ds}$	0.448*
SPECTRAL COEFFICIENT, $S_{d1}$	0.184*
SEISMIC DESIGN CATEGORY	A*
BASIC STRUCTURAL SYSTEM	BEAR WALL SYSTEM (TABLE 1617.6.2)
SEISMIC FORCE RESISTING SYSTEM	BEAR WALL SYSTEM (TABLE 1617.6.2)
DESIGN BASE SHEAR	0.1 KIPS*
SEISMIC RESPONSE COEFFICIENT $C_s$	0.128*
RESPONSE MODIFICATION FACTOR $R$	3.5
SEISMIC ANALYSIS	EQUIV. LATERAL FORCE PROCEDURE

- \*VERIFY WITH LOCAL JURISDICTION
- THE CONTRACTOR SHALL VERIFY DIMENSIONS IN FIELD PRIOR TO FABRICATION OF MEMBERS AND COMMENCING WORK.
  - PROVIDE TEMPORARY BRACING AS REQUIRED TO RESIST WIND AND OTHER LOADS DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, EQUIPMENT, ADJACENT GROUNDS AND PLANTS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT NO ADDITIONAL COSTS TO THE OWNER, ANY ITEMS DAMAGED DURING THE CONSTRUCTION.
  - METAL PITCH ROOF PROP AND VERTICAL VENTILATION SIMULATOR ARE DESIGNED TO BE A STAND ALONE PROP AND MAY BE PLACED DIRECTLY ADJACENT TO, BUT NOT ON, THE BURN BUILDING PROP.

- COLD FORMED STEEL FRAMING**
- COLD FORMED STEEL MEMBERS SHALL CONFORM TO THE LATEST EDITION OF AISI SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS
  - 18 GAGE AND THINNER COLD FORMED STEEL MEMBERS SHALL BE 33 KSI, ALL THICKER MEMBERS SHALL BE 50 KSI
  - COLD FORMED STEEL FRAMING MEMBERS SHALL BE HOT-DIP GALVANIZED COLD-FORMED STEEL STUDS, RUNNERS, AND BRACING OF TYPES AND SIZES AS REQUIRED AND MANUFACTURED BY THE UNITED STATES GYPSUM COMPANY OR APPROVED EQUIVALENT, HORIZONTAL BRACINGS OF STUD WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND AT 5'-0" ON CENTER MAX SPACING.

- WOOD**
- ALL WOOD IN CONTACT WITH EXTERIOR ELEMENTS, CONCRETE, OR MASONRY SHALL BE TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH ANPA STANDARDS.
  - FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL WITH A 6005 COATING, STAINLESS STEEL, SILICON BRONZE, OR COPPER.
  - ALL PLYWOOD SHALL BE MANUFACTURED AND GRADED IN ACCORDANCE WITH U.S. DEPARTMENT OF COMMERCE (DOC) PRODUCT STANDARD PS 1-45 FOR PLYWOOD CONSTRUCTION FROM GROUP 1 SPECIES. EACH PLYWOOD SHEET SHALL BEAR THE "APA" GRADE TRADEMARK.
  - ALL PLYWOOD SHALL BE FIRE RETARDANT TREATED (FRT) AND SHALL BE LABELED IN ACCORDANCE WITH SECTION 2303.2.1 OF THE INTERNATIONAL BUILDING CODE.
  - PLYWOOD ROOF SHEATHING SHALL CONFORM TO APA C-D RATED EXTERIOR 1/2" MINIMUM THICKNESS PLYWOOD SHEATHING UNLESS NOTED OTHERWISE. PROVIDE APPROPRIATE SPACING BETWEEN BUTT JOINTS. USE OF "H" CLIPS REQUIRED ON ROOF SHEATHING.
  - THE FACE GRAIN OF THE PLYWOOD SHALL BE LAID AT RIGHT ANGLES TO THE JOISTS AND RAFTERS AND PARALLEL TO WALL STUDS.
  - ALL PLYWOOD END JOINTS SHALL BE STAGGERED AND SHALL BE LOCATED ALONG THE CENTER LINES OF THE FRAMING MEMBERS.
  - NAILS SHALL BE PLACED 3/8" MINIMUM FROM THE EDGE OF THE PLYWOOD SHEETS. THE MINIMUM NAIL PENETRATION INTO FRAMING MEMBERS SHALL BE 1 3/8" FOR 8D NAILS AND 1 1/2" FOR 10D NAILS.

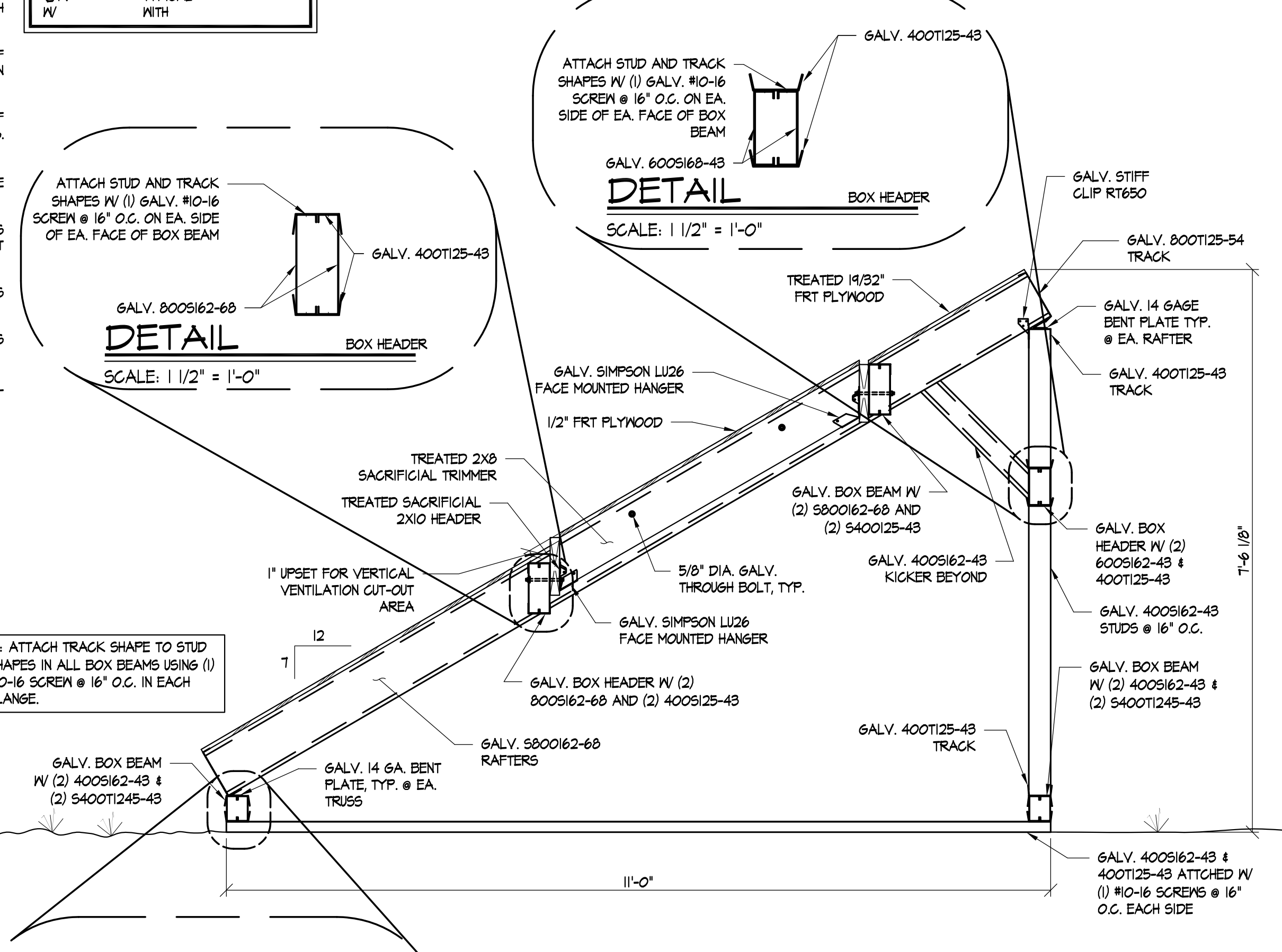


- DETAIL** VERTICAL VENTILATION SIMULATOR CHOP OUT INSERT  
SCALE: NONE
- NOTES:
- CHOP OUT INSERT MAY BE REMOVED TO FACILITATE EASY REPLACEMENT OF DAMAGED HEADERS, TRIMMERS, AND PLYWOOD SHEATHING.
  - MULTIPLE CHOP OUT INSERTS MAY BE CONSTRUCTED, FOLLOWING A VERTICAL VENTILATION TEST, THE USED CHOP OUT INSERT MAY BE SWAPPED OUT WITH THE ADDITIONAL CHOP OUT INSERT TO REDUCE TIME BETWEEN VERTICAL VENTILATION TESTS.

ABBREVIATIONS	
BOTT	BOTTOM
DIA.	DIAMETER
GALV.	GALVANIZED
INFO	INFORMATION
MAX	MAXIMUM
MIN	MINIMUM
O.C.	ON CENTER
TYP.	TYPICAL
W/	WITH

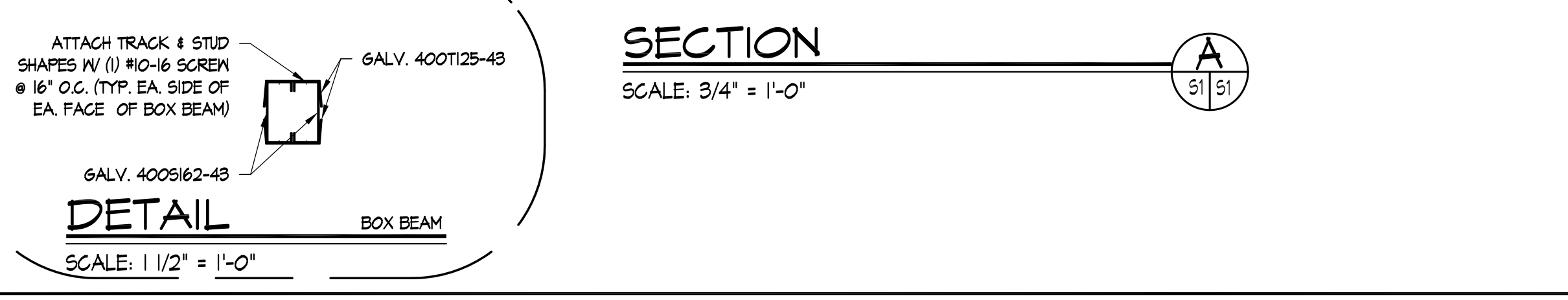
## BASE FRAMING PLAN

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



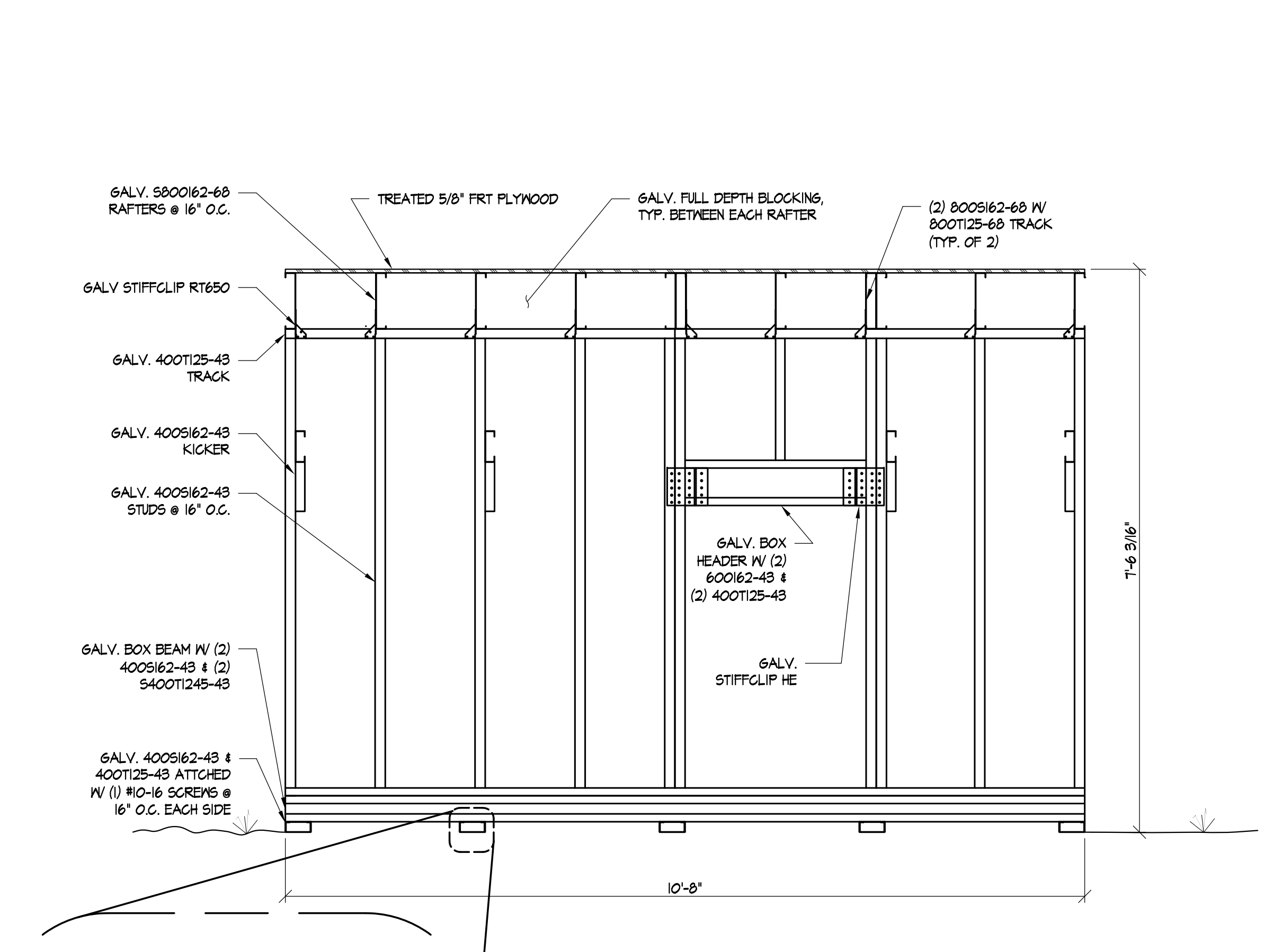
## SECTION

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



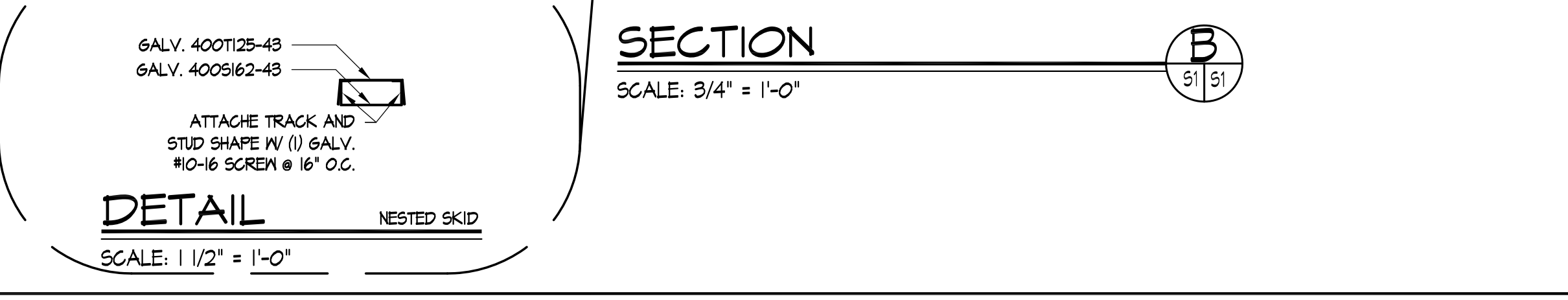
## ROOF FRAMING PLAN

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



## SECTION

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



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GENERAL NOTES, BASE & ROOF FRAMING PLAN, SECTIONS

**PITCHED ROOF PROP & VERTICAL VENTILATION SIMULATOR**  
VA. DEPT. OF FIRE PROGRAMS  
COMMONWEALTH OF VIRGINIA

Project #: VAC0256  
Date: 7/28/10  
Drawn by: AJA  
Reviewed by: MAM

Professional Engineer  
MICHAEL A. MATTHEWS  
No. 012810  
PROFESSIONAL ENGINEER  
COMMONWEALTH OF VIRGINIA

The Structures Group, Inc.  
1200 Old Colony Lane • Williamsburg, VA 23185  
(757)220-0469 • Fax (757)220-1546