



This work was performed by me or under my supervision and construction of this project will be under my observation (observation of construction as defined in section 18-15-2 of the rules and regulations of the Board of Professional Engineers, Architects and Surveyors of the State of Hawaii).  
Date: 4/20/09

PERMIT SET	1/19/09

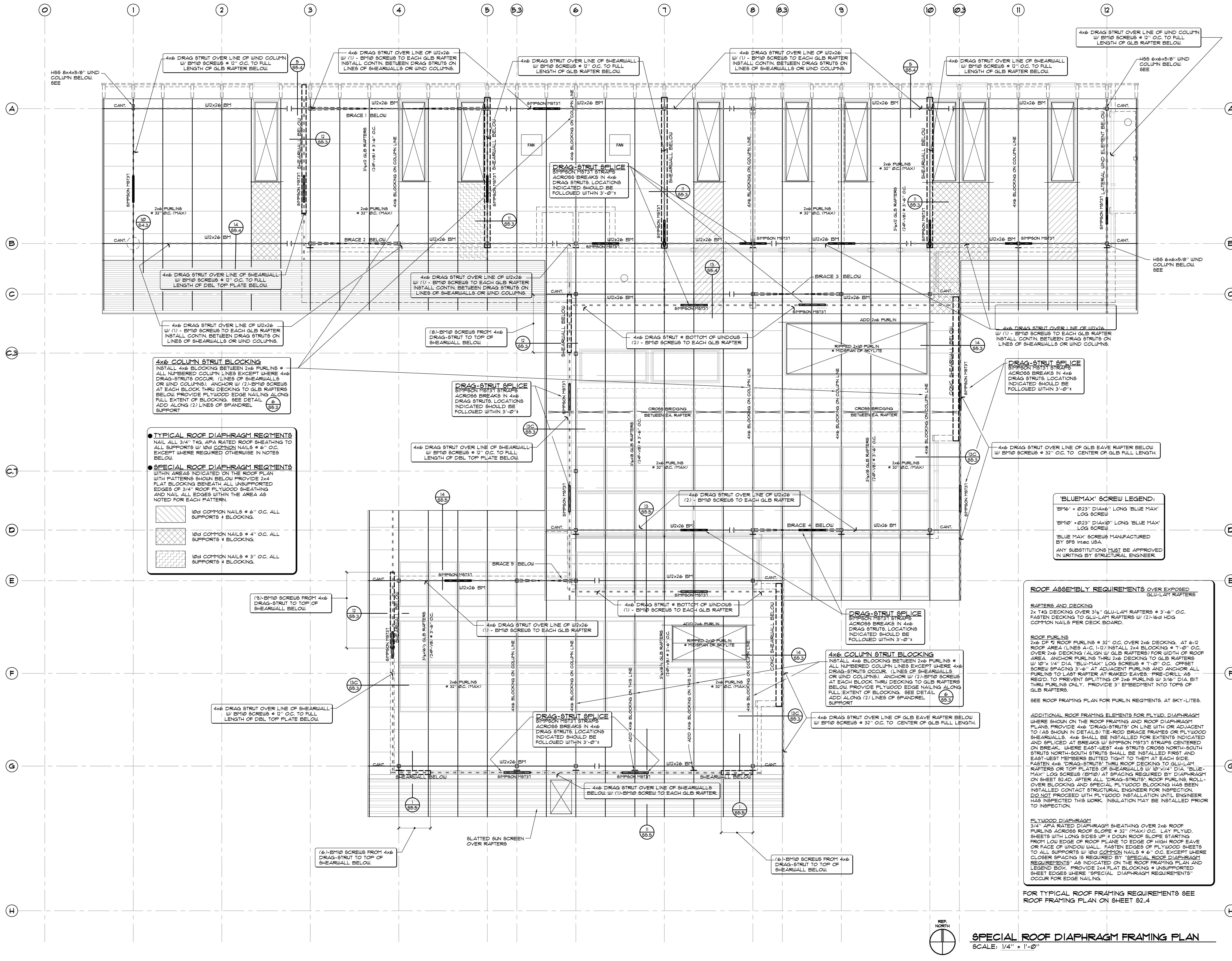
SPECIAL ROOF  
DAIPHHRAM FRAMING  
PLAN

PERMIT SET 01-19-09

Drawn by: WTV, RD, KC Job Number: WVA-28012  
Checked by: WTV, RD, KC Scale: AS NOTED

PERMIT SET Date: 01/19/2009




S  
2.4-D



**4x6 COLUMN STRUT BLOCKING**  
INSTALL 4x6 BLOCKING BETWEEN 2x6 FURLINS & ALL NUMBERED COLUMN LINES EXCEPT WHERE 4x6 DRAG-STRUTS OCCUR. (LINES OF SHEARWALLS OR WIND COLUMNS). ANCHOR W/ (2)-BM10 SCREWS AT EACH BLOCK THRU DECKING TO GLB RAFTERS BELOW. PROVIDE FLYWOOD EDGE NAILING ALONG FULL EXTENT OF BLOCKING. SEE DETAIL ADD ALONG (2) LINES OF SPANDREL SUPPORT.

**TYPICAL ROOF DAIHRAM REQMENTS**  
NAIL ALL 3/4" TAG, APA RATED ROOF SHEATHING TO ALL SUPPORTS W/ 10d COMMON NAILS @ 6" O.C. EXCEPT WHERE REQUIRED OTHERWISE IN NOTES BELOW.

**SPECIAL ROOF DAIHRAM REQMENTS**  
WITHIN AREAS INDICATED ON THE ROOF PLAN WITH PATTERNS SHOWN BELOW PROVIDE 2x4 FLAT BLOCKING BENEATH ALL UNSUPPORTED EDGES OF 3/4" ROOF FLYWOOD SHEATHING AND NAIL ALL EDGES WITHIN THE AREA AS NOTED FOR EACH PATTERN.

-  10d COMMON NAILS @ 6" O.C. ALL SUPPORTS & BLOCKING.
-  10d COMMON NAILS @ 4" O.C. ALL SUPPORTS & BLOCKING.
-  10d COMMON NAILS @ 3" O.C. ALL SUPPORTS & BLOCKING.

**ROOF ASSEMBLY REQUIREMENTS OVER EXPOSED GLU-LAM RAFTERS**

**RAFTERS AND DECKING**  
2x4 TAG DECKING OVER 3/4" GLU-LAM RAFTERS @ 3'-6" O.C. FASTEN DECKING TO GLU-LAM RAFTERS W/ (2)-1/8" HDG COMMON NAILS PER DECK BOARD.

**ROOF FURLINS**  
2x6 DF FURLINS @ 32" O.C. OVER 2x6 DECKING. AT 6/12 ROOF AREA (LINES A-C, 1-12) INSTALL 2x4 BLOCKING @ 1'-0" O.C. OVER 2x6 DECKING (ALIGN W/ GLB RAFTERS) FOR WIDTH OF ROOF AREA. ANCHOR FURLINS THRU 2x6 DECKING TO GLB RAFTERS W/ 10d 1/4" DIA. BULLHORN LOG SCREWS @ 1'-0" O.C. OFFSET SCREW SPACING 3'-6" AT ADJACENT FURLINS AND ANCHOR ALL FURLINS TO LAST RAFTER AT RAKED EAVES. PRE-DRILL AS REQ'D TO PREVENT SPLITTING OF 2x6 FURLINS W/ 3/16" DIA. BIT THRU FURLINS ONLY. PROVIDE 3" EMBEDMENT INTO TOPS OF GLB RAFTERS.

SEE ROOF FRAMING PLAN FOR FURLIN REQMENTS AT SKY-LITES.

**ADDITIONAL ROOF FRAMING ELEMENTS FOR FLYWD. DAIHRAM**  
WHERE SHOWN ON THE ROOF FRAMING AND ROOF DAIHRAM PLANS PROVIDE 4x6 DRAG-STRUTS ON LINE WITH OR ADJACENT TO (AS SHOWN IN DETAILS) THE ROOF BRACE FRAMES OR FLYWOOD SHEARWALLS. 4x6 SHALL BE INSTALLED FOR EXTENTS INDICATED AND SPICED AT BREAKS W/ SIMPSON M5731 STRAPS CENTERED ON BREAK. WHERE EAST-WEST 4x6 STRUTS CROSS NORTH-SOUTH STRUTS NORTH-SOUTH STRUTS SHALL BE INSTALLED FIRST AND EAST-WEST MEMBERS BUTTED TIGHT TO THEM AT EACH SIDE. FASTEN 4x6 DRAG-STRUTS THRU ROOF DECKING TO GLU-LAM RAFTERS OR TOP PLATES OF SHEARWALLS W/ 10d 1/4" DIA. 'BLUE-MAX' LOG SCREWS (BM10) AT SPACING REQUIRED BY DAIHRAM ON SHEET S2.4D. AFTER ALL DRAG-STRUTS/ ROOF FURLINS ROLL-OVER BLOCKING AND SPECIAL FLYWOOD BLOCKING HAS BEEN INSTALLED CONTACT STRUCTURAL ENGINEER FOR INSPECTION. DO NOT PROCEED WITH FLYWOOD INSTALLATION UNTIL ENGINEER HAS INSPECTED THIS WORK. INSULATION MAY BE INSTALLED PRIOR TO INSPECTION.

**FLYWOOD DAIHRAM**  
3/4" APA RATED DAIHRAM SHEATHING OVER 2x6 ROOF FURLINS ACROSS ROOF SLOPE @ 32" (MAX) O.C. LAY FLYWD. SHEETS WITH LONG SIDES UP & DOWN ROOF SLOPE STARTING FROM LOW EDGE OF ROOF PLAN TO EDGE OF HIGH ROOF EAVE OR FACE OF WINDOW WALL. FASTEN EDGES OF FLYWOOD SHEETS TO ALL SUPPORTS W/ 10d COMMON NAILS @ 6" O.C. EXCEPT WHERE CLOSER SPACING IS REQUIRED BY 'SPECIAL ROOF DAIHRAM REQUIREMENTS' AS INDICATED ON THE ROOF FRAMING PLAN AND LEGEND BOX. PROVIDE 2x4 FLAT BLOCKING @ UNSUPPORTED SHEET EDGES WHERE 'SPECIAL DAIHRAM REQUIREMENTS' OCCUR FOR EDGE NAILING.

FOR TYPICAL ROOF FRAMING REQUIREMENTS SEE ROOF FRAMING PLAN ON SHEET S2.4

SPECIAL ROOF DAIHRAM FRAMING PLAN  
SCALE: 1/4" = 1'-0"

