



## 24-FT SPAN, 3 IN 12 PITCH, NAILED TRUSSED RAFTER WITH 3/2 FT OVERHANG 5. B J NAILS FROM BACK I. 84 NAIL FROM FRONTS 1"X6" & 2"X 4" 21 1/2" IO, I2 J NAILS FROM FRONT 2 5/8" IO. B I NAILS FROM BACK 7, 12 J NAILS BACK SIDE OF ASSEMBLY 1"X 6" DIAGONAL 2"X4" DIAGONAL "X 6" COLLAR 2\*x6" 2"X4" DIAGONALS RAFTER F RAFTERS DO NOT FIT TIGHTLY IF RAFTERS ARE IN GOOD TO BE IN GOOD BEARING TO PROVIDE 1" x 6" BEARING OPTIMUM RIGIDITY CDIAGONAL. - OVERHANG RIDGE JOINT LOAD AND STRESS DIAGRAMS RAFTER DIAGONAL (DESIGNS AS INFLUENCED BY GOOD OR POOR WORKMANSHIP) JOINT (FROM BACK OF ASSEMBLY) 12'- 3/8" ---2"X6" RAFTER 15/16 I" X 6" DIAGONAL H6 5/16 -2005 \_ ---DEAD LOAD AND LIVE LOAD ON ROOF: 22 LB./SQ. FT. ++ 4 5/8" TRUSSED RAFTERS SPACED 4'-0" ON CENTER I"X 6" DIAG. LUMBER: Nº1 SOUTHERN PINE OR DOUGLAS FIR C= 1200 P.S.I. COMPRESSION PARALLEL TO GRAIN F= 1450 P.S.I. MODULUS OF RUPTURE 3 7/8 + 2×4" DIAG E = 1600,000 P.S.I. MODULUS OF ELASTICITY FROM RIDGE 2" X4" DIAGONALS TO BE IN GOOD CAMBER: 3/4" AT CENTER SPLICE TO TOP OF BEARING TO PROVIDE OPTIMUM REQUIRED 14, 12 J NAILS USE 14 TO 18, 12 4 N HEEL JOINT DIAGONAL 2" X 4" 7 CHORD RAFTER FRONT VIEW OF ASSEMBLY CHORD - DIAGONAL JOINT 1/8" 14 TO 17, 12 4 NAILS 7, 12 J NAILS I"X4" SPLICE PLATES ON BOTH SIDES BILL OF MATERIALS 24'-0"\_ OUTSIDE TO OUTSIDE OF PLATE RAFTERS 2 PCS. 2"X6"X18 NOTES: CHORDS 2 PCS. 2" X 4" X 12" I" X6" SPLICE PLATES DIAGONALS 2 PCS, I" X 6"X IO" ON BOTH SIDES USE HELICALLY THREADED NAILS 1 PCS. 2"X 4"X 6" COOPERATIVE EXTENSION WORK IN FOR PERMANENTLY TIGHT, RIGID JOINTS SPLICES 4 PCS. I" x 4"x 3" AGRICULTURE AND HOME ECONOMICS THROUGHOUT STRUCTURE 16, 12 J NAILS 3 PCS. I" X 6"X 3" DEPARTMENT OF AGRICULTURAL ENGINEERING USE HARDENED NAILS IN DRY SOUTHERN PINE UNIVERSITY OF MARYLAND BRIGHT HARDENED USE TEMPLATES FOR ALL NAILS TO ASSURE 2 X 4 AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING 140 PCS. " 12 4 3 1/4" X.148" 3 L/4" X.135" MAXIMUM EFFICIENCY AND EFFECTIVENESS TCHORD 38 PCS, - 8 4 2 1/2"X.135" 2 1/2"X.120" DRIVE ALL NAILS FROM FRONT EXCEPT HORSE BARN-BSTALL THOSE SHOWN AS (O) '67 EX. 6 0 10 SHEET 3 OF 3 CENTER-SPLICE JOINT