NOTE 1:

IN SOME AREAS IT MIGHT BE DESIRABLE TO CLOSE IN BETWEEN THE EXTERIOR SIDING AND THE GIRDER ON THE NORTH AND WEST EXPOSURES

2" X 6" GIRDER SUPPORT
2" X 6" T&B KICKER PANEL
2" X 6" T&B TREATED
2" X 6" NAILING POST
2" X 6" RAFTERS 2" O.C. 24'-0" LONG
2" X 4" SHEATHING 2'-0" O.C.
2" X 8" GIRDERS
1 X 6 X 5' COLLAR
1 X 3 BRIDGING
LADDER X 3/4" RAILS & 2 X 3 RUNGS
COMMERCIAL STALL GUARD
2" X 10" - 14" I-JOISTS 2" O.C.
8' X 18" DIAMETER CONCRETE PADS

SECTION A-A
SCALE 1/8" = 1'-0"

NOTE: ALL POSTS TO BE PRESSURE-TREATED WITH PRESERVATIVE TO A RETENTION OF 8 POUNDS PER CUBIC FOOT.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS
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HORSE BARN: 17 STALL
VA. '67 EX. 6011 SHEET 1 OF 3
36-FT SPAN, 5 IN 12 PITCH, NAILED TRUSSED RAFTER (NO CEILING) SPACED 4 FT. ON CENTER

LOAD AND STRESS DIAGRAMS

DEAD LOAD & LIVE LOAD ON ROOF: 40 LB/50 FT.
TRUSSED RAFTERS SPACED 4'-0" O.C.
LUMBER #1 SOUTHERN PINE OR DOUGLAS FIR
C 135 PSI COMPRESSION PARALLEL TO GRAIN
F 1200 PSI MODULUS OF Rupture
E 1500000 PSI MODULUS OF ELASTICITY
CAMBER 5/8" AT CENTER SPlice

HEEL JOINT
WITH 50, 12d NAILS

CENTER-SPICE JOINT
WITH 40, 12d NAILS

BILL OF MATERIALS
RAFTERS 2 PCS. 2"x6"x20'-0"
LOWER CHORD 2 PCS. 2"x4"x17'-4 5/8"
DIAGONALS 2 PCS. 2"x4"x14'-4"
SPICES 2 PCS. 1"x6"x3'-6"
GUSSETS 2 PCS. 1"x6"x2'-7 1/4"
NAILS 230-270 PCS. 12d 3 1/4"x0.148" (44 LBS)
OR HARDENED
230-270 PCS. 12d 3 1/4"x0.135" (57 LBS)

NOTES:
USE HELICALLY THREADED NAILS FOR
PERMANENTLY TIGHT JOINTS THROUGHOUT
STRUCTURE
USE HARDENED NAILS IN DRY SOUTHERN PINE
DRIVE ALL NAILS FROM FRONT EXCEPT
THOSE SHOWN AS (O)
USE TEMPLATES FOR LOCATING ALL NAILS
TO ASSURE MAXIMUM EFFICIENCY AND
EFFECTIVENESS