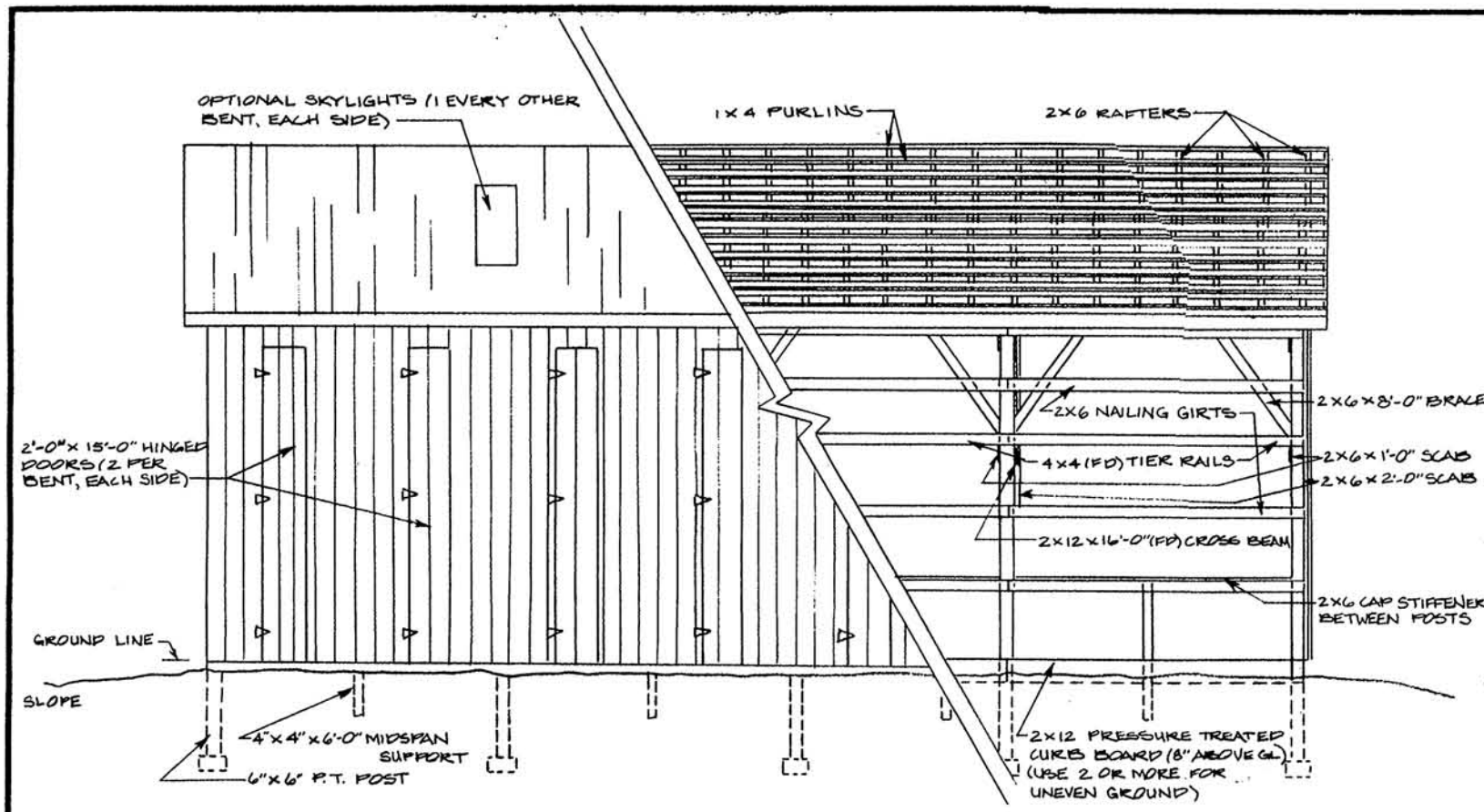
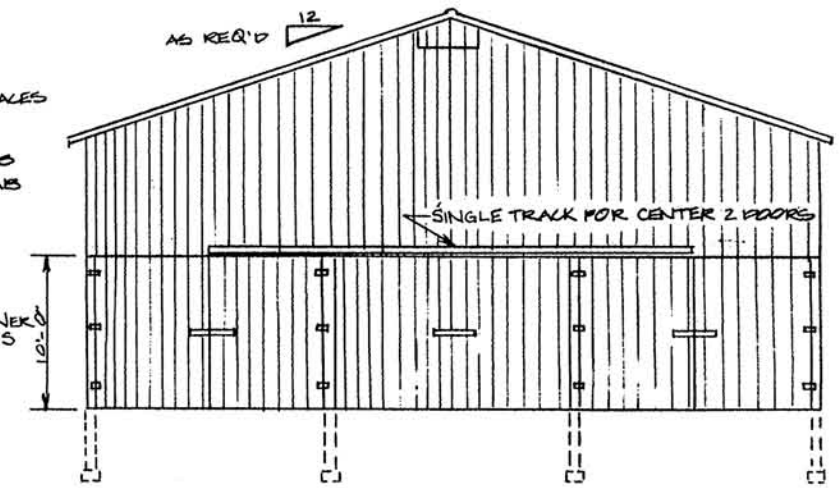


SIDE ELEVATION

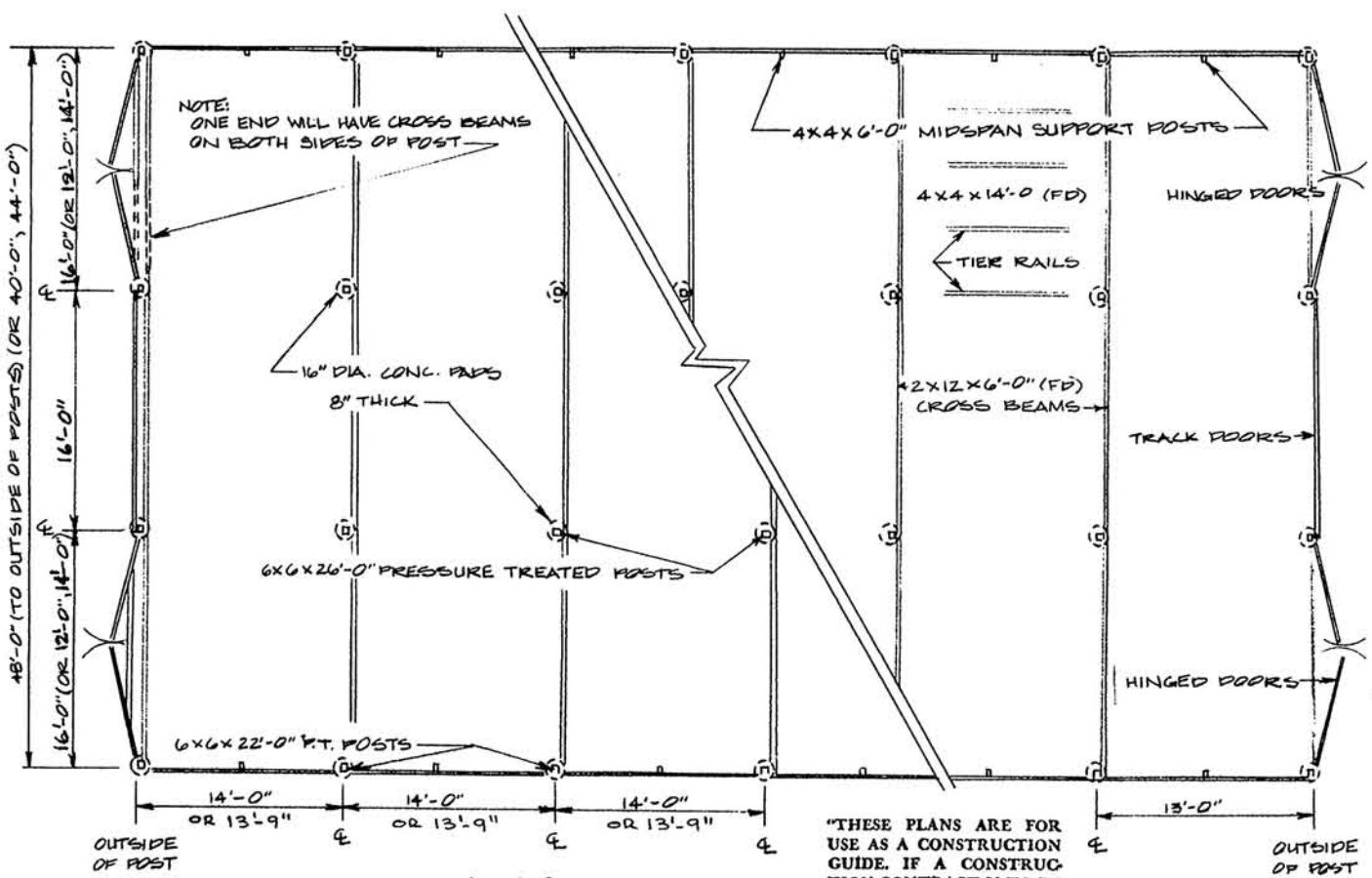
SCALE: 3/16" = 1'-0"



END ELEVATION

SCALE: 1/8" = 1'-0"

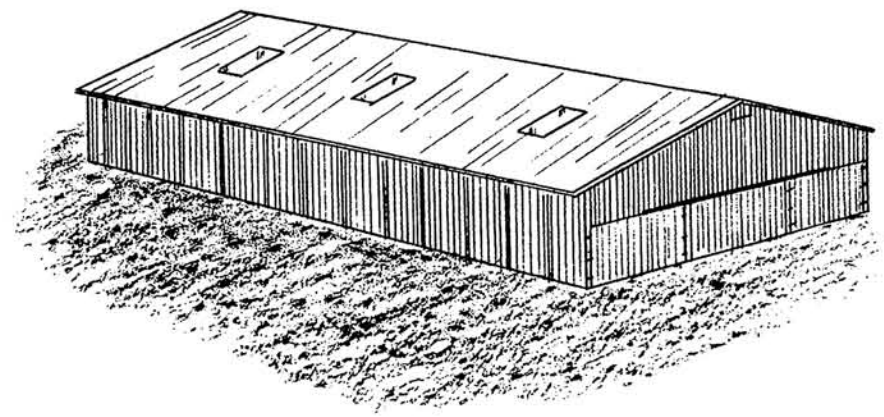
NOTE: ALL SWINGING DOORS OR DOUBLE-TRACK WITH DOORS MAY BE USED



FLOOR PLAN

SCALE: 1/8" = 1'-0"

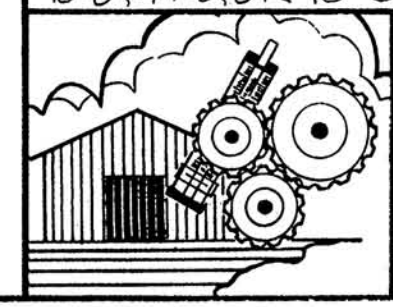
"THESE PLANS ARE FOR USE AS A CONSTRUCTION GUIDE. IF A CONSTRUCTION CONTRACT IS TO BE MADE, WRITTEN SPECIFICATIONS ARE NEEDED."



PERSPECTIVE VIEW

NO TRUE SCALE

2-3 TIER AIR CURE BURLEY TOBACCO BARN 40'-0", 44'-0, OR 48'-0" WIDE, 3 DRIVEWAY



COOPERATIVE EXTENSION SERVICE
AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
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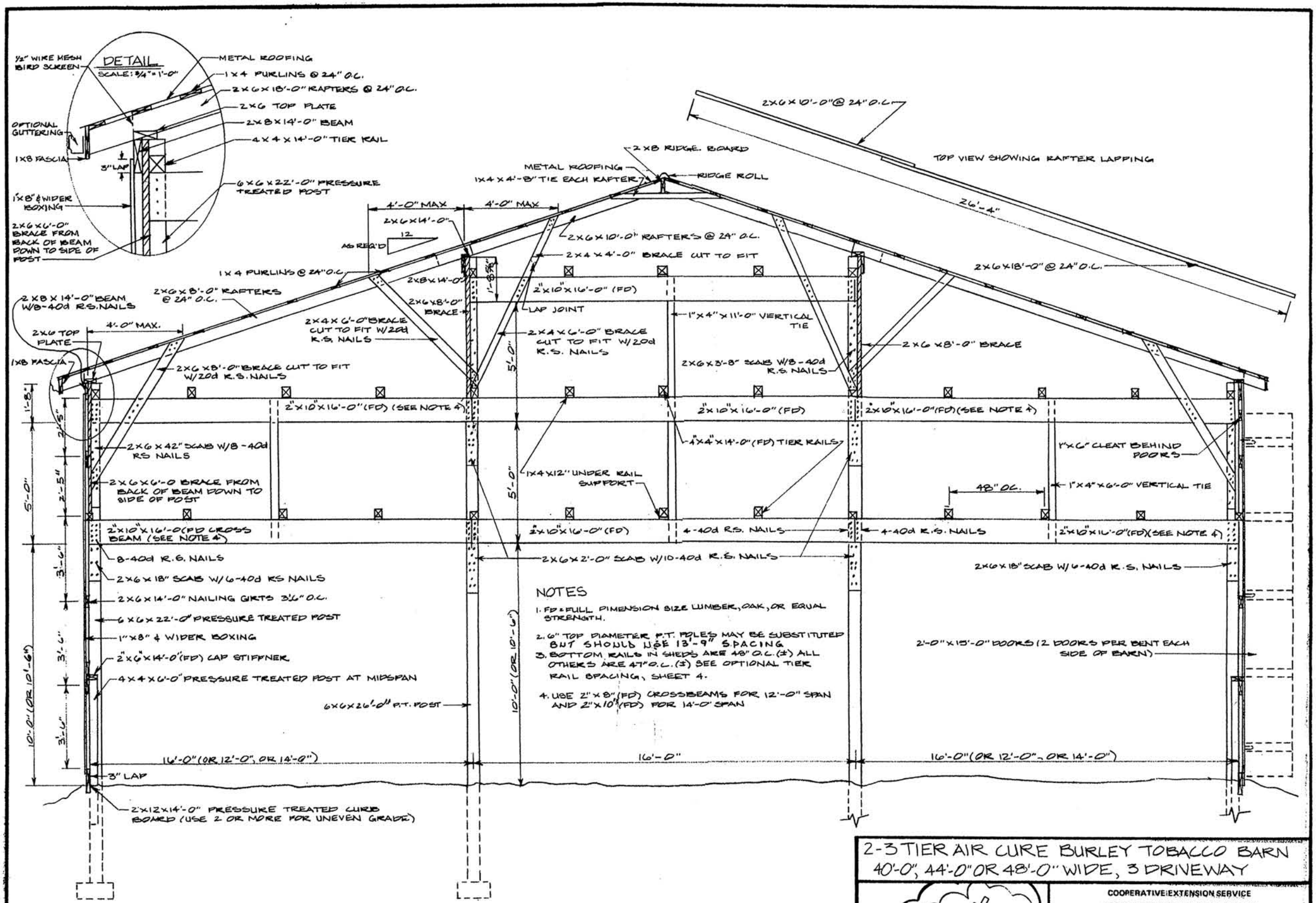
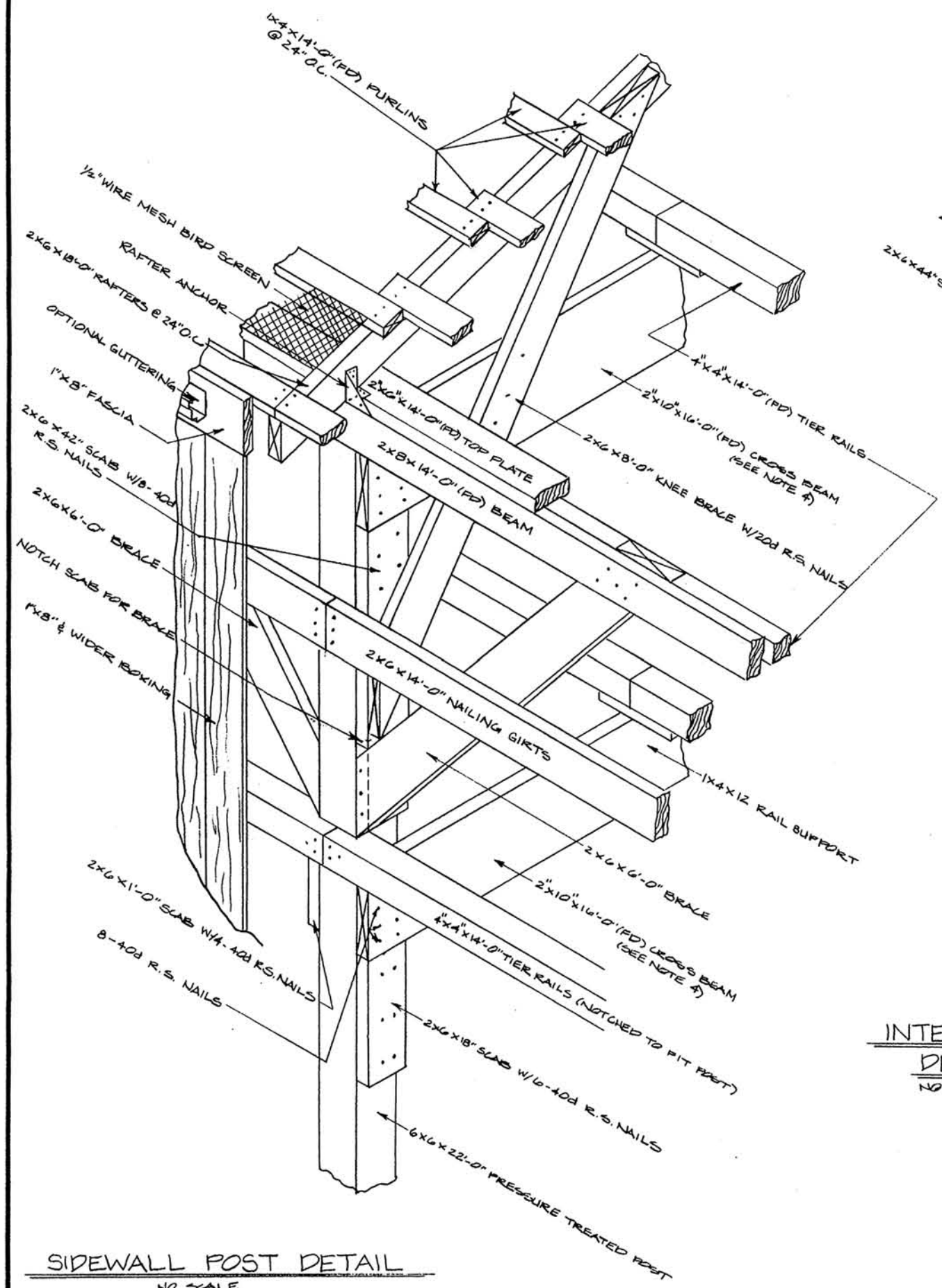
UNIVERSITY OF KENTUCKY
AND
U.S. DEPARTMENT OF AGRICULTURE COOPERATING

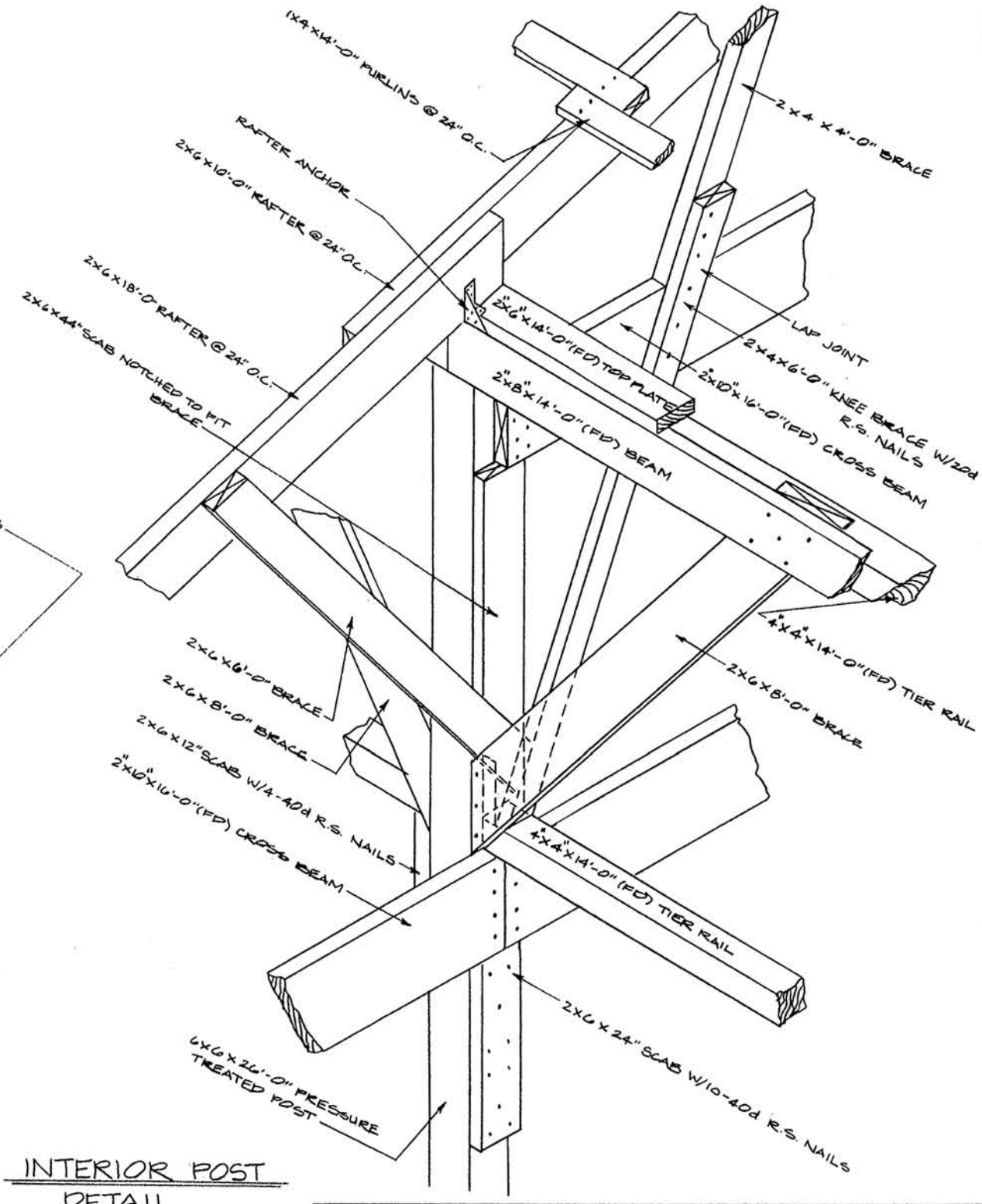
DESIGNED BY: G. A. DUNCAN	SHEET 1 OF 4
CHECKED BY:	PLAN NUMBER
DRAWN BY: G. ELLIOTT	KY. II. 735-29B
DATE: JULY 13, 1981	
REVISIONS: JULY 16, 1985	


DETAIL
SCALE: 3/4" = 1'-0"
1/2" WIRE MESH BIRD SCREEN
METAL ROOFING
1 x 4 PURLINS @ 24" O.C.
2 x 6 x 18'-0" RAFTERS @ 24" O.C.
2 x 6 TOP PLATE
2 x 8 x 14'-0" BEAM
4 x 4 x 14'-0" TIER RAIL
OPTIONAL GUTTERING
1 x 8 FASCIA
3" LAP
6 x 6 x 22'-0" PRESSURE TREATED POST
1" x 8" & WIDER BOXING
2 x 6 x 6'-0" BRACE FROM BACK OF BEAM DOWN TO SIDE OF POST
2 x 6 x 10'-0" @ 24" O.C.
TOP VIEW SHOWING RAFTER LAPPING
2 x 8 RIDGE BOARD
METAL ROOFING
1 x 4 x 4'-8" TIE EACH RAFTER
RIDGE ROLL
26'-4"
4'-0" MAX
4'-0" MAX
2 x 6 x 14'-0"
12
AS REQ'D
2 x 6 x 10'-0" RAFTERS @ 24" O.C.
2 x 4 x 4'-0" BRACE CUT TO FIT
1 x 4 PURLINS @ 24" O.C.
2 x 8 x 14'-0"
1'-8 5/8"
2 x 6 x 18'-0" @ 24" O.C.
2 x 8 x 14'-0" BEAM W/8-40d R.S. NAILS
2 x 6 x 8'-0" RAFTERS @ 24" O.C.
2 x 10" x 16'-0" (FD)
2 x 6 x 8'-0" BRACE
LAP JOINT
1" x 4" x 11'-0" VERTICAL TIE
4'-0" MAX.
2 x 6 TOP PLATE
2 x 4 x 6'-0" BRACE CUT TO FIT W/20d R.S. NAILS
2 x 4 x 6'-0" BRACE CUT TO FIT W/20d R.S. NAILS
2 x 6 x 8'-0" BRACE
1 x 8 FASCIA
2 x 6 x 8'-0" BRACE CUT TO FIT W/20d R.S. NAILS
5'-0"
2 x 6 x 3'-8" SCAB W/8-40d R.S. NAILS
1'-8"
2'-5"
2 x 10" x 16'-0" (FD) (SEE NOTE 4)
2 x 10" x 16'-0" (FD)
2 x 10" x 16'-0" (FD) (SEE NOTE 4)
2 x 6 x 42" SCAB W/8-40d RS NAILS
4" x 4" x 14'-0" (FD) TIER RAILS
1" x 6" CLEAT BEHIND DOORS
5'-0"
2'-5"
2 x 6 x 6'-0 BRACE FROM BACK OF BEAM DOWN TO SIDE OF POST
1 x 4 x 12" UNDER RAIL SUPPORT
5'-0"
48" O.C.
1" x 4" x 6'-0" VERTICAL TIE
2" x 10" x 16'-0" (FD) CROSS BEAM (SEE NOTE 4)
2 x 10" x 16'-0" (FD)
4-40d R.S. NAILS
4-40d R.S. NAILS
2 x 10" x 16'-0" (FD) (SEE NOTE 4)
8-40d R.S. NAILS
2 x 6 x 2'-0" SCAB W/10-40d R.S. NAILS
2 x 6 x 18" SCAB W/6-40d R.S. NAILS
3'-6"
2 x 6 x 18" SCAB W/6-40d RS NAILS
2 x 6 x 14'-0" NAILING GIRTS 3'6" O.C.
6 x 6 x 22'-0" PRESSURE TREATED POST
1" x 8" & WIDER BOXING
3'-6"
2" x 6" x 14'-0" (FD) CAP STIFFNER
4 x 4 x 6'-0" PRESSURE TREATED POST AT MIDSPAN
10'-0" (OR 10'-6")
10'-0" (OR 10'-6")
2'-0" x 15'-0" DOORS (2 DOORS PER BENT EACH SIDE OF BARN)
3'-6"
6 x 6 x 26'-0" P.T. POST
16'-0" (OR 12'-0", OR 14'-0")
16'-0"
16'-0" (OR 12'-0", OR 14'-0")
3" LAP
2" x 12" x 14'-0" PRESSURE TREATED CURB BOARD (USE 2 OR MORE FOR UNEVEN GRADE)
NOTES
1. FD = FULL DIMENSION SIZE LUMBER, OAK, OR EQUAL STRENGTH.
2. 6" TOP DIAMETER P.T. POLES MAY BE SUBSTITUTED BUT SHOULD USE 13'-9" SPACING
3. BOTTOM RAILS IN SHEDS ARE 48" O.C. (±) ALL OTHERS ARE 47" O.C. (±) SEE OPTIONAL TIER RAIL SPACING, SHEET 4.
4. USE 2" x 8" (FD) CROSSBEAMS FOR 12'-0" SPAN AND 2" x 10" (FD) FOR 14'-0" SPAN
CROSS SECTION
SCALE: 3/8" = 1'-0"
2-3 TIER AIR CURE BURLEY TOBACCO BARN
40'-0", 44'-0" OR 48'-0" WIDE, 3 DRIVEWAY
COOPERATIVE EXTENSION SERVICE
AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
COLLEGE OF AGRICULTURE
UNIVERSITY OF KENTUCKY
AND
U.S. DEPARTMENT OF AGRICULTURE COOPERATING
DESIGNED BY: G. A. DUNCAN
CHECKED BY:
DRAWN BY: S. ELLIOTT
DATE: 7-7-81
REVISIONS: 7-16-85
SHEET 2 OF 4
PLAN NUMBER
KY. II. 755-298



SIDEWALL POST DETAIL

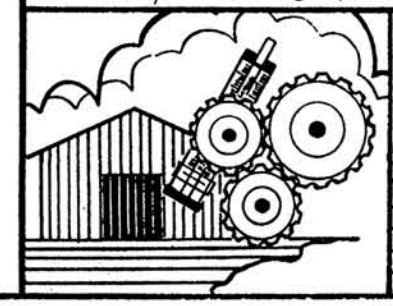
NO SCALE



INTERIOR POST DETAIL

NO SCALE

2-3 TIER AIR CURE BURLEY TOBACCO BARN 40'-0", 44'-0" OR 48'-0 WIDE, 3 DRIVEWAY



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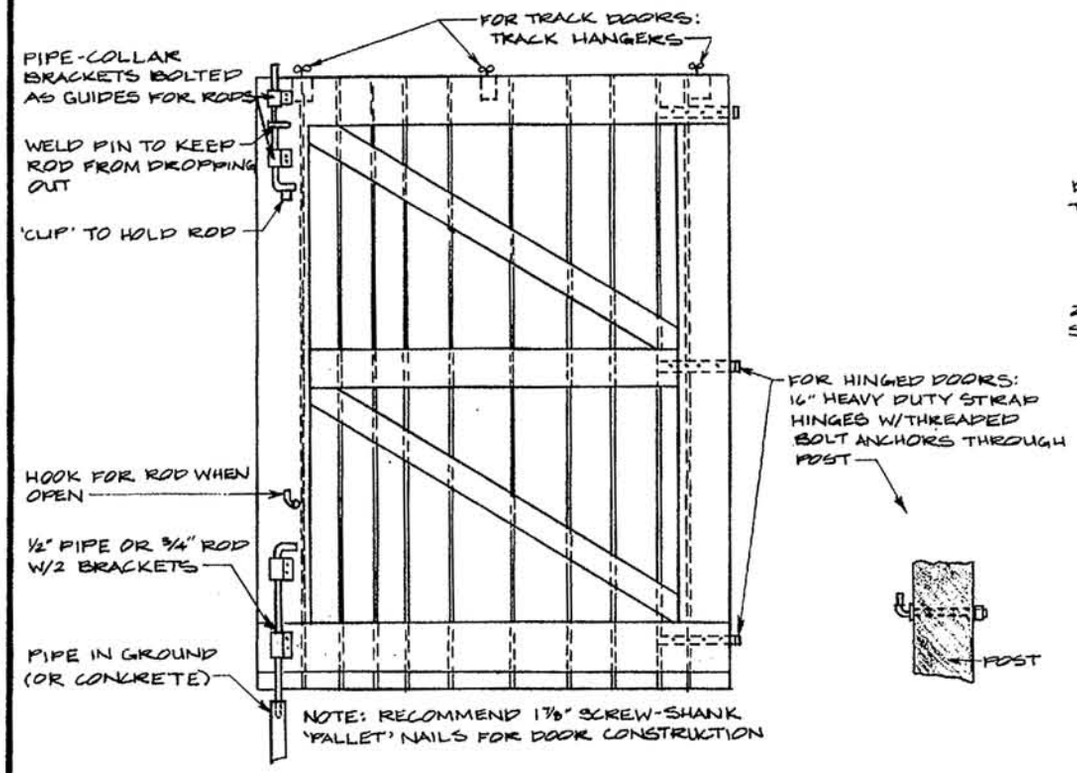
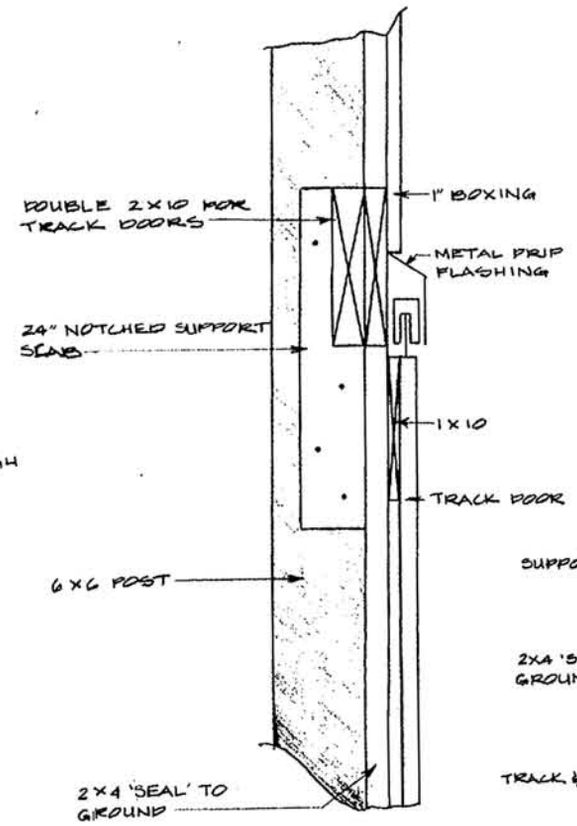
DESIGNED BY: G. A. PURKAN	SHEET 3 OF 4
CHECKED BY:	PLAN NUMBER
DRAWN BY: S. ELLIOTT	KY. II. 735-28B
DATE: 7-8-81	
REVISIONS: 7-17-85	

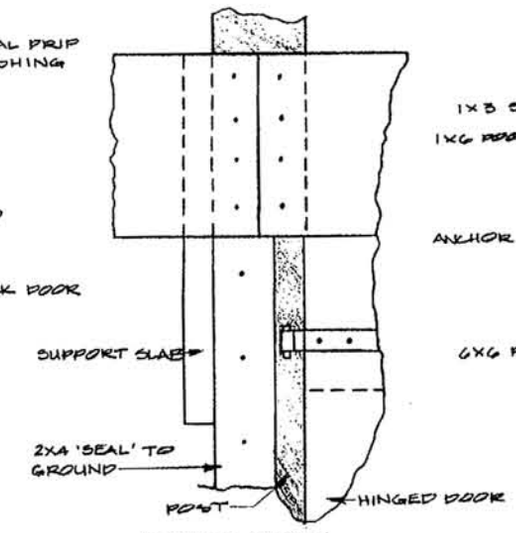


REAR VIEW WOODEN DOOR CONSTRUCTION

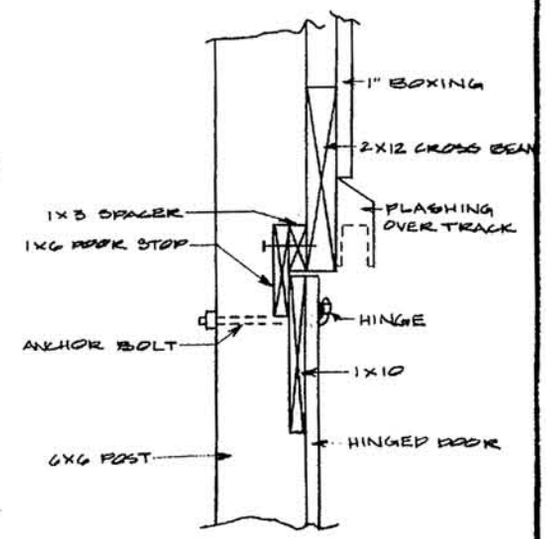
(BOTH HINGED & TRACK)
SCALE: ½" = 1'-0"



SIDE VIEW
(TRACK DOORS AT POST)



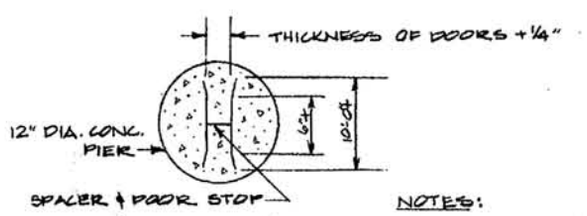
FRONT VIEW
TRACK & HINGED DOORS AT POST (TRACK NOT SHOWN)



SIDE VIEW
(HINGED DOORS AT POST)

DETAIL FOR HINGED & TRACK DOORS AT POST

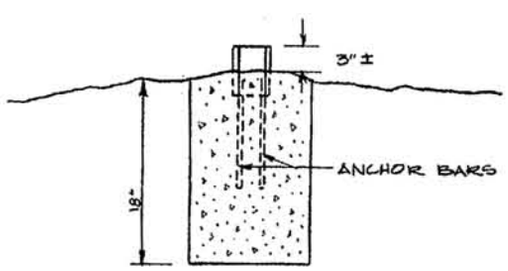
SCALE: 1½" = 1'-0"



TOP VIEW

NOTES:

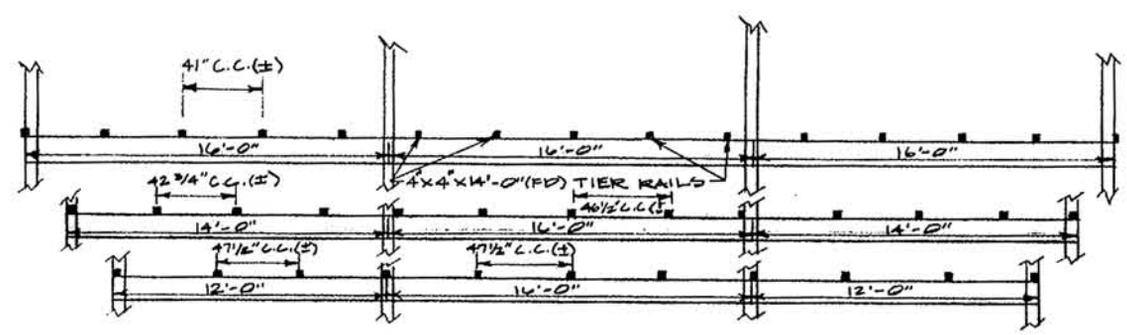
1. USE 5" OR 6" WIDE X 10" LONG X 3/16" OR ¼" THICK METAL TO FORM GUIDES
2. WELD SPACER & ANCHOR BARS FOR STRENGTH



SIDE VIEW

CENTER STOP FOR TRACK DOORS

SCALE: 1" = 1'-0"



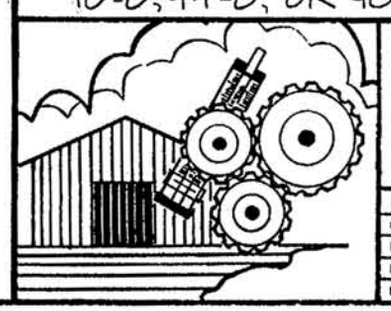
DETAILS FOR RAIL SPACING OPTIONS

SCALE: 3/16" = 1'-0"

NOTES:

1. ALL LUMBER SOUND QUALITY SAWMILL OAK, POPLAR, SOU. PINE, OR EQUAL STRENGTH.
2. POSTS ARE SQUARE, 'PENTA' PRESSURE TREATED, OR, EQUAL
3. USE SCREW-SHANK POLE BARN NAILS TO POSTS, 40d (6") SIZE OR LONGER

2-3 TIER AIR CURE BURLEY TOBACCO BARN 40'-0, 44'-0", OR 48'-0 WIDE, 3 DRIVEWAY



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DESIGNED BY: G. A. DUNCAN	SHEET 4 OF 4
CHECKED BY:	PLAN NUMBER
DRAWN BY: S. ELLIOTT	KY. II. 735-298
DATE: JULY 14, 1985	
REVISIONS: JULY 18, 1985	