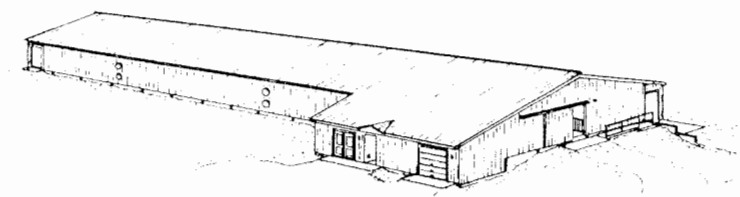


- NOTES:**
1. DETERMINE IF WATER SUPPLY IS PURE AND SUFFICIENT.
 2. CHECK WITH ELECTRIC UTILITY ABOUT EASEMENTS & SERVICE.
 3. CHECK WITH LOCAL GOVERNMENTS ABOUT ZONING & BUILDING RESTRICTIONS OR REQUIRED PERMITS.
 4. SUBMIT PLANS TO YOUR MILK INSPECTOR FOR APPROVAL AND MAKE ARRANGEMENTS TO SHIP MILK.
 5. CHECK DIMENSIONS OF MANUFACTURED EQUIPMENT TO BE INSTALLED BEFORE STARTING CONSTRUCTION.
 6. ALL LUMBER IN CONTACT WITH MANURE OR SOIL SHOULD BE PRESSURE PRESERVATIVE TREATED (P.P.T.).
 7. MILKLINE MUST BE SUPPORTED AT A UNIFORM SLOPE FOR DRAINAGE.
 8. MILKROOM MUST BE HIGH ENOUGH FOR BULK TANK CALIBRATION AND MILK MEASUREMENT (WITH DIP STICK).
 9. FLUORESCENT LIGHTS SHOULD BE MOISTURE RESISTANT, INDUSTRIAL GRADE FIXTURES.
 10. APPROVED BY NORTHEAST DAIRY PRACTICES COUNCIL MAR 1986.

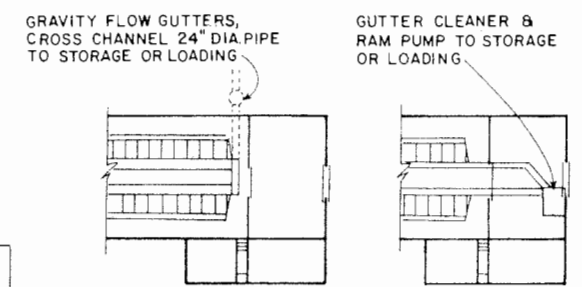
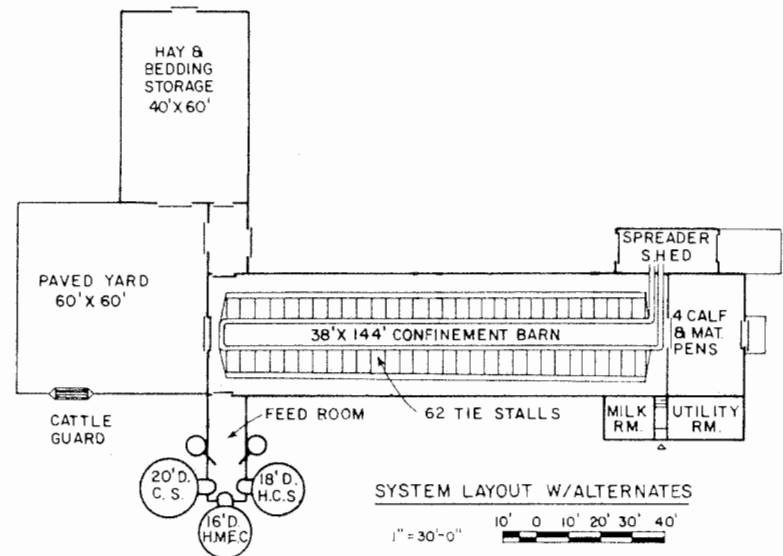
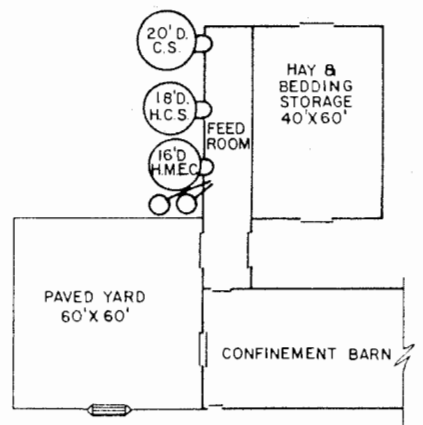
OPTIONS AND CROSS SECTION

SCALE 1/4" = 1'-0"



PERSPECTIVE

ANIMAL SIZE			TIE STALLS	
COW	GIRTH	WEIGHT	WIDTH	LENGTH
SMALL	71"	1000 LBS.	4'-0"	5'-0"
MEDIUM	78"	1300 LBS.	4'-3"	5'-6"
LARGE	86"	1600 LBS.	4'-6"	6'-0"

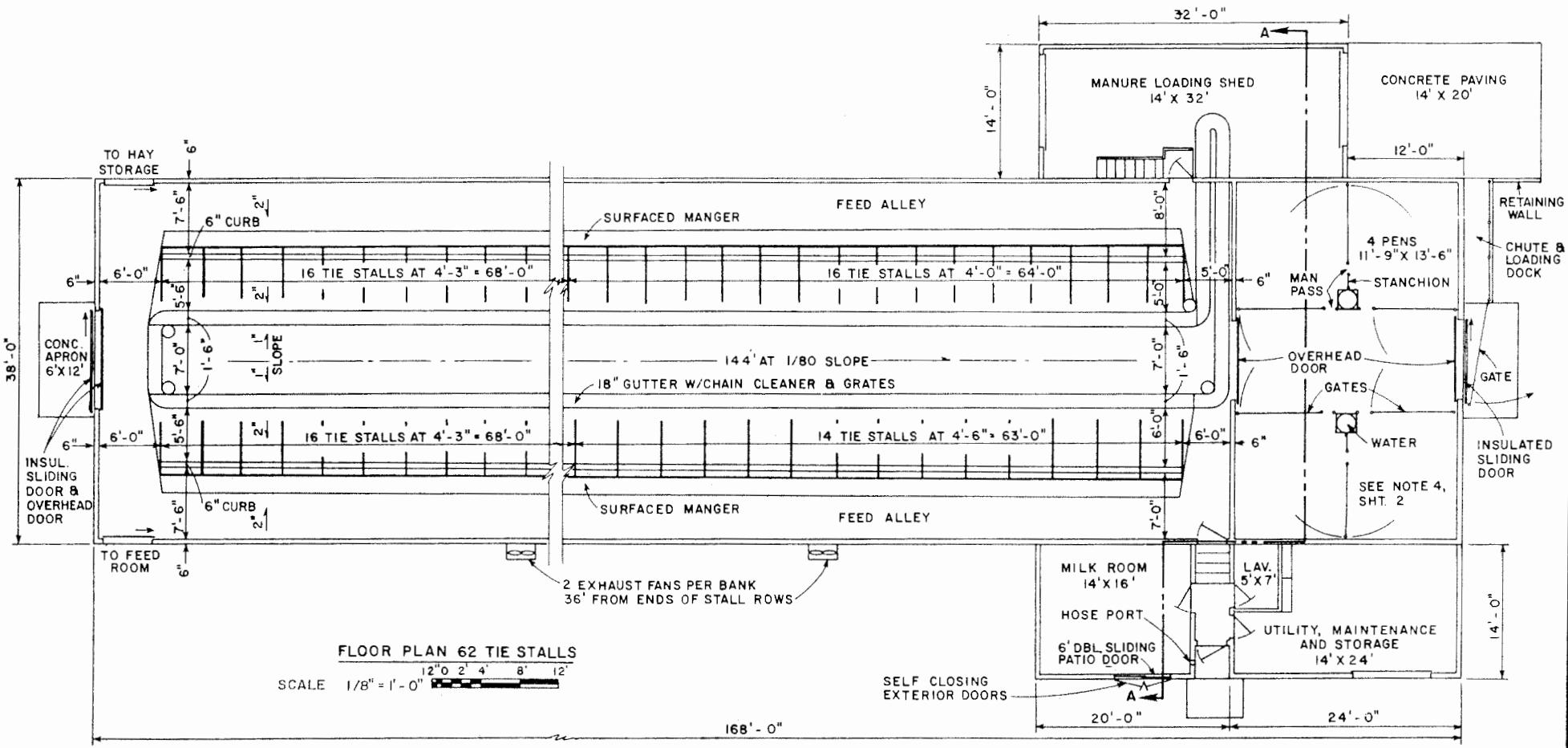
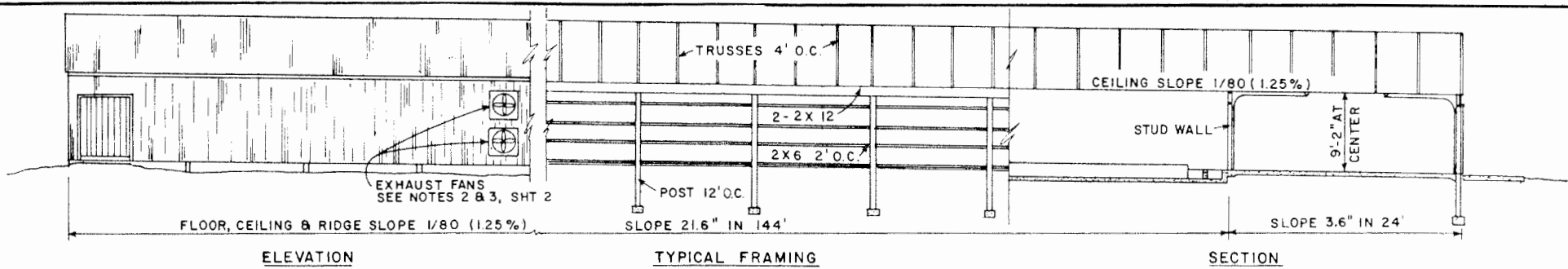


ALTERNATE MANURE HANDLING OPTIONS

SYSTEM LAYOUT W/ALTERNATES

1" = 30'-0"


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 NY '86 6378 SHEET 1 OF 4



VENTILATION SCHEDULE

INSIDE (°F)	RATE PER COW	(CFM) TOTAL	AIR EXCHANGE TIME (MIN.)	INLET ¹ WIDTH (IN.)
BELOW 35	INFILTRATION ONLY			
35	30	1900	24	0.16
45	60	3700	12	0.32
50	120	7500	6	0.64
60	240	14900	3	1.3
75	300	18600	2.4	1.6
ABOVE 75	ADD CIRCULATION FANS			

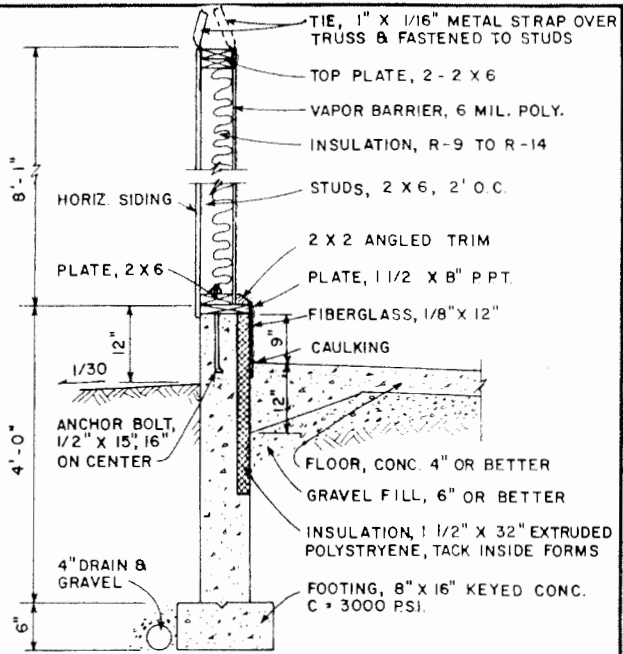
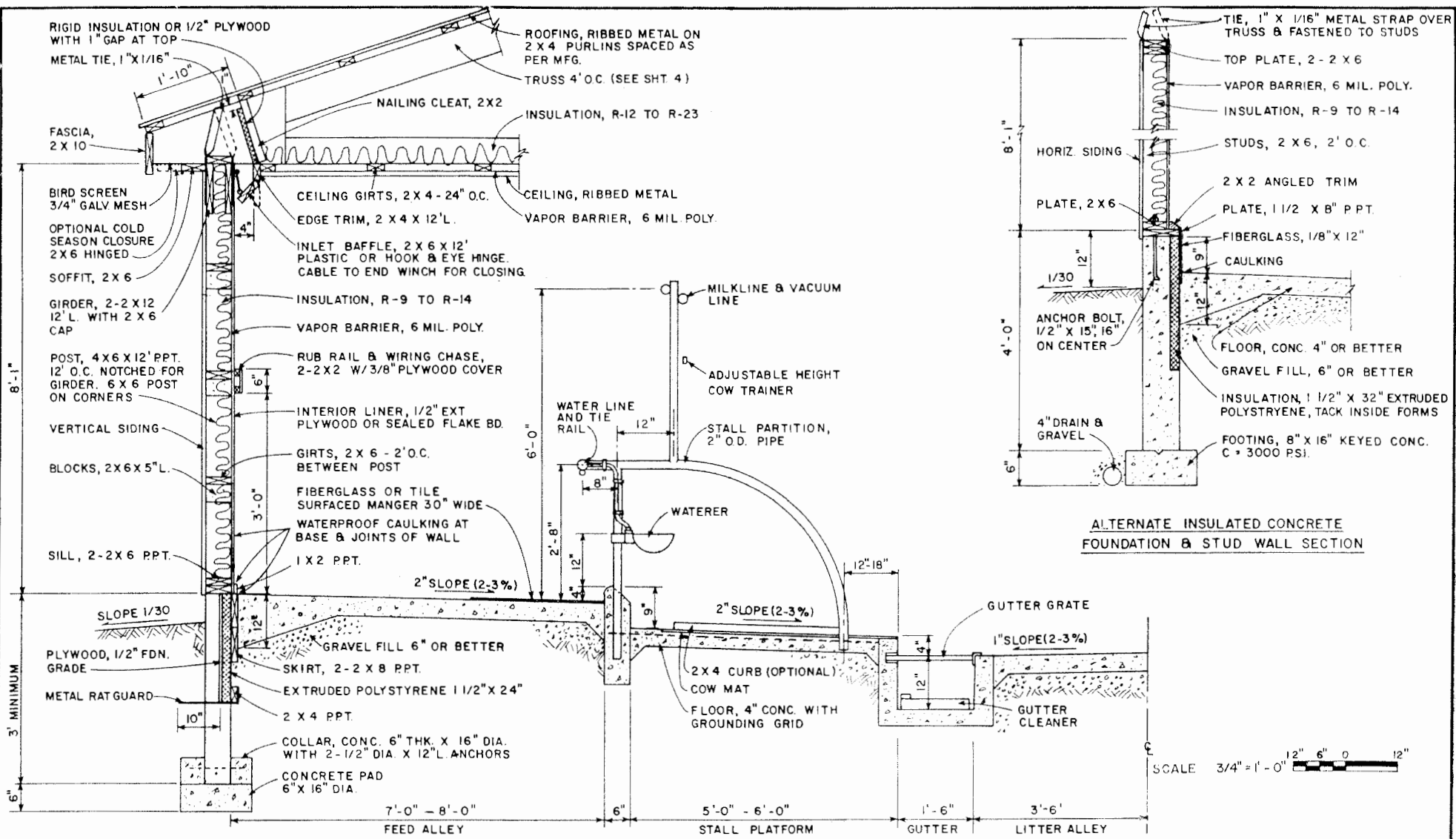
- NOTES:**
1. OPENING BASED UPON 700'/MIN AIR VELOCITY AND 200' SLOT INLET.
 2. LOW LEVEL EXHAUST FAN COMPLETE WITH GUARDS, INSIDE LOUVERS, OUTSIDE HOOD & MULTI-SPEED CONTROL FOR 1000 CFM TO 4000 CFM AT 0.10" SP. (1 EACH BANK)
 3. HI-LEVEL EXHAUST FAN ADDS 4000 CFM OR MORE FOR WARM SEASON VENTILATION. TURN OFF WITH FUSED SWITCH & USE INSULATED COVER IN COLD WEATHER.
 4. FOR ANIMALS IN PENS USE EXHAUST FAN TO CHANGE AIR EVERY 10 TO 20 MIN. (400 TO 800 CFM) OR IN COLD CLIMATES AN AIR-TO-AIR HEAT EXCHANGER 150 TO 600 CFM.



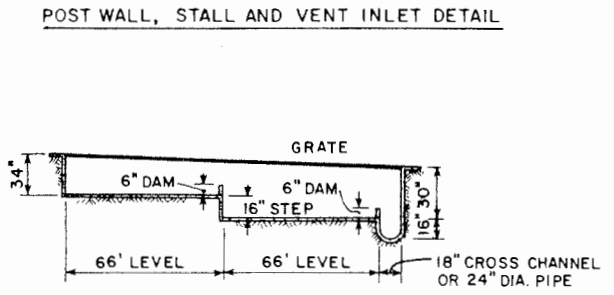
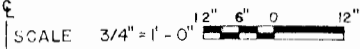
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SINGLE STORY SLOPING TIE STALL DAIRY BARN

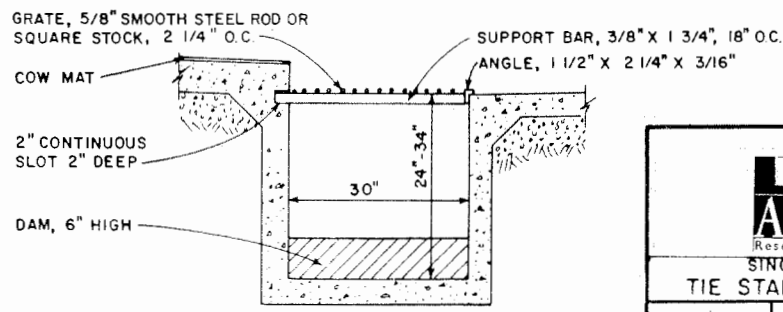
NY '86	6378	SHEET 2 OF 4
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ALTERNATE INSULATED CONCRETE FOUNDATION & STUD WALL SECTION



LONGITUDINAL SECTION OF STEPPED GRAVITY FLOW GUTTER (NO SCALE)



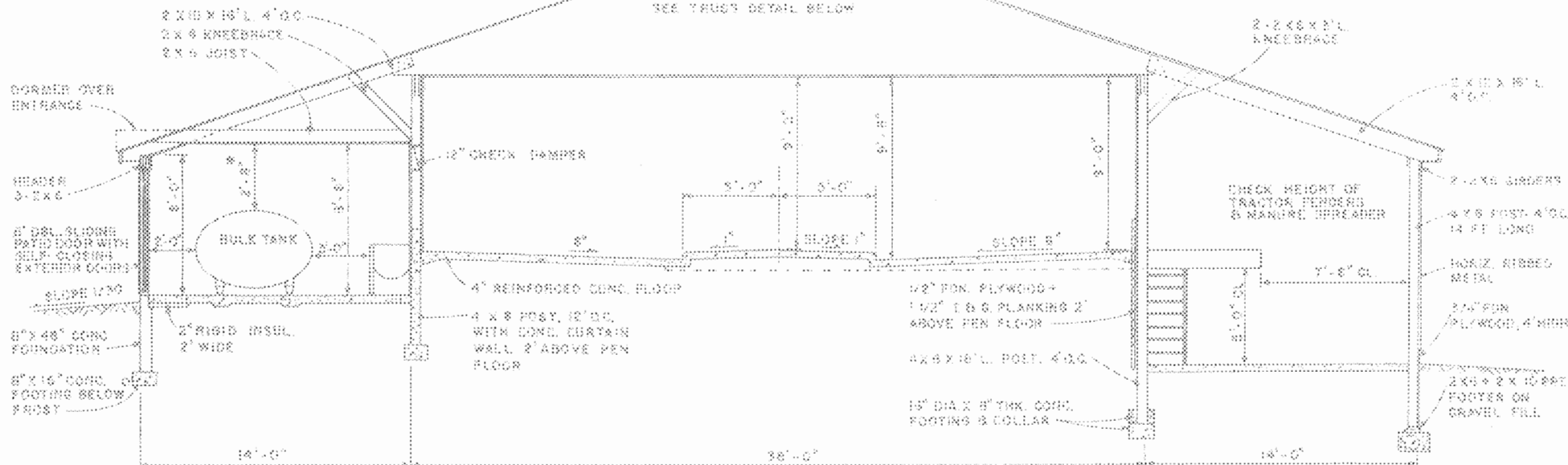
CROSS SECTION OF TYPICAL GRAVITY FLOW GUTTERS

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 TIE STALL DAIRY BARN
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NOTE: CHECK SIZE OF BULK TANK AND
CLEARANCE REQUIREMENTS

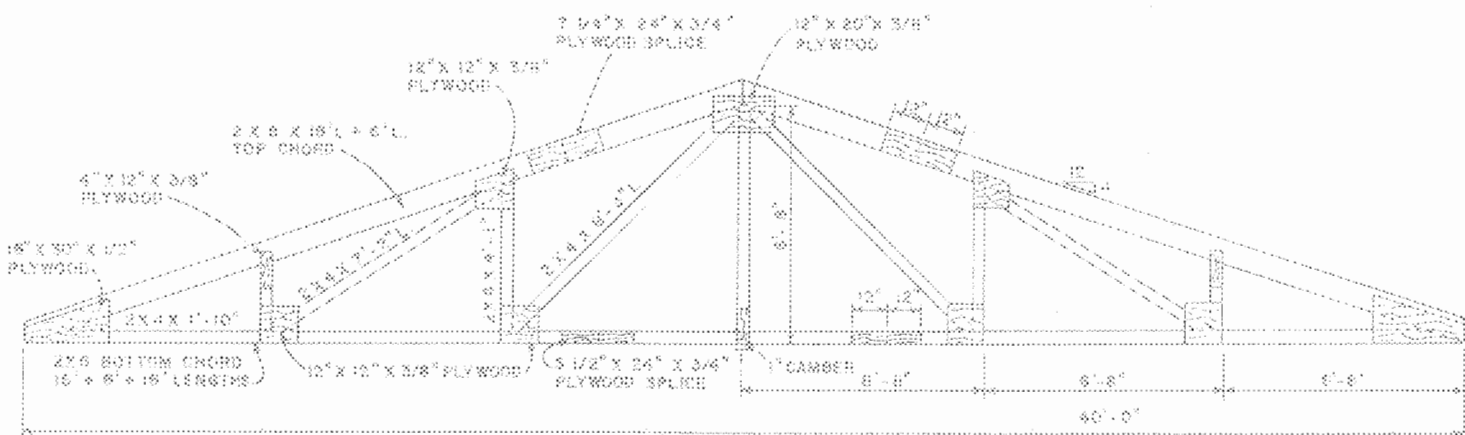
W.R.V. REQUIRED 36" ABOVE TANK

SEE TRUSS DETAIL BELOW



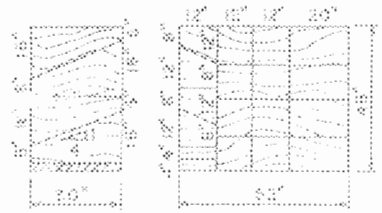
SECTION A-A

SCALE 1/4"=1'-0"



TRUSS DETAIL - SPACED 4'-0"

SCALE 3/8"=1'-0"



PLYWOOD GUSSET CUTTING DIAGRAM

- NOTES:
1. MANUFACTURED TRUSS MAY REPLACE TRUSS BUILT ON SITE.
 2. TRUSS DESIGN ADAPTED FROM MWPS-9 PG. 44-45.
 3. DESIGN ROOF LOADS & LUMBER STRESSES:
FOR 27 PSF USE 1600F LUMBER
FOR 28 PSF USE 1800F LUMBER
FOR 21 PSF USE 1100F LUMBER
FOR HEAVIER ROOF LOADS, DECREASE THE SPACING
OF TRUSSES PROPORTIONALLY, EG. 42 PSF/21 PSF = 2.
USE 2" O.C. SPACING.
 4. SELECT CLEAN SMOOTH LUMBER NOT CUPPED OR TWISTED.
MLN DRIED TO 15% MOISTURE CONTENT.

5. GLUE-NAH EXTERIOR GRADE STRUCTURAL O-C PLYWOOD GUSSETS ON BOTH SIDES OF JOINTS & SPLICES.
6. USE RESORCINOL RESIN GLUE FOLLOWING MFG'S DIRECTION.
7. SPACE ROWS OF 88 NAILS 2" APART ACROSS GRAIN & 4" APART WITH GRAIN. NAIL AT LEAST 3/4" FROM EDGE.
8. LAP CHORD SPLICES AT LEAST 12" ON EACH MEMBER.
9. ASSEMBLE TRUSS IN HS APPLY GUSSETS ON ONE SIDE. INVERT & APPLY GUSSETS ON OTHER SIDE. STORE TRUSS FLAT TO CURE AT LEAST 24 HOURS.

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SINGLE STORY SLOPING
TIE STALL DAIRY BARN

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Disclaimer

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