NOV/2022



FARROW TO FINISH LAYOUTS





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CRATE REQUIREMENTS

GUIDE TO HELP DETERMINE CRATE REQUIREMENTS & ANNUAL PIG PRODUCTION FOR FARROWING SOWS (2 TO 4 WEEKS WEANING)

- Easy Choice Stalls
 # of sows = # of stalls
- 2. # of Breeding Stalls
 Weekly wean target + weekly gilt target = total # of Breeding Stalls



CRATE REQUIREMENTS

CALCULATING CRATE REQUIREMENTS

 1. Calculate Litters per Week
 Ex. 1
 Ex. 2

 Number of Sows
 .500
 1500

 Litters/Sow/Year
 .2.3
 x 2.3

 Litters/Year
 .1150
 3450

 Litters/Week
 22
 66

2. Calculate Crate Cycle Time

 Fill Time
 2 days

 Nursing Time
 21 days

 Cleaning Time
 2 days

 Crate Cycle Time
 25 days

 (3.6 weeks)

3. Calculate Number of Crates

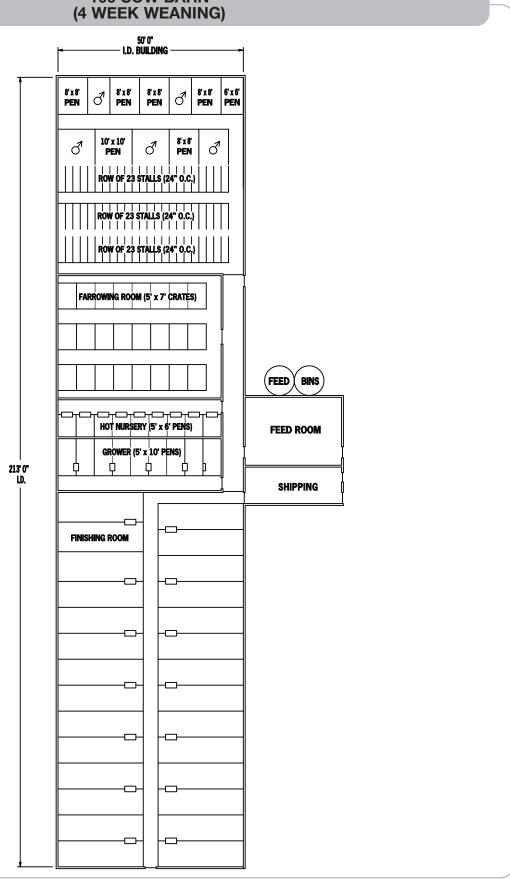
Litters/Week	. 22	66
Crate Cycle Time	. x3.6	x3.6
Number of Crates Needed	. 80	238



FARROW TO FINISH

100 SOW BARN

- 24 FARROWING CRATES (1 ROOM)
- 9 NURSERY PENS (1 HOT ROOM)
- 9 GROWER PENS (1 ROOM)
- 46 DRY SOW STALLS
- 23 BREEDING STALLS with **5 BREEDING PENS ATTACHED**
- 7 HOLDING PENS
- 28 FINISHING PENS
- 1 FEED ROOM
- 1 SHIPPING ROOM

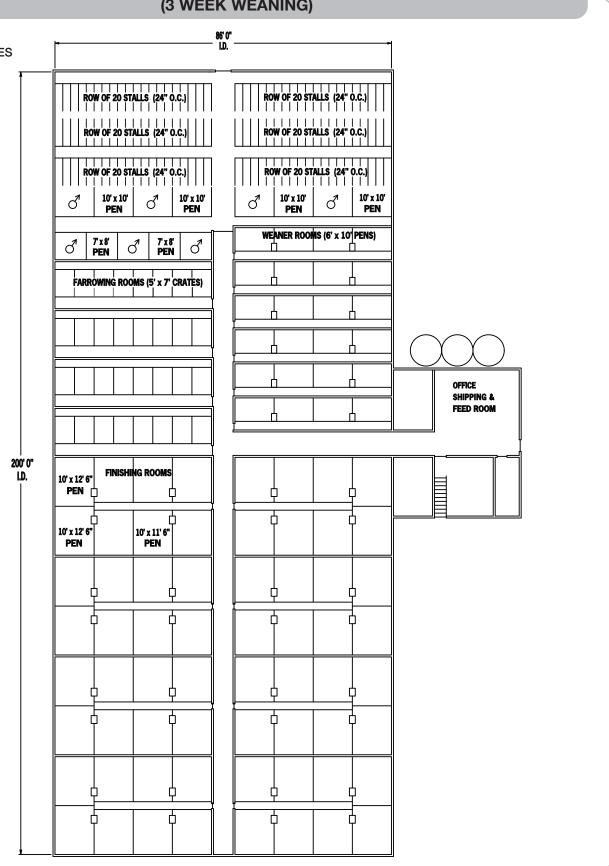




FARROW TO FINISH

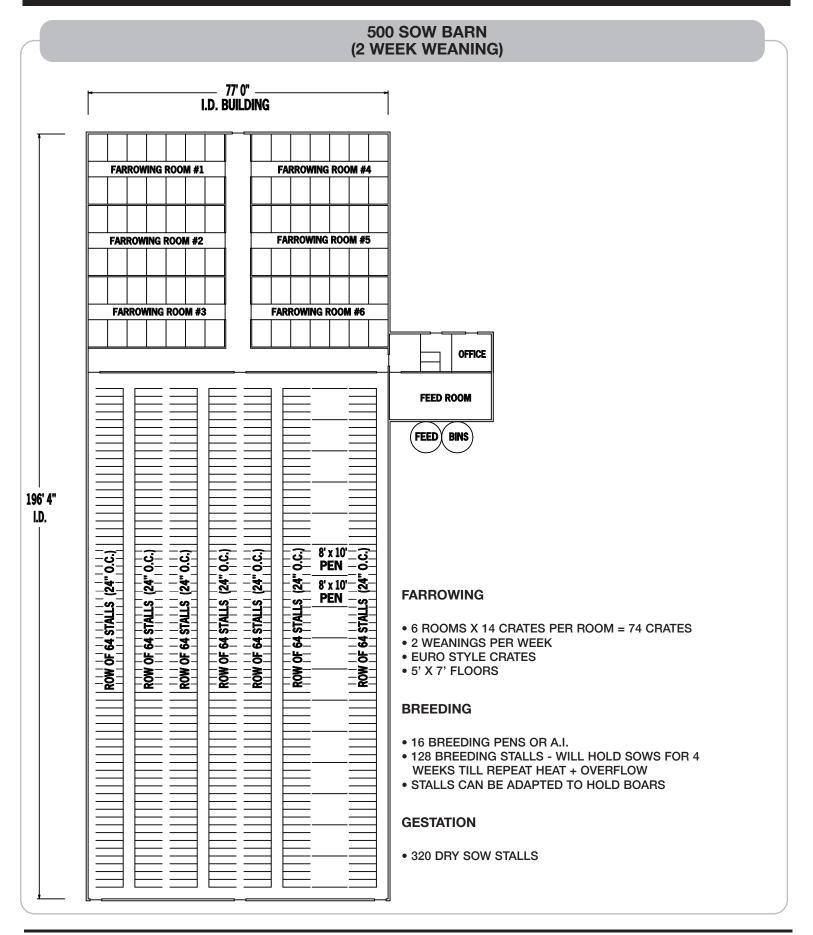
150 SOWS (3 WEEK WEANING)

- 32 FARROWING CRATES (4 ROOMS)
- 24 WEANER PENS (6 ROOMS)
- 120 DRY SOW STALLS
- 8 BREEDING PENS
- 5 HOLDING PENS
- 8 FINISHING ROOMS
- OFFICE, FEED & SHIPPING ROOMS



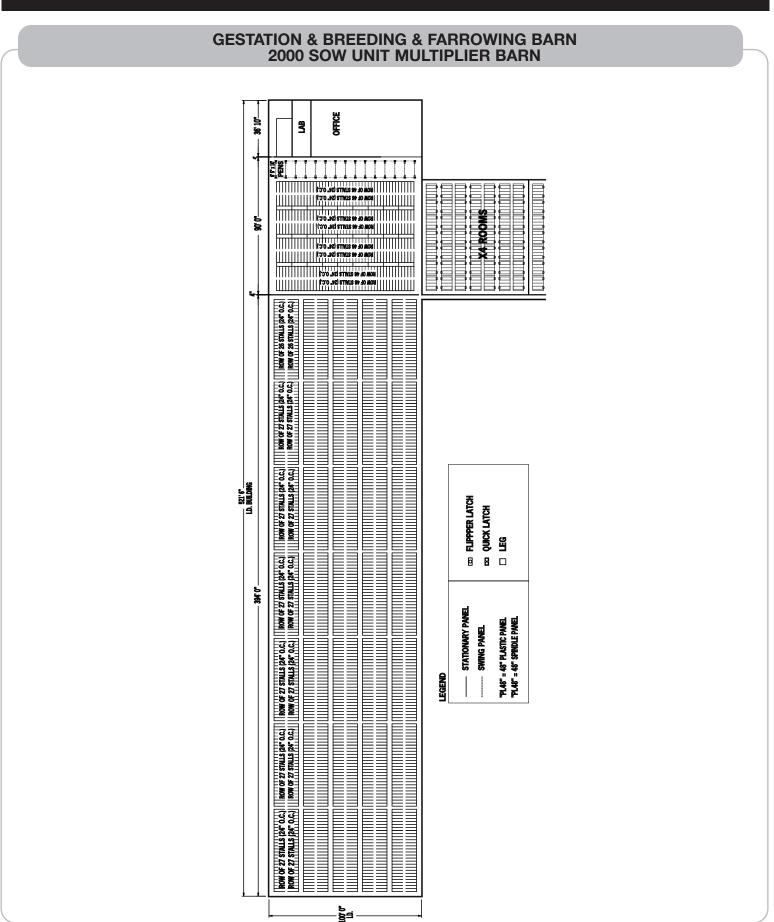


FARROW TO WEAN



FARROW TO WEAN

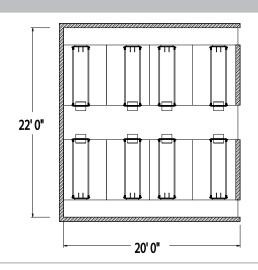


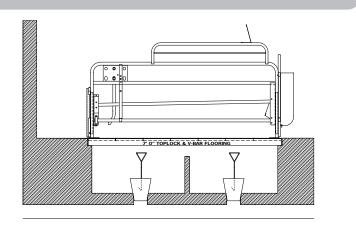




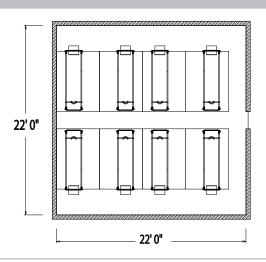
MODEL 2001 FARROWING CRATES

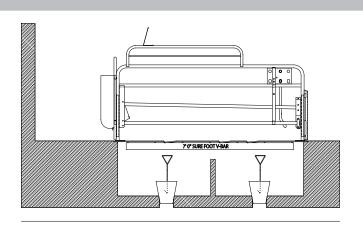
HEAD TO HEAD 3 DOORS



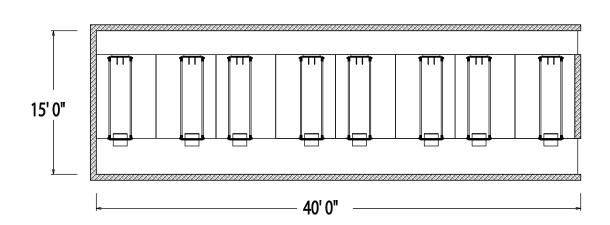


TAIL TO TAIL FRONT ACCESS ALLEYS





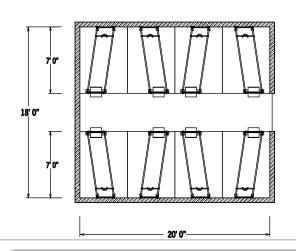
SINGLE ROW + 2 DOORS

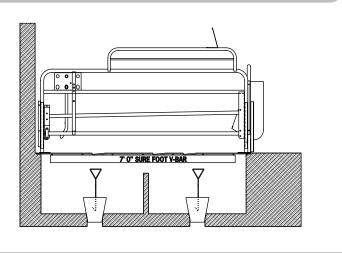




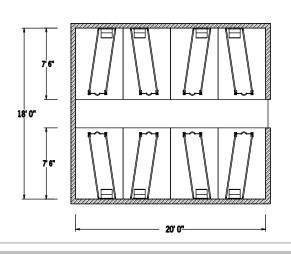
EURO CRATES

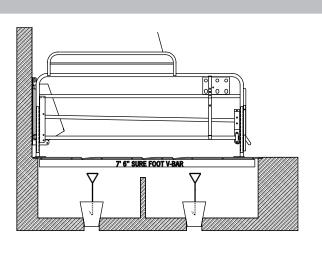
HEAD TO HEAD



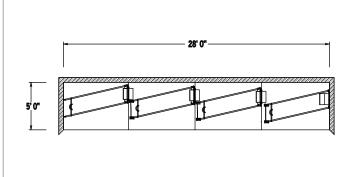


TAIL TO TAIL

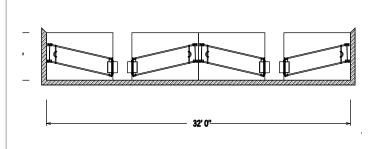




SIDEWAYS (IN A ROW)



SIDEWAYS (IN A ROW)





EQUIPMENT LAYOUT

GUIDE TO HELP DETERMINE DRY SOW STALLS, BREEDING PENS NUMBER OF BOARS AND GILT REPLACEMENT REQUIREMENTS

Herd Size # Sows	Breeding Pens 85% Conception 2.4 Gestation	Boars Required	Sows in Dry Sow Barn 114 Days			Gilts in Barn At Any Time 33% Replacement	
			4 Week Weaning	3 Week Weaning	2 Week Weaning		
30	1.6	2	25				
40	2.1	2	33				
50	2.7	3	41	43		6	
60	3.2	3	50	52		7	
70	3.7	4	58	61		8	
80	4.2	4	66	69		9	
90	4.8	5	74	78		10	
100	5.3	5	83	87	90	11	
110	5.8	6	91	95	99	12	
120	6.4	6	99	104	108	13	
130	6.9	7	107	112	117	14	
140	7.4	8	116	121	126	15	
150	8.0	8	124	130	135	17	
160	8.5	9	132	138	144	18	
170	9.0	9	140	147	153	19	
180	9.5	10	149	156	162	20	
190	10.2	10	157	164	171	21	
200	10.6	11	165	173	180	22	
250	13.3	14		216	225	28	
300	15.9	16		260	270	33	
400	21.2	22		346	360	44	
500	26.5	27		433	450	55	
600	31.8	? + A.I.			540	66	
700	37.1	? + A.I.			630	77	
800	42.4	? + A.I.			720	88	
900	47.7	? + A.I.			810	99	
1000	53.0	? + A.I.			900	110	



MANURE PRODUCTION

MANURE PRODUCTION

	PER ANIMAL PER DAY				
	Imp. Gal.	US Gal.	Litre		
Feeder Hogs	1.5	1.8	7.1		
Sow & Litter	2.5	3.0	11.4		
Dairy Cow	12.0	14.4	54.6		
Beef Cow	10.0	12.0	45.5		
Feeder Cattle	8.0	9.6	36.4		
Laying Hen	0.1	0.1	0.5		
Sheep	1.5	1.8	6.8		
Rabbits	0.4	0.5	1.7		

These tables are approximate and are calculated with enough water added to make the manure into a slurry for pumping.

PIT CAPACITIES

DIA. X DP	Imp. Gal.	US Gal.	Litre
50 X 8	98,218	58,920	223,036
10	122,773	73,651	278,797
12	147,328	88,380	334,554
60 X 8	140,169	168,333	637,208
10	175,212	210,417	796,514
12	210,254	252,500	955,815
70 X 8	192,325	230,969	874,309
10	240,406	288,711	1,092,886
12	288,487	346,453	1,311,462
80 X 8	251,120	301,578	1,141,592
10	374,000	377,092	1,427,444
12	376,800	452,510	1,712,933
90 X 8	315,381	378,750	1,433,722
10	394,221	473,432	1,792,129
12	473,724	568,909	2,153,549
100 X 8	392,500	471,365	1,784,305
10	490,625	598,206	2,230,038
12	588,788	707,057	2,676,494

To calculate square or rectangle pits:

Cubic Feet x 6.25 = Imperial Gallons x 7.51 = U.S. Gallons

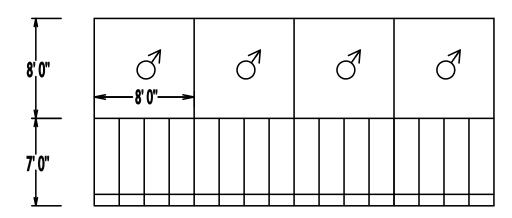
x 28.41 = Litres

In metric, 1000 Litres = 1 Cubic Metre

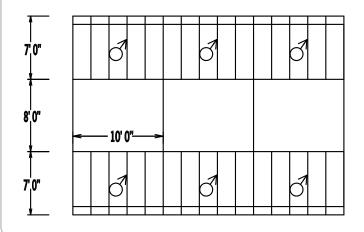


BREEDING LAYOUTS

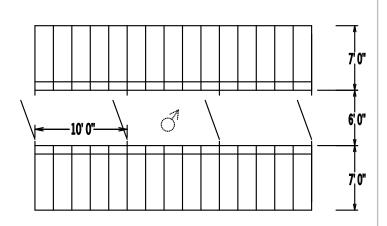
SINGLE ROW WITH BOAR PENS BEHIND



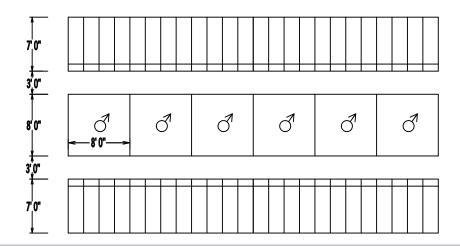
DOUBLE ROW WITH BREEDING IN BETWEEN + BOARS IN STALLS



HEAD TO HEAD + STIMULATION PENS



DOUBLE ROW WITH BOAR PENS IN THE CENTRE





EQUIPMENT LAYOUT

AREA PER PIG REQUIRED FOR FARROWING, WEANING, FINISHER, GESTATION & BREEDING

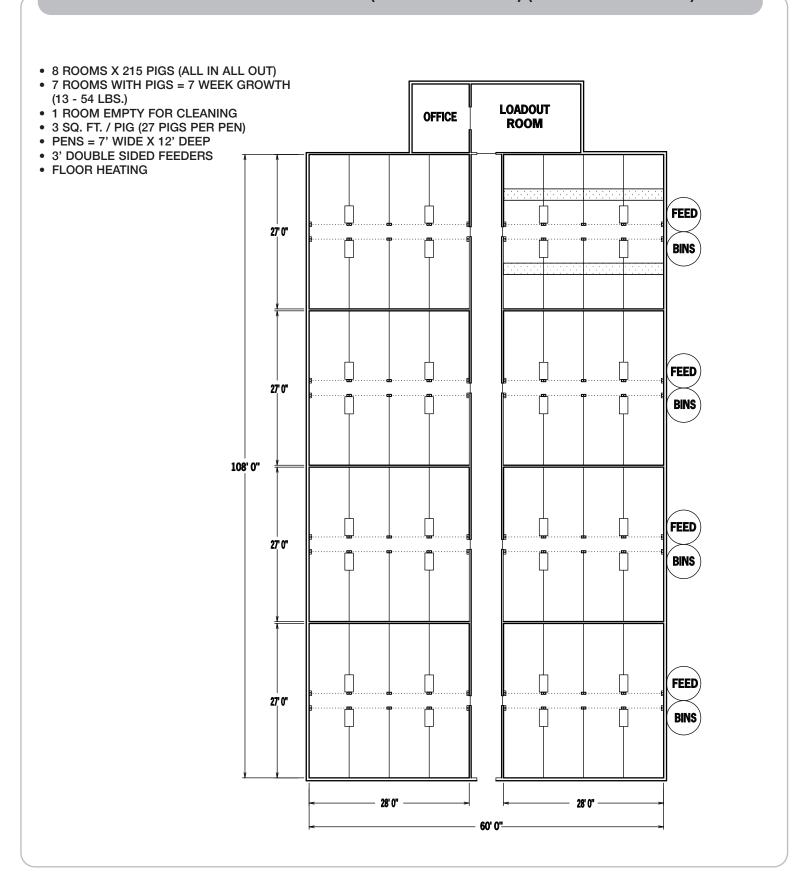
The chart also shows the weight of the pigs at various weeks of age. Pigs growing at this rate are average. (With good management, these growth figures can be exceeded).

AGE	V	VEIGHT	AREA		COMMENTS
WEEKS	LBS.	(KG)	(SQ. FT.) (SQ. M)		
FARROWING		, ,,	, ,	()	
					Crate & Creep Area (5' x 7')
2	10	(4.5)	35	(3.25)	LACTATION
WEANERS					
3	13	(6)			
4	17	(8)			
5	21	(10)			
6	27	(12)			
7	36	(16)			
8	44	(20)	2.8	0.26	(7 WKS IN WEANER PENS)
9	54	(25)	3.0	0.28	
FINISHERS					
10	65	(29)			
11	75	(34)			
12	85	(39)	4.0		
13	96	(44)			
14	107	(49)			
15	118	(54)	5		
16	129	(59)			
17	140	(64)			
18	151	(69)	6.0		
19	163	(74)			
20	174	(79)			
21	185	(84)			
22	196	(89)	7.0		
23	208	(94)			
24	220	(101)			
25	230	(105)			
26	240	(109)	8.0		
DRY SOWS					
115 Day Gestation P	eriod		20 - 25	(1.86 - 2.32)	Sows (Loose Pens)
			15 - 20	(1.40 - 1.86)	Gilts (Loose Pens)
			14	(1.3)	Dry Sow Stalls (Sows & Gilts)
BOARS					
Holding Pens		6' x 10'			(Hand Mating Only)
Breeding Pens		8' x 10'			(8' Sides Minimum)
Stalls	9				(Small Boars)
Stalls		28" x 7 1/2'			(Big + Long Boars)



WEANER BARN

1500 HEAD WEANER BARN (2 WEEK WEANING) (FOR 500 SOW HERD)

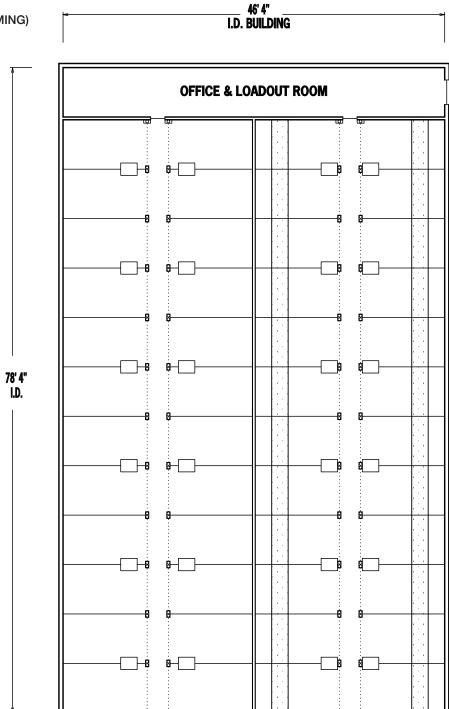




WEANER BARN

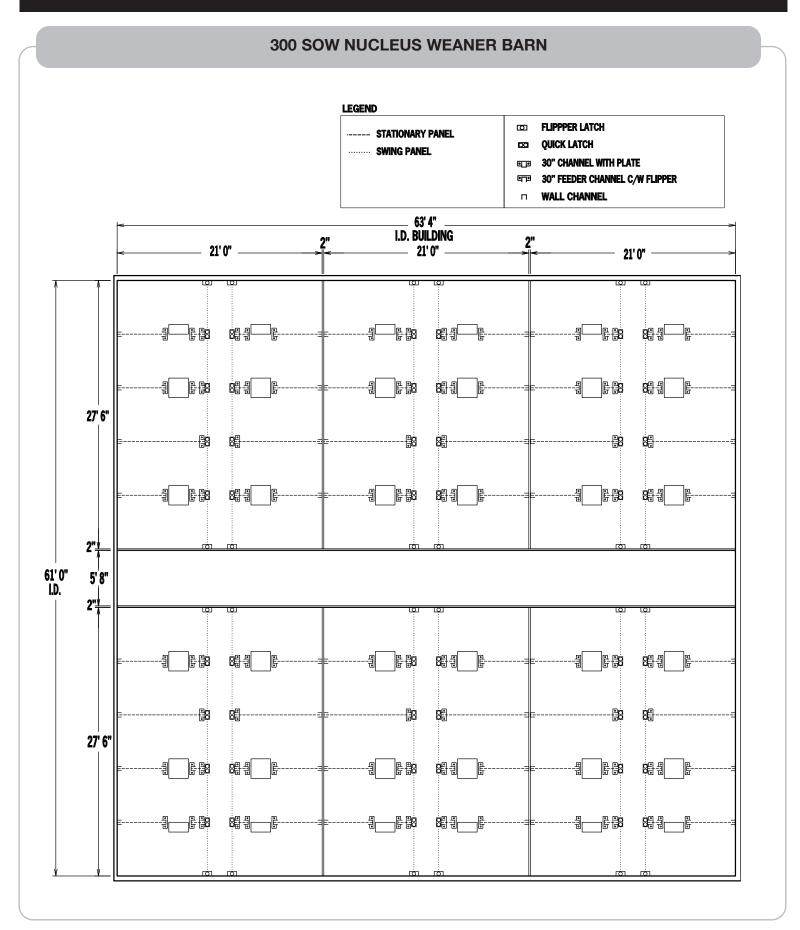
1000 HEAD WEANER BARN

- 2 ROOMS X 500 PIGS
- 3 SQ. FT. / PIG
- 21 PIGS PER PEN
- PENS = 6' WIDE X 10' DEEP
- 2' DOUBLE SIDED FEEDERS
- FLOOR HEATING (PROGRESSIVE FARMING)





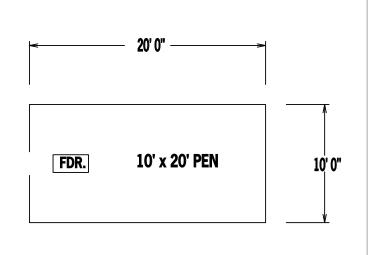
WEANER BARN



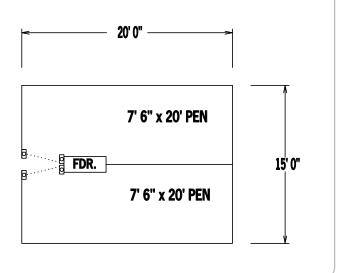


WEANER ROOM LAYOUTS

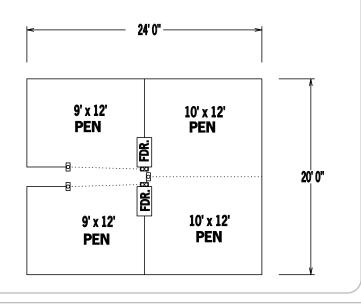
1 ROOM - 1 PEN (66 PIGS)



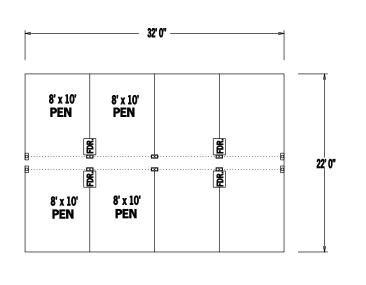
1 ROOM - 2 PENS (NO ALLEY) (100 PIGS)



1 ROOM - 1 PEN (66 PIGS)



1 ROOM - 2 PENS (NO ALLEY) (100 PIGS)



8' X 10' = 26 WEANERS - 2' DOUBLE FEEDER

9' X 12' = 36 WEANERS - 3' DOUBLE FEEDER

10' X 12' = 40 WEANERS - 3' DOUBLE FEEDER

7'6" X 20' = 54 WEANERS - 4' DOUBLE FEEDER

10' X 20' = 66 WEANERS - 3' DOUBLE FEEDER (BOTH SIDES)

(ALLOW 10 TO 12 PIGS/LIN FT. OF FEEDING SAPCE



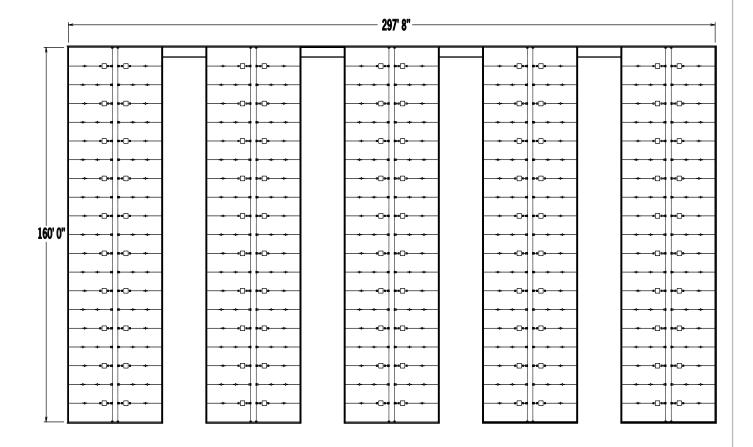
VENTILATION & HEATING GUIDELINES

Type and Size of Pig	Minimum Ventilation	Supplemental Heat (BTU/h/pig)					
	Rate (cfm/ppg)	-20°C	-10°C	0°C	10°C	20°C	
Gestation/Breeding Area	10	500	250	0			
Farrowing Room (Sow & Litter)	17	1000	600	200	0		
Weaning Pig Room							
4 kg	1.3	225	180	130	90	60	
7 kg	1.7	170	120	75	60	45	
14 kg	2.2	110	70	30	10	6	
21 kg	2.5	50	25	0			
30 kg	3.0	0					
Grower/Finisher Room							
25 kg	3.0	220	110	0			
40 kg	4.0	110	0				
60 kg	5.0	0					





FINISHER BARN

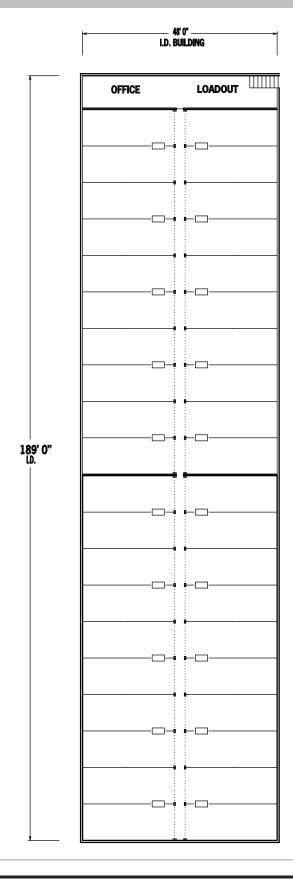




FINISHER BARN

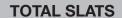
1000 HEAD FINISHER BARN

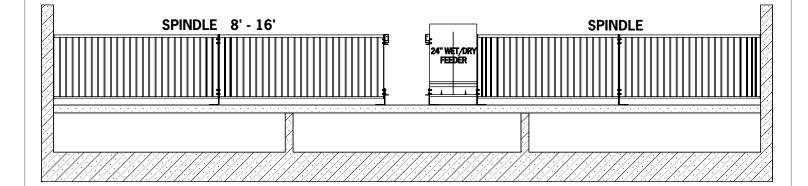
- ALL IN ALL OUT (3 SITE)
- 2 ROOMS X 500 PIGS
- 8 SQ. FT. PER PIG
- TOTAL SLATS
- 3' WET/DRY FEEDERS



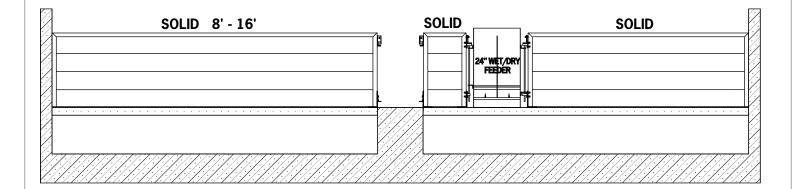








DOUBLE PITS





HEAT PLATE LAYOUT

ASSEMBLY

H BOILER + EXPANSION TANK (APPROX. 70 BTU / HOUR / SQ FT OF HEAT PLATE)

MANIFOLD FEED & RETURN MANIFOLDS c/w PUMP
THERMOMETER ON RETURN LINES TO SHOW WATER TEMP.

RETURN LINE NOT SHOWN

