brought to you by ... CORE

South Dakota State University Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange

Cooperative Extension Circulars: 1917-1950

SDSU Extension

10-1932

Available Agricultural Engineering Circulars and Blue Print Plans

A.E. Anderson

Follow this and additional works at: http://openprairie.sdstate.edu/extension circ

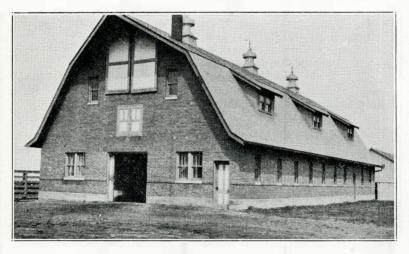
Recommended Citation

Anderson, A.E., "Available Agricultural Engineering Circulars and Blue Print Plans" (1932). Cooperative Extension Circulars: 1917-1950. Paper 322.

http://openprairie.sdstate.edu/extension_circ/322

This Circular is brought to you for free and open access by the SDSU Extension at Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. It has been accepted for inclusion in Cooperative Extension Circulars: 1917-1950 by an authorized administrator of Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. For more information, please contact michael.biondo@sdstate.edu.

Available Agricultural Engineering Circulars and Blue Print Plans



Horse Stable at College Farm

SOUTH DAKOTA STATE COLLEGE EXTENSION SERVICE C. Larsen, Director Brookings, S. D.

Building Facts

- 1.—The plans listed in this circular are not for elaborate and expensive buildings. Most of them are for plain, substantial, well proportioned, serviceable buildings, designed for the owner of the farm. No particular claim for originality is made in the design of these buildings as the best ideas of construction have been freely taken from other plans from practically every state in the Union. Particular effort has been made to design these buildings so that they are uniformly strong. If a building is built stronger in one place than it is in another, lumber is wasted.
- 2.—The importance of constructing a building exactly according to the plan cannot be over-estimated. Usually a few changes will so re-arrange the plans as to change it entirely and often eliminate the best features. Small changes in a plan usually spoil the effectiveness of the ventilating system of that building.
- 3.—A modern attractive building is not fancy. It is plain, but in good proportion, with pleasing lines and well placed windows. It is substantially built, conveniently arranged and well painted.
- 4.—"A chain is no stronger than its weakest link." A building frame is no stronger than its weakest point.
- 5.—A good job of nailing is an important item in the construction of frame buildings.
- 6.—A ventilating system alone will not prevent the deposit of moisture and frost; it will help by carrying out the excess moisture. Two other factors are important in the control of frost—the insulating of cold sidewalls and ceilings, and the keeping up of the temperature to a reasonable degree. The temperature is kept up by having plenty of stock in the barn and by keeping the overhead space low.
- 7.—In concrete work, the proportion of Portland cement to clean hard sand should vary from "1 to 2" to "1 to 3." There should never be more than three parts of sand to one part of Portland cement in concrete work. This would be for the roughest work, such as foundations. Water-tight work should have the proportions of one part of cement to two parts of sand. Pebbles or crushed rock may be added to this mixture up to twice the amount of the sand without decreasing the strength.
- 8.—Recent tests have shown that wall sheathing when put on diagonally will often increase the strength of the wall against end thrust by seven times over sheathing put on horizontally.

Printed Circulars Free on Agricultural Engineering and Related Subjects

Ext. Leaflet No. 6— A Movable Hog House Plan—Patty	Free
Ext. Circular No. 7—Hog Houses for South Dakota—Patty	Free
Ext. Circular No. 9—Vegetable Storage—McCall	Free
Ext. Circular No. 29-A Suggested Farm Entrance-Patty and	
Starring	
Ext. Circular No. 31—Farm Building Ventilation—Patty	
Ext. Circular No. 32—A Serviceable Farm Barn—Patty and Larsen_	Free
Ext. Circular No. 232—A Year's Progress with South Dakota's Farm Electric Test Line—Patty	Free
Ext. Circular No. 264—Pit and Trench Silos—Patty	Free
Ext. Circular No. 271—Better Team Hitches for South Dakota— Hauser	Free
Ext. Circular No. 280—Beautifying the Home Grounds—Ford	Free
Ext. Circular No. 307—A Septic Tank for Farm Sewage Disposal— Patty	Free
Ext. Circular No. 323—Available Engineering Circulars and Blue Print Plans (This Circular)	
Exp. Station Bulletin No. 239—Costs and Uses for Electricity on South Dakota Farms—Patty	Free
Exp. Station Bulletin No. 241—Cost of Electricity for the Home Electric Refrigerator—Patty	Free
Exp. Station Bulletin No. 251—Combining Grain in Weed-Free Fields—Wiant and Patty	Free
Blue Print Plans	
The nominal charge made for blue print plans merely covers the cost of th print paper used in printing them.	e blue
Barns	
Barns No. 121—General Barn Plan4 sheets	10è
36 ft.x60 ft. Sets north and south, with feedway in center	
Capacity 8 horses, 13 cows. Calf pen and 2 box stalls. Side	
walls of clay block up to loft, although may be built of lumber.	
No. 122—General Barn Plan5 sheets	s 50c
36 ft.x60 ft., with "L" on northeast corner for loose and young stock. Provides sheltered lot. Capacity 10 horses, 12	
dairy cows, bull, 12 calves, and carload of loose stock. Feed	l
room and silo. Stock faces out, with driveway through cen- ter. This barn is built in sections as funds permit. Bill of	
material in Extension Circular No. 32.	40
No. 123—General Barn Plan4 sheets 34 ft.x46 ft. Sets north and south. Stock faces out, with	
driveway through center. Capacity 8 horses, 10 cows and good calf pen.	

		-Dairy Barn Plan				
		Safety Bull Pen1 sheet Size of pen—16 ft.x64 ft. Sixe of shed—12 ft.x16 ft. Size of breeding stall—4 ft.x12 ft. 8 in. Pen is built of heavy cedar posts and plank. Details given. Bill of material attached.				
No.	131—	2 sheets 20 ft.x96 ft. This shed sets east and west, with a feed rack for hay along the north side. Designed for beef cattle and range conditions. Fully ventilated.				
No.	132—	132—Beef Cattle Shed2 sheets 200 92 ft.x20 ft. Capacity for 50 fat steers. This shed is designed to fit into the northwest corner of the feeding lot. It is closed on the north and west sides and the ends are open on the east and south. Built of lumber on a good concrete foundation.				
		Farm Houses				
No.	411—	-Farm House Plan3 sheets A full two-story square frame construction with 9 rooms and bath. Contains wash room and office on first floor; and laundry in basement. Over-all dimensions 40 ft.x28 ft. Bill of material attached.	30c			
No.	413—	-Farm Tenant House3 sheets Story and a half, 5-room house. Estimated cost \$2000 without basement.	30c			
	A.	Ice Houses				
No.	441-	-Ice House Plan2 sheets	20c			
		Semi-basement plan, with capacity for 20 to 25 tons. 12 ft.x 12 ft. inside measurement. Concrete walls. May be tile or frame. Hip roof.				
No.	442—	-Ice House Plan1 sheet 14 ft.x18 ft. Built of cement blocks.	10c			
No.	445—	-A Farm Ice Well1 sheet This is a plan of an ice well that was drawn and built for experimental purposes. The building is not strongly recom- mended for South Dakota, necessarily.	10c			
		Poultry Houses				
No.	311—	-Poultry House Plan2 sheets 16 ft.x32 ft. as shown in plan. The plan calls for 16 ft. units, each unit the same. The house may be built in lengths of 16 ft., 32 ft., 48 ft., or 64 ft. Frame house, faces south, combination roof, straw loft, capacity of 65 to 75 birds for each 16 ft. unit. Bill of material attached.	20c			

1- (4	Logica Espera (New Colonia) and Carl	trital A
	321—Turkey Shed1 sheet An inexpensive shed for turkeys. Building 24 ft.x24 ft. with flat gabled roof. May be converted into machinery shed. Par- tial open front protected with heavy woven wire fence. Ca- pacity for 175 turkeys.	24
No.	351—Brooder and Colony House Plan1 sheet 10 ft.x12 ft., with combination roof. Matches poultry house	10c
	plan No. 311. Movable. Bill of material on blue print. Estimated cost of material \$87.	143
100	Hog Houses—Centralized	1114
No.	211—Iowa Sunlit Type2 sheets	20 c
20"	Clay tile construction, 25 ft.x60 ft., 20 pens. Sets north and south. Estimated cost, completely equipped, \$900. Bill of	
No.	material given in Extension Circular No. 7. 212—Dakota Hog House Plan2 sheets Clay tile walls. 25 ft.x60 ft., 20 pens. Sets east and west. Driveway and feeding floor through center.	20c
	213—Frame Hog House Plan 2 sheets 24 ft.x48 ft. 16 pens. Sets north and south. No loft. Esti-	
	mated cost, completely equipped, \$800. 214—Semi Monitor Hog House Plan2 sheets 24 ft.x48 ft., 16 pens. Frame construction. Sets east and west. Estimated cost. fully equipped, \$800.	
No.	west. Estimated cost, fully equipped, \$800. 215—Hog House with Loft Overhead2 sheets	
	24 ft.x48 ft., with loft for alfalfa and bedding. Gable roof, ventilating system. Sets north and south. Bill of material attached.	
	216—Small Hog House (not movable)1 sheet 12 ft.x18 ft., 3 pens in a row. Sets east and west. Combination roof. Bill of material on blue print. This house may be built longer. 217—Economy Hog House Plan1 sheet	
No.	8 ft.x36 ft., 6 pens. Sets east and west. Combination roof,	
	rough lumber. No floor. Estimated cost of material, \$60. An excellent 2-pen movable house may be built from this plan	
No.	if built only 2 pens long. Bill of material on blue print. 218—Small Shed Hog House Plan1 sheet	10 c
	12 ft.x30 ft. Shed house. Faces south, with feed alley along north. 5 pens.	
	Hog Houses—Colony	47
No.	251—Movable and Colony Hog House Plan1 sheet "A" type with sun doors in roof. 7 ft.x8 ft. on the ground.	10 c
2.7	Roomy, substantial, ventilated, easy to build, lumber cuts right. May also be built 6 ft.x8 ft. Shown in Extension Leaflet No. 6. Estimated cost of material, \$20. Bill of material on blue print.	50
No.	253—Movable Hog House Plan2 sheets Rectangular house with shed roof 6 ft v8 ft Estimated cost	20c
	Postonoulan house with shed worf 6 ft v9 ft Festimeted and	

Rectangular house with shed roof. 6 ft.x8 ft. Estimated cost of material, \$33.75. Bill of material on blue print.

No.	255—Two-pen Movable Hog House Plan1 sheet 8 ft.x12 ft. with combination roof. A very economical low type movable hog house. Can be built from native lumber or from used lumber. Bill of material on blue print.	10c
11.	Miscellaneous Buildings	
	711—Machine Shed Plan—————————2 sheets Frame building. 24 ft.x60 ft. Gable roof. Continuous doors on side. Should face south or east.	20c
No.	886—Substantial Foot Bridge Plan1 sheet (small) This plan is for a substantial foot bridge 4 feet wide, built upon driven piling. Suitable for good sized creek.	5c
No.	911—Community Building Plan3 sheets Building for Farmers' Club or other organization. Full basement, first story 32 ft.x60 ft. with stage extension 12 ft.x30 ft. Good basketball court. Cloak room, check room, motion picture space, with auditorium on first floor and din- ing room in basement. Estimated cost of material, \$3,000.	30c
	921—Livestock Sales Pavilion Plan————————————————————————————————————	20c
No.	931—Exhibit Booth Plan1 sheet (small) An exhibit booth for fair or other exhibit.	5c
No.	932—Sharpening Plow Shares1 sheet (small) This plan shows the manner of sharpening plow shares.	5c
	933—Wire Splicer1 sheet (small) A plan for a very handy and simple tool for splicing wire, to be made at the forge of the farm shop.	5c
No.	941—Large Nine Section Farm Plant1 sheet (small) This plan shows a general arrangement of buildings on a nine section farm plant in which both stock barns and houses are assembled in the center of the tract.	5c
	Horse Eveners	
	5141—4-Horse Evener1 sheet (small) For 14-inch gang plow.	
No.	5151—5-Horse Eveners	10c
No.	5152—5-Horse Evener1 sheet (small)	5c
No.	For spike tooth harrow or drag. 5161—6-Horse Eveners1sheet(small) For 12-inch gang plow.	5c
	Self Feeders	
No.	5211—Self Feeders for Hogs	10c
No.	of material on blue print. 5212—Self Feeder for Hogs1 sheet One-way feeder for shelled corn, grain, and ground feed;	10c

	also tankage compartment. Capacity, 12 to 15 shoats. Easy to build, easy to move. Good inside feeder. Designed by A.H.K. Bill of material on blue print.	
No.	5213—Portable Self Feeder1 sheet A plan for a self feeder for cattle for feeding ground feed. Sets on a steel wheeled wagon truck.	10c
	5219—Alfalfa Feeding Rack for Hogs1 sheet Rack 8 feet long. Capacity up to 30 hogs.	
No.	5231—Sheep Feeding Rack for Hay1 sheet (small)	5c
	Stalls and Mangers	
No.	533—An Adjustable Cow Stall1 sheet An adjustable double stall for beef cattle. Could be used for dairy stall. Length of stall is adjusted by a moving manger.	10c
No.	534—Horse Stall	5c
	Hay Stackers 541—Hay Stacker1 sheet	
No.	541—Hay Stackerl sheet Simple home-made outdoor stacker with swinging boom on a vertical pole mounted on skids.	10c
	Fences	
No.	551—Fence Plan1 sheet	10c
	A plan for an attractive, substantial plank fence for barn lot. Also plan for high tight board fence for sheltered lot. 552—Concrete Corner Post1 sheet	
110.	Plan showing ornamental concrete corner and gate post. Also a suggested ornamental entrance.	100
	Dipping Vats	
No.	561—Cattle Dipping Vat	10c
No.	After Portland Cement Association plan. A concrete vat 18 feet long by 2 feet wide, with reinforced concrete. Also	10c
	chute and dripping pen. Bill of material on blue print.	
	Plans for Carpenter Shop Exercises	9
No.		5c
	Plan for small picture frame with glass 5x7 inches. Made of hardwood	oc.
No.	55—Hammer Handle1 sheet (small) This plan shows the dimensions for making a hammer handle out of hickory or walnut.	5c
No.	56—Field Board1 sheet (small) A simple exercise in gluing and smoothing. Plan for a field board such as is used for clerking sales, or laboratory field	5c

	work.	
No	work. 57—Broom Rack1 sheet (small) Plan for making a very useful rack for the broom out of	5c
110.	Plan for making a very useful rack for the broom out of	oc
2.5%	nine.	
No.	pine. 58—Clock Case1 sheet (small)	5c
	A plan for making a small clock by mounting an inexpen-	
4.74		
No.	59—Drawing Board1 sheet (small)	5c
	Plan for making a drawing board for drafting work. Bass-	
	wood lumber preferred.	
No.		5c
	A plan for making a one bushel crate out of hardwood.	
No.	62—Cutting Rafters 1 sheet (small)	5c
	A plan briefly showing how a rafter is cut for a one-half	
0	mitch word	
No.	filter root. 64—Saw Filing1 sheet (small)	5c
	Plan showing the difference in filing of cross cut and rip	
No.	saw. 65—Saw Horse1 sheet (small)	5c
	This is a plan for making a simple substantial saw horse,	
	using pine or fir lumber. 67—Mitre Box1 sheet (small)	
No.	67—Mitre Box1 sheet (small)	5c
	Plan for making simple mitre box.	
No.	68—Bird House1 sheet (small)	5c
	Plan for bird house designed for woodpeckers. Built of pine	
N-		
No.	or cypress. 69—Nest Shelter1 sheet (small)	5c
577	A plan for a semi-open bird house. Designed especially for	
	robins. Made out of pine.	
No.	robins. Made out of pine. 70—Bird House1 sheet (small)	5c
	Plan for bird house to be made out of hollow tree.	
No.	75—Window Screen1 sheet (small)	5c
	Plan for making frame for common window screen.	
No.	77—End Table1 sheet (small)	5c
	Plan for a simple exercise in cabinet work. Small 3-legged	
	end table, fits at chair arm. Made of hardwood.	
No.	571—Exhibit Tray for Corn1 sheet (small)	5c
	Plan for a 10-ear sample of corn for exhibits or corn shows.	30
No.	572—Nail and Hammer Box1 sheet (small)	5 c
	Plan for nail and hammer box, handy for shop and a good	
	carpenter exercise.	
	Barn Framing	
No	151—Barn Framing Plan2 sheets	200
IVO.	Shows standard plans for braced rafter, shawver, and Gothic	200
	roof construction. Designed from results of all testing work	
	to data	
No	152—Shed Roof1 sheet	100
140.	A plan showing that a shed roof for farm buildings is both	100
***	expensive and wasteful. The shed roof is compared with the	
	gable and combination roof for efficiency in building. A good	0
	plan for Smith-Hughes teachers.	
	promitor billion tragillo beachers.	

	Home Improvements	
27		10
No.	612—Septic Tank Plan1 sheet	10c
	A simple two-compartment tank. Family size. Highly effi-	
	cient for farm service. Plan also shown in Extension Cir-	27
	cular No. 35, which also contains the bill of material.	-
	621—Sanitary Concrete Well Curb1 sheet	
No.	631—Cistern Plan1 sheet	10c
	A plan for inexpensive cistern where clay soils are available.	ir.
	Jug shaped. Plastered on soil.	
No.	Jug shaped. Plastered on soil. 632—Concrete Cistern Plan1 sheet	10c
	Cistern of re-enforced concrete. Rectangular with filter on	24
	top. After Portland Cement Association plan.	
No.	641—Coolers1 sheet	10c
	Iceless cooler, home-made. Principle of evaporation. Also	
	cold window-box plan on same sheet.	
No.	642—California Air Cooler1 sheet	10c
110.	This is a cabinet cooler built in the kitchen and may be com-	100
	bined with the built-in kitchen cupboards. The idea of this	
	cooler is to circulate the cool air from the basement through	
	this cabinet and on up into the attic or into the chimney.	-
	It is used for cooling foods. Size of cabinet shown on plan,	
	28 in.x18 in., outside dimensions.	
Mo	651—Tea Cart1 sheet	100
NO.	Wheel J Trans desired for House Economic data Esti	100
	Wheeled Tray, designed for Home Economics clubs. Esti-	
27	mated cost, \$10.	10
No.	661—Fire Place Plan1 sheet Fireplace showing arrangement for check damper and	10c
	Firenlace showing arrangement for check damner and	
	2 replace browning arrangement for enech damper and	
	smoke shelf which prevents back draft.	
	smoke shelf which prevents back draft.	Ž
No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans1 sheet	10c
No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a dif-	10c
No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans1 sheet This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied	10c
No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a dif-	10c
No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same.	
No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same.	
	Farmstead Plans 851—Farmstead Plans 1 sheet This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing respectively).	
alor	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing ring the south).	oad
alor No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing ring the south). 811——————————————————————————————————	oad
alor No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing ring the south). 811——————————————————————————————————	road 10c 10c
alor No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing ring the south). 811	10c 10c 10c
alor No. No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing ring the south). 811	10c 10c 10c 10c
alor No. No. No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811	10c 10c 10c 10c 10c
alor No. No. No. No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811——————————————————————————————————	10c 10c 10c 10c 10c
alor No. No. No. No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811	10c 10c 10c 10c 10c
alor No. No. No. No. No. No.	Farmstead Plans 851—Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811	10c 10c 10c 10c 10c 10c
alor No. No. No. No. No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811	10c 10c 10c 10c 10c 10c
alor No. No. No. No. No. No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811	10c 10c 10c 10c 10c 10c 10c
alor No. No. No. No. No. No. No.	Farmstead Plans 851—Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811	10c 10c 10c 10c 10c 10c 10c 10c
alor No. No. No. No. No. No. No.	## Farmstead Plans Farmstead Plans	10c 10c 10c 10c 10c 10c 10c 10c
alor No. No. No. No. No. No. No.	smoke shelf which prevents back draft. Farmstead Plans 851—Farmstead Plans This plan shows four small farmsteads, each with a different front. It is suggested that this plan might be studied in connection with any front desired, together with special plans for the same. The following plans are best adapted to a south front (facing range the south). 811	10c 10c 10c 10c 10c 10c 10c 10c 10c
alor No. No. No. No. No. No. No. No. No.	## Farmstead Plans Farmstead Plans	10c 10c 10c 10c 10c 10c 10c 10c 10c 10c

10	δ.	D. EXTENSION CIRCULAR 525				
			ш			
No 8	233	1 sheet 10)c			
		1 sheet 10				
	No. 835					
110.	The following n	lans are best adapted to a west front.	, ,			
		1 sheet 10)c			
		1 sheet 10				
No.	852-Yard Plan	Only1 sheet (small) 5	oc .			
,	This plan is for	the north or west front.				
No.	853—Yard Plan	the north or west front1 sheet (small) 5	бc			
	East front.					
No.	854—Yard Plan	1 sheet (small) 5	бc			
	South or west i	front.				
		Plans for School Ground Planting				
	(t	y A. L. Ford, Landscape Architect)				
		For Rural Schools				
No.	861—For South	east Corner Location1 sheet 10)c			
No.	862—For Any 1	Location (not corner)1 sheet 10)c			
	Any front					
No.	863—Corner Lo	ocation (any corner)1 sheet 10)c			
No. 8	864—Any Locat	tion. Plenty of trees1 sheet 10)c			
No.	865—Corner Lo	cation1 sheet 10)c			
	Drive from	n each way. e Ground1 sheet 10				
No.	867—For Large	e Ground1 sheet 10)c			
	With barn	or garage location.				
		For Town Schools				
No.	871—Planting f	for Town School1 sheet 10)c			
	Grounds c	over one city block, 300 ft.x400 ft.				
No.	No. 872—Planting for Town School1 sheet 10c					
	Planting for larger ground than above. Should cover at					
	least two city blocks. Playground for small children; and ground for baseball and outdoor basketball court.					
		Miscellaneous lts1 sheet (large) 15				
No.	881—Shelter be	lts1 sheet (large) 15	5c			
		erent plans for shelter belts are shown to suit the				
		local conditions. Planting varieties included.				
No.		d Entrance Arch1 sheet 10)c			
		nstruction. Includes sales-bulletin boards. Also				
	shown in l	Extension Circular No. 29. Bill of material in cir-				
	cular.					
PI	LANS OF BUR	EAU OF AGRICULTURAL ENGINEERING, U. S.				
	DEPARTMEN	T OF AGRICULTURE, WASHINGTON, D. C.				
them (These plans are pri	nted from Van Dykes, furnished by the U.S.D.A. We can furnished print paper as listed).	sh			
689-		Hurdles, for handling hogs, frame construc-				
003-6	1404	tion 1 sheet 10)c			
698-1	B 1453	Hog Wallow, 12x9, concrete construction, bill	,			
030-1	D 1400	of material 1 sheet 10)c			
		of management of the state of t				

698 - \mathbf{F}	1472	Shipping Crates, various sizes, bill of mater-	
		ial included1 sheet	10c
689-C	1449	Scale Fence, hinged pen for scales, suitable for	
		hogs 1 sheet	10c
670-P-4	B-1283	Septic Tank, capacity 20 persons, concrete con-	
		struction, settling chamber 6'x3'6"x5'6" in depth.	
		Automatic syphon1 sheet	20c
686-C	B 500	Hay shed, 28' wide by any length. 16' bents,	
		enclosed second story 1 sheet	20c
687-A	570	Implement Shed, with shop included, "L" shape,	
		shop 16'x18' in center, frame construction.	
		1 sheet	20c
685-D	1284	Colony Poultry House (moveable), 14'x15', frame	
		construction, shed roof 1 sheet	
685-D	1278	Brooder House, 10'x14', frame construction,	
		gable roof 1 sheet	20c
686-E	883-C	0 , 1 ,	
		16'x20' 1 sheet	10c
686-D	889-B	, , , , , , , , , , , , , , , , , , , ,	
		bins on other, 10' driveway, gable roof, 9' posts	
		2 sheets	40c
687 - \mathbf{F}	1341	Milk House, 12'x14', one room, frame construc-	
		tion1 sheet	20c
687- F	1336	Milk House, 20'x10', milkroom, washroom,	
		boiler room, fuel bins and cooling tank, frame	
		construction 1 sheet	20c
685-A	A 1175	Cattle Barn for Beef Cattle, 72'x36', twin silos,	
		feed room, frame construction, dormer windows,	
000 TT		16' posts, gambrel roof, Wing frame 3 sheets	
689-H	1451	Breeding Crate for Hogs1 sheet	10c

Extension Service South Dakota State College of Agriculture and Mechanic Arts Brookings, South Dakota

Published and distributed under Acts of Congress, May 8 and June 30, 1914, by the Agricultural Extension Service of South Dakota State College of Agriculture and Mechanic Arts, Brookings, C. Larsen, director, U. S. Department of Agriculture cooperating.