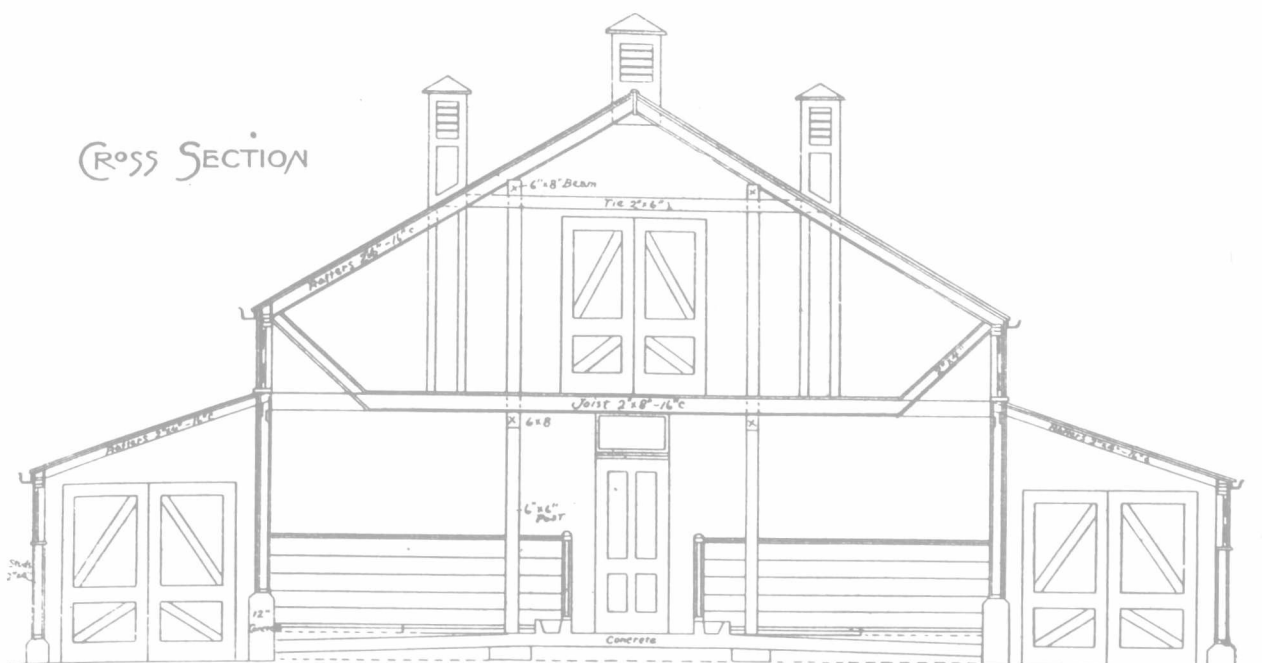


Description of a Modern Piggery



THE PIGGERY AT THE MANITOBA AGRICULTURAL COLLEGE.

In last week's issue on page 1684 mention was made of the piggery at the Manitoba Agricultural College, a detailed description and plans of which are given herewith. Several features are worthy of note, the ample cellar for storing

SPECIFICATIONS.

Make necessary excavation for cellars that it will be seven feet in the clear from top of finish floor in cellar to the underside of ground floor joist.
Dig two feet back from walls to allow mason to point and cement walls.

not more than 4-inches of concrete to be placed before being tamped.

Contractor or contractors to see that the trenches are well taken out and that they are well protected, so that sides will not fall in when putting in the concrete, trenches if found necessary to have wooden supports.

Also from wood trenches to sizes required for the footings partitions, troughs, raised floors and walls, these to be left in until concrete is well set.

No concrete is to be placed into trenches before same is properly taken out, sides straight, plumb and bottom level.

After the concrete work is perfectly set, give same a good coat of cement mortar composed of two parts of good coarse sharp sand to one part of Canadian Portland Cement "Approved" and all put on in a mechanical manner and to be approved of by the Architect; all work above grade to be smooth surface, this will include all exterior walls and interior walls both inside and out.

The floors, partitions of pens, troughs, etc., to have a top coat one inch thick composed of one part of Canadian Portland Cement "Approved" and two parts of Bird's Hill sand—have all surfaces perfectly smooth.

The floors of all pens to have fall as shown on plans—and section—this to be carefully done.

Over all windows to cellar place railroad iron over same and to thickness of wall and reinforce the concrete in same—all as directed—all windows in cellar to have jambs and sills splayed.

Place two fresh air inlets as shown on plan, same to be of galvanized iron pipe.

Bed in proper wood blocks, plates, etc., to nail all wood work to, to make a complete job. Perform all cutting for and make good after all other trades and work in unison with all trades.

BRICKWORK.

All brickwork to be of an even and the best description of hard well burnt bricks of Winnipeg make or any other approved, no inferior or soft bricks will be allowed on the work.

The joints not to be more than 3-8 inch thick, rubbed down and finished with a selected joint and color for same.

Build flues for chimneys as shown on plans, and well parquettied on the inside, with mortar, build in thimbles as directed, put in ash doors in all flues at bottom of flue.

All flues to be carried clean and straight, and to have the five last courses at top built on with cement mortar. Build chimneys as shown on elevations.

Build catch basin as shown on basement plan 2 ft. in diameter inside measurement, and provide and put a cast iron frame and cover to same, cover to be perforated.



GROUND PLAN OF THE M.A.C. PIGGERY.

2 squares in the pens denote the location of the floored (lumber) sleeping beds.

CONCRETE WORK.

Place concrete footings under all walls, posts, etc., all to be of the sizes and dimensions shown.

The walls of cellar, all exterior and interior walls and partitions of pens and troughs and all floors and raised floors except over cellar, to have concrete. All to sizes as shown on plans and sections.

Concrete to be composed of one part of the best Portland cement "approved brand," four parts of clean broken stone, and two parts of coarse Bird's Hill sand, mixed with sufficient water to make all of a plastic nature, mixed on a wooden platform, all to be well mixed by careful men and not too large of a batch, no concrete to be prepared longer than thirty minutes before being placed in trenches, all concrete to be well tamped with a 40-lb. tamper and

Lime mortar used for brickwork shall be composed of fresh burnt lime, one part of lime to two parts of sand, all mortar to be mixed at least twenty-four hours before being used.

All cement mortar shall be composed of one part of Canadian Portland cement to three parts of lime mortar.

All sand to be sharp grit sand, screened Bird's Hill sand or any other approved sand, for brick work river screened sand.

Cement brand to be approved before being used.

Bricklayer will be held responsible for any damages his work may sustain from any cause whatsoever, and he is to be careful to protect the brick work during the progress of the building, from rain, etc. See that all flues are left in a perfect working order, and leave in a clean shape. Clean away all rubbish from the building at completion.

REPEATED