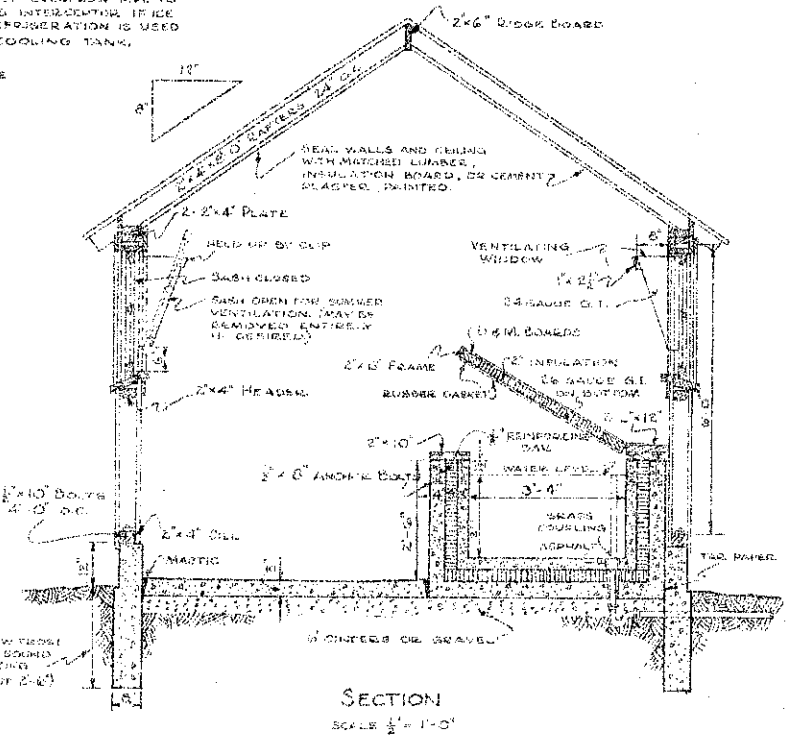


TO SOLID INTERCEPTOR
IF ICE OR REFRIGERATION IS USED
TO STOCK TANK IF CIRCULATING WATER IS USED AS THE COOLING AGENT.

CONNECT OVERFLOW PIPE TO SOLID INTERCEPTOR IF ICE OR REFRIGERATION IS USED FOR COOLING TANK.

ALL WINDOWS SCREENED



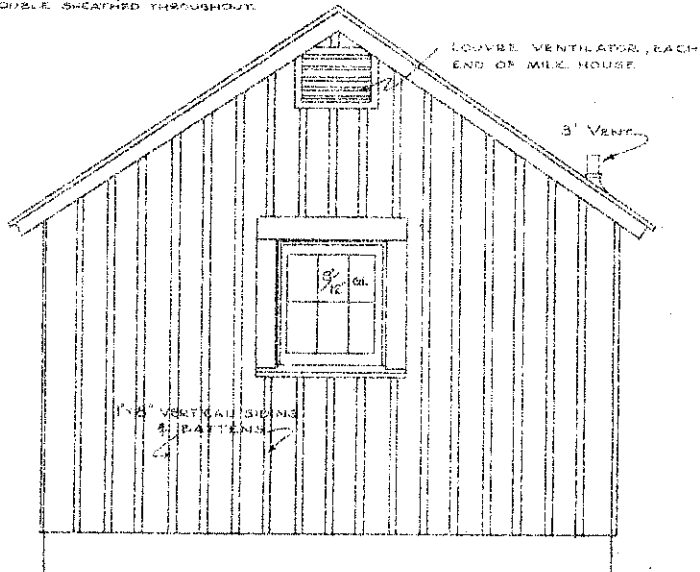
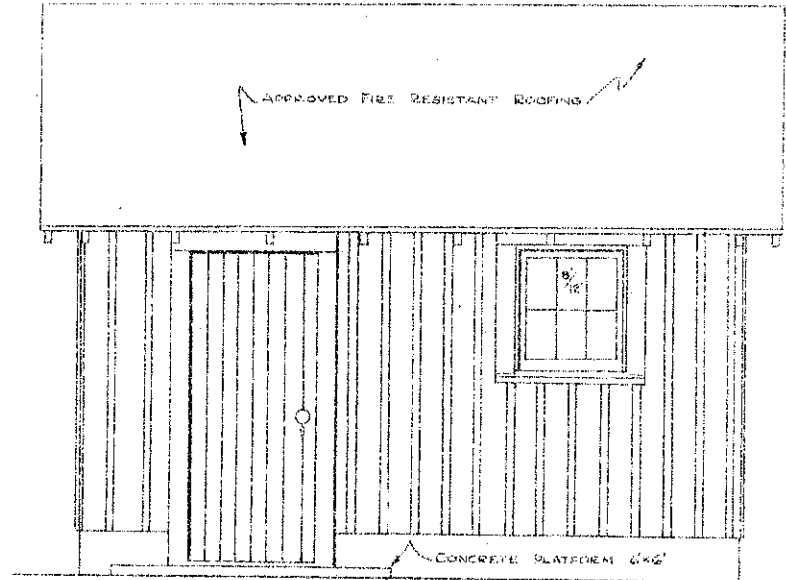
NOTE: TO SECURE SANITATION, APPEARANCE, AND COMFORT, IT IS RECOMMENDED THAT MILK HOUSE WALLS & CEILING BE DOUBLE SHEATHED THROUGHOUT.

BILL OF MATERIAL
CONCRETE FOUNDATION, FLOORS AND SOLID INTERCEPTOR:
47 BAGS OF CEMENT, 3 1/2 CUBIC SAND
7 CUBIC CRUSHED STONE.
16-1/2" x 10" BOLTS FOR FOUNDATION

LOUVERS:
6 PIECES OF 2'x4'x 1/2" O"
22 " " " 2'x4'x 1/2" O"
23 " " " 2'x4'x 1/2" O"
1 " " " 2'x6'x 1/2" O"
3'x14'-0" BOARDS TO COVER 374 SQ. FT.
565 LINEAL FEET OF 1/2" x 3" BATTENS
20'x SPRAYING TO COVER 155 SQ. FT.
ROOFING TO COVER 205 SQ. FT.
SEALING FOR INSIDE OF HOUSE TO COVER 725 SQ. FT.
25 SQ. FT. OF 1/4" x 1/4" G" FLOORING FOR OUTSIDE DOOR.
1 PIECE OF 1'x4'x 1/2" O" PINE OR Y.P. FOR DOOR CLEATS.
3 WINDOW SASH, SLIGHTY, 3'x12', 1 1/2"
14 LINEAL FT. OF WINDOW SCREENING, 20' WIRE.
42 LINEAL FT. OF 1'x2" CYPRESS FOR WINDOW SILL KENS
2'x2" OF 24 GA. G.I. GALV. SHEET FOR WINDOW GUARDS.
2 SCREEN DOORS 2'-8" x 6'-0" x 1 1/2"

WINDOW FRAMES AND CHANGES (USE DRESS LUMBER)
SILLS - 1 PC. 2'x8'x 10'-0" OAK OR CYPRESS
FRAMES - 4 PCS. 1'x6'x 12'-0" Y.P.
BLIND STOW - 4 PCS. 1'x1 1/2'x 12'-0" Y.P.
INSIDE CASING 6'x6' OF 1'x3'5" Y.P.
OUTSIDE CASING 48' OF 1'x3'5" Y.P.
WINDOW STOPS - 18' OF 1'x4" Y.P.

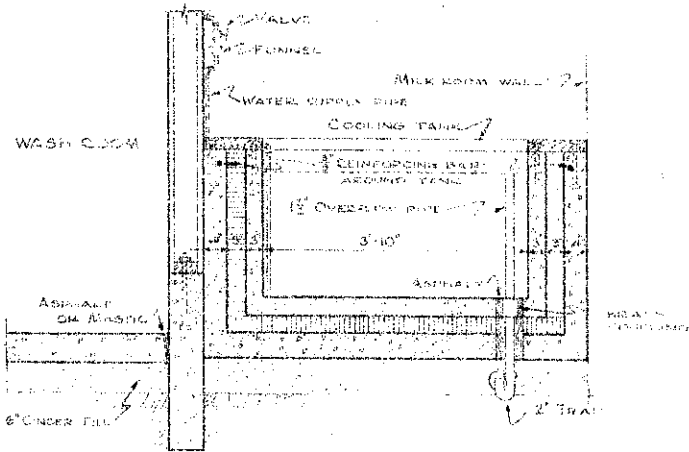
DOOR FRAMES
3 PCS. OF 2'x6'x 14'-0" Y.P.
CASINGS 5 PCS. OF 1'x6'x 14'-0" Y.P.
TWO LOUVER VENTILATORS
HARDWARE & FIXTURES TO BE SELECTED BY OWNER.



*NEW PLAN
HAS TWO
SASHES*

COOPERATIVE EXTENSION WORK IN
AGRICULTURE AND HOME ECONOMICS
STATE OF NORTH DAKOTA
NORTH DAKOTA AGRICULTURAL COLLEGE
AND
U.S. DEPT. OF AGRICULTURE COOPERATING
EXT. AGR'L. ENGINEER-FARGO, N.DAK.
MILK HOUSE.
MIDWEST 75203-39 EX. 5355 SHEET 1 OF 3

PLUMBING & TANK MATERIAL



LONGITUDINAL SECTION THRU TANK

SHOWING INSTALLATION OF WATER PIPE IF WATER IS USED AS COOLING AGENT.

SCALE $\frac{1}{2}$ " = 1'-0"

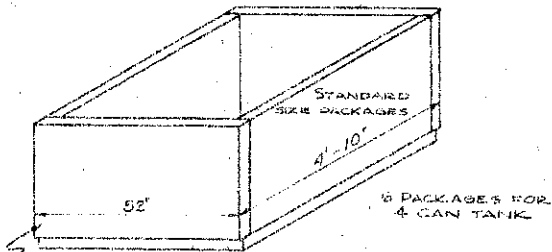
NOTE - COOLING TANK INSULATION MUST BE WATERPROOF AND SHOULD HAVE AN INSULATING VALUE EQUIVALENT TO 3" OF CORK.

PLUMBING

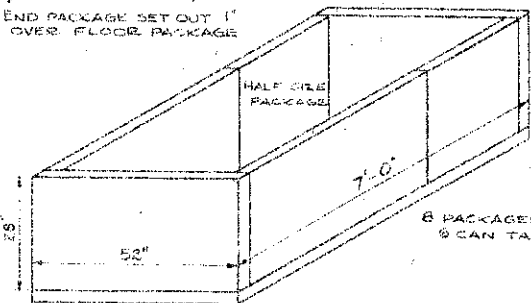
- 1-3" C.I. FLOOR TRAP
 - 4 LENGTHS OF 3" C.I. SOIL PIPE
 - 1-3"x3" 2" C.I. TEE
 - 1-2"x2" C.I. TEE
 - 2 LENGTHS OF 2" C.I. SOIL PIPE FOR STACK
 - 2-3' LONG INCREASE
 - FLANG PLANNING
 - 2-6" OF 2" GALV. W.I. PIPE
 - 1-2" BRASS TRAP
 - 1-2"x3" GALV. NIPPLE
 - 1-2"x2" GALV. TEE
 - 1-2"x2" GALV. COUPLER
 - 1-2" GALV. ELBOW
 - 2-2" GALV. COUPLINGS
 - 2-2"x3" GALV. NIPPLES THREADED AT ONE END
 - 1-3" GALV. ELBOW
 - 1 PC. 3"x2 1/2" GALV. PIPE
 - 1 PC. 3"x3 1/2"
- AMOUNT OF DRAIN PIPE AND TEE DEPENDS UPON LOCATION OF DRAIN FIELD.

PIPE FOR CAN DRYING RACK

- 6-3/4" GALV. WALL FLANGES
- 2-3/4" GALV. ELBOWS WITH 1/2" PIPE OPENINGS
- 2-1/2" TEE'S
- 4 PCS. OF 2"x12" GALV. PIPE
- 2 PCS. OF 1"x3'-8" GALV. PIPE
- 2 PCS. OF 1"x26"
- 2 PCS. OF 1"x16"

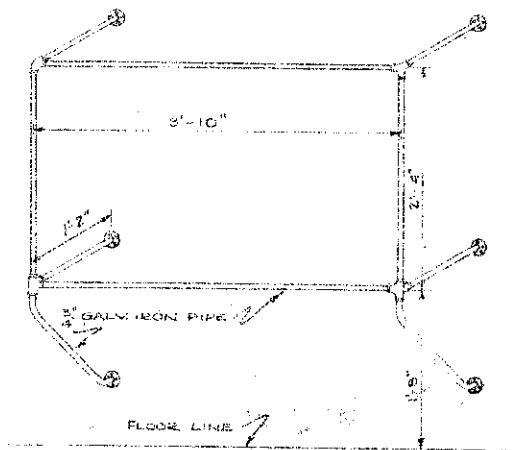


6 PACKAGES FOR 4 CAN TANK



6 PACKAGES FOR 9 CAN TANK

END PACKAGE SET FLUSH WITH FLOOR PACKAGE INSULATION DETAIL

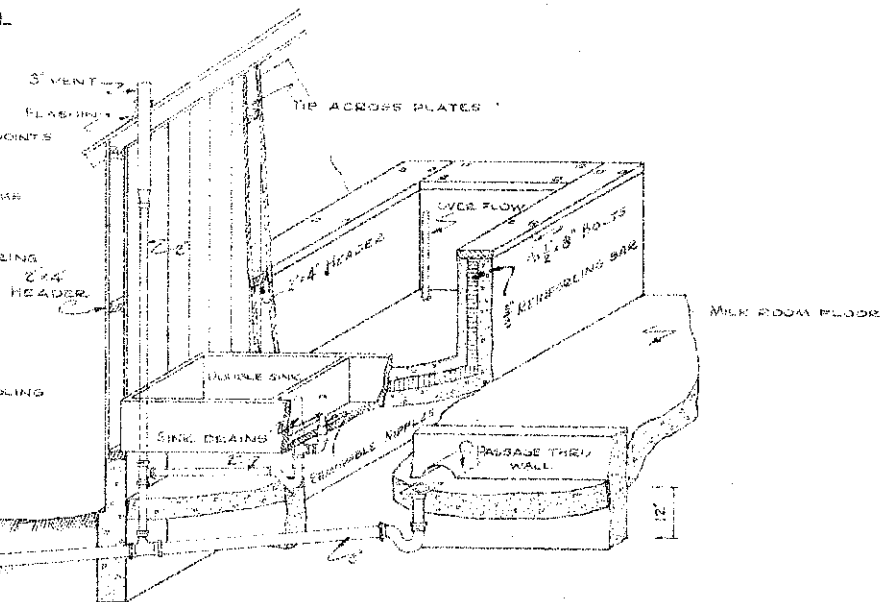


CAN RACK DETAIL

PLUMBING & TANK MATERIAL (CONTINUED)

FOR THE TANK

- 11 BAGS OF CRACKT
- 10 LBS. OF SAND
- 12 LBS. OF ASHLT
- 2 LBS. OF MASTIC OR ASPHALT FOR FLOOR JOINTS
- 27 LBS. OF 26 GAUGE GALV. SHEET IRON
- 24-1/2"x8" BOLTS
- 24 FT. OF 1/2" STEEL REINFORCING
- 3-2" GALV. TRAP RINGS & BOLTS FOR SAME
- 1 PC. OF 2"x10"x12'-0" DRESSED CYPRESS
- 1 PC. OF 2"x10"x12'-0"
- 2 PCS. OF 2"x3"x12'-0"
- 40 BO. FT. OF SELECT 1 1/4" CYPRESS FLOORING
- 6 PACKAGES OF 3" INSULATION
- 1 PC. OF 1 1/2"x12" GALV. W.I. PIPE
- 1 1/2" BRASS COUPLING
- 1 PC. OF 1 1/2"x12" GALV. W.I. PIPE
- 1-2" C.I. TRAP
- 4 FT. OF 2" C.I. DRAIN PIPE
- RUBBER GASKET FOR LID
- 2 PCS. OF INSULATION 1"x3 1/2"x54" FOR COOLING TANK LID.

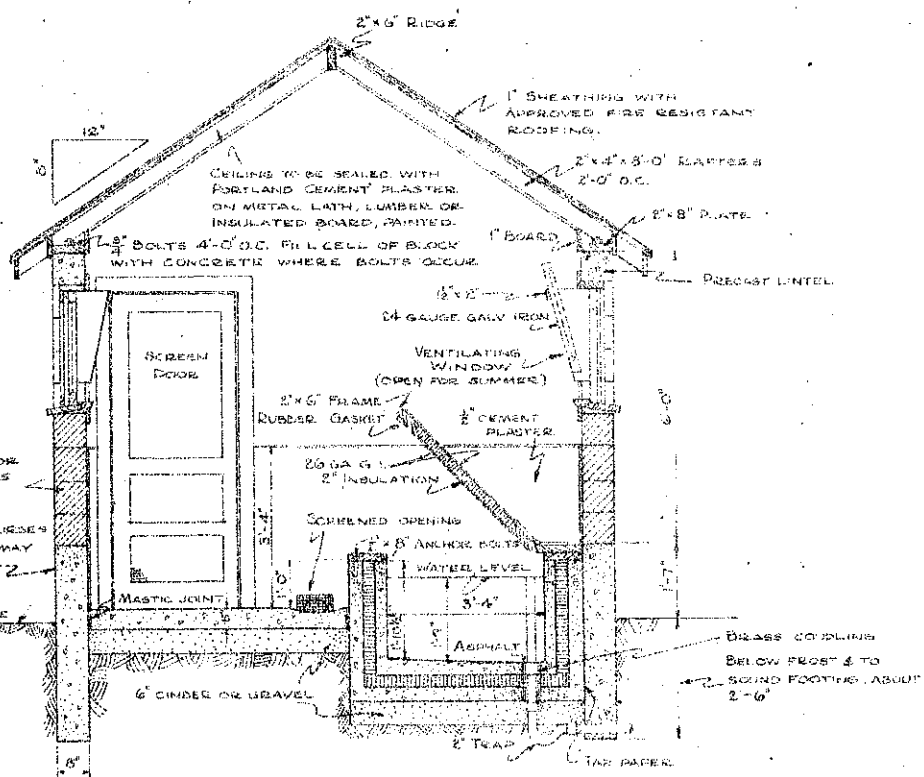


DRAINAGE LAYOUT

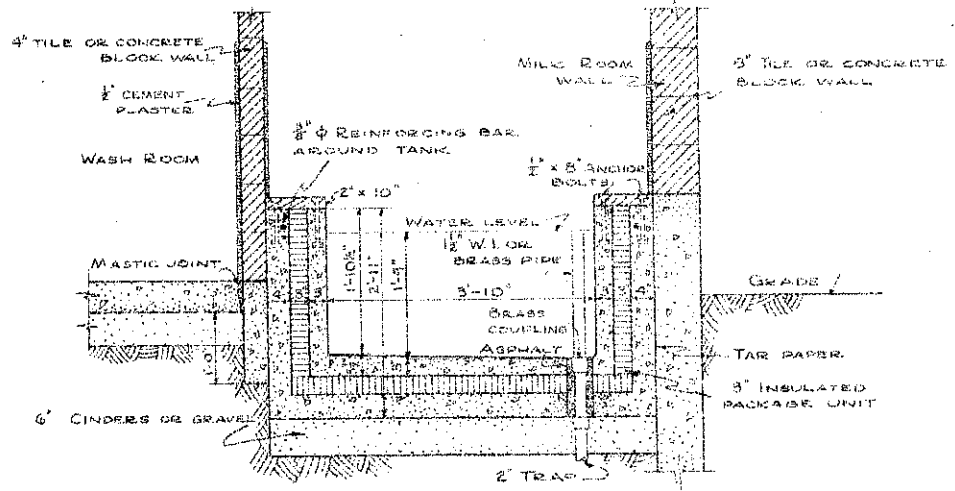
SCALE $\frac{1}{2}$ " = 1'-0"

NOTE: FOR EACH ADDITIONAL 2-10 GAL. CANS OF MILK TO BE COOLED, INCREASE WIDTH OF MILK ROOM 2'-2".

COOPERATIVE EXTENSION WORK IN
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 EXT. AGR'L ENGINEER - FARGO, N. DAK.
MILK HOUSE.
 MIDWEST 75203/33 LX 5356 SHEET 2 OF 3



SECTION
SCALE 1/2" = 1'-0"



LONGITUDINAL SECTION OF TANK
SCALE 3/4" = 1'-0"

BILL OF MATERIALS

(FOR ALTERNATE CONSTRUCTION WITH CONCRETE BLOCKS OR TILE)

- CONCRETE FOUNDATION, FLOOR, & INTERIOR:
 48 BAGS OF CEMENT
 4 CU YDS OF SAND
 7 CU YDS OF CRUSHED STONE (1:2 1/2:4 MIX)
 291 8" x 8" x 16" CONCRETE BLOCK
 32 8" x 8" x 8"
 56 4" x 8" x 16"
 20 4" x 8" x 8"
- CEMENT PLASTER:
 3 BAGS OF CEMENT
 3 CU FT OF SAND
 20 CU FT OF MORTAR FOR BLOCKS
 50 FT 1/2" Ø BARS FOR LINTELS
 LUMBER:
 PLATES - 2 Pcs. 2" x 8" x 14'-0"
 RIDGE - 1 PC. 2" x 6" x 12'-0"
 RAFTERS 20 Pcs. 2" x 4" x 8'-0"
 ROOF SHEATHING - 255 SQ FT.
 ROOFING - 255 SQ FT.
 SEALING FOR INSIDE - 144 SQ FT
- WINDOWS AND DOORS (USED DRESSED LUMBER)
 FRAMES - 3 Pcs. 2" x 6" x 12'-0" Y.P.
 SILLS - 1 PC. 2" x 10" x 10'-0" Y.P.
 BLIND STOP - 3 Pcs. 1" x 1 1/2" x 12'-0" Y.P.
 WINDOW STOOL - 10' OF 1 1/2" x 4" Y.P.
 INSIDE CASINGS - 118' FT. OF 1" x 8" Y.P.
 5 WINDOW SASH - 6 LIGHT, 3" x 12" GLASS, 1 1/2"
 2 x 5 OF #24 GA. GALV. SHEET IRON FOR GUARDS
 40' OF #22 GA. GALV. FOR WINDOW SCREENS.
 14' OF 1/2" x 2" CYPPRES FOR WINDOW GUARDS
 FRAMES - 1 PC. 2" x 4" x 16'-0" Y.P.
- 1 - 2'-8" x 6'-6" OUTSIDE DOOR
 2 SCREEN DOORS
 2 LOUVER VENTILATORS
 HARDWARE AND FIXTURES TO BE SELECTED BY THE OWNER.
- COOLING TANK (1:2:2 MIX)
 1 BAGS CEMENT
 1/2 CU YD. OF SAND
 1 CU YD. OF CRUSHED STONE
 25 LBS. OF ASPHALT OR MASTIC FOR FLOOR JOINTS.
 55 SQ FT. OF #26 GA. GALV SHEET IRON.
 24 - 1/2" x 8" BOLTS
 24 FT. OF 1/2" Ø REINFORCING BAR.
 3-8" GALV STRAP HINGES & BOLTS
 2 Pcs. 2" x 10" x 10'-0" DRESSED CYPPRES
 1 PC. 2" x 12" x 6'-0"
 2 Pcs. 2" x 6" x 10'-0"
 6 PACKAGES OF 3" INSULATION
 1 PC. 1/2" x 22" GALV W.I. PIPE
 1 - 1/2" BRASS COUPLING
 1 PC. 1/2" x 12" GALV W.I. PIPE
 1 - 2" C.I. TRAP
 1 FT. OF 2" C.I. DRAIN PIPE
 RUBBER GASKET FOR LID.
 2 Pcs INSULATION, 1" x 36" x 54" FOR COOLING TANK LID.

NOTE. BILL OF MATERIAL FOR THE PLUMBING IS THE SAME AS THAT ON SHEET 2

ALTERNATE DETAILS FOR MASONRY CONSTRUCTION

NOTE: COOLING TANK INSULATION MUST BE WATERPROOFED AND SHOULD HAVE AN INSULATING VALUE EQUIVALENT TO 3 INCHES OF WOOD.

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