



DIMENSIONS BASED ON USE OF FULL SIZE ROUGH LUMBER. CHECK ON THE JOB, BEFORE DRILLING HOLES

5/8" CARRIAGE BOLTS

DRILL FOR 5/8" x 5" LAG SCREW

STEEL BAR OR PIPE, LENGTH TO SUIT GATE USED

3/8" x 2" x 14" BAR

STEEL GUIDE & STOP

HEAD GATE LATCH (FOR HINGED HEAD GATES)

SPACER, 3" LENGTH OF 3" PIPE
PLATE WASHERS
1/2" BOLT

1/2" x 2" STEEL LATCH BARS ABOUT 14" LONG. FASTEN TO HEADGATE WITH TWO 1/2" CARRIAGE BOLTS.

GLEAT FOR SECURING 1/2" ROPE

2" x 12" x 8'-0"

3/8" x 5" LAG SCREW

2" x 10" x 4'-2"

1/2" x 2" STEEL STRAP

1/2" BOLT WITH WASHERS

3/8" x 2" LAG SCREWS

HEAD GATE NO 3 (FIXED)

* NOTE: LONGER POSTS ARE REQ'D. IF THIS HEAD GATE IS USED.

HEAD GATE NO 2 (HINGED)

ALL 2" x 6" EXCEPT AS NOTED

HEAD GATE NO 1 (HINGED)

ALL 2" x 6", EXCEPT AS NOTED

HEAD GATE HINGE

ALT. HEAD GATE HINGE

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
UNIVERSITY OF MARYLAND
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

CATTLE SQUEEZE AND HEAD GATES

LA. '54 EX. 5789 SHEET 1 OF 1

NOTE: SQUEEZE PARTS AND ALL WOOD IN CONTACT WITH EARTH SHOULD BE PRESSURE-TREATED WITH CREOSOTE OR OTHER PRESERVATIVE.

2" PIPE, 5'-0" LONG WITH EYEBOLT FOR CHAIN
4'-6" x 7'-10"
1/2" x 3" x 4" Z STOP
8" x 8" x 10'-0" POSTS
1" GALV. PIPE, 4'-0" LONG, EQUALLY SPACED (ABOUT 8 1/2" O.C.)
4" x 6"
2" x 6" PLANKS
FOOTING
4" CONC. SLAB
4'-0"
4" x 6" x 8'-0"
3" x 4" STEEL Z, NOT LESS THAN 1/4" THICK
6'-0"
4" x 6" x 9'-0"
FILLER BLOCK AT POSTS
4'-0"

CROSS SECTION THRU SQUEEZE

4" x 6"
1/2" x 3/2" STEEL STRAP
2- 3/4" BOLTS
WELDED JOINT

HINGE DETAIL

4" x 6" x 1'-10" AT CENTER OF FIXED SIDE
1/2" x 3" x 4" STEEL Z 12" LONG
7/8" BOLT
5/8" x 6" LAG SCREW
16" x 18" x 12" FOOTINGS (4 REQ'D.)

ANCHOR DETAIL

BEND 20"
6" x 6" x 3/8" STEEL PLATE WITH 3/8" SLOT FOR 1/4" CHAIN, DRILL FOR 1/2" BOLTS CATCH PLATE FOR SQUEEZE

TAPERED FILLER AT EACH SIDE OF ENTRANCE TO SQUEEZE (TO PREVENT BRUISING)

DOUBLE POSTS, BOLTED AT TOP

CHUTE

CUTTING GATES

SQUEEZE

HINGE LEAF

5/8" HINGE PIN

HINGE LEAF

2" x 6" x 6'-7"

TWO 1/4" x 2" x 16" STEEL STRAPS

2" x 4" x 4'-0" RATCH

1/4" x 4" x 12" STEEL PLATE TO ENGAGE RATCH

1/2" PIN

5'-10"

GRADE

2" x 10"

2" x 8"

4'-2"

2"

5'-10"

GRADE

2" x 10"

2" x 8"

4'-2"

2"

5'-10"

GRADE

2" x 10"

2" x 8"

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5'-10"

GRADE

2" x 10"

2" x 8"

4'-2"

2"

5'-10"

GRADE