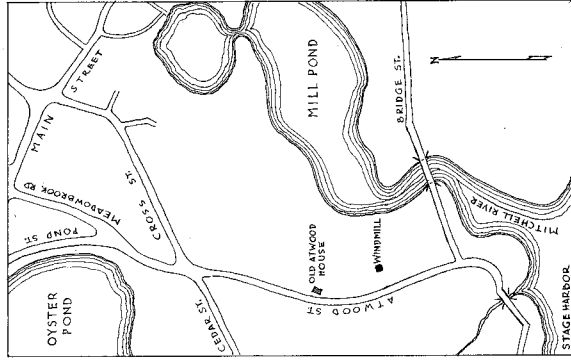


CHATHAM WINDMILL

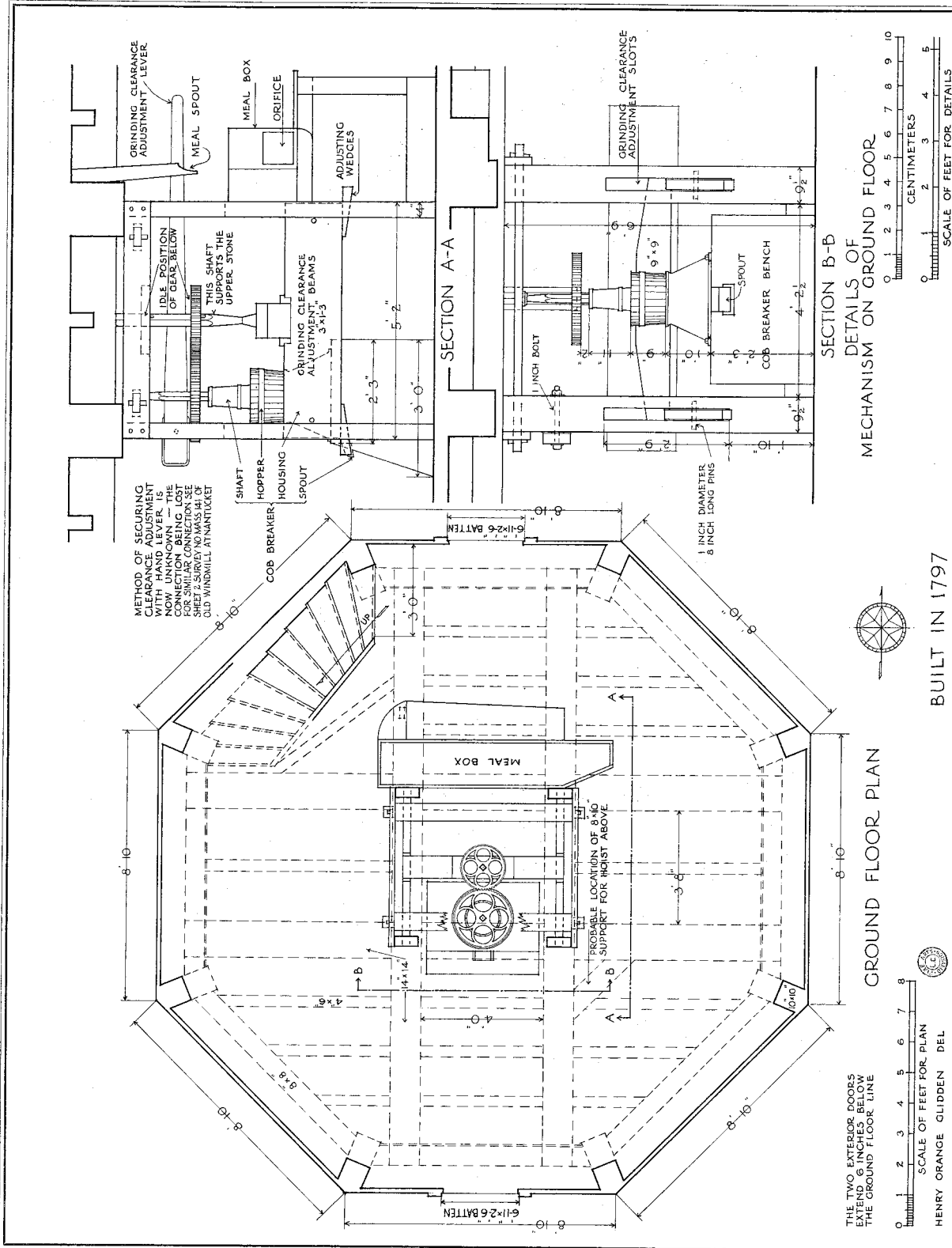
ATWOOD STREET
CHATHAM-MASSACHUSETTS



MAP SHOWING LOCATION.

BUILT 1797

<p>HISTORIC AMERICAN BUILDINGS SURVEY U.S. DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE BRANCH OF PLANS AND DESIGN</p>	<p>MEASURED: MAR. 22 - APR. 5, 1934. DRAWING: JULY 3, 1934 - JAN. 30, 1935 MEASUREMENTS CHECKED: B. A. B. FEB. 10, 1935</p>	<p>DRAWINGS APPROVED: <i>Frank Chouteau Brown</i> DRAFTSMAN: <i>John E. Smith</i> DRAFTSMAN APPROVED: <i>John E. Smith</i> ACCEPTED FOR LIBRARY OF CONGRESS: <i>John E. Smith</i></p> <p>DISTRICT OFFICER: <i>Frank Chouteau Brown</i> CHIEF ARCHITECT: <i>John E. Smith</i></p>	<p>DISTRICT NO. 2 - MASSACHUSETTS FRANK CHOUTEAU BROWN DISTRICT OFFICER, 16 BRIMMER STREET FRENCH MASSACHUSETTS BEN ADAMS BUCK WEST CHATHAM - MASSACHUSETTS.</p>	<p>INDEX NO. MASS. 1-CHAM 3</p>
		<p>SURVEY NO. 2-61 5 SHEETS</p>		



GRINDING CLEARANCE ADJUSTMENT LEVER
MEAL SPOUT
MEAL BOX
ORIFICE
ADJUSTING WEDGES

METHOD OF SECURING CLEARANCE ADJUSTMENT WITH HAND LEVER, IS NOW UNKNOWN - THE FOLLOWING SET FOR SIMILAR CONNECTION SET SHEET & SURVEY NO MASS 147 OF OLD WINDMILL AT NANTUCKET

GRINDING CLEARANCE ADJUSTMENT BEAMS 3"x1-3"
THIS SHAFT SUPPORTS THE UPPER STONE
GRINDING CLEARANCE ADJUSTMENT BEAMS 3"x1-3"
ADJUSTING WEDGES

SECTION A-A

GRINDING CLEARANCE ADJUSTMENT SLOTS

1 INCH DIAMETER 8 INCH LONG PINS

COB BREAKER
SPOUT BENCH

SECTION B-B

DETAILS OF MECHANISM ON GROUND FLOOR



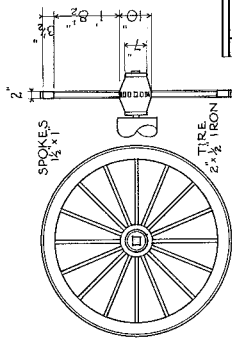
GROUND FLOOR PLAN

SCALE OF FEET FOR DETAILS
0 1 2 3 4 5
CENTIMETERS

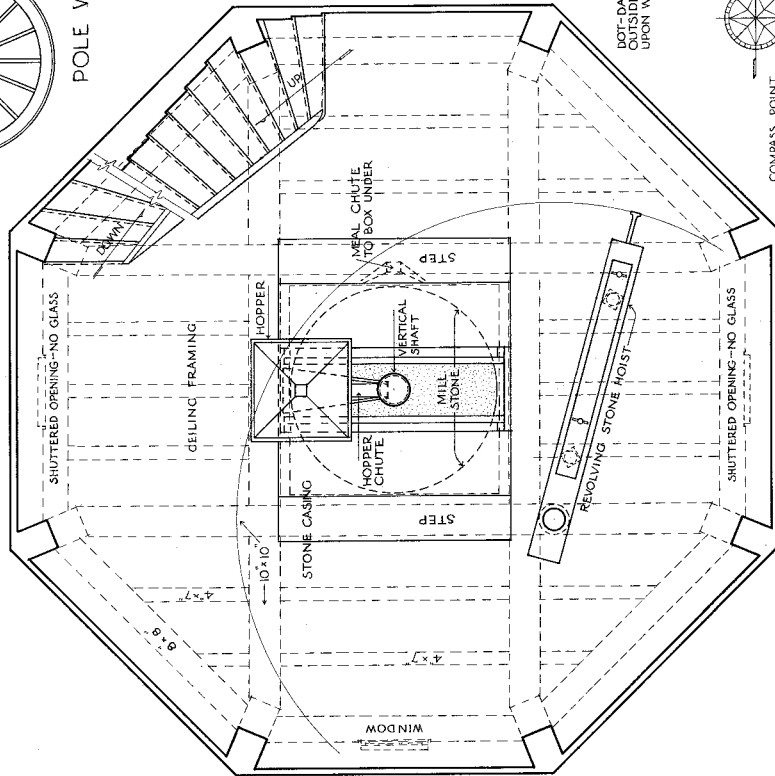
SCALE OF FEET FOR PLAN
0 1 2 3 4 5 6 7 8
HENRY ORANGE GLIDDEN DEL

BUILT IN 1797

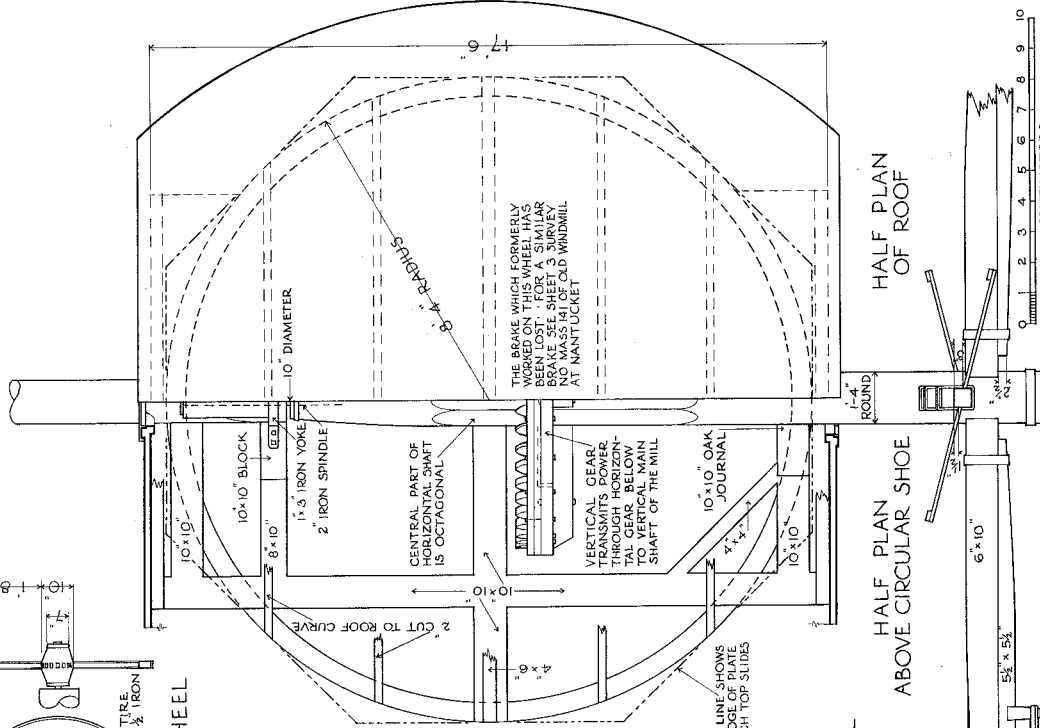
U.S. DEPARTMENT OF THE INTERIOR OFFICE OF NATIONAL PARKS, BUILDINGS, AND RESERVATIONS BRANCH OF PLANS AND DESIGN	NAME OF STRUCTURE CHATHAM WINDMILL • CHATHAM • BARNSTABLE • CO • MASS •	SURVEY NO. 2-61	HISTORIC AMERICAN BUILDINGS SURVEY	INDEX NO. M.A.S. 1-3-111
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POLE WHEEL



MILL FLOOR PLAN



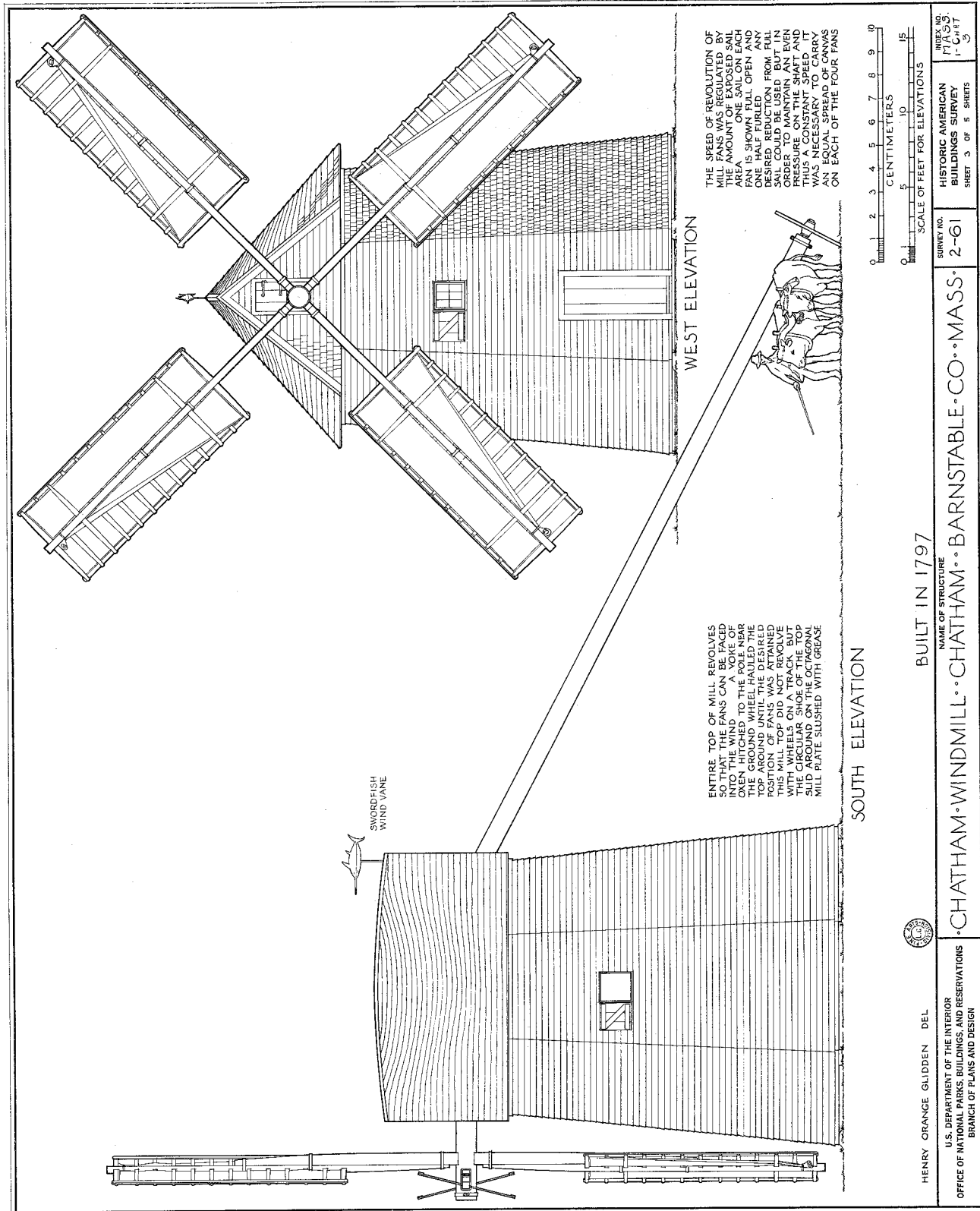
HALF PLAN OF ROOF

HALF CIRCULAR SHOE ABOVE

TO EACH FAN THERE ARE THREE THREADED RODS THROUGH THE SLATS AND WERE LASHED IN PLACE WITH THEIR ATTACHED ROPES THE ROPES WERE PREPARED OR PURCHASED AS NEEDED

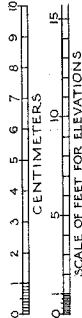


BUILT IN 1797



THE SPEED OF REVOLUTION OF MILL FANS WAS REGULATED BY THE AMOUNT OF FAN WHICH ARE OPEN. EACH FAN IS SHOWN FULL OPEN AND ONE HALF FURLED. ANY DESIRED REDUCTION FROM FULL OPEN COULD BE OBTAINED BY ORDERING TO OPEN AN EVEN PRESSURE ON THE SHAFT AND THUS A CONSTANT SPEED IT WAS NECESSARY TO CARRY ON EACH OF THE FOUR FANS

ENTIRE TOP OF MILL REVOLVES SO THAT THE FANS CAN BE FACED INTO THE WIND. TO THE YOKE OF ONE OF THE FANS IS ATTACHED A CRANK WHICH IS HELD IN THE TOP POSITION UNTIL THE DESIRED POSITION OF FANS WAS ATTAINED. THIS MILL TOP DID NOT REVOLVE WITH WHEELS. CHAIN OF THE TOP WHEELS ON THE OBTUSCULAR MILL PLATE SLIDDED WITH GREASE.



HENRY ORANGE GLIDDEN DEL
 U.S. DEPARTMENT OF THE INTERIOR
 OFFICE OF NATIONAL PARKS, BUILDINGS, AND RESERVATIONS
 BRANCH OF PLANS AND DESIGN

BUILT IN 1797
 NAME OF STRUCTURE
 CHATHAM WINDMILL • CHATHAM • BARNSTABLE CO • MASS •

SURVEY NO.
 2-61

HISTORIC AMERICAN
 BUILDINGS SURVEY

SHEET 3 OF 5 SHEETS

INDEX NO.
 1-C-17

IND. NO.
 1-C-17

IND. NO.
 1-C-17

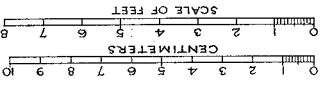
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 1-C-17

IND. NO.
 1-C-17

IND. NO.
 1-C-17

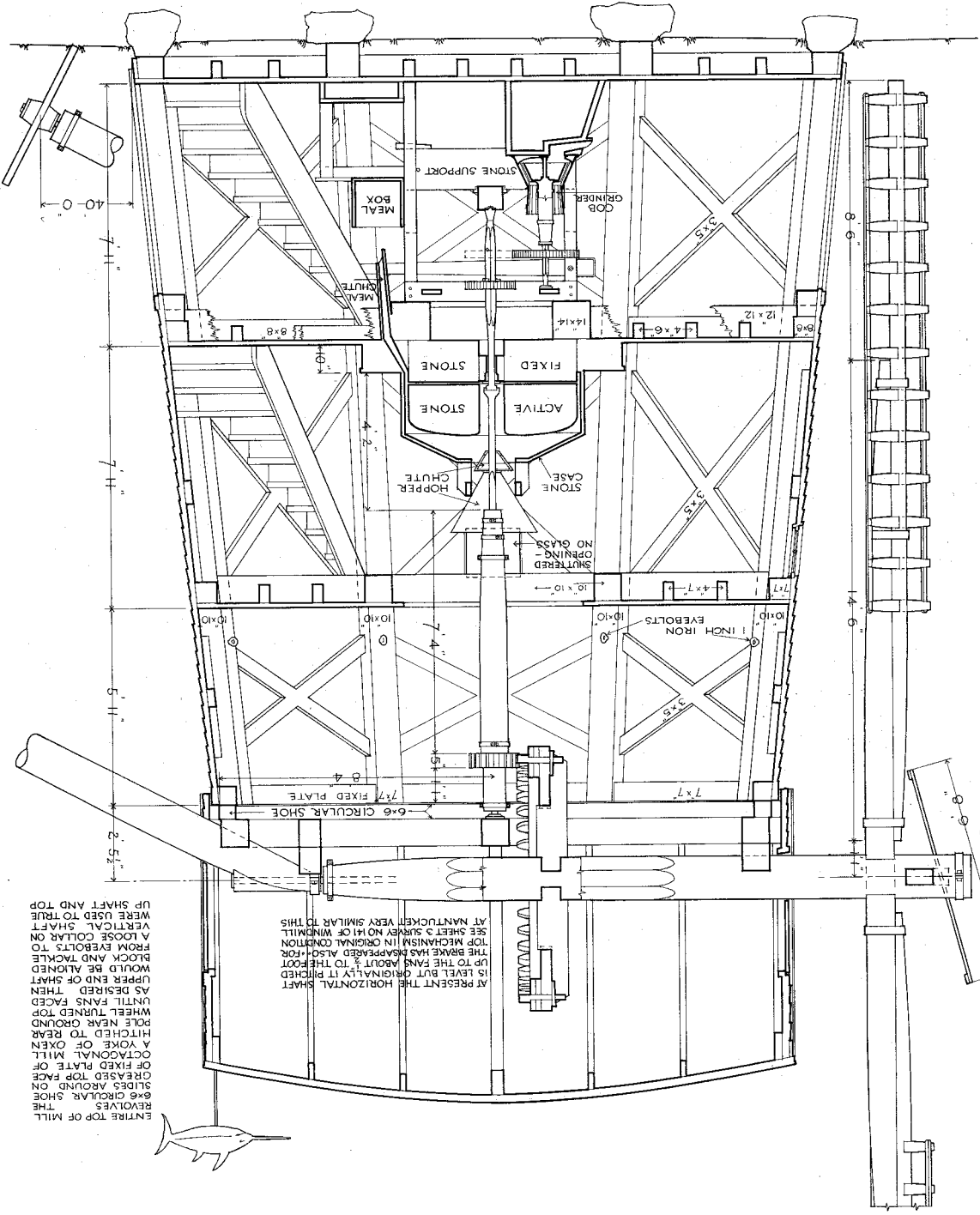
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 1-C-17

IND. NO.
 1-C-17



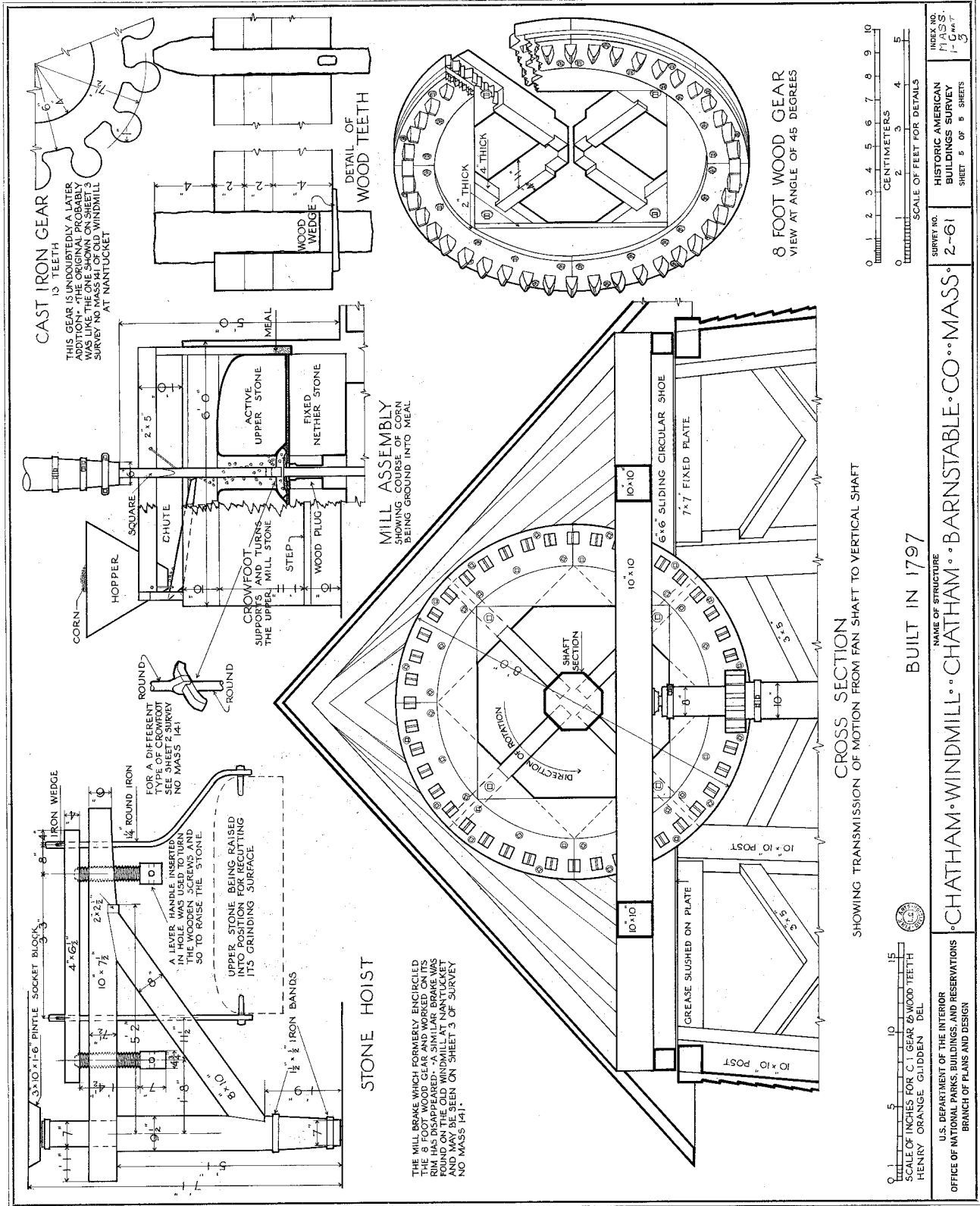
BUILT IN 1797

HENRY ORANGE GUDDEN DEL



ENTIRE TOP OF MILL
REVOLVES AROUND ON
6-6 CIRCULAR SHOE
GREASED TOP FACE OF
FIXED PLATE OF
OCCASIONAL MILL
A YOKE OF OXEN
HITCHED TO REAR
POLE NEAR GROUND
UNTIL FANS FACED
AS DESIRED THEN
UPPER END OF SHAFT
WOULD BE ALIGNED
FROM EYEBOLTS TO
A LOOSE COLLAR ON
VERTICAL SHAFT AND
WHEEL TURNED TOP
UP SHAFT AND TOP
AT PRESENT THE HORIZONTAL SHAFT
IS LEVEL BUT ORIGINALLY IT RANCHED
UP TO THE FANS ABOUT 2 TO THE FOOT
THE BRAKE HAS DISAPPEARED ALSO - FOR
TOP MECHANISM IN ORIGINAL CONDITION
SEE SHEET 3 DRAWING NO 14 OF WINDMILL
AT NANTUCKET VERY SIMILAR TO THIS

BUILT IN 1797



CAST IRON GEAR
 13 TEETH
 THIS GEAR IS UNDOUBTEDLY A LATER
 RECONSTRUCTION. THE ORIGINAL
 WAS LIKE THE ONE SHOWN ON SHEET 3
 SURVEY NO MASS 51 OF OLD WINDMILL
 AT NANTUCKET

DETAIL OF WOOD TEETH

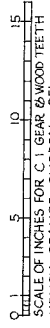
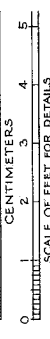
8 FOOT WOOD GEAR
 VIEW AT ANGLE OF 45 DEGREES

MILL ASSEMBLY
 SHOWING COURSE OF CORN
 BEING GROUND INTO MEAL

STONE HOIST

THE MILL BRAKE WHICH FORMERLY ENCRICLED
 THE 8 FOOT WOOD GEAR AND WORKED ON ITS
 RIM HAS DISAPPEARED. A SIMILAR BRAKE WAS
 USED ON THE WINDMILL AT NANTUCKET
 AND MAY BE SEEN ON SHEET 3 OF SURVEY
 NO MASS 141.

CROSS SECTION
 SHOWING TRANSMISSION OF MOTION FROM FAN SHAFT TO VERTICAL SHAFT



U.S. DEPARTMENT OF THE INTERIOR OFFICE OF NATIONAL PARKS, BUILDINGS, AND RESERVATIONS HENRY ORANGE GLIDDEN DEL BRANCH OF PLANS AND DESIGN	INDEX NO. MASS- 1-5	SURVEY NO. 2-61	HISTORIC AMERICAN BUILDINGS SURVEY SHEET 5 OF 8 SHEETS
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BUILT IN 1797

NAME OF STRUCTURE
CHATHAM WINDMILL CHATHAM BARNSTABLE CO MASS