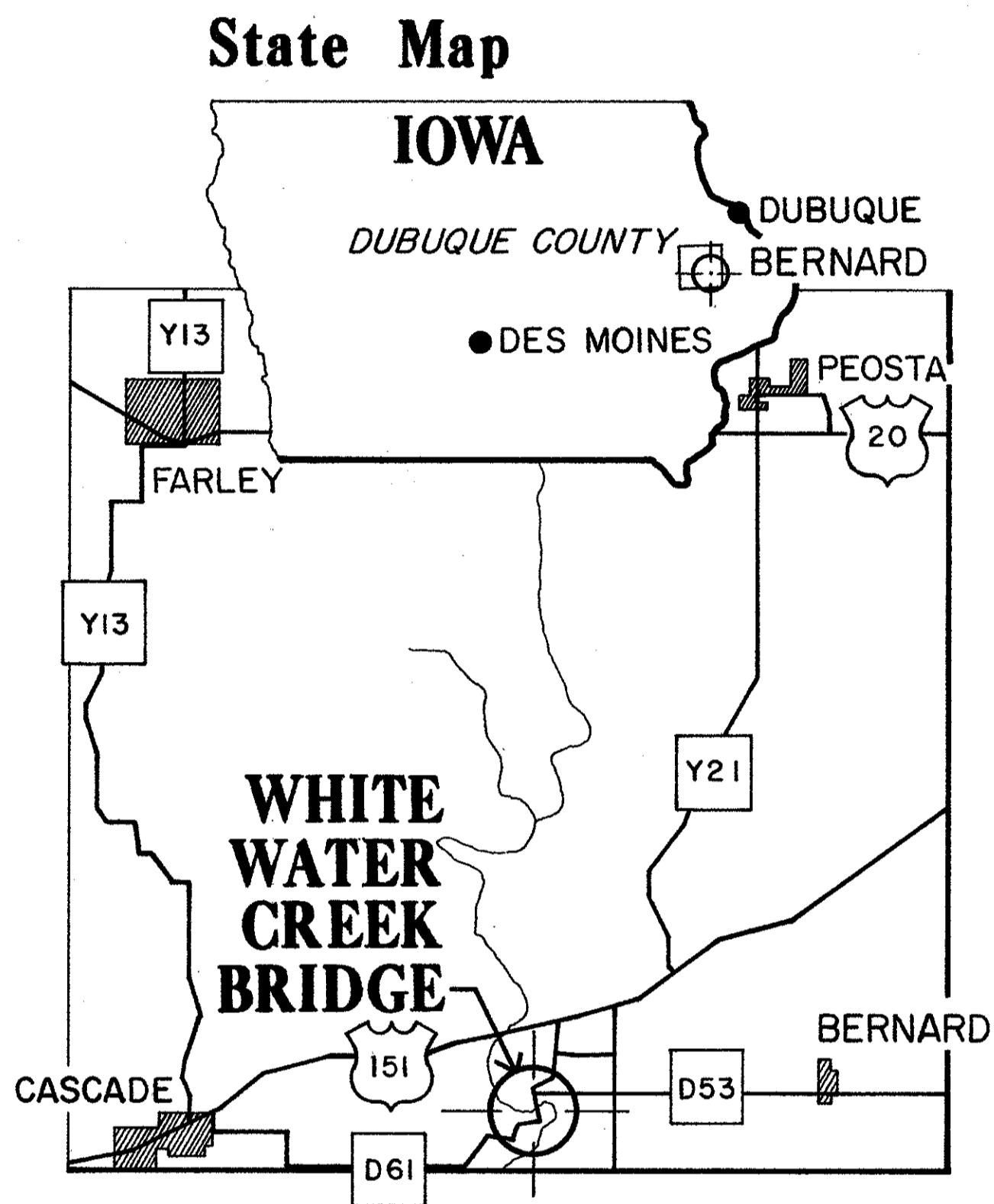
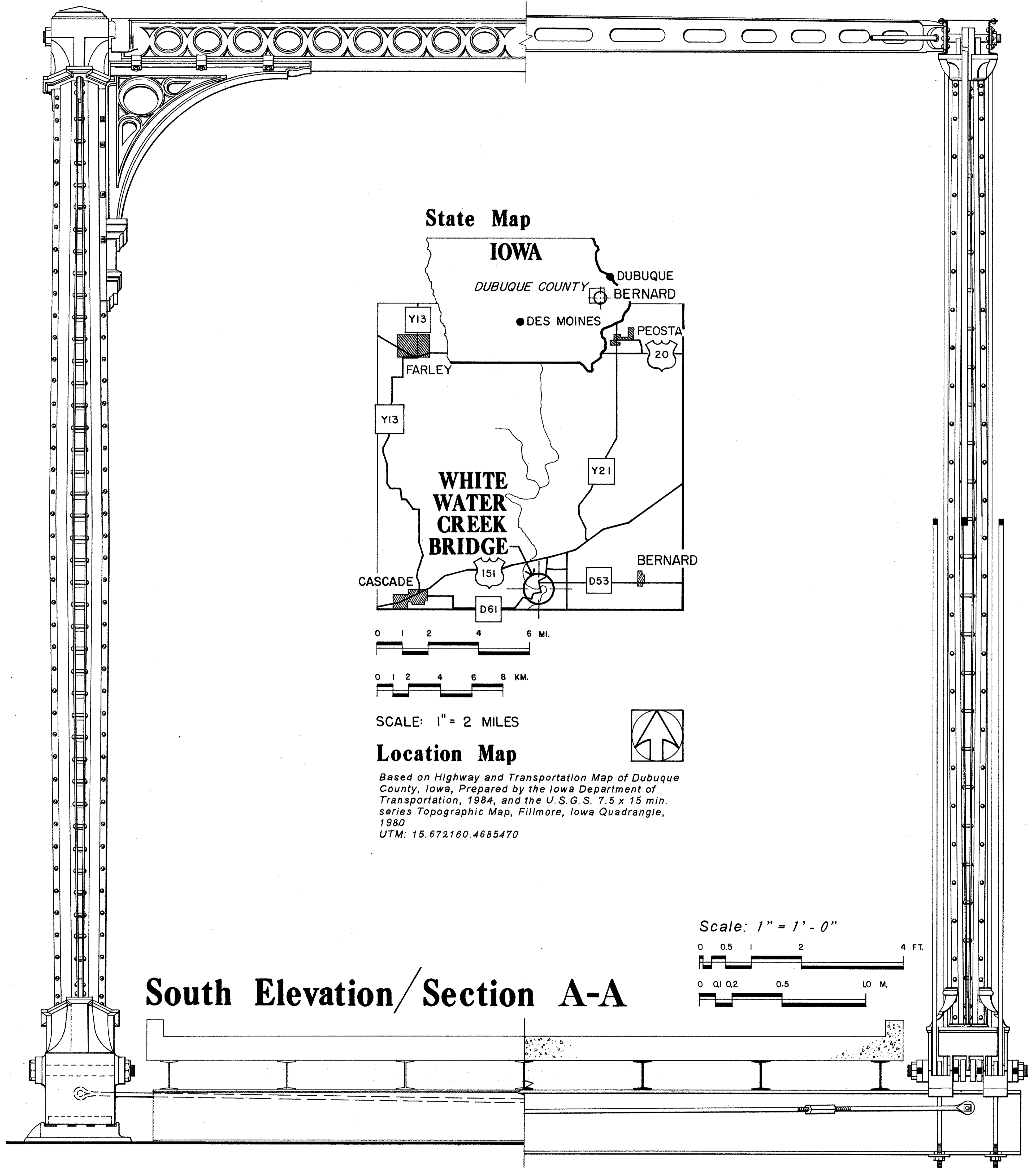


WHITE WATER CREEK BRIDGE

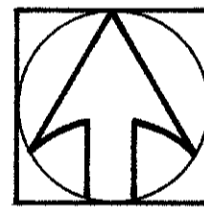
BERNARD, IOWA • 1872



0 1 2 4 6 MI.

0 1 2 4 6 8 KM.

SCALE: 1" = 2 MILES



Location Map

Based on Highway and Transportation Map of Dubuque County, Iowa, Prepared by the Iowa Department of Transportation, 1984, and the U.S.G.S. 7.5 x 15 min. series Topographic Map, Fillmore, Iowa Quadrangle, 1980
UTM: 15.672160.4685470

Scale: 1" = 1' - 0"

0 0.5 1 2 4 FT.

0 0.1 0.2 0.5 1.0 M.

South Elevation / Section A-A

This bridge is a remaining span of a seven-span approach bridge built in 1872 to serve a larger seven-span bridge built in 1868 over the Mississippi River at Dubuque. The larger bridge was the first to span the Mississippi at Dubuque, and was one of the earliest of all Mississippi River bridges. At some point between 1874 and 1889, three of the approach spans, including this truss, were moved from their original location. Ownership of this span was transferred from the Dubuque and Dunleith Bridge Company to Dubuque County, and the county moved the bridge to its present location. The superstructures of both the approach bridge and the river bridge were fabricated and erected by the Keystone Bridge Company, one of the most important and long-lived bridge companies of the nineteenth century. This span is one of the oldest iron trusses still in use in Iowa, and is the only Keystone truss known to be in use in the state.

The Iowa Historic Bridges Recording Project is part of long-range program to document historically significant engineering, industrial, and maritime sites in the United States. The HAER program is administered by the National Park Service, U.S. Department of the Interior. The Iowa Historic Bridges Recording Project was cosponsored during the summer of 1995 by HAER under the general direction of Dr. Robert J. Kapsch, Chief, and by the Iowa Department of Transportation, the State Historical Society of Iowa, Iowa Division Office of the Federal Highway Administration, and the Iowa Transportation Center. The field work, measured drawings, historical reports, and photographs were prepared under the direction of Eric DeLony, Chief of HAER. The team consisted of Caroline Schwyer, architectural supervisor (ICOMOS-France); Roger Chien (University of Virginia), Erick McEvoy (ICOMOS-Canada), Virginia Price (University of Kansas), and Adriaan Vlaardingbroek (ICOMOS-Netherlands), architects; Robert Jackson (University of Texas-Austin) and Leslie Pitner (University of Pennsylvania), historians; Geoffrey H. Goldberg (University of Massachusetts) and Juliet Landler (University of California-Berkeley), engineers; Joseph Elliot, Sellersville, PA, photographer; Clay Frasier, Loveland, CO; and James Hippen, Decorah, IA, consultants.

DELINEATED BY: Virginia M. Price, 1995

IOWA HISTORIC BRIDGES RECORDING PROJECT

NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

BERNARD VICINITY

WHITE WATER CREEK BRIDGE - 1872

SPANNING WHITE WATER CREEK ON COUNTY ROAD, 4 MILES SW OF BERNARD

DUBUQUE COUNTY

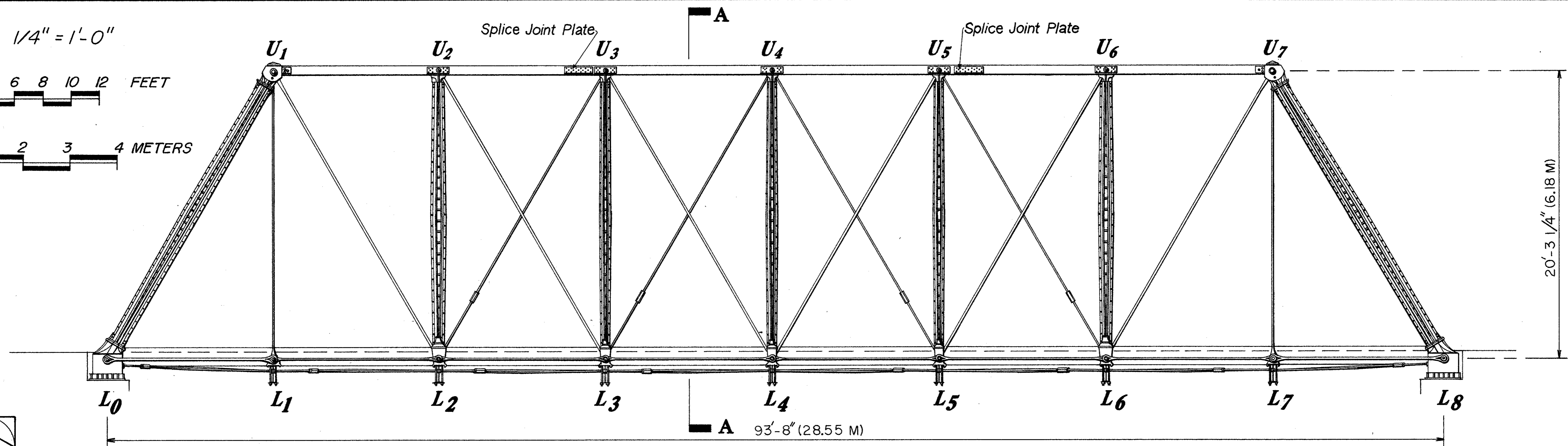
SHEET
IOWA 1 OF 5

HISTORIC AMERICAN
ENGINEERING RECORD
IA-51

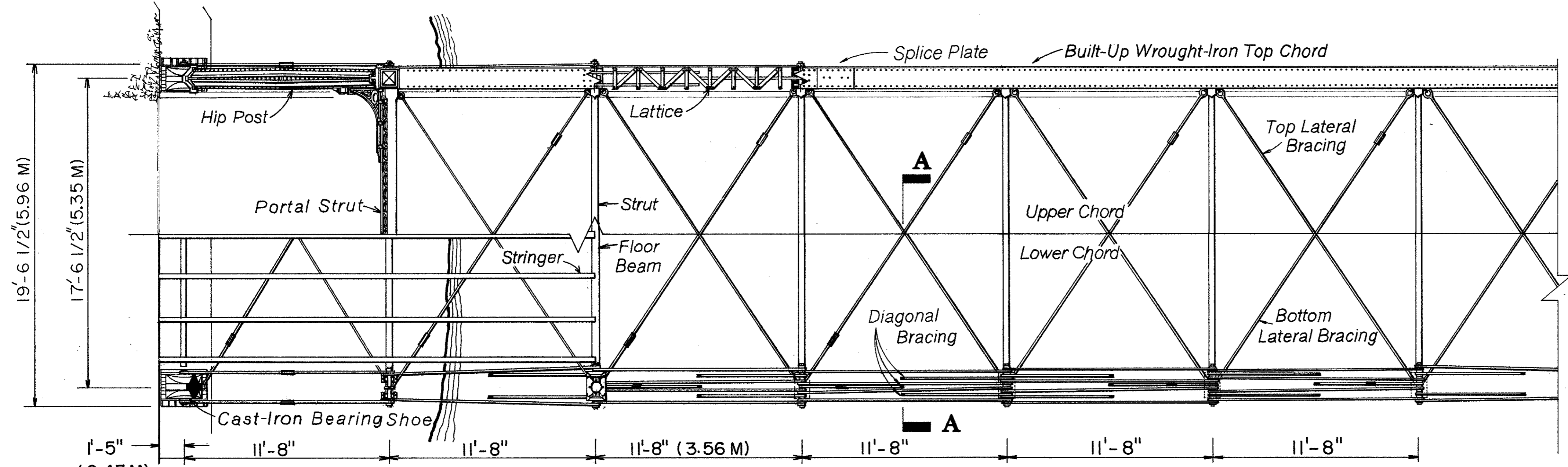
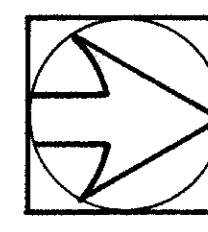
SCALE 1/4" = 1'-0"

0 1 2 4 6 8 10 12 FEET

0 0.5 1 2 3 4 METERS

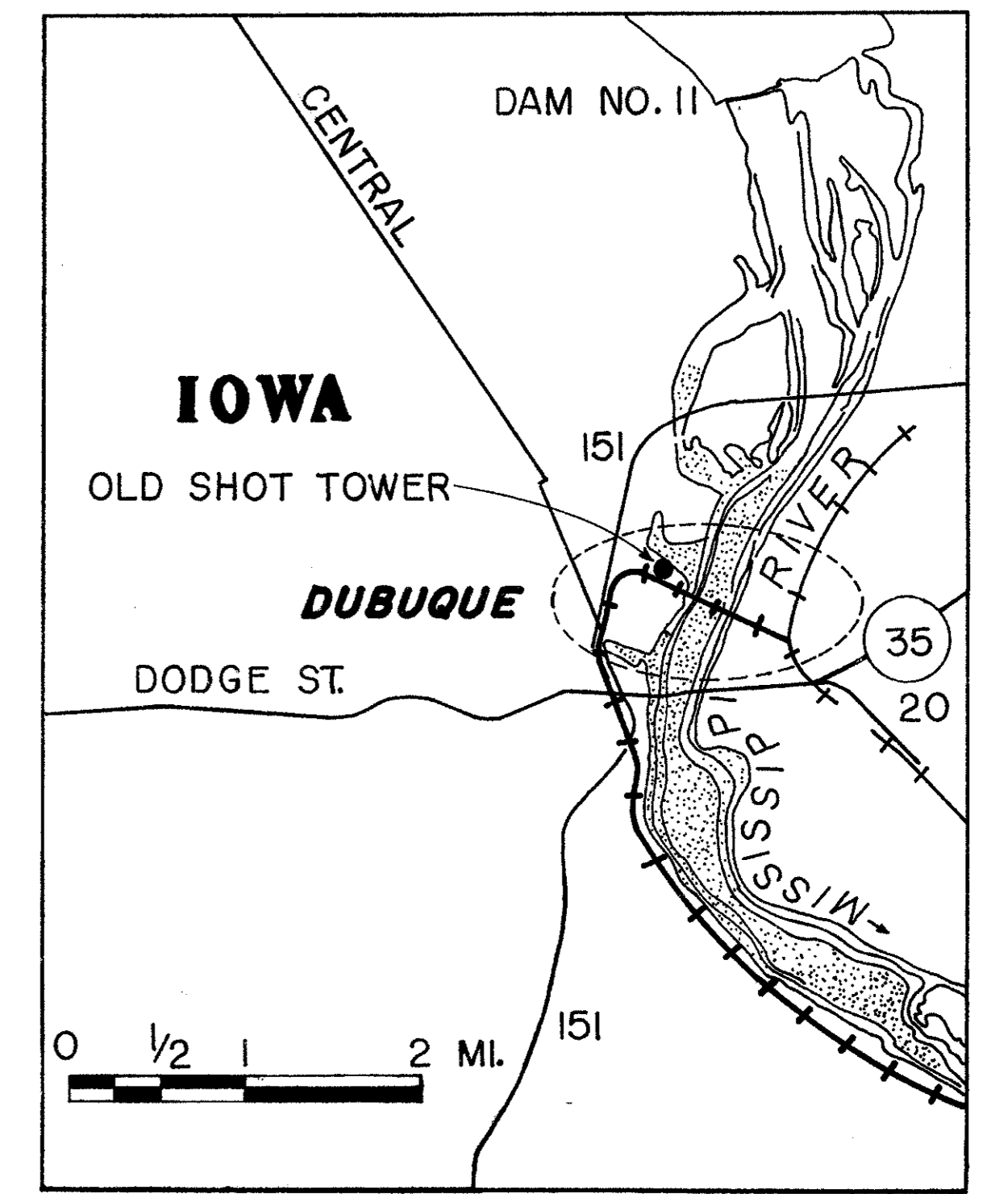


EAST ELEVATION



PARTIAL PLAN

MAP OF THE ORIGINAL LOCATION

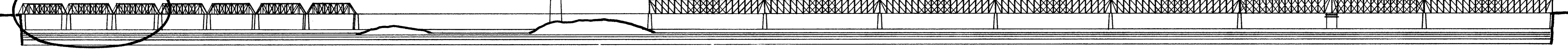


SCALE: 1" = 100'

0 100 200 300 FT

0 10 20 40 60 80 M

One of these three spans became the White Water Creek Bridge near Bernard.



IOWA

South Elevation of Dubuque Railway

WHITE WATER CREEK BRIDGE 1872

Draw Bridge

ILLINOIS

DELINEATED BY: Virginia M. Price, 1995

IOWA HISTORIC BRIDGES RECORDING PROJECT

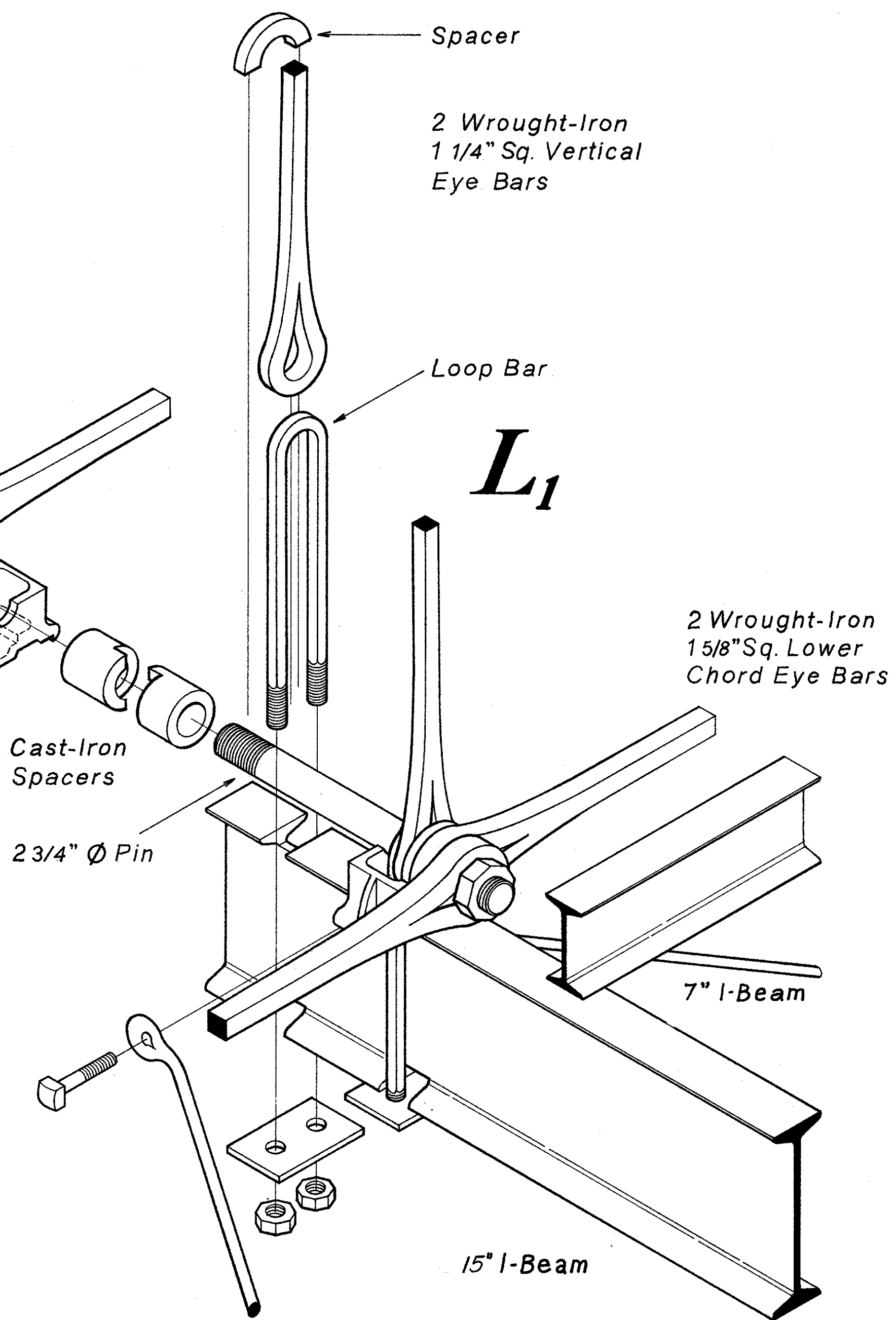
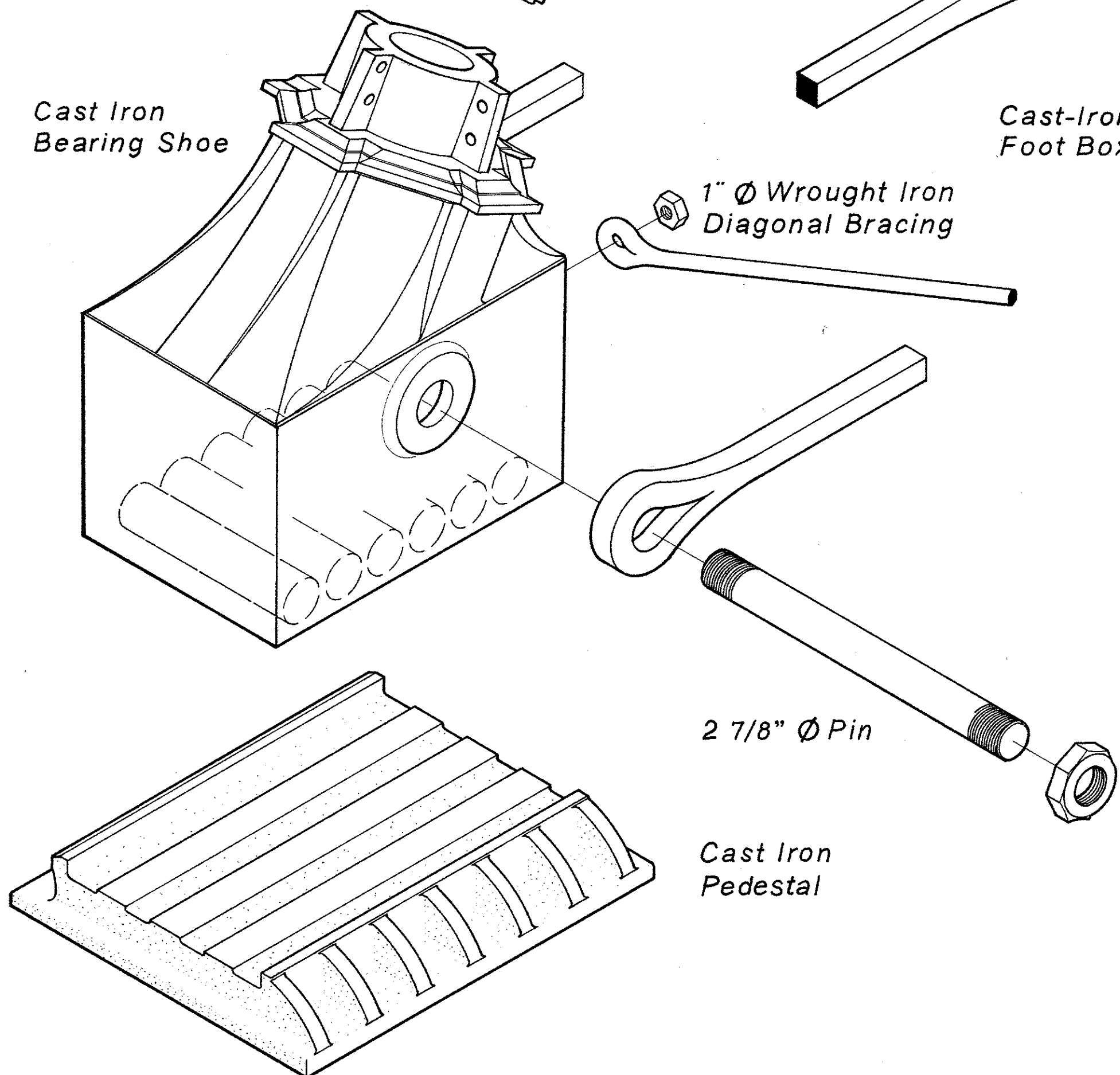
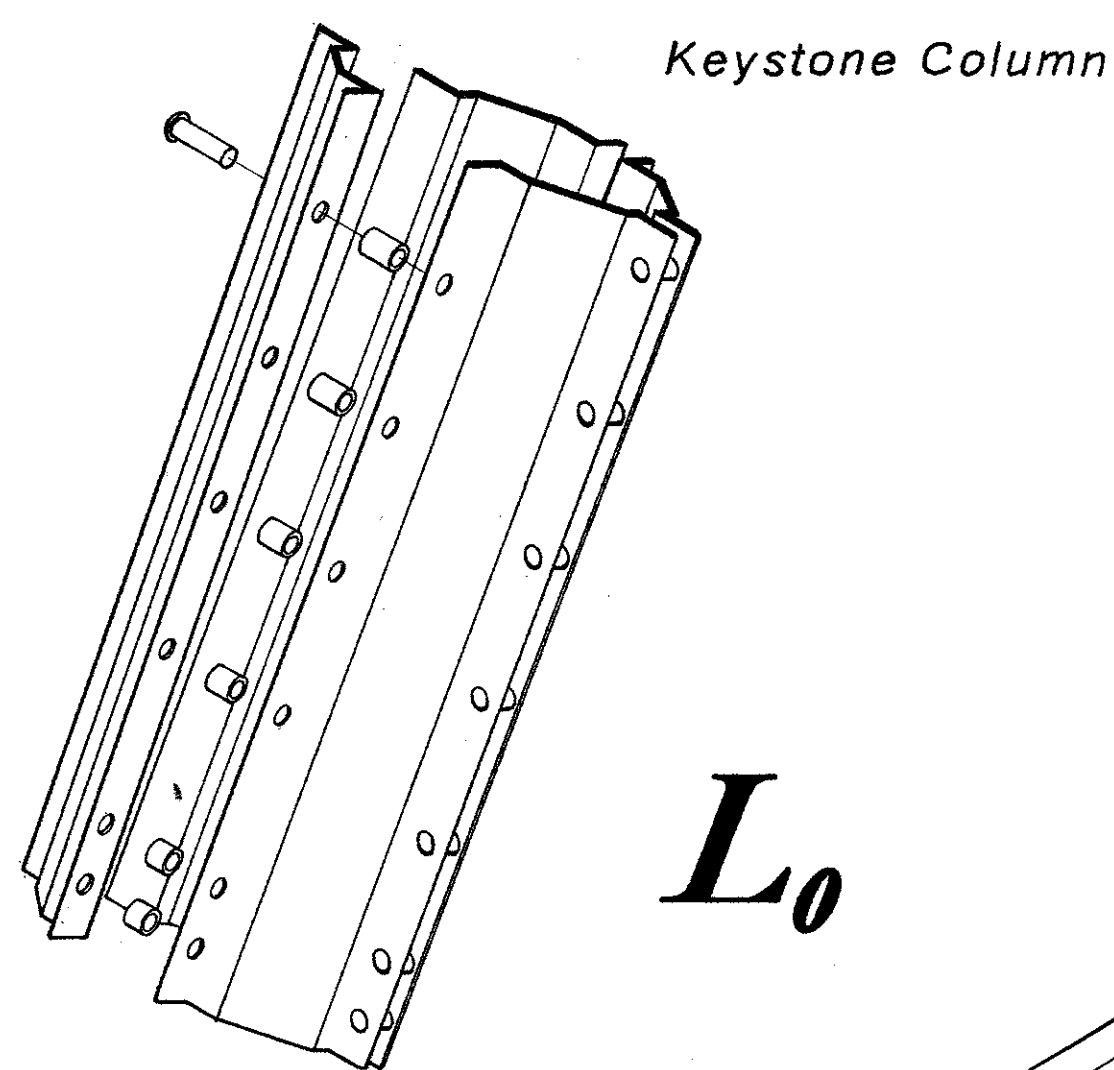
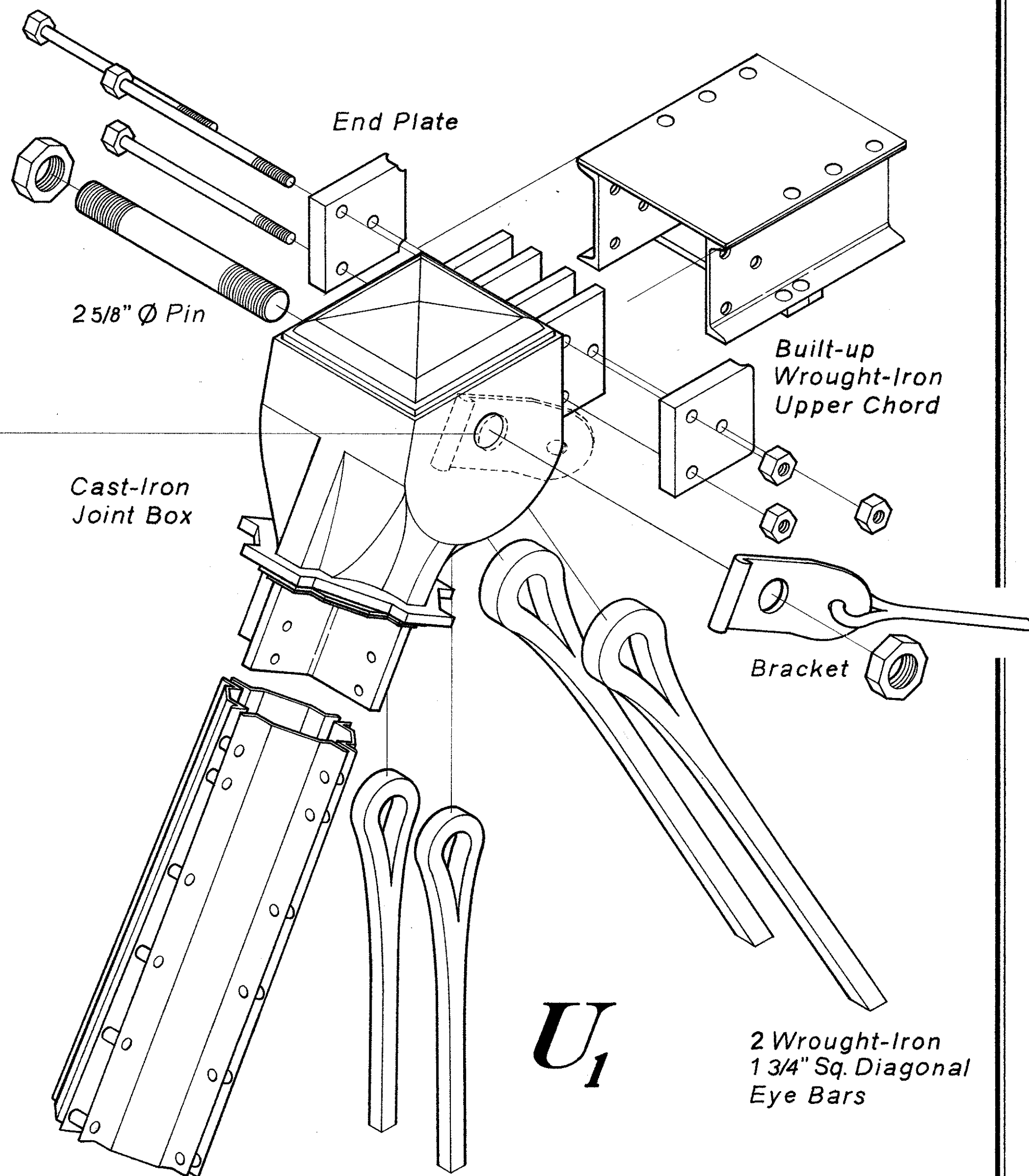
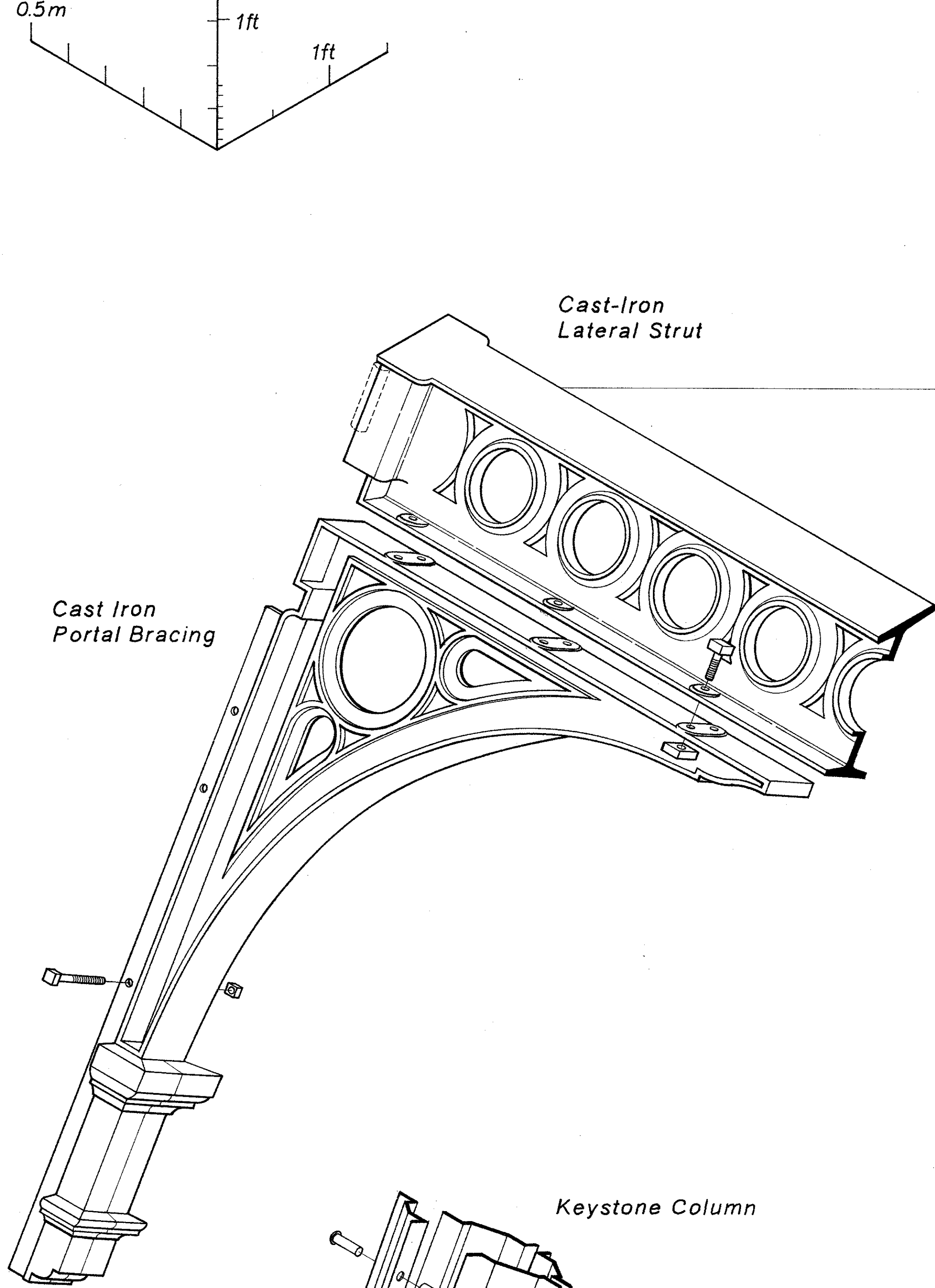
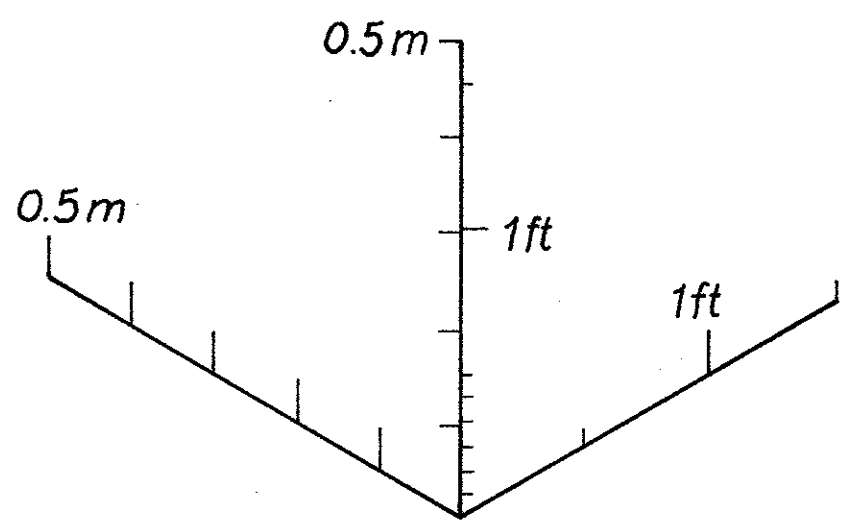
BERNARD VICINITY
SPANNING WHITE WATER CREEK ON COUNTY ROAD, 4 MILES SW OF BERNARD
DUBUQUE COUNTY

SHEET IOWA 2 OF 5
HISTORIC AMERICAN ENGINEERING RECORD IA-51

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING

CONNECTION DETAILS

Scale: 1 1/2" = 1' - 0"



DELINEATED BY: Caroline Schweyer & Adriaan Vlaardingbroek, 1995

IOWA HISTORIC BRIDGES
RECORDING PROJECT
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

BERNARD VICINITY

WHITE WATER CREEK BRIDGE
SPANNING WHITE WATER CREEK ON COUNTY ROAD, 4 MILES SW OF BERNARD
DUBUQUE COUNTY

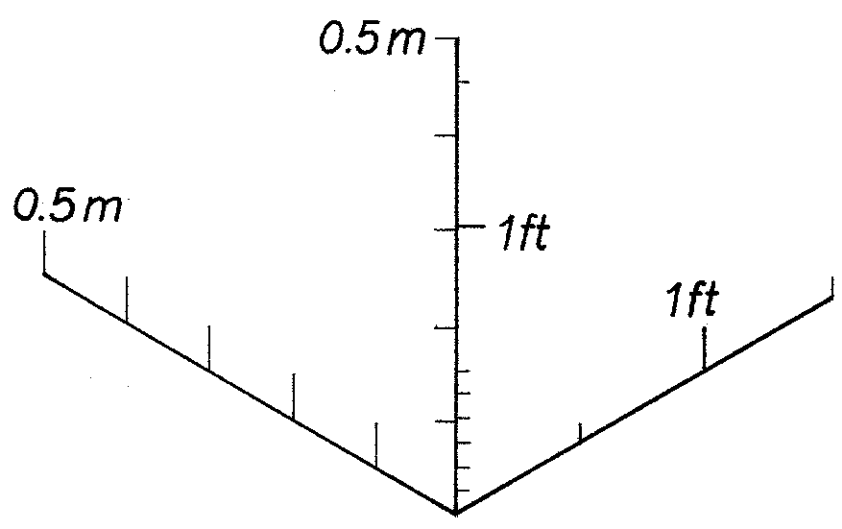
IOWA

SHEET
3 of 5

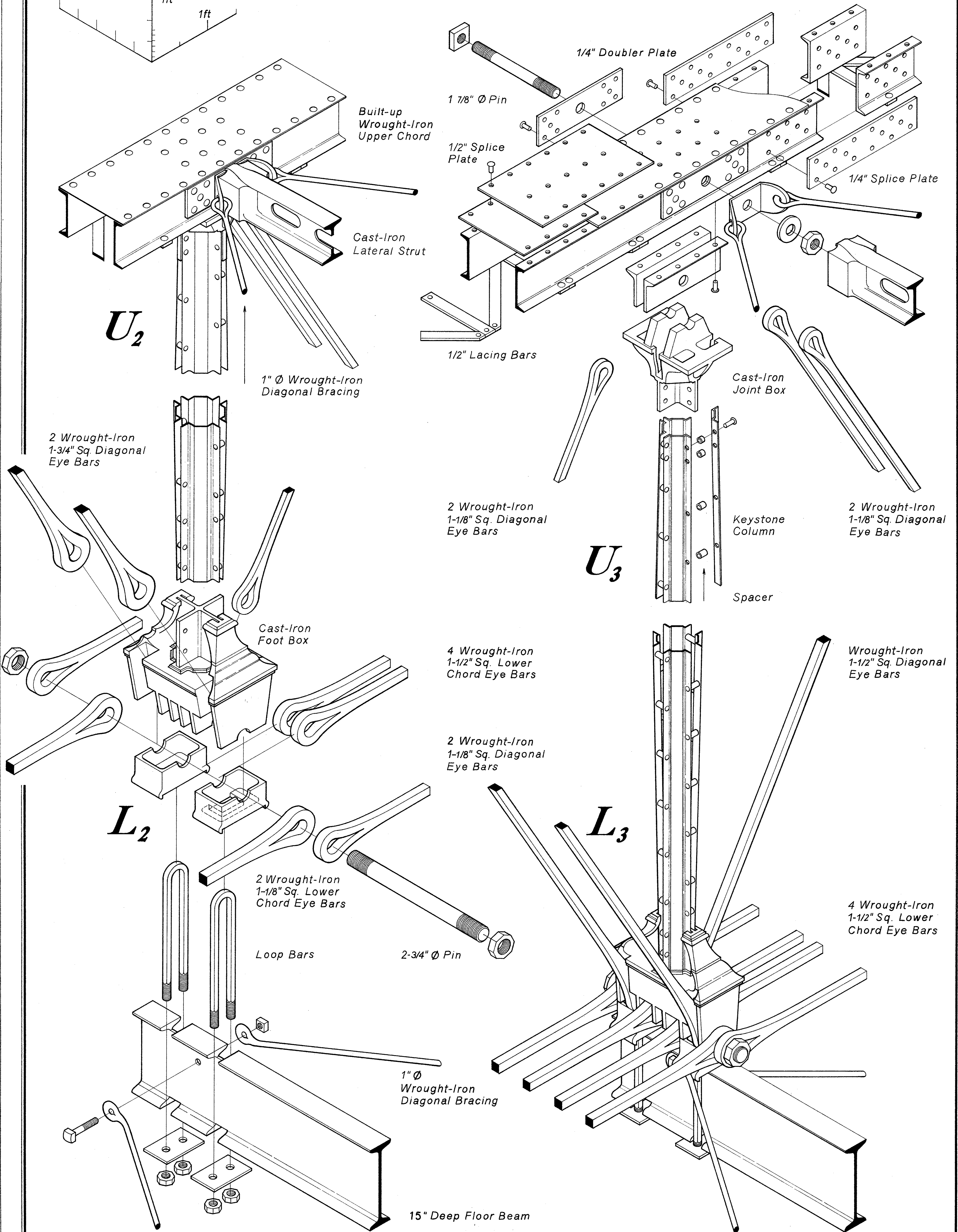
HISTORIC AMERICAN
ENGINEERING RECORD
IA-51

172753

Scale: 1 1/2" = 1' - 0"



CONNECTION DETAILS



DELINEATED BY: Caroline Schweyer, 1995

IOWA HISTORIC BRIDGES
RECORDING PROJECT
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

BERNARD VICINITY

WHITE WATER CREEK BRIDGE (1872)
SPANNING WHITE WATER CREEK ON COUNTY ROAD, 4 MILES SW OF BERNARD
DUBUQUE COUNTY

IOWA

SHEET
4 of 5

HISTORIC AMERICAN
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IA-51

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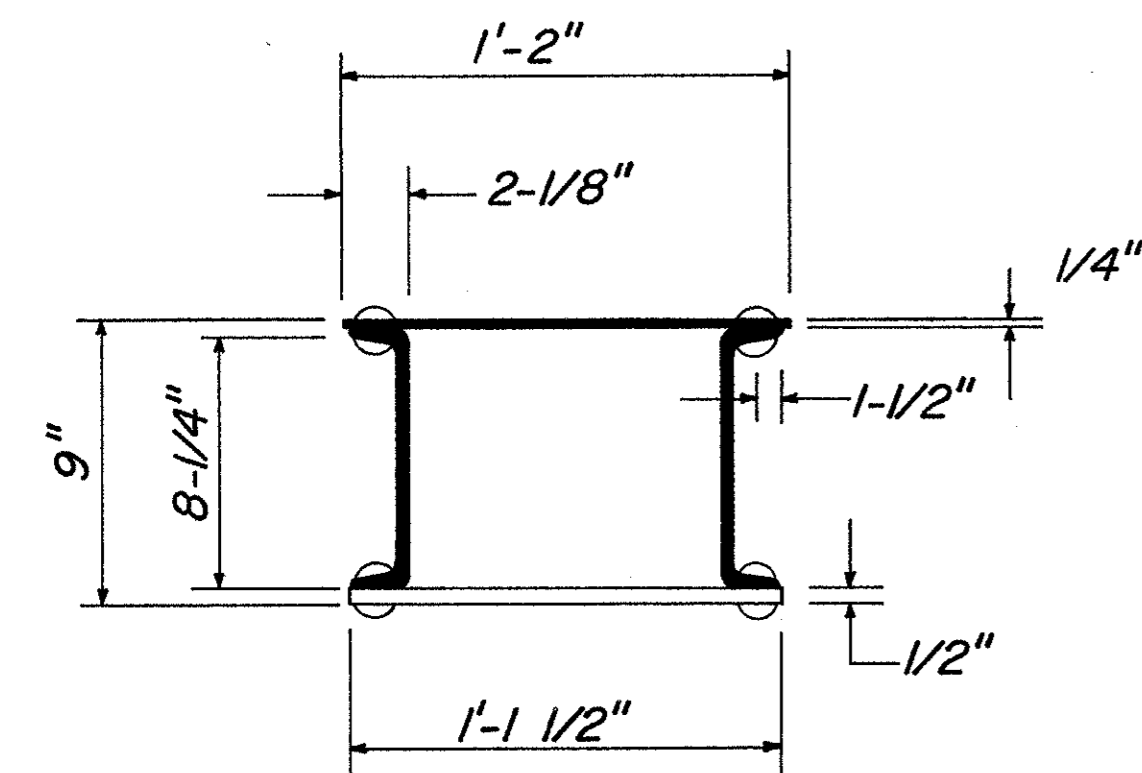
TABLE OF SECTIONS

SCALE: 2" = 1'-0"

0 0'-6" 1'-0" 2'-0" FEET

0 0.1 0.2 0.3 0.5 METERS

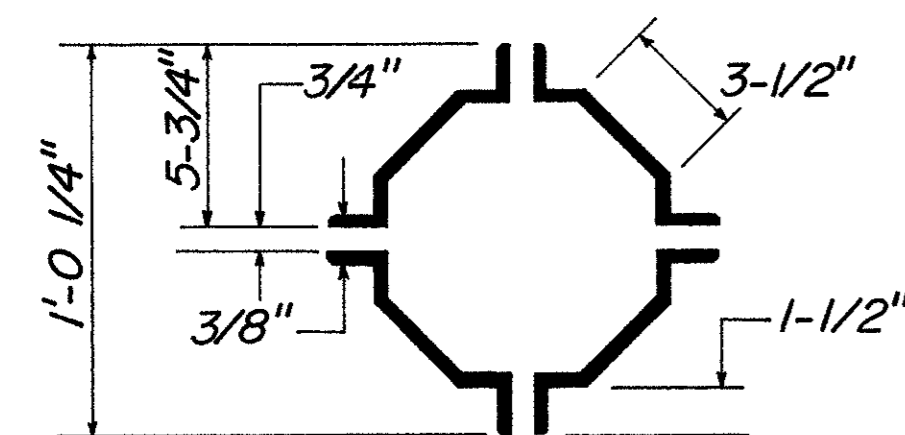
UPPER CHORD



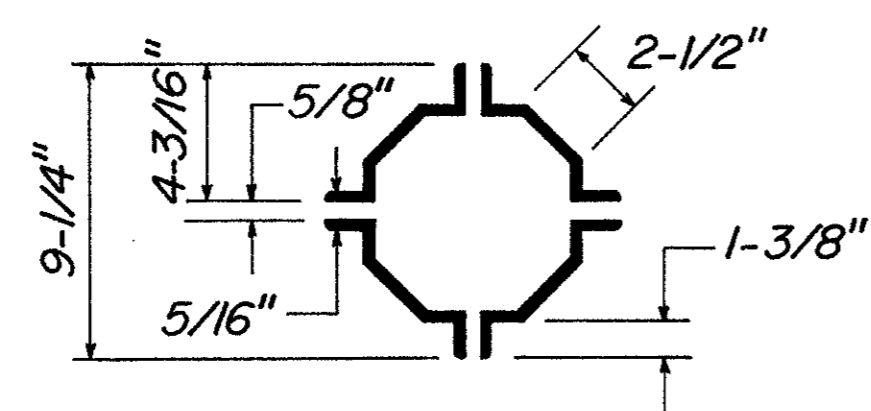
TOP LATERAL BRACING



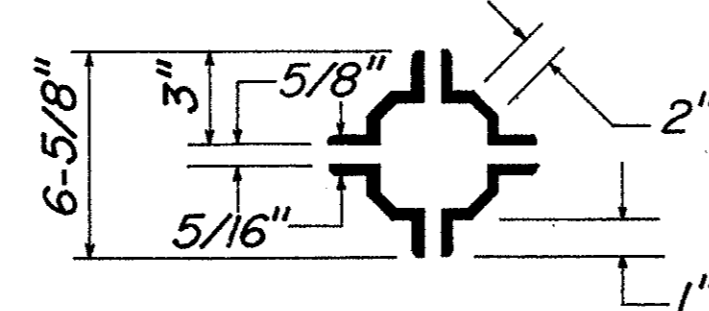
POSTS



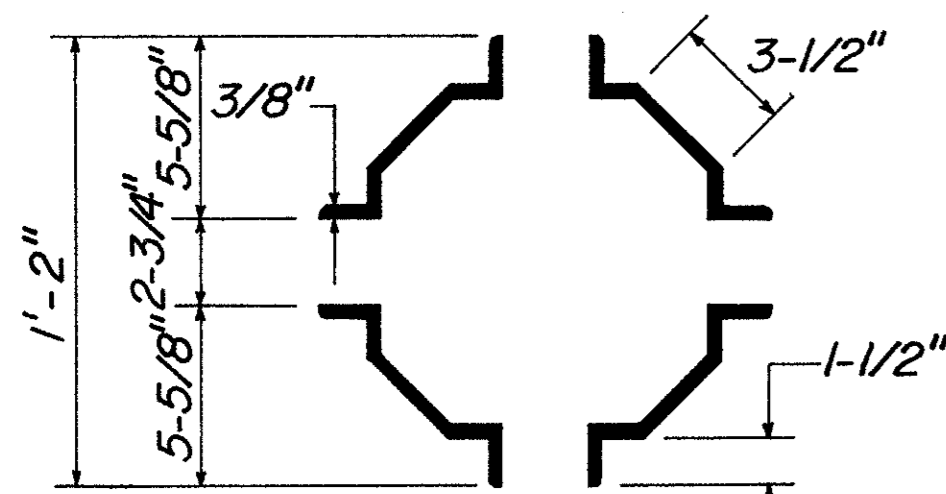
INCLINED END POST, BASE SECTION



LARGE VERTICAL POST, BASE SECTION

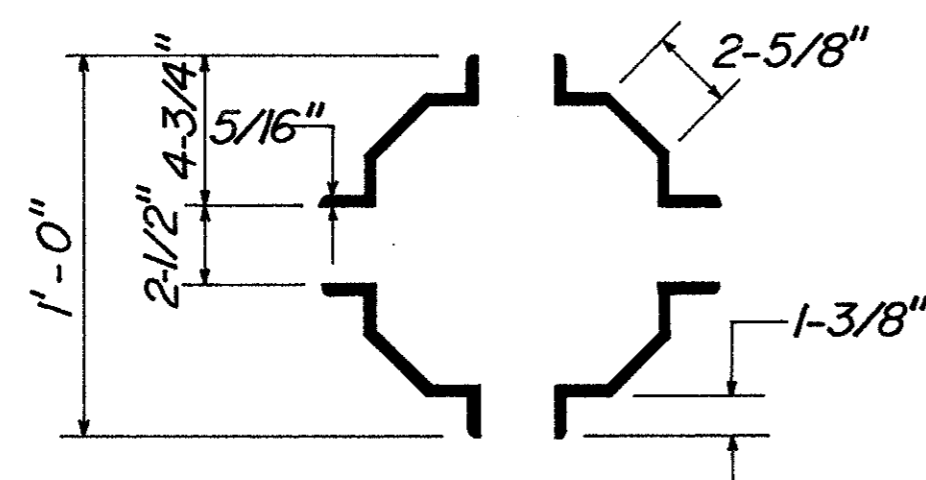


SMALL VERTICAL POST, BASE SECTION



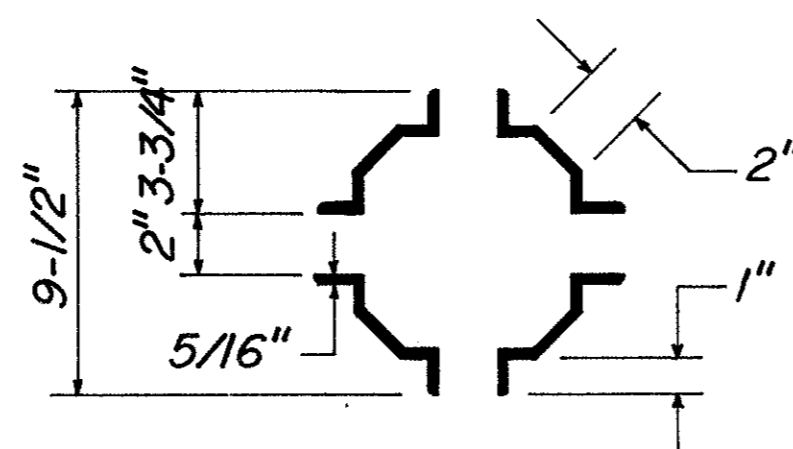
INCLINED END POST, CENTER SECTION

L0-U1
L8-U7



LARGE VERTICAL POST, CENTER SECTION

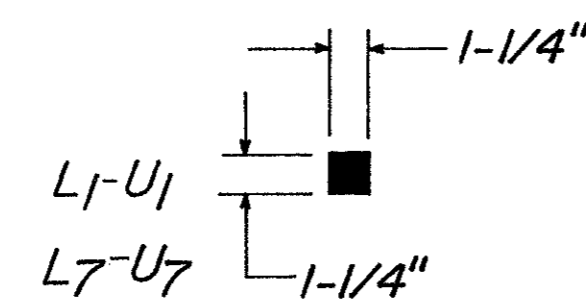
L2-U2
L6-U6



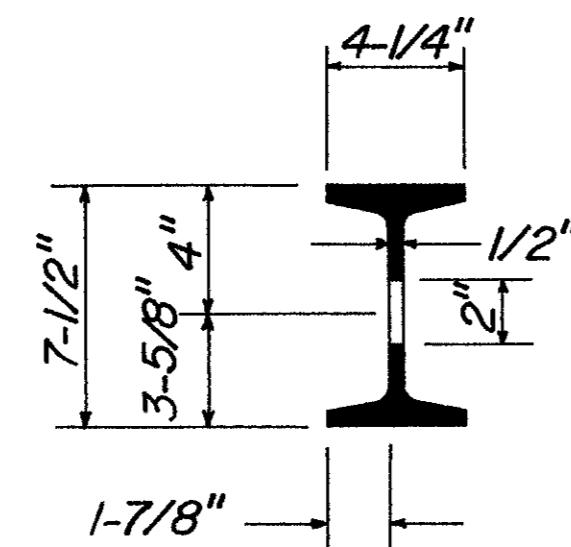
SMALL VERTICAL POST, CENTER SECTION

L3-U3
L4-U4
L5-U5

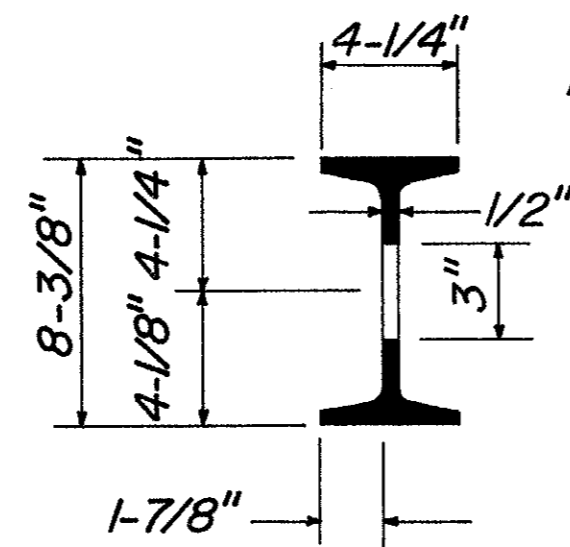
HIP VERTICAL



STRUT

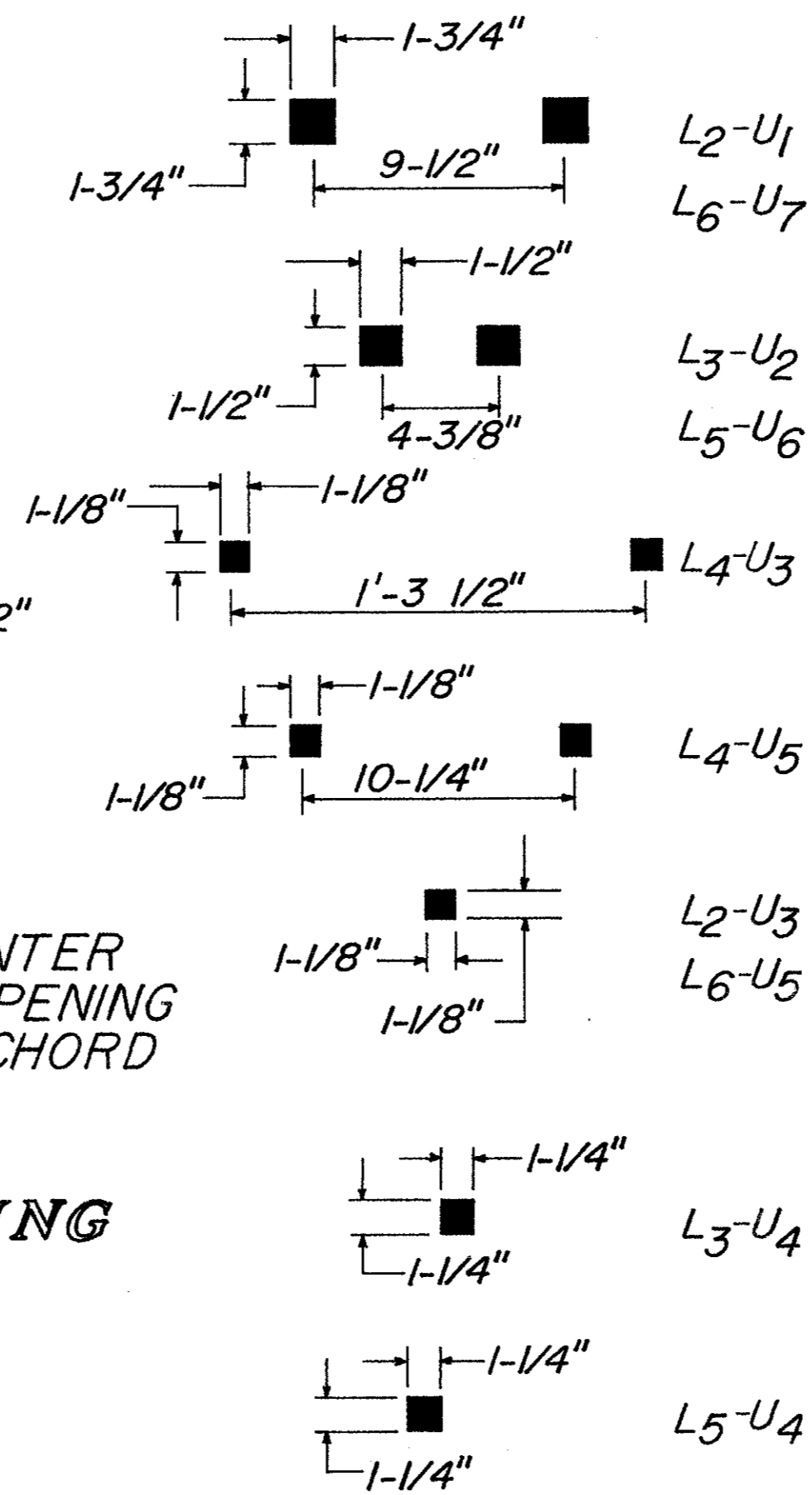


STRUT AT CENTER OF FIRST OPENING FROM UPPER CHORD

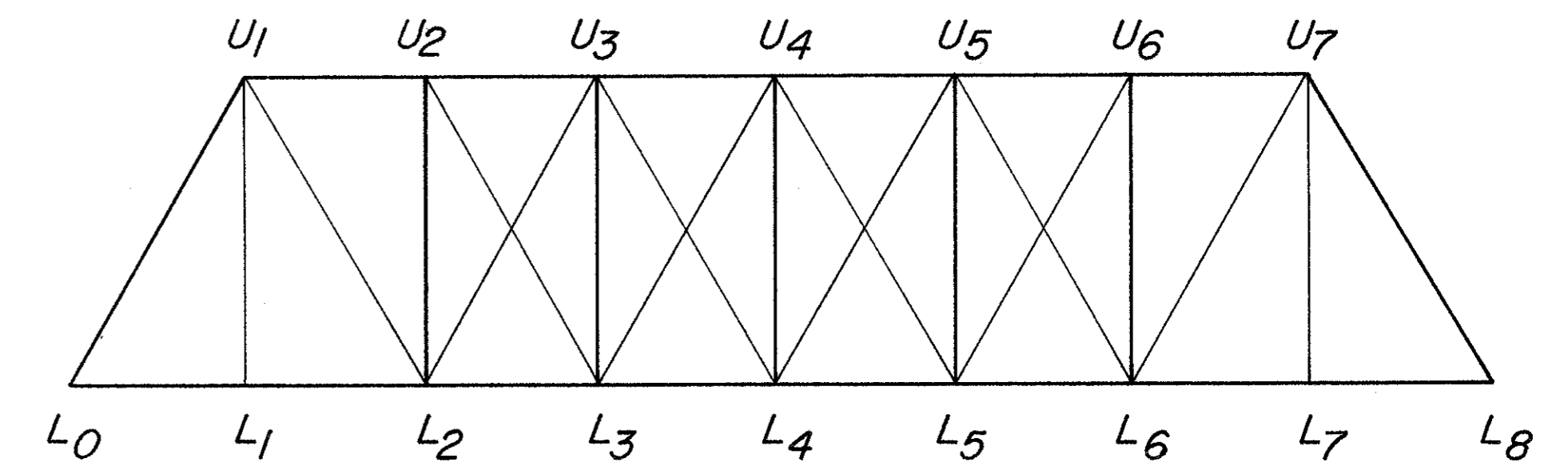


STRUT AT CENTER OF SEVENTH OPENING FROM UPPER CHORD

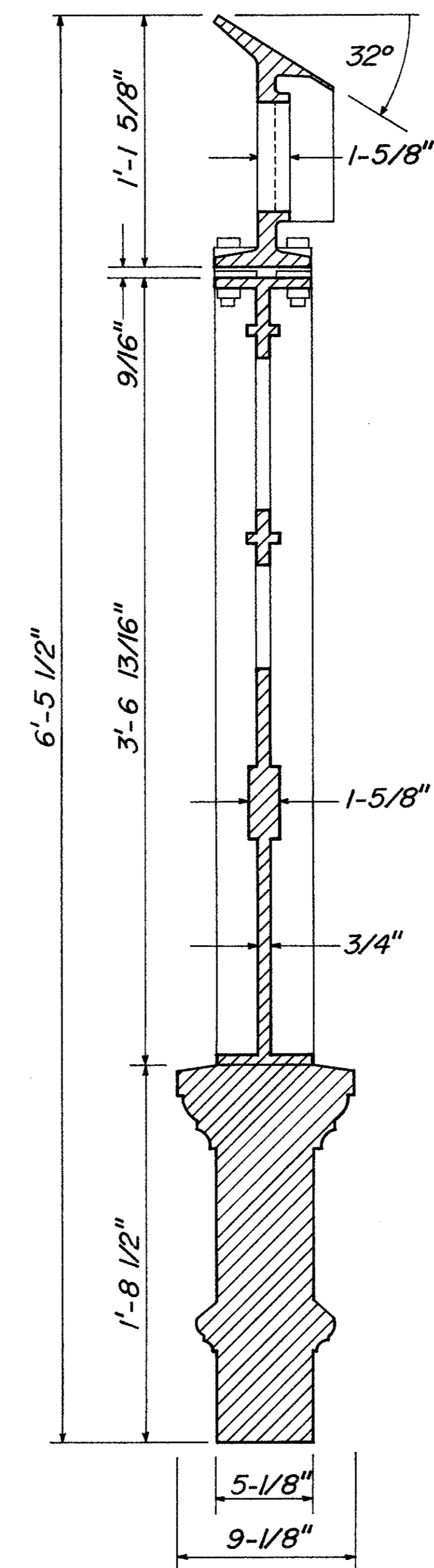
DIAGONAL BRACING



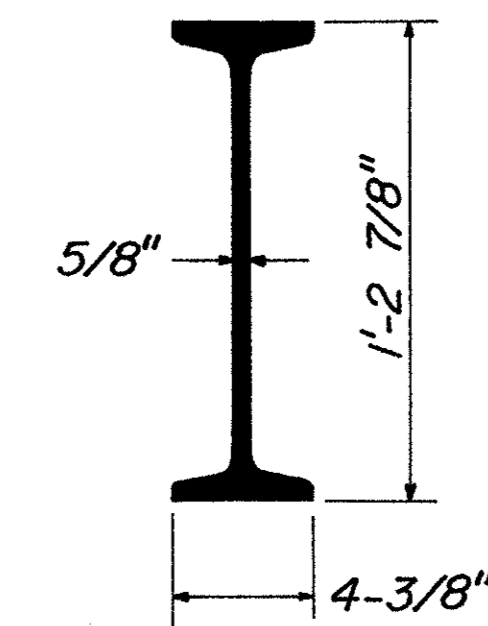
KEY



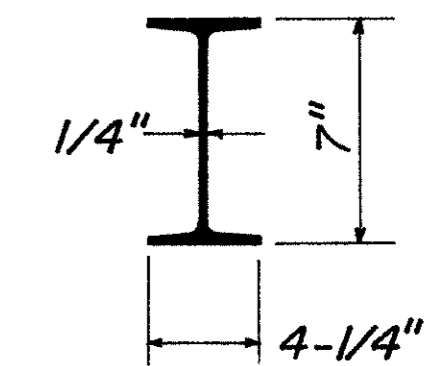
PORTAL BRACING



FLOOR BEAM



STRINGER



LOWER CHORD

