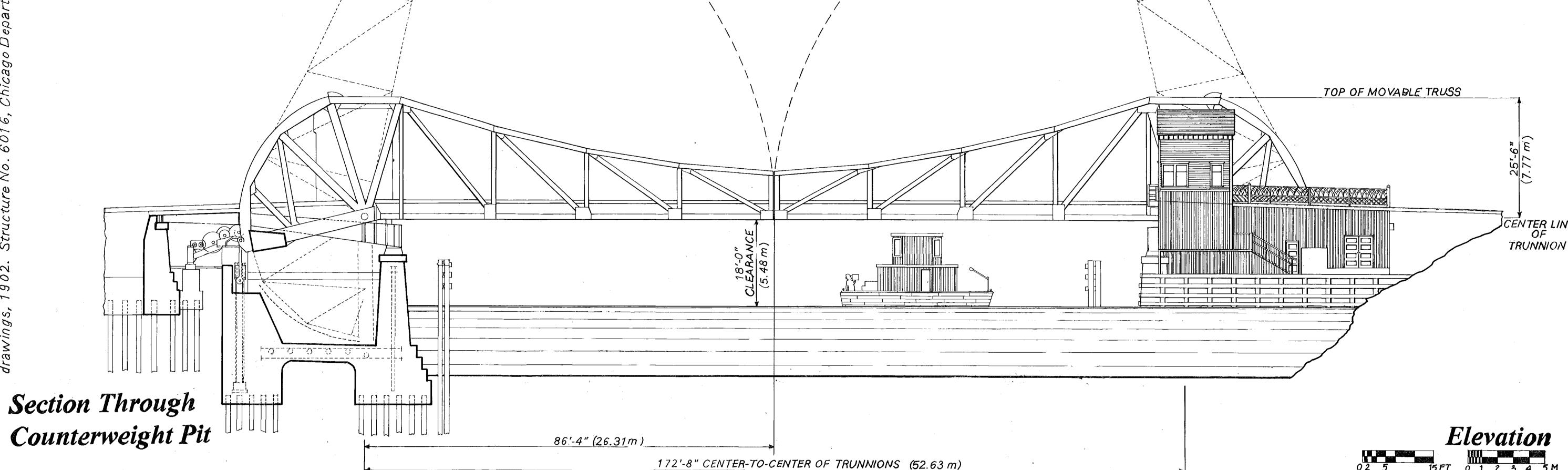
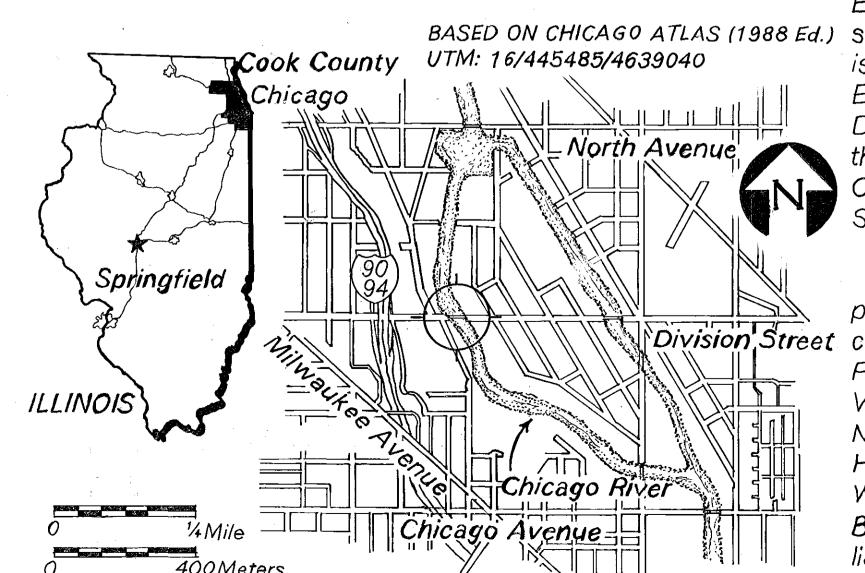
WEST DIVISION STREET BRIDGE SPANNING NORTH BRANCH OF CHICAGO RIVER 1904·CHICAGO, ILLINO15



Movable bridges, or drawbridges, are built over waterways when it is impractical to construct fixed bridges of sufficient height for the passage of vessels. By 1870, the most common American drawbridge was the swing bridge, horizontally rotating on a center pier to open two channels. The center pier, however, was a hazard for the ever-larger craft of the late nineteenth century, especially on crowded, narrow waterways such as the Chicago River. By the 1890s, Chicago swing spans could no longer handle the largest vessels, and the city's river commerce began to decline.

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In 1900, the Chicago Department of Public Works developed a new movable bridge design based on London's 1894 Tower Bridge. The type was known as a double-leaf "bascule" - French for seesaw. Each movable leaf rotated vertically on a steel axle, or trunnion, leaving the entire river channel open for shipping. With the front of each leaf counter-balanced by weights at the rear, relatively small motors could open and close the span. The 1904 West Division Street Bridge was the third of about fifty bascules built in the city. It included all the basic features of the "Chicago Type Bascule": two truss-supported leaves pivoting on trunnions, rigidly attached belowdeck counterweights, and electric-powered operating machinery with a pinion-activated rack on the rear of each truss.

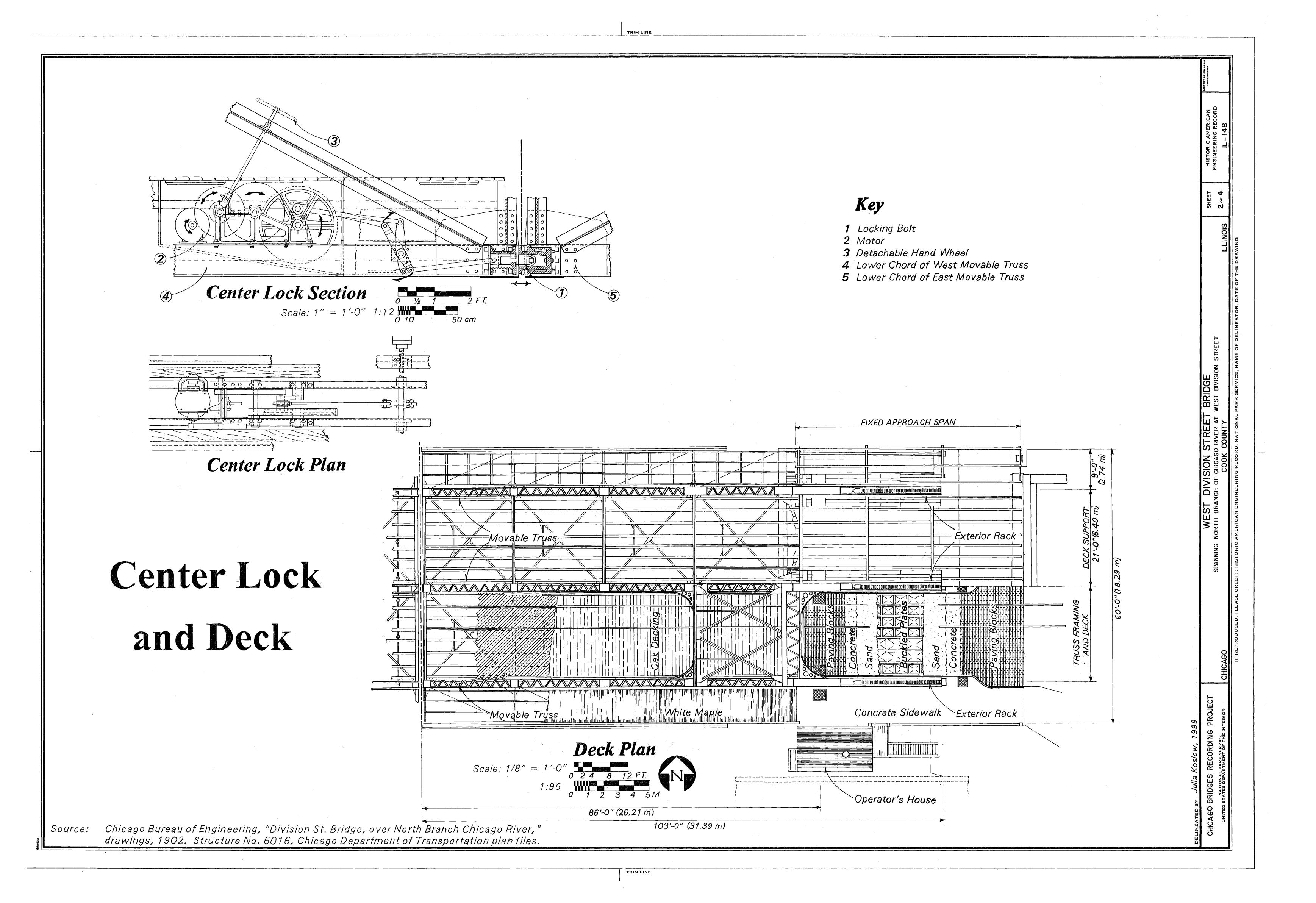


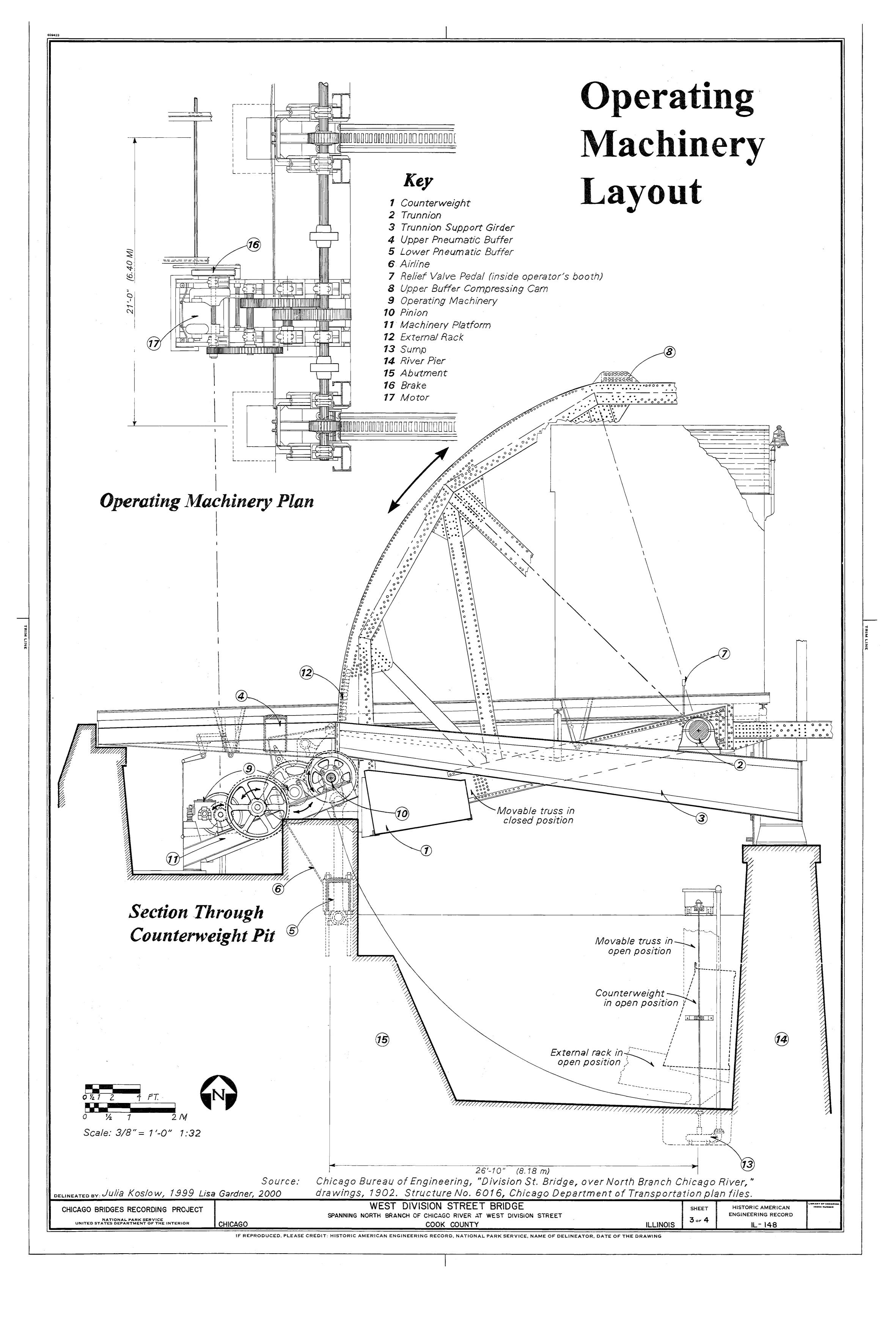
134'-0" CHANNEL CLEARANCE (40.84 m)

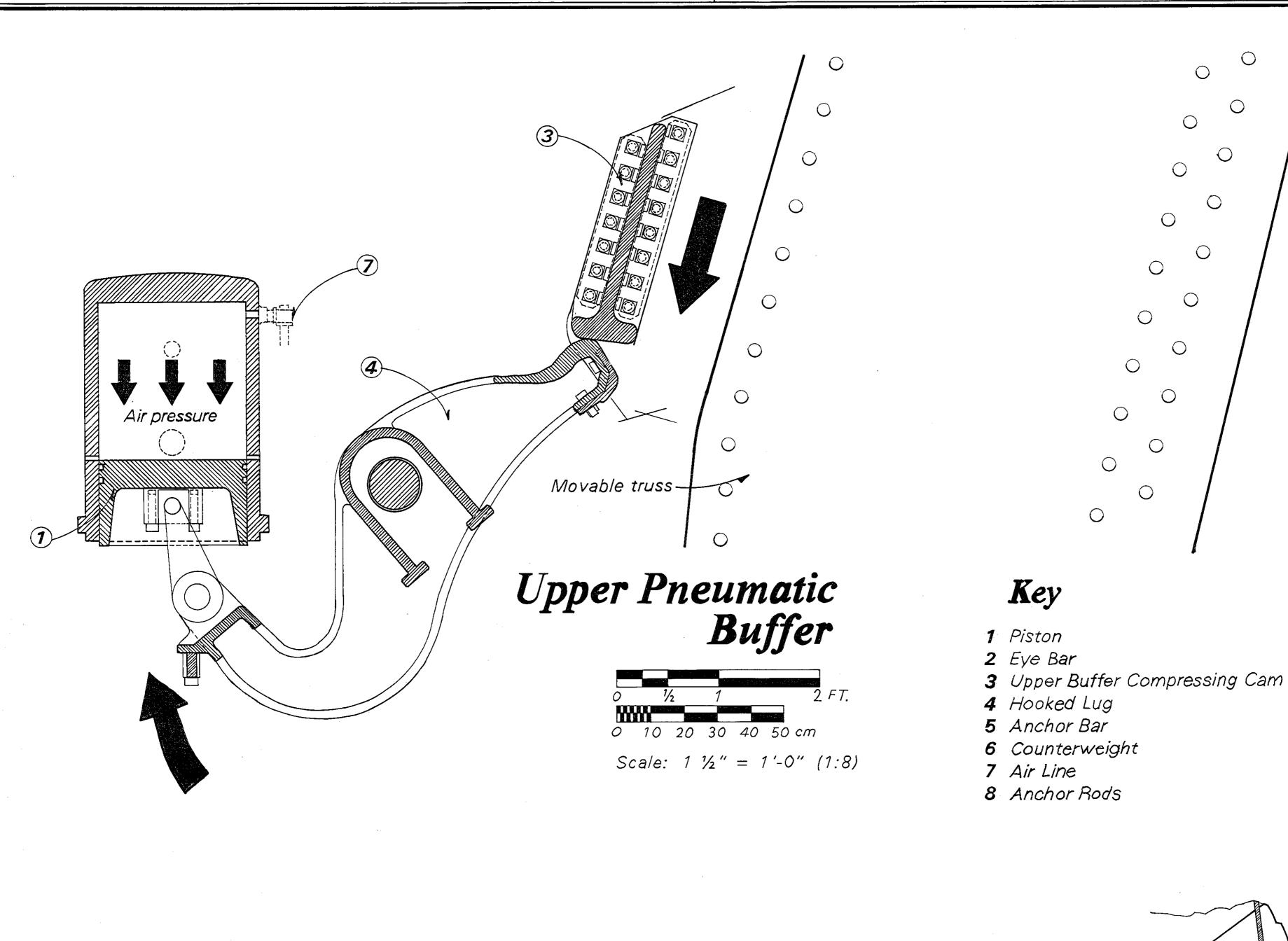
The Chicago Bridges Recording Project is part of the Historic American Engineering Record (HAER), a long-range program to document historically BASED ON CHICAGO ATLAS (1988 Ed.) significant engineering and industrial works in the United States. The HAER program is administered by the Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) Division of the National Park Service, U.S. Department of the Interior, E. Blaine Cliver, Chief. The project was sponsored during the summer of 1999 by the City of Chicago, Richard M. Daley, Mayor; and the Chicago Department of Transportation, Thomas R. Walker, Commissioner, and S. L. Kaderbek, Chief Engineer, Bureau of Bridges and Transit.

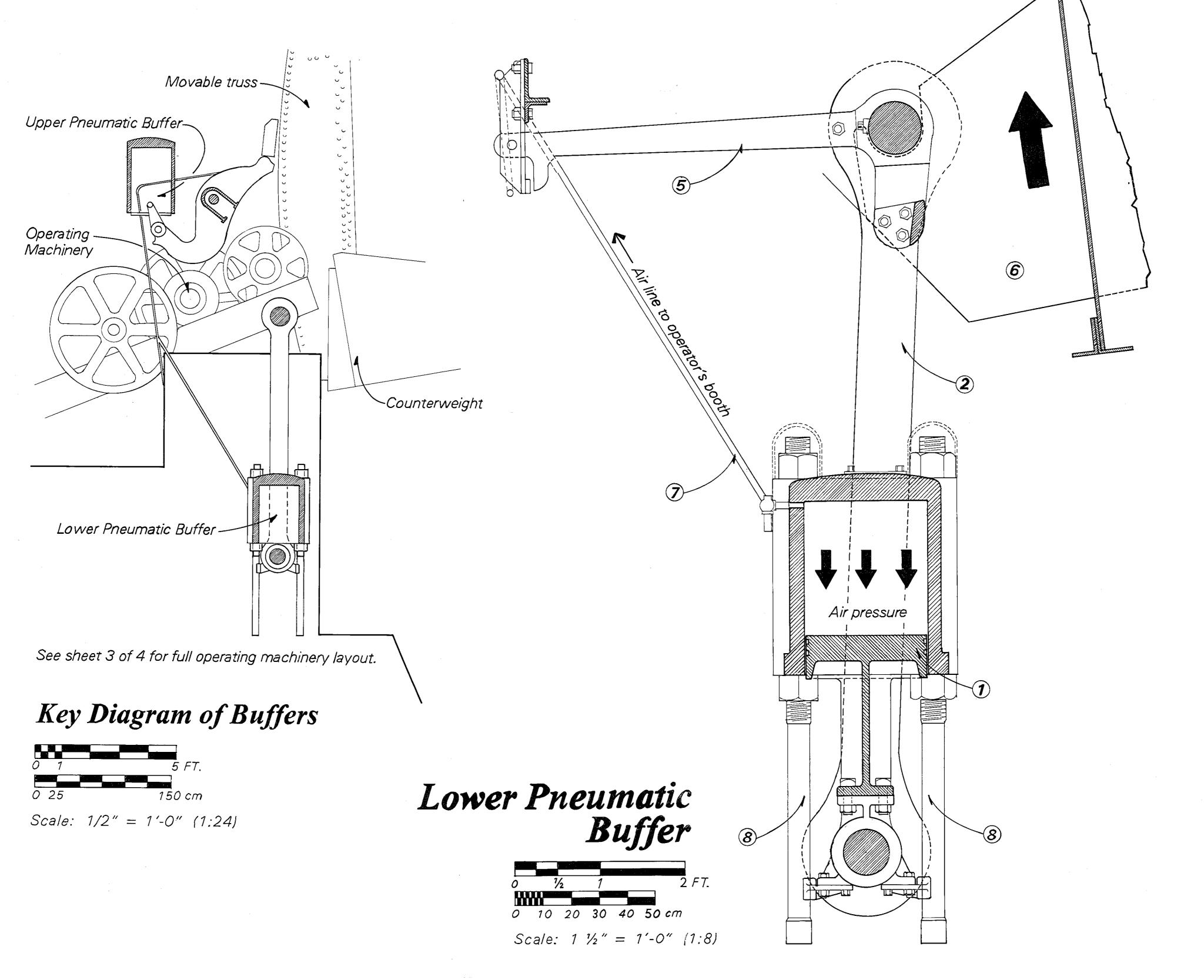
Scale: 1" = 10'-0" 1:120

The field work, measured drawings, historical reports, and photographs were prepared under the direction of Eric N. DeLony, Chief of HAER. The recording team Division Street consisted of Architectural Field Supervisor James P. Hanley (Peoria, IL); Engineering Field Supervisor Justin M. Spivey (HAER); Architects Susan H. Gordon (University of Virginia), Karen L. Hassey (University of Virginia), Julia M. Koslow (University of Notre Dame), and Domagoj Kranjcevic (ICOMOS, University of Zagreb, Croatia); and Historians Jeffrey A. Hess (Minneapolis, MN) and Matthew T. Sneddon (University of Washington). Large-format photographs were taken by Jet Lowe (HAER). Bureau of Bridges and Transit Assistant Chief Engineer Christopher Holt served as department liaison.









COOK COUNTY

WEST DIVISION STREET BRIDGE

SPANNING NORTH BRANCH OF CHICAGO RIVER AT WEST DIVISION STREET

Source:

DELINEATED BY: Julia Koslow, 1999 Lisa Gardner, 2000

CHICAGO

CHICAGO BRIDGES RECORDING PROJECT

NATIONAL PARK SERVICE UNITED STATES DEPARTMENT OF THE INTERIOR Chicago Bureau of Engineering, "Division St. Bridge, over North Branch Chicago River,"

drawings, 1902. Structure No. 6016, Chicago Department of Transportation plan files.

HISTORIC AMERICAN

ENGINEERING RECORD

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ILLINOIS