

Appleton Locks and Dams, Storage Building at Lock 3
South of Lock 3, near the upper gate
Appleton
Outagamie County
Wisconsin

HAER No. WI-84-J

HAER
WIS
44-APPL,
1J-

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

**HISTORIC AMERICAN ENGINEERING RECORD
Rocky Mountain System Support Office
National Park Service
P.O. Box 25287
Denver, Colorado 80225-0287**

HISTORIC AMERICAN ENGINEERING RECORD

APPLETON LOCKS AND DAMS, STORAGE BUILDING AT LOCK 3

HAER
WIS
44-APPL,
1J-

HAER NO. WI-84-J

Location: The storage building at Appleton Lock 3 of the Appleton Locks and Dams Complex is located south of the lock shelter in the SW1/4, NW1/4, NW1/4 of Section 36, T21N, R17E, Civil Town of Grand Chute, Outagamie County, Wisconsin.

UTM: 16/388620/4900960; USGS; USGS Quadrangle: Appleton, Wisconsin 7.5' series

Date of Construction: 1976

Engineer: United States Army Corps of Engineers with Contractors

Architect: United States Army Corps of Engineers with Contractors

Present Owner: United States Army Corps of Engineers

Present Use: Storage of paint and petroleum products.

Significance: The storage building functions as part of the daily operation of the Appleton Locks and Dams Complex.

Project Information: This documentation was undertaken in 1995 in accordance with requirements detailed in a June 19, 1994 letter from Gregory D. Kendrick, Chief, History Branch, NPS to Dale Monteith, Acting Chief, Planning Division, USACOE, Detroit District. The Lower Fox system remains basically operational but was placed in caretaker status by the USACOE in 1982. The USACOE plans to divest itself of the Lower Fox system as soon as is feasible; therefore, NPS requested this documentation. All documentation conforms to HAER standards.

Dr. John D. Richards, Principal Investigator; Georgia A. Lusk, Patricia B. Richards, and Robert J. Watson, Project Archivists with Great Lakes Archaeological Research Center, Inc.; Joseph Paskus, Project Photographer.

STORAGE BUILDING

A 5 foot 4 inch by 5 foot 4 inch metal storage building is located on the southern lock embankment near the upper lock gate. Constructed during the 1980s, the storage building is a pre-fabricated structure manufactured by Armco Building Systems of Cincinnati, Ohio. The modular wall panels, which are bolted onto a concrete slab foundation, support a flat roof.¹ An entrance door is located on the lockward side of the storage building, and a single, louvered vent is centered on the opposite side.²

ENDNOTES

- 1 Armco Steel Buildings, Erection Instructions TL-1 Building, sheets ET-115, ET-116, ET-118, ET-119.
- 2 Ibid., sheets EW-109, E-159.

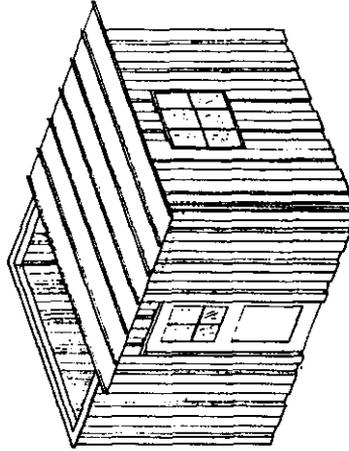
ROOF ERECTION

* If ceiling is to be installed, it must be erected at the same time as is the roof...see std. ceiling detail.

Check building walls for plumb and square. Apply a continuous strip of tape sealant on top of plates. Set the first roof panel with the female rib 8" outside of endwall and with 8" of overhang on each sidewall. Field drill roof panel to match holes in plate and bolt with 7/4 x 3/4" bolts with weather seal washer.

Continue setting roof panels bolting only to the rear plate and keeping ends of panels even. Move rear wall and not the roof panels to maintain the 8" overhang. Again check the walls for plumb and square.

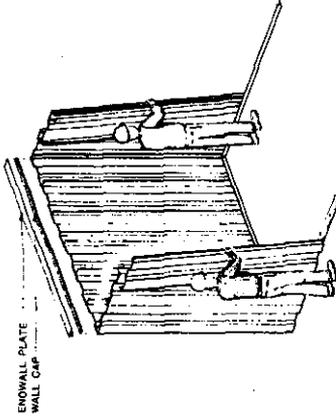
Field Drill and bolt the roof panels to the front plate and endwall plates. Place fascia over male rib of the last roof panel. * (Note: If ceiling is to be installed, do not erect last roof panel at this time...see std. ceiling details.) If alternate gutter-fascia is used, see ET-121. Attach eave flashing 60535 around building with #10 x 7/8" SIS 16" O.C. Field cut ends at corners for closing tab.



ROOF PANELS		8'-0"	12'-0"
BLDG. WIDTH	5'-4"	8'-0"	12'-0"
A. LOAD	58978	54648	59065
B. LOAD	58978	54648	59067
C. LOAD	58978	54648	66681
D. LOAD	58978	54648	59067
E. LOAD	58978	54648	59067
F. LOAD	58978	54648	59067
G. LOAD	58978	54648	59067
H. LOAD	58978	54648	59067

ROOF AND WALL ERECTION
TL-1 BUILDING

9/67 ET-119

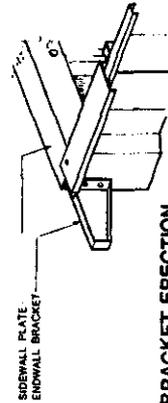


WALL CAP AND PLATE SCHEDULE		5'-4"	8'-0"	9'-4"	12'-0"
BLDG. WIDTH	5'-4"	8'-0"	9'-4"	12'-0"	
ENDWALL CAP	58384	58385	50354	58386	
REAR OR ENDWALL PLATE	60610	60611	60612	60613	
FRONT PLATE	60531	60532	60633	60534	

WALL CAP & PLATE ERECTION

Place wall cap and plate on endwall panels. Plumb and square panels, but do not wrench tighten plate bolts. Erect the side walls, one wall from outside the building and the other wall from inside the building. Install sidewall wafers caps and plates against corner panels. Top of front plate should be 1/4" above wall panels and rear plate should rest on wall panels. Erect second end wall and wall cap. Position end wall plates flush with front end rear plates, then wrench tighten all plate bolts.

See door and window instructions for installation. For 8'-4" long building field cut sidewall plate and wall cap.

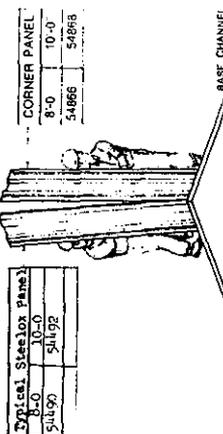


BRACKET ERECTION

Attach end wall brackets (60614 or 60615) flush with top of sidewall plates using two 3/8" x 3/4" THSB at each corner. Field drill using 3/8" drill.

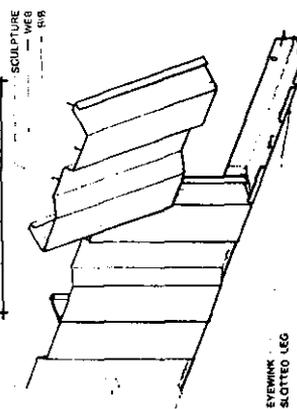
CORNER ERECTION

Starting at a corner assemble a corner panel and typical panel by bolting the interlocking rib to the base channel with bolt, steel nut and washer. Plumb the corner and wrench tighten nut and bolt. Mark door and window locations so that short panels can be installed.



Typical Steelox Panel		8'-0"	10'-0"
54490	54492	54866	54868

PANELS OVER SLING DOORS		8'-0"	10'-0"
ALL SIZES	54498	54504	



WALL ERECTION

Erect end wall panels by placing the bottom of panel on base channel with panel rib in base channel slots and panel web outside of slotted legs. Panel sculpture must be kept clear of base channel work. Interlock made ribs with the female ribs of the preceding panel end bolt interlocked ribs to the base channel.