

U.S. NAVAL BASE, PEARL HARBOR, TWO-STORY
STOREHOUSES WITH RAMPS
(U.S. Naval Base, Pearl Harbor, Naval Station, Pipe & Hardware
Storehouse and Ordnance Storehouse)
(Facility Nos. 393 & 394)
Port Royal Street between Central and South Avenues
Pearl Harbor
Honolulu County
Hawaii

HABS HI-429

HI-429

HABS

HI-429

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN BUILDINGS SURVEY
PACIFIC WEST REGIONAL OFFICE
National Park Service
U.S. Department of the Interior
1111 Jackson Street, Suite 700
Oakland, CA 94607

HISTORIC AMERICAN BUILDINGS SURVEY

U.S. NAVAL BASE, PEARL HARBOR, TWO-STORY STOREHOUSES WITH RAMPS (U.S. Naval Base, Pearl Harbor, Naval Station) (U.S. Naval Base, Pearl Harbor, Pipe & Hardware Storehouse and Ordnance Storehouse) (Facility Nos. 393 and 394)

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Location: Port Royal Street between Central and South Avenues
Pearl Harbor Naval Base
City and County of Honolulu, Hawaii

U.S.G.S. Pearl Harbor Quadrangle, Hawaii, 1999
7.5 Minute Series (Topographic) (Scale - 1:24,000)
Universal Transverse Mercator Coordinates
Facility No. 393 4.608060.2360740
Facility No. 394 4.608020.2360910

Significance: Facility Nos. 393 and 394 were built, respectively, as an ordinance storehouse and a pipe and hardware storehouse in the last year of World War II. These two structures are significant for their unique design and association with World War II supply history. The buildings have high integrity, with most elements of their original design intact. They are the only storehouses built at Pearl Harbor with ramps leading to their second floors and a composite concrete- and wood-framed structure. This unusual architecture is a response to the rapidly expanding wartime need for storage space in close proximity to the shops and wharfs at the base. These storehouses are contributing elements to the Pearl Harbor National Historic Landmark.

Description: Facility Nos. 393 and 394 are located in the Shipyard area of the Pearl Harbor Naval Base. They are both surrounded by pavement with landscaping limited to some grass and hedges on the South Avenue end of Facility No. 393. A large parking area is located on the west side of the storehouses. There are large fuel tanks to the west of the buildings, which are remnants of the former Lower Tank Farm. Across Port Royal Street there is a modern medical clinic and a row of smaller one-story warehouses whose axes are oriented 90 degrees to the axis of these two buildings.

Facility Nos. 393 and 394 are two-story, gable-roofed storehouses with ramps located on each long side of the buildings. The storehouses' footprints measure 454'-6" x 153'-6" and they are approximately 42' in height. The interior floor space of each, counting both levels, is total of almost 139,000 square feet. These storehouses have 21 bays along their lengths and 7 bays across their widths on the first level, each measuring 21'-6" square. The second level is 21 bays long by three bays wide, with

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the outer bays having a width of approximately 44' and the central bay being about 65' wide. The height from floor to ceiling of the first level is about 17', and on the upper level the height from the floor to the bottom of the roof trusses is also 17'.

The foundations of Facility Nos. 393 and 394 consist of perimeter grade beams and footings of reinforced concrete under each first-floor column. The footings range in size from 6'-0" to 7'-8" square. The grade beams are 11" thick and about 3' tall. The footings for the columns under the ramps are 3'-6" square. A building card in the Shipyard facilities files indicates the ramps can accommodate 15-ton vehicles.

The first-floor perimeter columns abut the grade beams and typically measure 1'-4" x 1'-6", except the corner columns are 1'-4" square. The perimeter columns have wedge-shaped capitals. The free-standing first-floor columns are octagonal in cross-section and have flared octagonal capitals under a 7'-8" square drop panel. [A drop panel is the thickened portion on the underside of a concrete slab which surrounds a column capital.] These concrete columns support the upper level's concrete slab floor structure, which is typically 8" thick. However, the five middle bays of the buildings, where the trucks drive through, between the up and down ramps, have a 9"-thick concrete slab floor on the second level. The capitals of the free-standing columns under these bays flare to 4'-10" wide, while the other octagonal columns have capitals measuring 4'-4" at the widest points. The 8" x 10" (interior) and 8" x 8" (perimeter) wood columns on the second floor support the wood truss roof structure. The storehouses each have two concrete ramps running up to the second floor on their west and east sides. These ramps are supported on concrete piers measuring 11" square and have wood railings.

The storehouses have siding of corrugated metal panels on both levels, over both the concrete and the wood framing. The two bays under the tallest part of each east-side ramp have reinforced concrete walls. The exterior (and interior) walls of the transformer rooms are built of concrete masonry units (CMU).

There are large wood-frame sliding doors on overhead tracks around all sides of the first level and at the tops of the ramps on the second level. Diagonal boards form chevron and diamond patterns in the wood frames. The doors on the first floor all measure 16'-4" tall but their width varies from 15'-0" to 15'-8". There are three doors on each end and four doors on each side. There is one in every two or three bays, except where the ramps are located. A few of the large doors contain a small access door (ranging in size from about 4' x 3' to 7' x 3'). On a parallel overhead track some of the large openings, especially on Facility No. 393, also have a metal-mesh-on-wood-frame door, to allow ventilation and provide security when the wood doors are open. The doors at the tops of the ramps are smaller, but are in pairs, so the openings are larger. The doors at the top

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of Facility No. 394's east-side ramp are set at an angle in the interior. This was part of the original design of both buildings. It is not clear if Facility No. 393's east-side second-floor doors were built as they now appear, parallel with the wall, or were changed at some later date to eliminate the angle.

There are also standard-size doors on the ground level. In the original design there was only one each on the east and west sides. On the east side of each storehouse there is a door set in a recess in the concrete wall which leads to a hall and stairwell. On each building's west side the transformer room has a slightly larger metal-clad sliding door. Modern flush doors have been added to the south and north ends of Facility No. 393 and 394, respectively.

The window groups in these storehouses typically consist of four wood-frame, two-over-two-light, double-hung sash. There is one group with only three windows and a separate single window nearby. Almost all the second-floor bays have the four-window group; interestingly, the few windowless bays have different placements on each building. Due to the office on the north end of Facility No. 394 these windows are located closer to floor level than those on the other sides; and one window group on this end has been boarded up. The northernmost bay on the west side of Facility No. 394 has an added two-light, double-hung window, also located closer to floor level like the north-end windows. The second-floor bay with the stair on the eastern side of each building has one small, two-light, wood-frame fixed window. On Facility No. 393, this window is set higher on the wall than in Facility No. 394. The first floor has fewer bays with windows. There are no windows on the ends of the lower level, while the upper-level ends all had five window groupings originally. Also, on the first floor the ramps make window placement impossible or ineffective in some bays. There are wood-louver awnings over the window group located in the east-side bay to the south of the ramp in Facility No. 393. The office and toilet room bays under the eastern ramps have a few multi-light, steel-sash, pivoting windows. Facility No. 394 retained most of the original ones in these bays, but some of Facility No. 393's original steel-sash windows were replaced by jalousies. Above these office and toilet windows are louvered ventilation openings flanking an air-conditioning unit or otherwise altered opening that originally had a fixed window. In all the other bays on both levels, except those with doors, there are long rectangular ventilation openings screened with metal mesh. These are high above the windows and just under the eaves on the second floor and in the narrow space between the windows and the concrete canopy on the first floor.

The structures have low-slope gable roofs with extended eaves. The undersides of the eaves are open, but fascia boards are attached to the rafter ends. These storehouses have built-up roofing, replaced in 1983. At approximately the middle of each building a CMU firewall with a

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stepped concrete cap extends above the roof. There is a roof hatch located near the firewall on the east side. Both storehouses have cantilevered concrete canopies at the second-floor slab level around their perimeters, except where interrupted by the ramps.

The interiors of the storehouses are mostly large open spaces with unfinished concrete floors. The ceilings of the upper levels are typically the underlayment boards of the roofing and the first-floor ceilings are the underside of the concrete floor above. The interior of the siding material is generally visible in the storage spaces. There are no decorative features or trim in these storehouses. In the large storage spaces of the first floor, due to the numerous rows of columns, three longitudinal aisles and seven cross aisles are designated on the original plans; each aisle is the full bay width between columns. The second-floor storage spaces, with only two rows of columns, are laid out with one central longitudinal aisle. The few interior rooms are generally small and part of the original design. These rooms have a variety of inexpensive wall, ceiling, and floor materials, including canec panels, a sugar-cane fiber product. Non-historic fence-like partitions have been added within the large spaces.

On the lower level there are small enclosures of concrete or CMU for the office and men's bathrooms on the east side. In both buildings there is a mezzanine level above the office, with women's toilet and locker rooms. The drawings show a mezzanine in Facility No. 393 over much of the south half's center bays, but this portion of the building was not field checked. On the west side of each storehouse, adjacent to the firewall is a transformer room. In Facility No. 394 a larger transformer room was built next to the original one. The original room has walls of CMU rising to about 10', and a concrete slab ceiling which is below the main first-floor ceiling. The new transformer room has matching CMU walls, but they rise to the main ceiling.

On each building's second floor, there is an almost triangular-plan men's toilet room near the top of the east-side ramp. The northern two bays of Facility No. 394's second floor include a large office space and a few other rooms, including toilets. Partition materials in these rooms include plywood and horizontal boards. A technical library was built in the eastern part of the adjacent bay. In the two bays at the south end of this building the drawings show a large air-conditioned storage room. A small machinery room for a/c equipment abuts the middle of the larger room.

There are three stairs between floors in each building, at the northwest and southwest corners and near the middle of the east side. The two end stairs are entirely wood, while the central one is concrete between the first and second floors, but of wood construction above that. The central stair extends up to a landing below the roof hatch, with a wood ladder to that opening.

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Both storehouses have 10"-thick firewalls dividing the structures approximately in half. The firewalls are built of reinforced concrete up to the bottom chord of the trusses, and of CMU above that. Each firewall has two large sliding metal-clad fire doors on both levels. On each building's upper level there is also a smaller metal-clad fire door near the east-side stair. Some original interior wood doors, single-panel or five-panel, remain, usually with their original hardware. The door to the eastern men's room on the second floor has three panels between upper and lower louvered sections. In the fence-like partitions, the doors are typically wood framing with wire mesh.

The office on the first floor of each building has an issue window which opens to the main storage space. In Facility No. 393 this opening has two pairs of nine-light sliding windows.

Most of the plumbing fixtures and some of the light fixtures in the storehouses appear to be original. Fire protection piping is installed in the storehouses. The second-floor south-end bays of both buildings were originally designed for air-conditioned storage. Air conditioning units have also been installed in a few windows of the office space at the north end of Facility 394, and in the first-floor office windows of both buildings.

Historical Context: See the report on warehouses (HABS No. HI-388) for an overview history of storehouses at Pearl Harbor. See also the report on the Defense Battalion Storehouses, Facility Nos. 226, 283, 284, and 292 (HABS No. HI-406), which are sited across Port Royal Street from these larger storehouses.

A review of Pearl Harbor maps of various dates reveals the history of the buildings' setting (Fourteenth Naval District 1929-1945). In the first decades of the twentieth century the roadway that is now on the east side of these two-story warehouses was named Second Street. Its name was changed to Seventh Street before the buildings were erected, about 1942, when streets in the Shipyard area were renumbered. About 1998 all the lettered and numbered streets in Pearl Harbor were renamed to make mail delivery easier (*Center Relay* 1998). Seventh Street became Port Royal Street. This street was always the boundary of the Marine Reservation area. By 1923 fuel tanks filled the area to the west of Second Street, south of Central Avenue, and east of the coaling plant. There were 27 large tanks in this Lower Tank Farm until 1943 when some of the oldest ones near the coaling station began to be removed. The four easternmost fuel tanks were removed in 1944 to build Facility Nos. 393 and 394. In 1945 there were 19 large fuel tanks in the Lower Tank Farm and the number of them has dwindled over the decades, until only two remain.

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Facility Nos. 393 and 394 were part of the expansion of storage facilities at Pearl Harbor during World War II. They were completed in 1945. Among the last storehouses built during WWII, they represent the unabated growth in demand for storage space to support the war efforts within the Hawaiian island bases and on forward lines of battle. They are the only warehouses built at Pearl Harbor with ramps allowing vehicles to drive up to and through the second level. The design may have been prepared by structural engineers at the Fourteenth Naval District Public Works Department, since the first 30 drawings are labeled structural sheets and none called architectural sheets. All the drawings are stamped with the certification about war-time design and materials requirements. This issue of restricted uses of certain materials is discussed in the report about some 1943 storehouses on Kuahua Peninsula (HABS No. HI-430). A Shipyard property record card for Facility No. 393 indicates these storehouses were built by Yard Labor; by the last years of WWII most construction at Pearl Harbor and other bases had shifted from contractors to military labor.

The functions of the buildings are reflected by the names on the original drawings. Facility No. 393 was a Pipe & Hardware Storehouse and Facility No. 394 was an Ordnance Storehouse. Ordnance was obviously an important commodity during the war and this section of the Shipyard Supply Department was constantly in need of space. A history of the Yard Supply during WWII mentions some of the juggling and moves that were made to accommodate the demands for Ordnance storage:

Bldg. YA Extension was used by Ordnance for about 6 months during 1944. Material in this building was then transferred to Bldg. 68, which was used as an ordnance storehouse until May 1945. . . . All of the storage area of the 5th deck [of Bldg. 167] and about one-fourth of the main office of the Supply Department was occupied by Ordnance until 15 May 1945, when all ordnance material and the office were moved to the newly constructed Bldg. 394. . . . Bldgs. 444 and 427 [on Kuahua Peninsula] were released to NSD [Naval Supply Depot] on 1 May 1945. . . . The contents of these buildings were moved to Bldg. 394 (U.S. Navy [1945: 67]).

During the last months of WWII a few additional drawings were made for small changes in the storehouses, perhaps while they were still under construction. Most of these were changes for the Ordnance Storehouse, Facility No. 394. A small carpenter shop was erected in two first-floor bays near its southwest corner. Sinks and toilets were added to the first- and second-floor men's rooms, and the first floor also had a shower installed. A large air-conditioned storage room, with adjacent machinery room, was created in the second-floor south end. In the north end of the second floor a large office was added, as well as a men's toilet room with

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shower, men's bunk room, women's toilet room and rest room. Because of their room layout, the group of four double-hung sash was changed in the men's toilet room to a set of three windows, and the extra window was installed in the bunk room, at a lower level than the rest of the windows on the west wall. A 1945 electrical drawing indicates that a technical library was built adjacent to the office, on the east side of Facility No. 394. A different electrical drawing shows that a mezzanine was built over a section of the southern part of Facility No. 393's first-floor, but no other drawings were found of this.

After World War II, the same functions for these two storehouses are seen on building map lists until at least 1951 (Fourteenth Naval District 1951). In the 1960s Navy building lists they are called "General Storehouses." In 1969 Facility No. 394 "underwent a modification to establish a Submarine Battery Overhaul Facility;" the battery shop occupied most of the first floor and other spaces in the building in 1980 were used for electronics repair and storage, miscellaneous storage, and transformer bank (Nakahara 1980). A 1971 project form to reroof Facility No. 393 noted that building was "used for storage of materials and equipment for ship repair work" (Jones 1971).

The changes to the buildings have been minimal since WWII. A 1948 drawing shows some changes to the technical library's finishes and the addition of metal mesh partitions and gates around the large storage spaces on either side of the vehicle path through the second floor. In 1954 the large door openings in the firewalls of both buildings were reduced to 10'-0" x 12'-0" (from 12'-4" x 16'-0") and the fire doors correspondingly made smaller. A few changes were made to Facility No. 394 when the battery shop was established there in 1969. This included installation of emergency doors in several of the large sliding doors, and the door to the stairwell in the northwest corner was added. A larger transformer vault was also built at that time. There are 1971 and 1983 drawings for the reroofing of Facility No. 394. Portions of Facility No. 393's roof were repaired in 1978. Basic exterior repairs and painting of Facility No. 394 was undertaken in 1981, including repairing cracks in the concrete ramps, replacement of wood posts and rails, and repairs of some windows, doors, screened vents, and siding. Currently the structures remain in use and the interior and exterior appearances remain much like the original designs.

Sources:

Drawings for these buildings are on microfiche cards at the Plan Files of the Naval Facilities Engineering Command, Pacific under numbers N-N6-172 through N-N6-228, I-N6-493 through I-N6-495, 1062 through 1066, 652093, 1221571 through 1221583, 7000734, 7022570 through 7022573, 7031277 through 7031282, and 7047230 through 7047233.

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Center Relay

1998 "Pearl Harbor Renames Streets," June 26, 1998 edition of Fleet and Industrial Supply Center newsletter.

Fourteenth Naval District

1929 "Map of the Yard and Adjacent Units Showing Developments to June 30, 1929" with notation "Plan Showing Outline and Location of Improvements Recommended in Annual Estimates for 1932, Submitted 1930." Drawing no. A-152. From National Archives, courtesy Earth Tech.

1932 Pearl Harbor, T.H., Showing Developments to June 30, 1932. Drawing no. 1-N1-110. From National Archives, courtesy Earth Tech.

1941 Navy Yard, Pearl Harbor, T.H., [Map] Showing Conditions on June 30, 1941. Drawing no. I-N1-144. Filed under RG 71 #1400-3-106 at National Archives II, College Park, Maryland.

1942 Navy Yard, Pearl Harbor, T.H., [Map] Showing Conditions on June 30, 1942. Drawing no. I-N1-148. In RG 71, frame 8 on microfilm roll 1042, at National Archives II, College Park, Maryland.

1943 Navy Yard, Pearl Harbor, T.H., [Map] Showing Conditions on June 30, 1943. Drawing no. I-N1-167. Filed under RG 71, #1400-3-124, at National Archives II, College Park, Maryland.

1944 Navy Yard, Pearl Harbor, T.H., [Map] Showing Conditions on March 1, 1944 - revised Aug. 1, 1944. Drawing no. I-N1-167A. In RG 71, at National Archives and Records Administration, San Bruno California.

1945 U.S. Naval Base, Pearl Harbor, T.H., [Map] Showing Conditions as of 30 June 1945 - revised Nov. 30, 1945. Drawing no. I-N1-224. Filed under RG 71, #1400-3-140, at National Archives II, College Park, Maryland.

1951 Pearl Harbor, Oahu, T.H., Showing Conditions on 30 June 1951. Map is Drawing no. I-N1-321 and Structure List is Drawing no. I-N1-322. On file with Jeffrey Dodge of Naval Facilities Engineering Command, Hawaii.

Jones, Colin (LCDR)

1971 Special Project Request form -- Reroof Bldg. No. 393, prepared by Production Engineering Officer. In Shipyard facilities files.

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Nakahara, Kenneth

1980 Historic Resources Inventory form for Building 394, prepared by Shipyard Facilities Planning and Programming staffer. In binder at State Historic Preservation Division.

U.S. Navy

[1945] History, World War II, Supply Department, Navy Yard, Pearl Harbor. Unpaginated typescript In Robert F. Walden Collection at Hawaii & Pacific Room, Hamilton Library, University of Hawaii at Manoa.

Project Information: Commander Navy Region (COMNAVREG) Hawaii has embarked on a program of documentation of historic properties within its area of responsibility, with the goal of recording historic information about each property type and establishing its context of significance. This information will assist COMNAVREG Hawaii in the appropriate management of these properties, be it routine repair and maintenance for continuing use, rehabilitation for continuing use / adaptive reuse, or demolition. At this time, specific actions that may affect these facilities have not been determined. This report was prepared under a Historic Preservation Services contract (N62742-97-D-3502) awarded to AMEC Earth and Environmental, the prime contractor, by the U.S. Navy, Naval Facilities Engineering Command. The contract was funded through the Cultural Resources Program of COMNAVREG Hawaii. The photographic documentation was undertaken by David Franzen, of Franzen Photography. Location maps were made by Nestor Beltran of NAB Graphics. Between 1999 and 2001, the field work was done and the draft of this report was written by Dot Dye, AMEC Earth & Environmental, Inc. The report was rewritten in 2006 by Mason Architects, Inc.

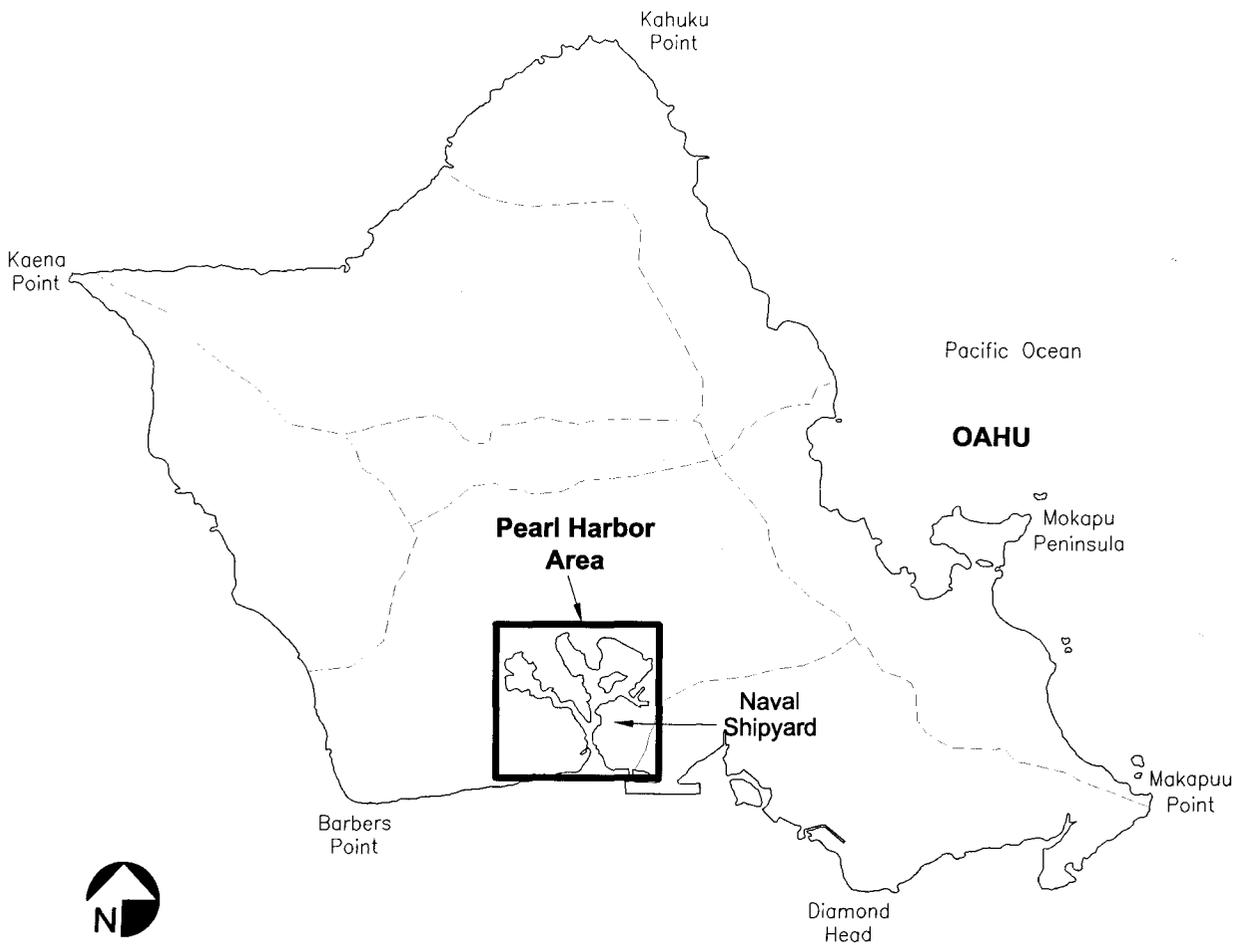
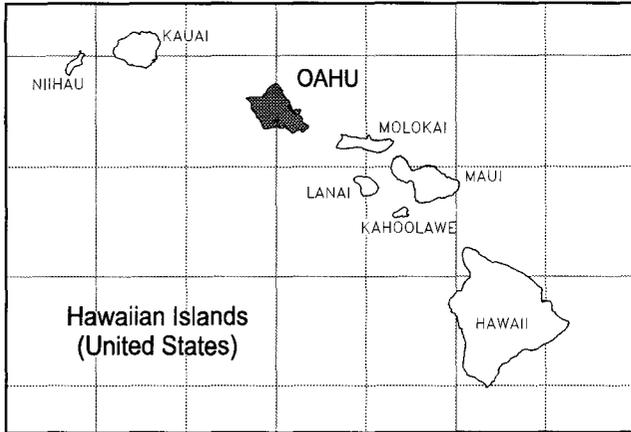
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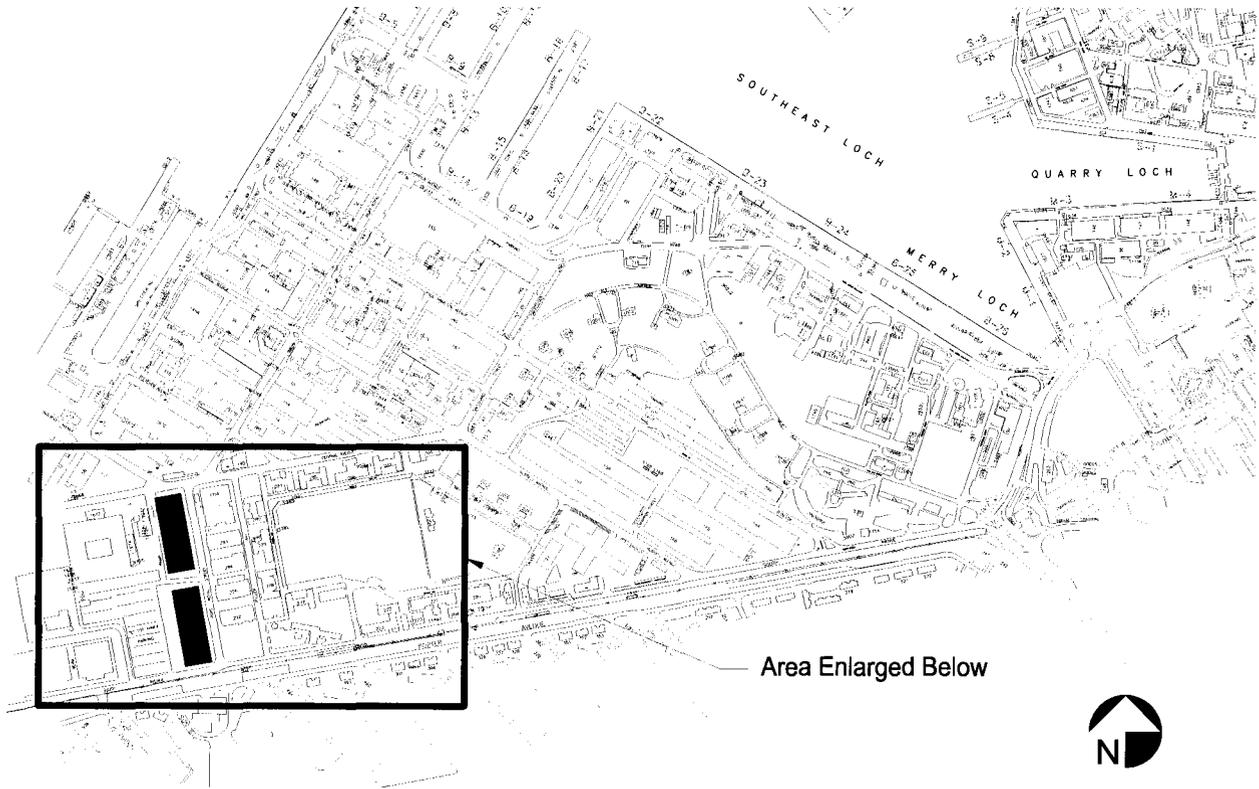
Date of Final Report: June 2006

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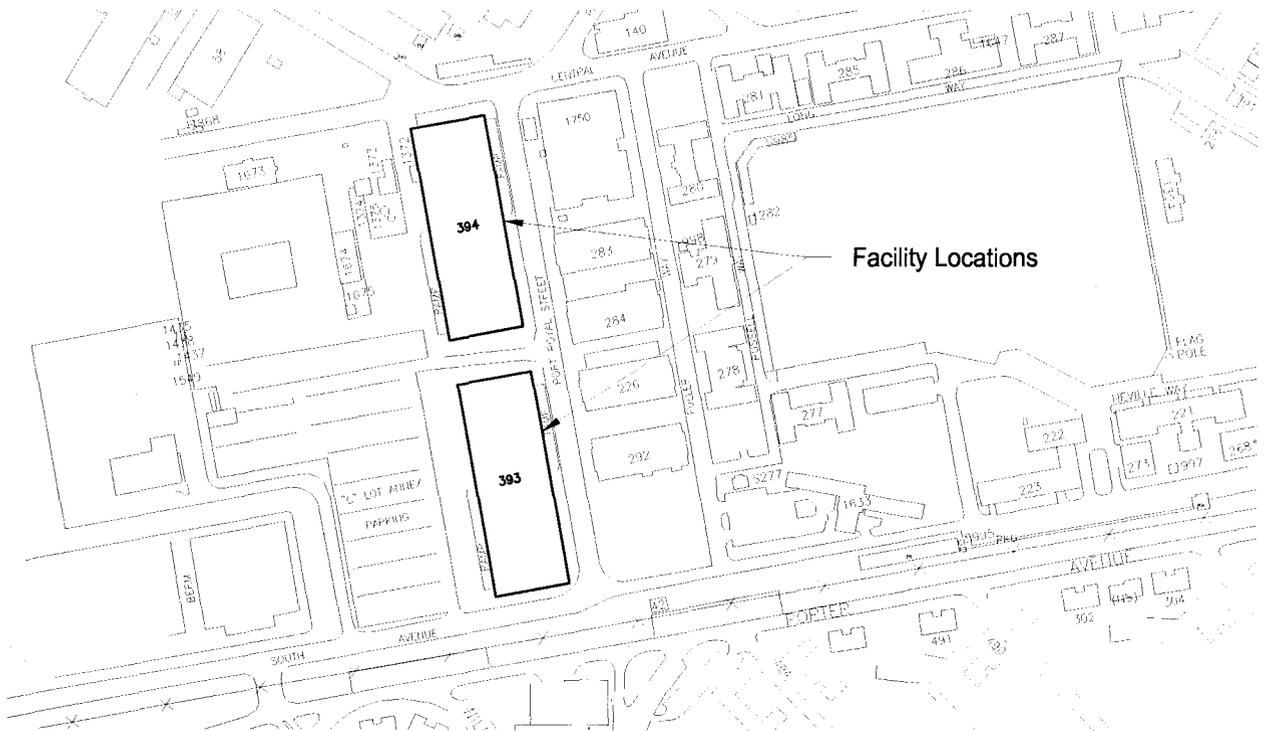
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Vicinity Map

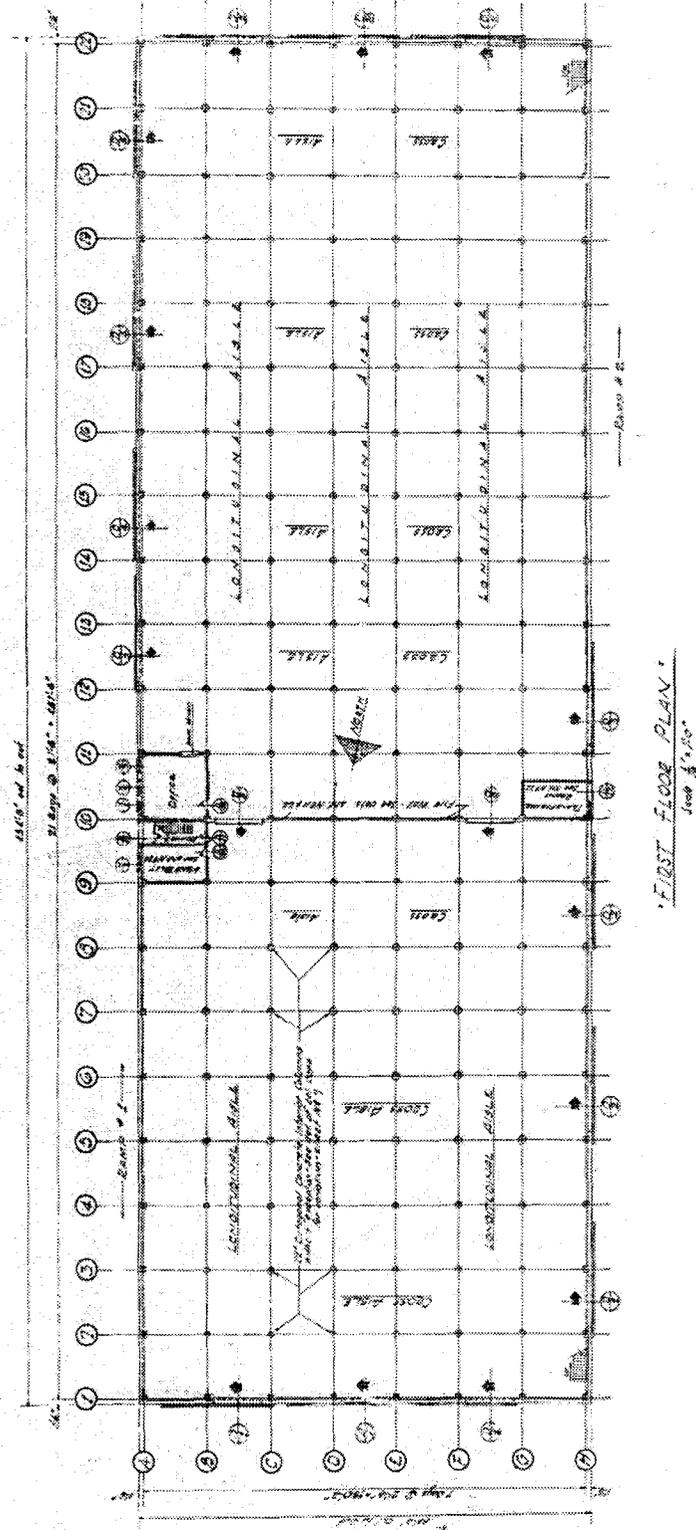
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Site Map

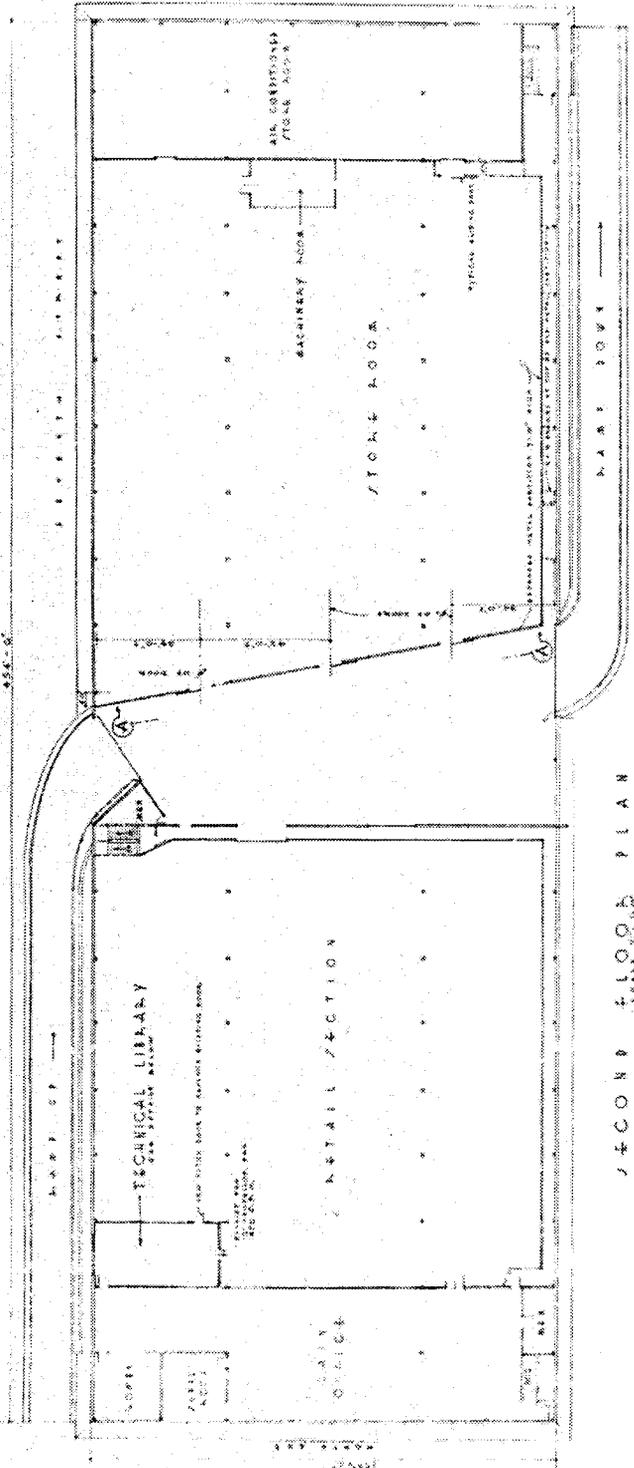
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Portion of Drawing No. N-N6-173, dated August 15, 1944 (First-floor plan)



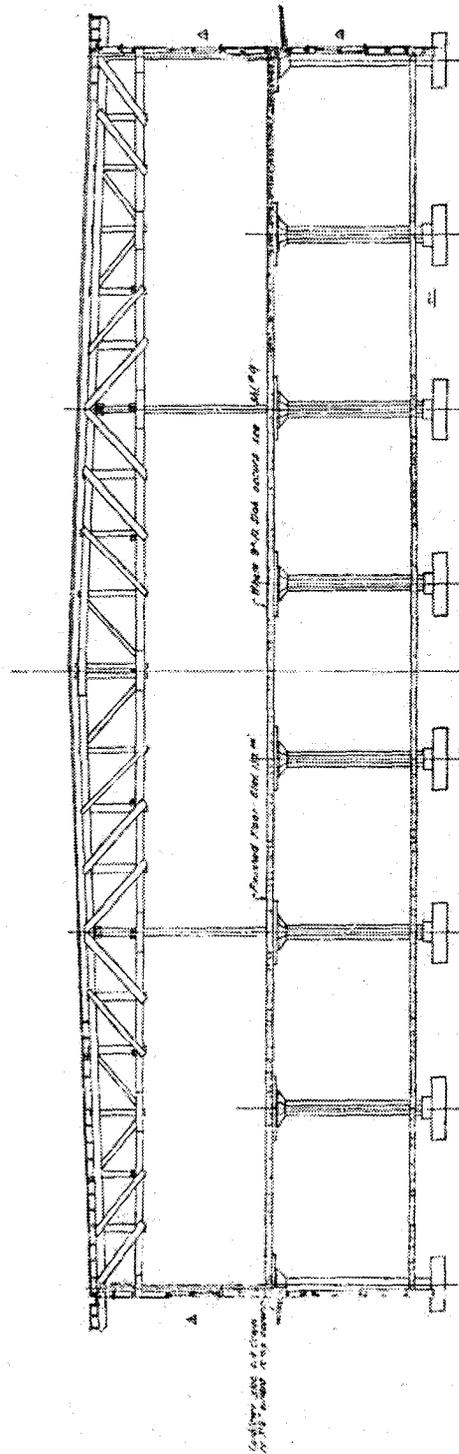
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Portion of Drawing No. N-N6-228, dated October 1948 (Second-floor plan, Facility No. 394)



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Portion of Drawing No. N-N6-173, dated August 15, 1944 (Section)



TYPICAL CROSS SECTION
see page 14

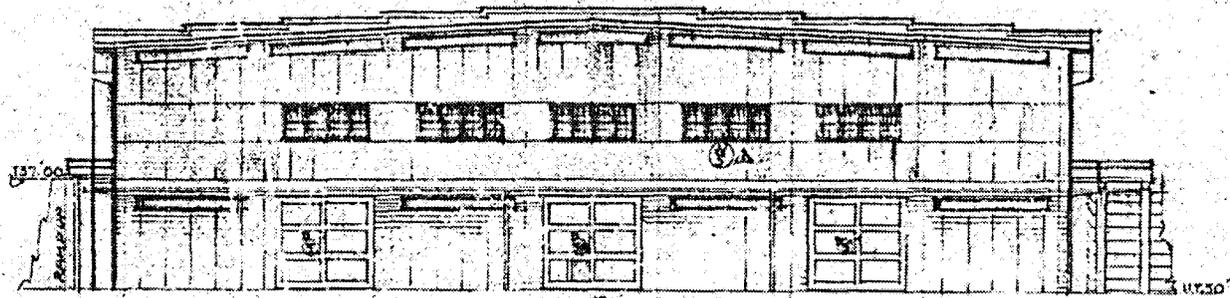
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Portion of Drawing No. N-N6-172, dated September 1, 1944 (south and north elevations)



A B C D E F G H

NORTH ELEVATION

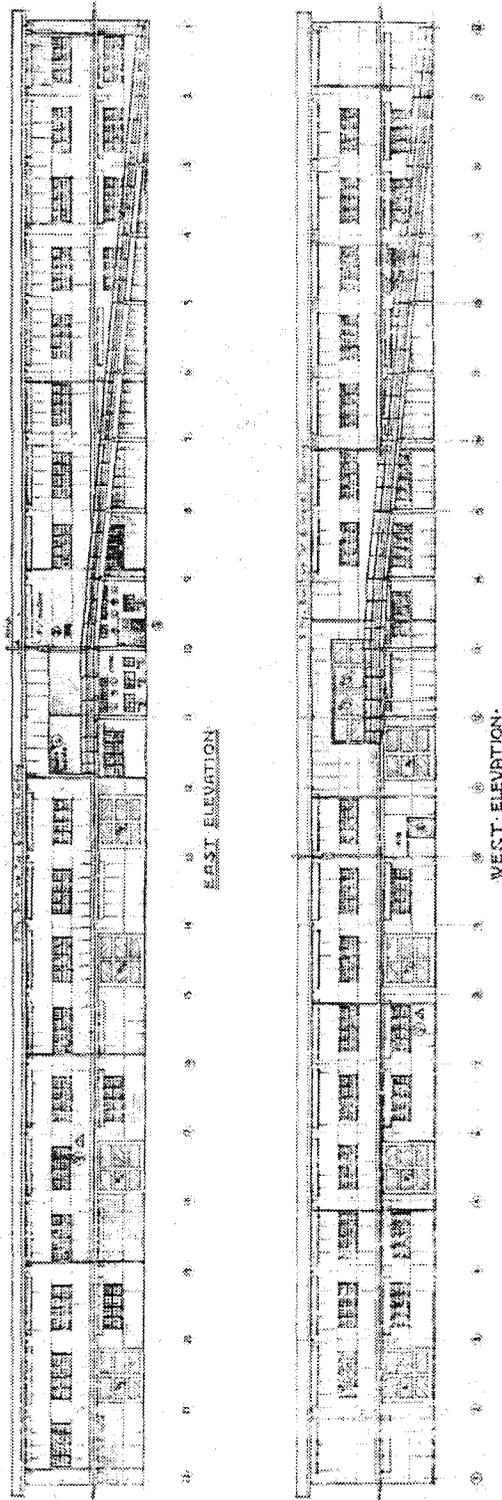


H G F E D C B A

SOUTH ELEVATION

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Portion of Drawing No. N-N6-172, dated September 1, 1944 (east and west elevations)



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(U.S. Naval Base, Pearl Harbor, Pipe & Hardware Storehouse and Ordnance Storehouse)
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Photo of Facility Nos. 393 and 394, dated October 1945

(Kidder-Smith Collection, No. 188-11, Naval Facilities Engineering Command Archives, Port Hueneme, CA)

