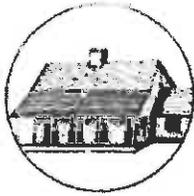


Original
 Update



HISTORICAL STRUCTURE FORM

FLORIDA MASTER SITE FILE

Version 4.0 1/07

Site #8 **BR02905**
Field Date 2-15-2012
Form Date 2-22-2012
Recorder # _____

Shaded Fields represent the minimum acceptable level of documentation.
Consult the *Guide to Historical Structure Forms* for detailed instructions.

Site Name(s) (address if none) Bioastronautics Operational Support Unit Multiple Listing (DHR only) _____
Survey Project Name Hist Surv/Eval of Facility 49635, CCAFS, Brevard Survey # (DHR only) _____
National Register Category (please check one) building structure district site object
Ownership: private-profit private-nonprofit private-individual private-nonspecific city county state federal Native American foreign unknown

LOCATION & MAPPING

Street Number Bldg# 49635 Direction _____ Street Name CCAFS Industrial Area Street Type _____ Suffix Direction _____
Cross Streets (nearest / between) East of NASA Parkway/Hangar Road intersection
USGS 7.5 Map Name CAPE CANAVERAL USGS Date 1976 Plat or Other Map _____
City / Town (within 3 miles) Cape Canaveral In City Limits? yes no unknown County Brevard
Township 22S Range 37E Section 07 1/4 section: NW SW SE NE Irregular-name: _____
Tax Parcel # N/A Landgrant _____
Subdivision Name _____ Block _____ Lot _____
UTM Coordinates: Zone 16 17 Easting 541150 Northing 3151975
Other Coordinates: X: _____ Y: _____ Coordinate System & Datum _____
Name of Public Tract (e.g., park) _____

HISTORY

Construction Year 1965 approximately year listed or earlier year listed or later
Original Use Hospital From (year): 1965 To (year): 1972
Current Use Scientific laboratory From (year): 1972 To (year): pres.
Other Use Health center From (year): 1972 To (year): 2003
Moves yes no unknown Date: _____ Original address _____
Alterations yes no unknown Date: _____ Nature see attached
Additions: yes no unknown Date: _____ Nature see attached
Architect (last name first): Steward-Skinner Assoc, Miami Builder (last name first): _____
Ownership History (especially original owner, dates, profession, etc.) National Aeronautics and Space Administration (1972-present); US Air Force (1965-1972)
Is the Resource Affected by a Local Preservation Ordinance? yes no unknown Describe _____

DESCRIPTION

Style Masonry Vernacular Exterior Plan Rectangular Number of Stories 1
Exterior Fabric(s) 1. Concrete block 2. _____ 3. _____
Roof Type(s) 1. Gable 2. _____ 3. _____
Roof Material(s) 1. Built-up 2. _____ 3. _____
Roof secondary strucs. (dormers etc.) 1. _____ 2. _____
Windows (types, materials, etc.) 2/2 DHS, aluminum, independent and paired;

Distinguishing Architectural Features (exterior or interior ornaments) exposed aggregate face block surrounding main entrance; projecting concrete window sills

Ancillary Features / Outbuildings (record outbuildings, major landscape features; use continuation sheet if needed.) tree-lined driveway along west (main) elevation (trees added ca. 1997); rear parking lot; three helipads to east

DHR USE ONLY

OFFICIAL EVALUATION

DHR USE ONLY

NR List Date _____ SHPO - Appears to meet criteria for NR listing: yes no insufficient info Date _____ Init. _____
 Owner Objection _____ KEEPER - Determined eligible: yes no Date _____
NR Criteria for Evaluation: a b c d (see *National Register Bulletin 15*, p. 2)

HISTORICAL STRUCTURE FORM

Site # BR02905

DESCRIPTION (continued)

Chimney: No. _____ Chimney Material(s): 1. _____ 2. _____
 Structural System(s): 1. Concrete block 2. _____ 3. _____
 Foundation Type(s): 1. Slab 2. _____
 Foundation Material(s): 1. Poured Concrete Footing 2. _____
 Main Entrance (stylistic details) double 1-light metal swing door with glass sidelights and transom, west elevation

Porch Descriptions (types, locations, roof types, etc.) inset; west elevation at main entrance

Condition (overall resource condition): excellent good fair deteriorated ruinous

Narrative Description of Resource see attached

Archaeological Remains _____ Check if Archaeological Form Completed

RESEARCH METHODS (check all that apply)

- | | | | |
|--|--|--|--|
| <input checked="" type="checkbox"/> FMSF record search (sites/surveys) | <input checked="" type="checkbox"/> library research | <input type="checkbox"/> building permits | <input type="checkbox"/> Sanborn maps |
| <input type="checkbox"/> FL State Archives/photo collection | <input type="checkbox"/> city directory | <input checked="" type="checkbox"/> occupant/owner interview | <input type="checkbox"/> plat maps |
| <input type="checkbox"/> property appraiser / tax records | <input checked="" type="checkbox"/> newspaper files | <input type="checkbox"/> neighbor interview | <input type="checkbox"/> Public Lands Survey (DEP) |
| <input checked="" type="checkbox"/> cultural resource survey (CRAS) | <input checked="" type="checkbox"/> historic photos | <input checked="" type="checkbox"/> interior inspection | <input type="checkbox"/> HABS/HAER record search |
| <input type="checkbox"/> other methods (describe) _____ | | | |

Bibliographic References (give FMSF manuscript # if relevant, use continuation sheet if needed) see attached

OPINION OF RESOURCE SIGNIFICANCE

Appears to meet the criteria for National Register listing individually? yes no insufficient information

Appears to meet the criteria for National Register listing as part of a district? yes no insufficient information

Explanation of Evaluation (required, whether significant or not; use separate sheet if needed) see attached

Area(s) of Historical Significance (see *National Register Bulletin 15*, p. 8 for categories: e.g. "architecture", "ethnic heritage", "community planning & development", etc.)

- | | | |
|-----------------|----------|----------|
| 1. <u>Other</u> | 3. _____ | 5. _____ |
| 2. _____ | 4. _____ | 6. _____ |

DOCUMENTATION

Accessible Documentation Not Filed with the Site File - including field notes, analysis notes, photos, plans and other important documents

- | | |
|---|--|
| 1) Document type <u>All materials at one location</u> | Maintaining organization <u>Archaeological Consultants Inc</u> |
| Document description _____ | File or accession #'s <u>P90268</u> |
| 2) Document type _____ | Maintaining organization _____ |
| Document description _____ | File or accession #'s _____ |

RECORDER INFORMATION

Recorder Name Slovinac, Trish Affiliation Archaeological Consultants Inc
 Recorder Contact Information 8110 Blaikie Court, St A, Sarasota, FL 34240/941-379-6206/ACIFloridaAcomcast.net
 (address / phone / fax / e-mail)

Required Attachments	<p>① USGS 7.5' MAP WITH STRUCTURE LOCATION PINPOINTED IN RED</p> <p>② LARGE SCALE STREET, PLAT OR PARCEL MAP (available from most property appraiser web sites)</p> <p>③ PHOTO OF MAIN FACADE, ARCHIVAL B&W PRINT OR DIGITAL IMAGE FILE</p> <p style="font-size: small;">If submitting an image file, it must be included on disk or CD <u>AND</u> in hard copy format (plain paper is acceptable). Digital image must be at least 1600 x 1200 pixels, 24-bit color, jpeg or tiff.</p>
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CONTINUATION SHEET**Physical Description**

The Bioastronautics Operational Support Unit (BOSU) is a one-story, Masonry Vernacular style building with approximate overall dimensions of 324 feet (ft) in length (north-south), 60 ft in width (east-west), and 13 ft in height (Photo 9). The entirety sits on a reinforced poured concrete slab foundation, supported by reinforced poured concrete piers and footers. The walls are comprised of concrete block, and topped with a slightly gabled roof that rests on steel joists. The main entrance is on the west elevation, just north of center, and is comprised of one set of double glass doors, with glass sidelights and transoms, inset 4 ft. The wall surface surrounding the door is faced with exposed aggregate facing block, as is 10 ft of the main wall on either side. Windows include individual and paired, two-over-two metal double hung sash.

Internally, the room arrangement is based on a double-loaded corridor plan, and is divisible into north and south areas. As originally constructed, the medical examination rooms and surgical rooms were located at the north end of the facility. Specific rooms were designated for major surgery; evaluation, treatment, and minor surgery; radiology; recovery and intensive care; audio, EKG, and eye examinations; and physician offices (Steward-Skinner Associates 1965). The south area of the facility originally had support areas for the BOSU team. Specific areas included a conference room/reference library, a medical communications center, a supply room, a bioinstrumentation lab, offices for medical personnel, and research laboratories. Also in the south end of the facility was a computer room for the meteorology group and offices for meteorological personnel (Steward-Skinner Associates 1965; Fields 2012). These areas generally had gypsum board or exposed concrete block walls, tile floors, and gypsum board ceilings.

Explanation of Evaluation

The BOSU is considered individually eligible for listing in the NRHP under Criterion A, in the area of Space Exploration. This facility demonstrates the role the USAF played in the U.S. Manned Space Program. Its period of significance is considered to be from 1964, when it was designed, through 1972, when the building was transferred to NASA for use as an occupational health clinic.

The BOSU was constructed by the U.S. Air Force (USAF) between 1964 and 1965 to house the Launch Site Recovery Command Post for the Launch Site Recovery Team, as well as a completely equipped surgical suite. The Launch Site Recovery Team was a group of military personnel, specially trained to rescue astronauts in the event of an emergency during the launch sequence. The team would carry the astronauts from the launch pad to Facility 49365, where doctors were capable of providing medical treatment to the astronauts within the surgical suite. Although no emergencies ever occurred during a manned spaceflight launch, Facility 49365 housed a vital service to the U.S. Manned Space Program. In addition, it served as the location where the Apollo 1 astronauts were first taken following the fire within their capsule during a simulation at Launch Complex 34.

The facility derives its primary significance from the surgical suite, located at the north end of the building. This area of the BOSU retains its original layout, and many of these spaces still have their original tile walls and floors. In addition, many of the rooms retain original furnishings, such as built-in stainless steel cabinetry, X-ray viewers and storage shelves, oxygen connections, and curtain lines. With regard to the south end of the facility, while most of the walls and ceilings remain intact, the floors have been changed to carpet or modern tile. In addition, some of the rooms in this part of the building, such as the conference room and computer room, have been altered from their original layout, and much of the original furniture has been replaced with modern furniture. Overall, the BOSU does retain a great deal of integrity of location, design, setting, materials, workmanship, feeling, and association.

CONTINUATION SHEET

Bibliography*Ebony*

1966 "Angel of Mercy to the Astronauts." June:48-54.

Hall, Carlton

2012 Personal communication with Patricia Slovinac, February 15.

NASA, Kennedy Space Center

1967 "AS 204 Release #3." January 27. On file, KSC Archives, Box 37A.1, Folder 14.

2012 Real property record, Building 49365. On file, Real Property Office.

Nickell, Rodney

2012 Personal communication with Patricia Slovinac, February 15.

Steward-Skinner Associates

1964 "Bioastronautics-Operational Support Unit." January. On file, KSC Archives Department.

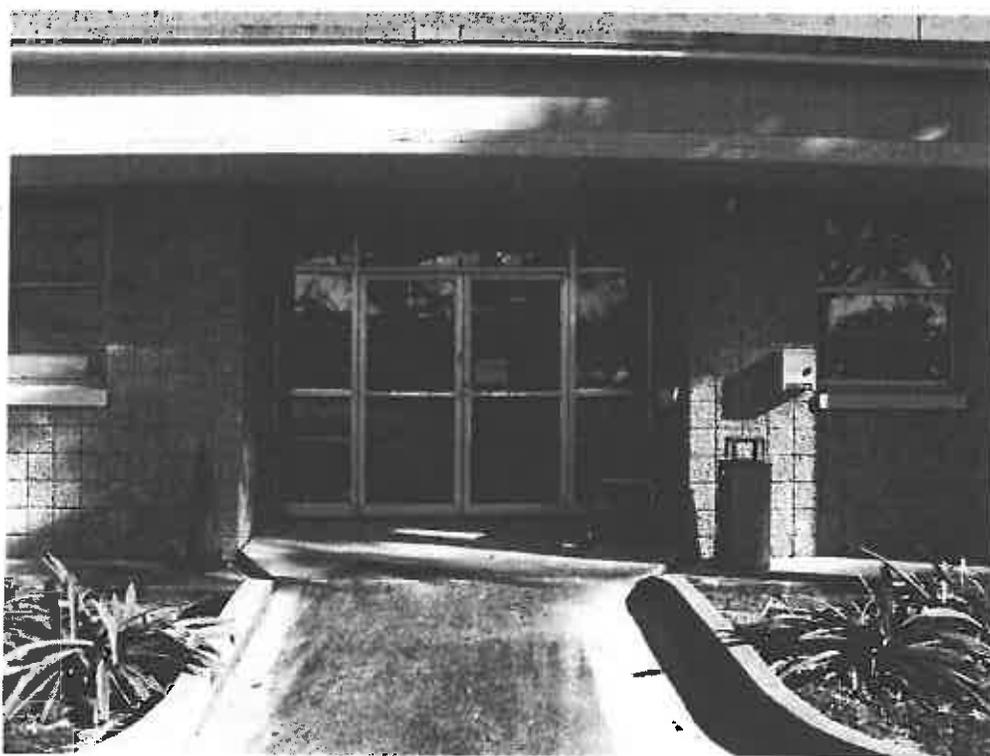
1965 "As Built Drawings: Bioastronautics-Operational Support Unit." July. On file, KSC Engineering Documentation Center.



PHOTOGRAPHS



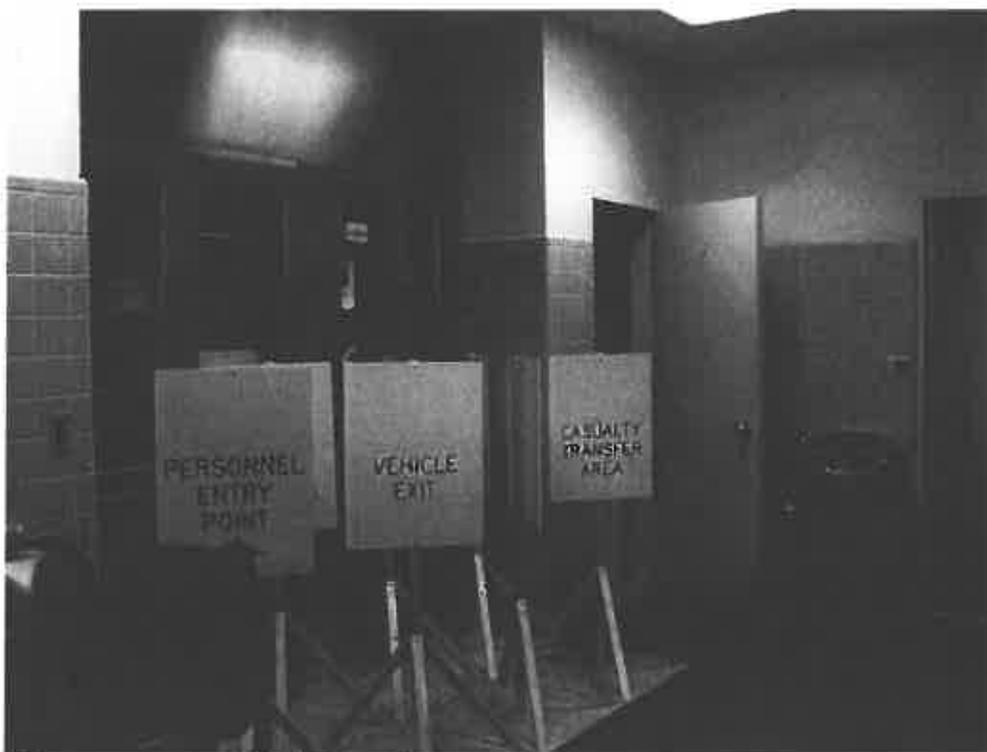
West elevation, facing east



Main entrance, facing northeast



PHOTOGRAPHS



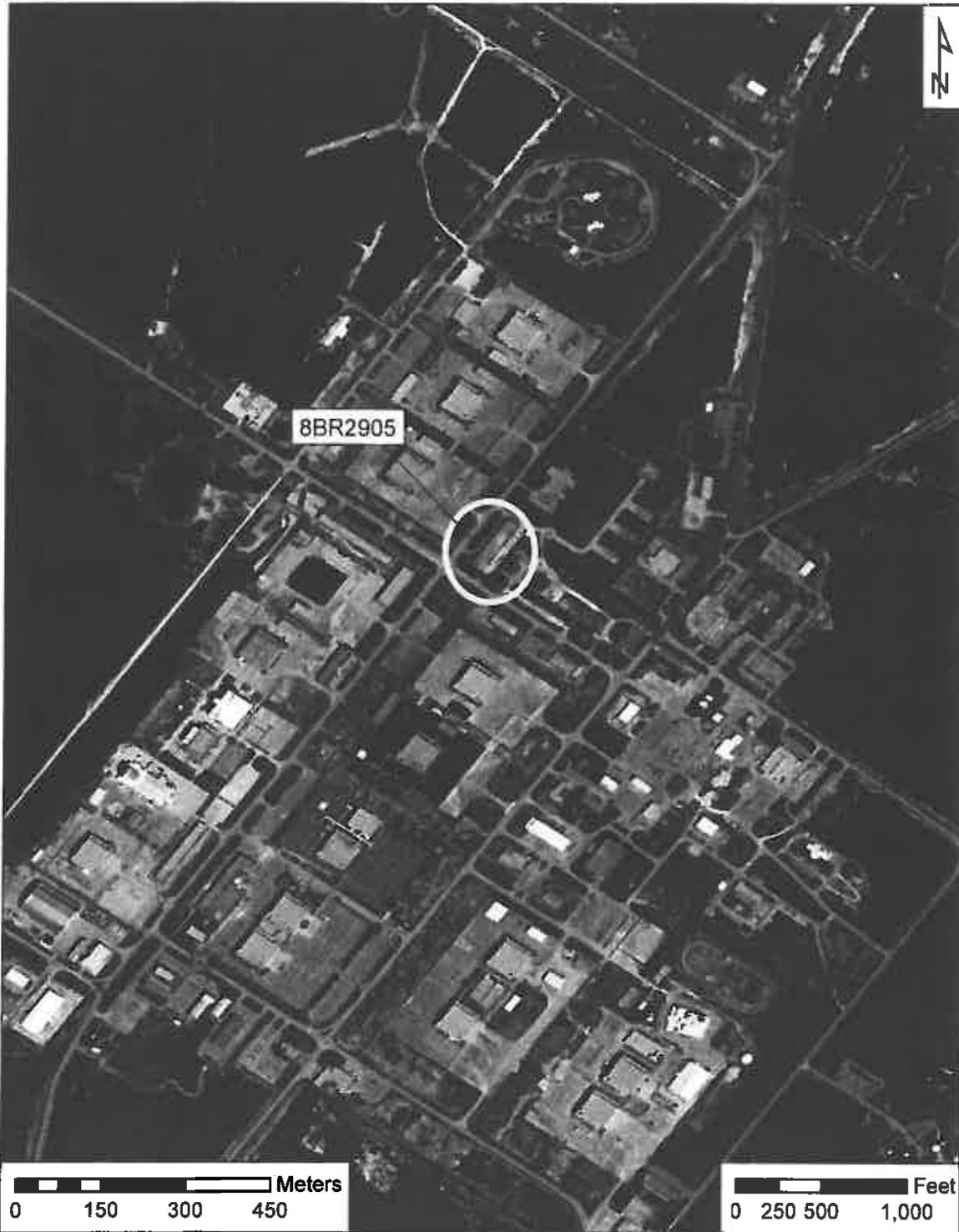
Minor surgery area, facing southwest



Hallway in surgical area, facing northwest



PHOTOGRAPHS



Microsoft 2010 - Bing Maps



Historic Structure Form

Site # **8BR2905**

USGS MAP

Cape Canaveral

Township 22 South, Range 37 East, Section 7

National Geographic Society (2011) *USA Topo Maps*.

