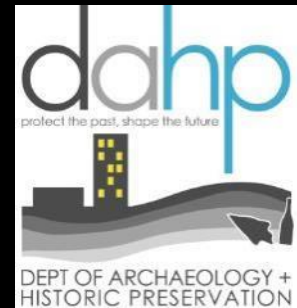




Washington State  
**GOVERNOR'S  
ADVISORY  
COUNCIL ON  
HISTORIC  
PRESERVATION**

173<sup>rd</sup> Meeting – Olympia

**Part 1**







# Kingston Scout Hall



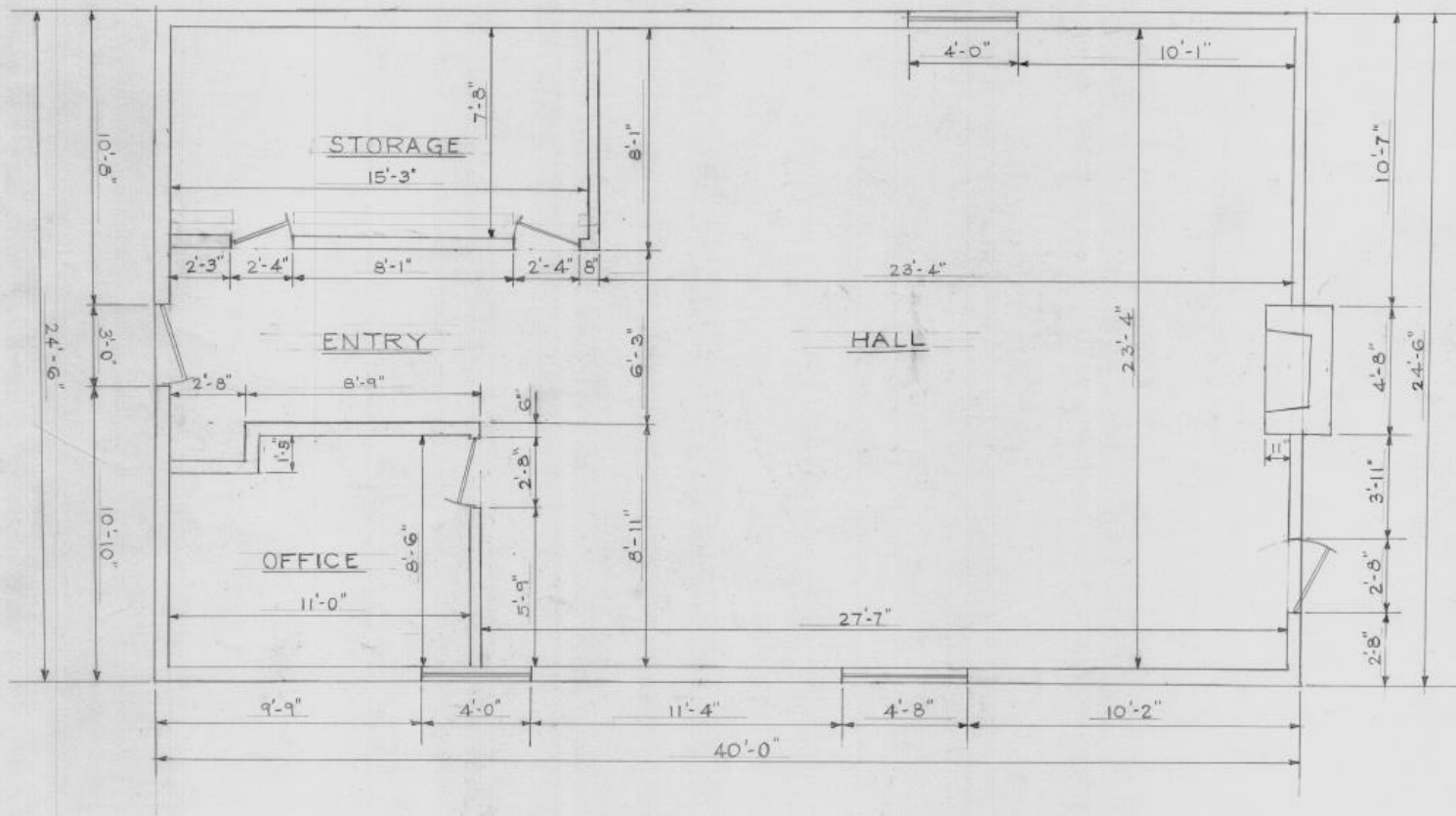
# Kola Kola Park



Kingston Scout Hall -  
1962



Kingston School  
House - 1909



**THE SCOUT LODGE**

KINGSTON, WA.

SCALE:  $\frac{3}{8}" = 1'-0"$





ROBERT P. SMILEY  
BOY SCOUT HALL  
TROOP 555

BOY SCOUTS



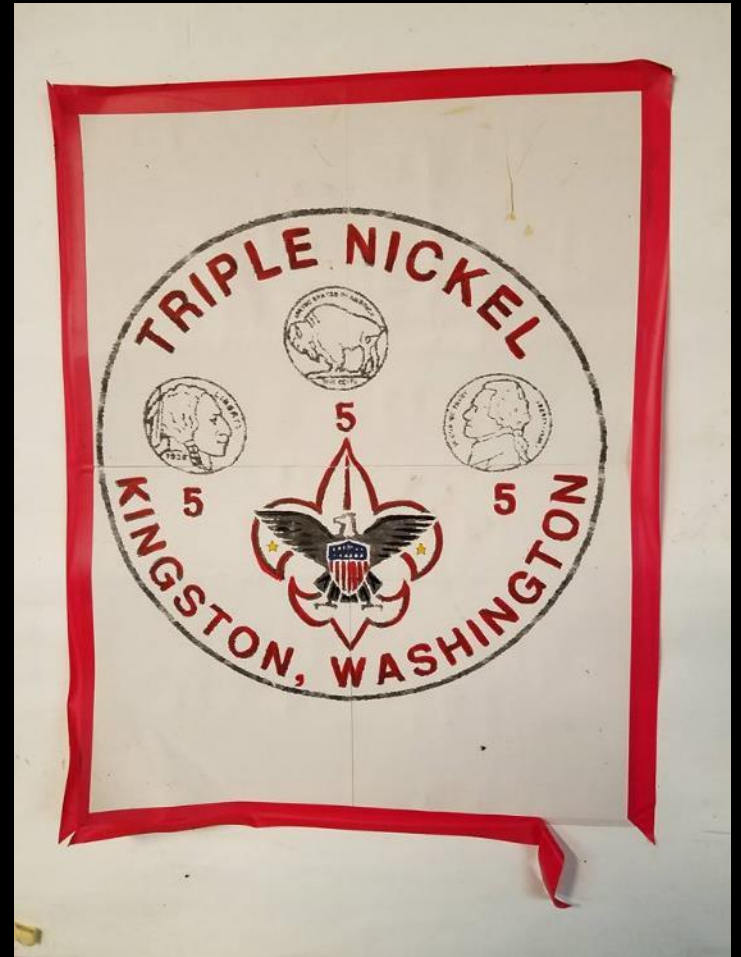


















# Novelty Cemetery







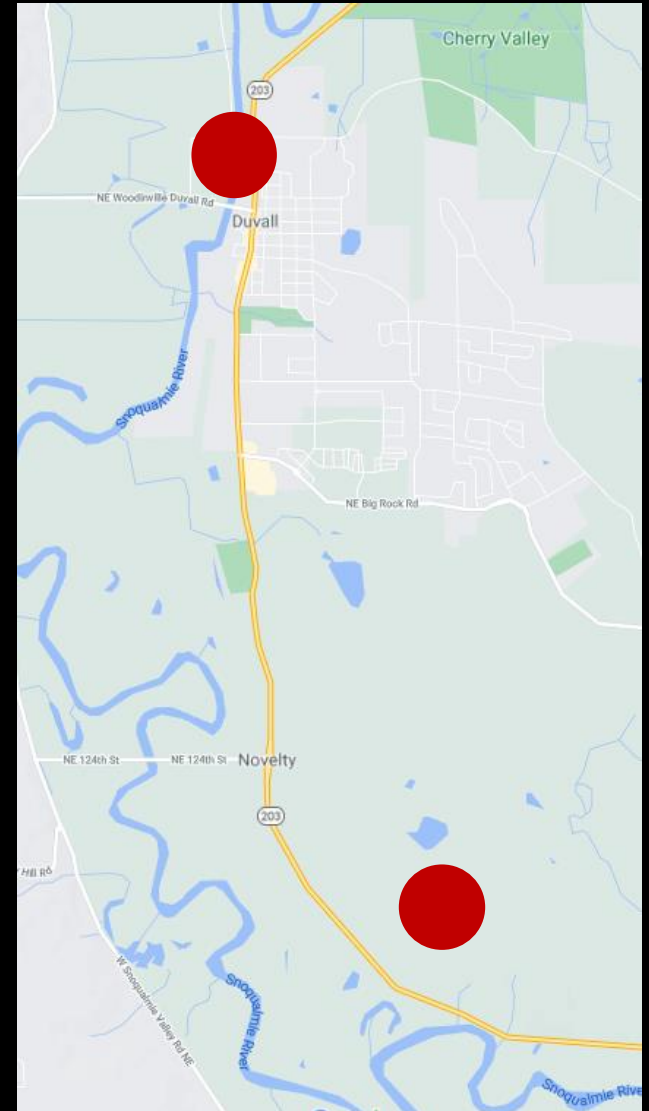
Charles Houghton et ux, et ux to Novelty  
Willard Cemetery Association, 5 acres in sw 1/4  
nw 1/4 sec 9. \$1.

Seattle Times –  
March 15, 1901













The funeral of Mrs. Abbie McMillan was held yesterday morning from the family residence on Twenty-fourth Avenue, near Madison Street. The remains were buried in the family lot in the **Novelty cemetery**. Rev. E. E. Morris officiated in this city and Dr. Stanley at Novelty. The deceased was the wife of Capt. T. F. McMillan and the daughter of the late Smith Benham, a King County pioneer.

Seattle Times  
– Nov 11, 1901

Seattle Times  
– Oct 5, 1918

**RASMUS QUAALE, PIONEER, DIES.**  
Rasmus Quaale, 61 years old, a pioneer of the Northwest, died Thursday at Vincent, Wash., where he had lived the last seventeen years. Interment was at **Novelty Cemetery**, Novelty, Wash., today. He is survived by his widow.



Seattle Times  
– March 3, 1938



**WESTMAN**—At the U. S. Marine Hospital, **Albert Westman** of Carnation, Wash., aged 42 years. Beloved son of Mrs. Anna; brother of Carl, Peter, August, Edward and Clarence Westman and Mrs. Sophie Busche, Carnation, Wash. Mrs. Hannah Olson, Gateway, O. Mrs. Marie Gardner, Vancouver, B. C.; Mrs. Ada Lindquist, Lilltuna, Calif., and Mrs. Lillian Pointer, Seattle. Member of Snoqualmie Post, American Legion, Snoqualmie, Wash. Body at **terworth's**.





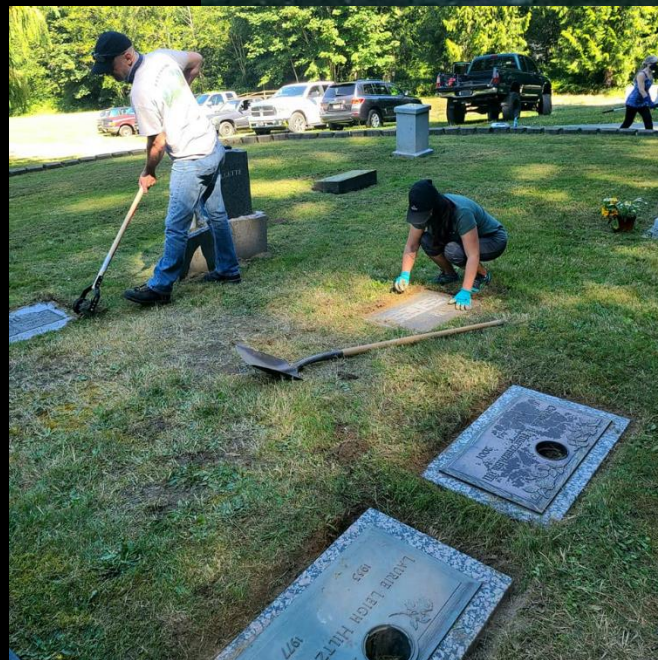




Duvall Historical Society















# Olga Store





THE OLGA STORE

OPEN SOON

Super  
76



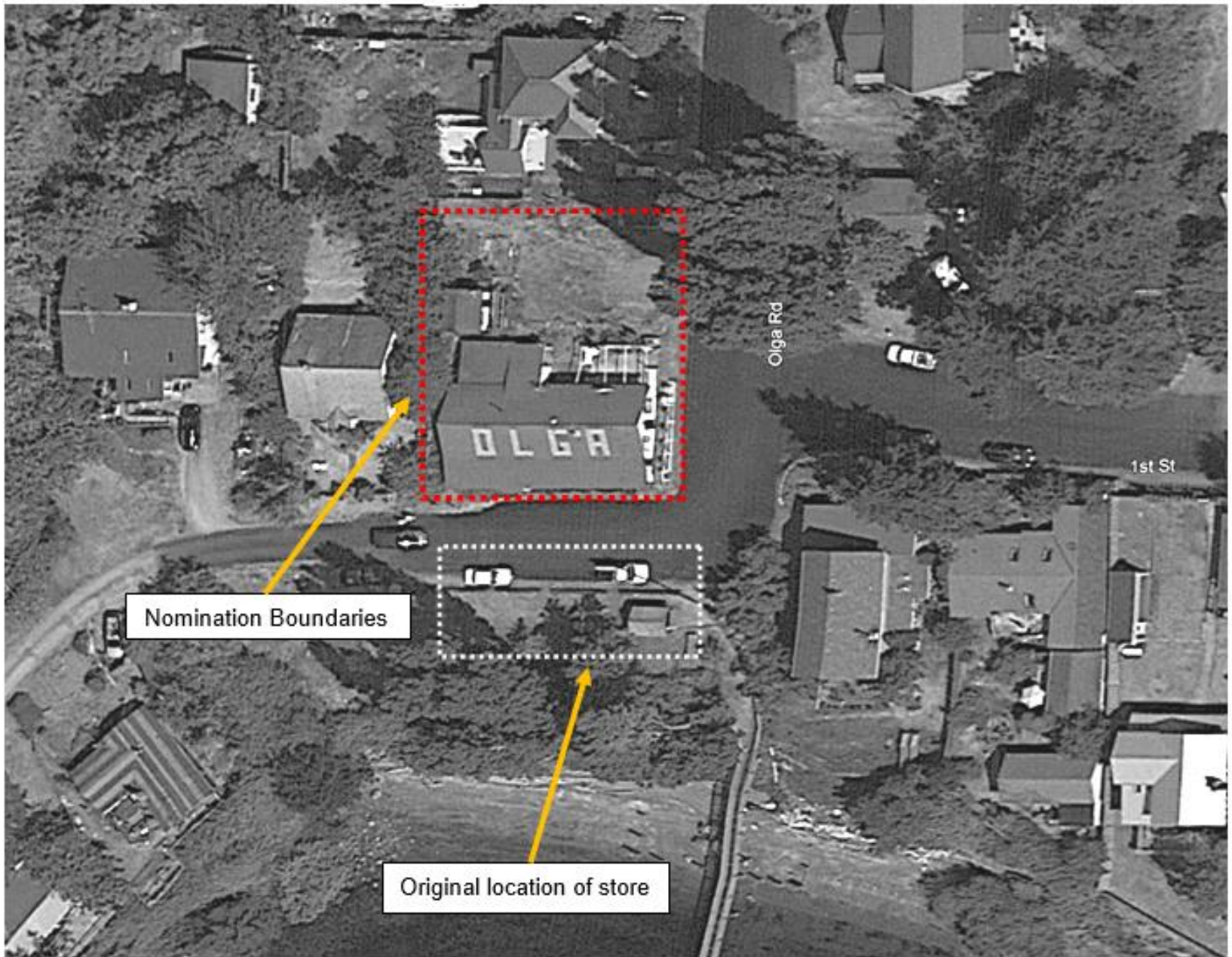


THE OLGA STORE

OLGA WASH

ELLIS  
9235





Nomination Boundaries

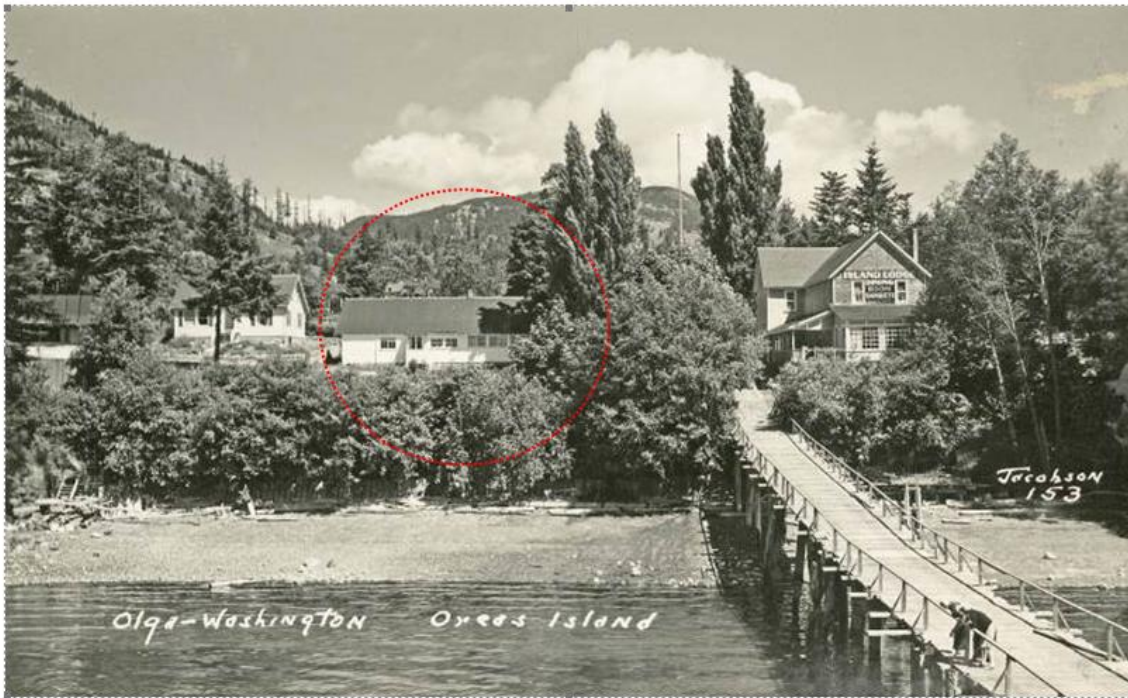
Original location of store

Olga Rd

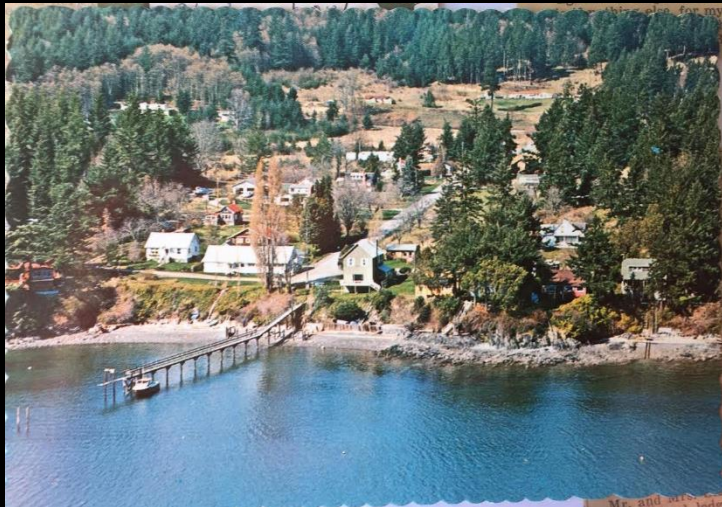
1st St

OLGA





View from end of dock in Buck Bay to Olga, WA. Olga Store center of image before it was moved inland.  
 Photographer Emil I. Jacobson, c.1933.  
 – Courtesy of Orcas Island Historical Museum.



San Juan Islander  
 – Feb 1, 1908

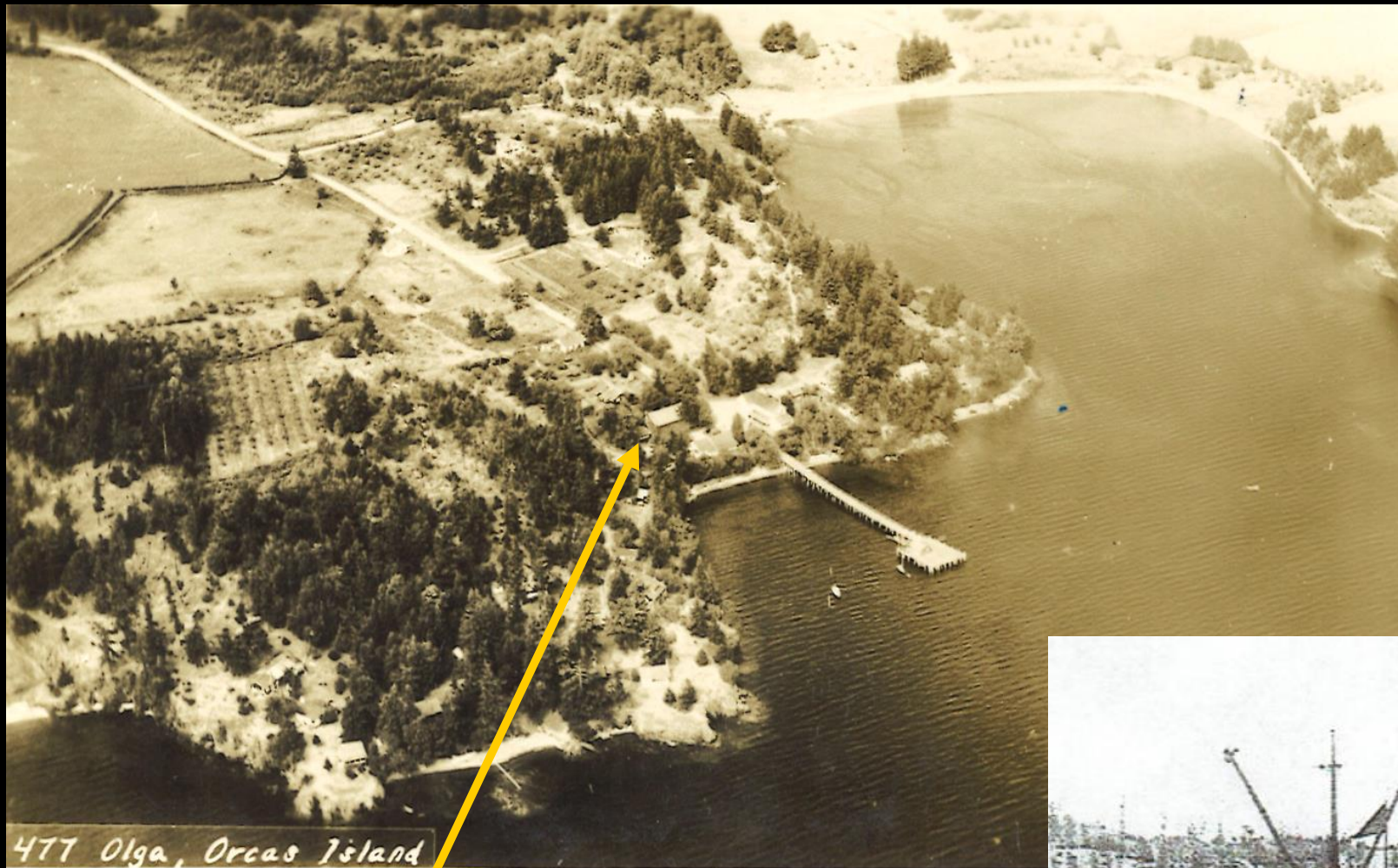












477 Olga, Orcas Island

“Osage” – Mail Boat  
Carried mail, freight and  
Passengers to the San Juan  
Islands in the 1930 & 40s.







THE OLGA STORE













THE OLGA STORE





# Newton & Ruby O'Rear House





1932





Port Townsend NHL Map

- Blue - Pivotal
- Yellow - Primary



After Rehabilitation



11/11/1999

Before Rehabilitation





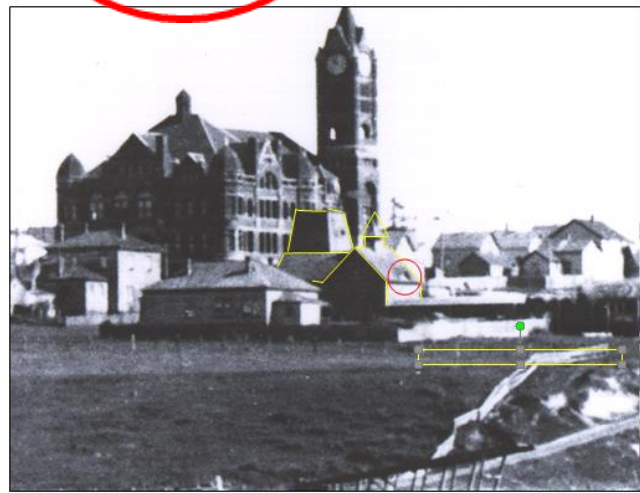
After Rehabilitation



Before Rehabilitation







Enlarged view of above shows the Carriage House and Windmill prior to the move to the current site.

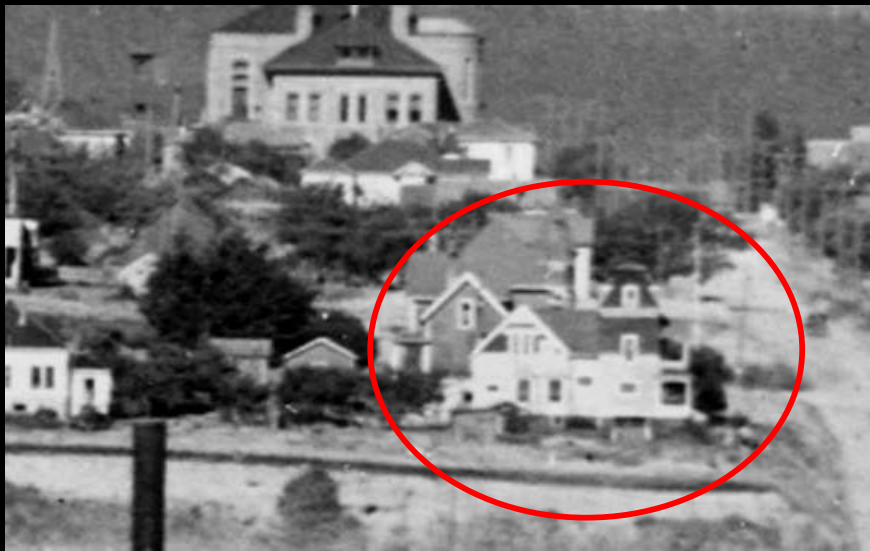
**Note:** The triangle window circled in red became significant in discovering that the structure had been turned 180 degrees when it was relocated on the block to face the water.

New location after move

Photos Courtesy  
Jefferson County Historical Society







After Rehabilitation



After Rehabilitation



Before Rehabilitation



Before Rehabilitation





















# Lunar Roving Vehicles I, II & III





Apollo 15 Rover





—BOEING NEWS PHOTOS BY VEEN BUTLEDGE  
The space environment simulation laboratory at Kent is nearing completion. The building was first occupied by permanent tenants Monday. First test activity is due in late summer. The lab building houses the 39-ft. by 50-ft. space simulation chamber and other space experiment equipment. At right is Judy Williams, first woman into space lab.



## First Unit Moves Into Kent Center; Tests By Autumn

Judy Williams has had no lack of help this week. When she came to the space environment simulation laboratory at Kent is nearing completion. The building was first occupied by permanent tenants Monday. First test activity is due in late summer. The lab building houses the 39-ft. by 50-ft. space simulation chamber and other space experiment equipment. At right is Judy Williams, first woman into space lab.

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Contractor crews and Boeing facilities personnel are rushing the building toward completion in anticipation of tests in early fall. Other personnel will move to the facility as construction progresses.

A half dozen members of Van



### Boeing Space Center at Kent Keeps Growing

This aerial photo shows the continuing growth of the new Boeing Space Center at Kent, Ohio. The center is a major aerospace development facility. Callouts (1) through (10) identify: (1) the main building, (2) the space simulation chamber, (3) the space environment simulation chamber, (4) the space environment simulation chamber, (5) the space environment simulation chamber, (6) the space environment simulation chamber, (7) the space environment simulation chamber, (8) the space environment simulation chamber, (9) the space environment simulation chamber, and (10) the space environment simulation chamber.

## 4,000 at Dedication Of Boeing Space Center

By ROBERT L. TWISS  
Aviation Editor, The Times

The \$20 million Boeing Space Center at Kent officially joined the ranks of the nation's expanding space facilities today.

The research and development center, which may lead to programs aimed at exploration of the planets, was dedicated before a crowd of about 4,000 visitors.

James E. Webb, who replaced Vice President Humphrey as the ceremony speaker, said the ceremony "spotlights an important forward step in America's industrial leadership in the field of science and technology."

Humphrey canceled his plans to attend the dedication as a result of President Johnson's surgery.

WEBB, chief of the National Aeronautics and Space Administration said it is clear from the outstanding new research facility which has been built here that the Boeing team has thought about the future and is prepared to do something about it.

"This Boeing facility has impressive capabilities for testing in a manmade environment that reproduces many of the conditions found in space."

Webb noted that the perseverance of Soviet efforts "to keep out in front in space exploration is clear evidence that the importance of space is one subject on which the Russians also agree."

WEBB SAID Boeing's world-wide jet transport sales "have contributed greatly to the position of the United States in the field of aeronautics."

Webb pledged that NASA will "work closely with the aircraft industry to maintain our position in world markets."

Lysle A. Wood, Boeing vice president and general manager of the firm's aerospace group, said the company has committed more than \$20 million to the space center and that this is "only the beginning."

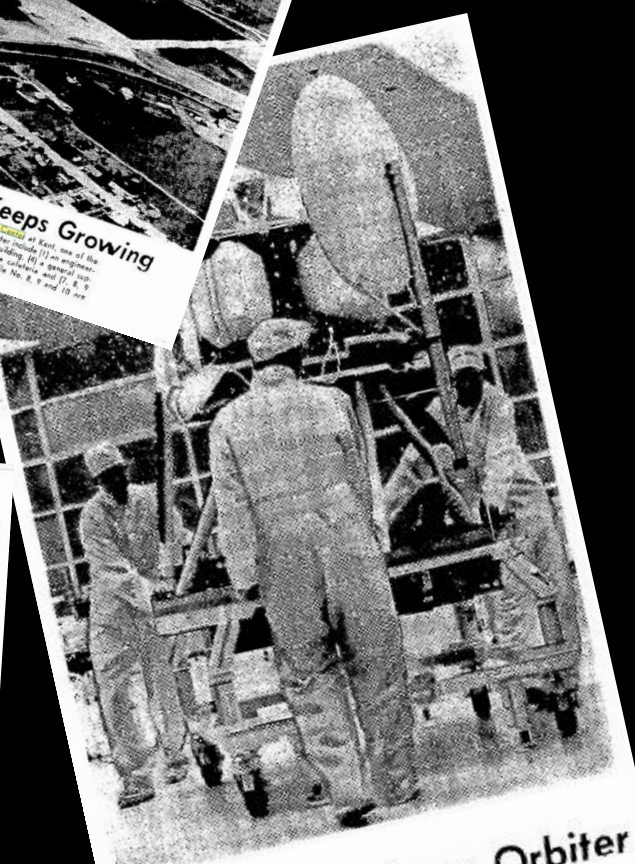
William M. Allen, Boeing president, said the center should greatly strengthen Boeing's "ability to meet the challenge of space."

"We are dedicating our company to the space effort," Allen added.

OTHER SPEAKERS included Senator Warren G. Magnuson, Gov. Dan J. Evans, Mayor Alex Thompson of Kent, County Commissioner Scott Wallace and Representative George P. Miller, chairman of the House Committee on Science and Astronautics.

The dedication was concluded with the hoisting of an American flag which flew over the United States Capitol August 1, when Gemini 5 was rocketed into orbit.

(Tremendous possibilities lie ahead in space, Webb says. Page 6.)



## Boeing Completes Orbiter

The first Lunar Orbiter spacecraft built to exact flight specifications was wheeled from a Boeing Co. "clean room" here. The craft, one of three to be used for ground tests, is complete except for its camera subsystem, which will be installed later. The Orbiter will be tested in a huge vacuum chamber at the Boeing Space Center in Kent to see how it will operate in a space environment. Boeing is building eight Orbiters for the National Aeronautics and Space Administration. One will be hurled from Cape Kennedy, Fla. to help close-up the astronomical

Boeing News  
March 11, 1965

The Seattle Times  
**HOME FURNISHINGS SHOW SECTION**  
New ideas for the home...





18-43  
Still Standing as of 2019

18-41  
Still Standing as of 2019

18-24

18-54  
Still Standing as of 2019

18-23

18-26  
Still Standing as of 2019

18-22

Boeing Space Center, 1970s. Building 18-23, where LRV fabrication, manufacturing, and assembly occurred, is located in the left foreground. Building 18-24, where the LRV was tested, is located in the middle of the photo. Courtesy: The Boeing Company, Corporate Archives. Bellevue, WA.

# NASA receives first Lunar Rover Vehicle

The Boeing-built Lunar Roving Vehicle, which will be the first machine to transport men on the moon's surface, is at Cape Kennedy being readied for space flight. The moon buggy was flown to Florida Monday following a symbolic delivery to the National Aeronautics and Space Administration last week at the Boeing Space Center.

At Cape Kennedy the rover will undergo final checkout and processing before being loaded aboard the huge Saturn V rocket which will send it to the moon with the Apollo 15 astronauts in July.

The unique vehicle was accepted for NASA by Dr. Eberhard Rees, director of the Marshall Space Flight Center at a crowd of Boeing officials, technical people who had assembled the vehicle and guests. "You have reason to be proud.

"It took hard work, dedication and skill to make up the technical problems which arose during the early stages of the program." Noting that the LRV was ready two weeks ahead of scheduled delivery, he said, "This is quite an accomplishment, considering the early

"You of Boeing and your subcontractors are due much credit. Had you not made your schedule, the Apollo program planning would have been seriously upset."

Dr. Rees said the first LRV, and the two to follow, would make future Apollo missions many times more effective than past missions because of the astronauts' increased mobility.

Dr. Rees presented the rover's license plate, LRV-001 by O. C. Boileau, group vice president—aerospace. Boileau also paid tribute to the drive and leadership of the late George Stoner, senior vice president—operations, for his efforts in the program.

The ceremony was held in the shadow of the big space simulation chamber, where part of the LRV testing was done. Ceremonies were opened by H. J. McClellan, Space Division manager.

Addressing the engineers and technicians in attendance, McClellan said, "To the many of you who have not had a day off work since November, except for Christmas and New Year's, I want to say that I am very proud of your accomplishment."

The LRV is a 480-pound, four-wheeled vehicle that can carry two astronauts over the moon's rough surface at about eight miles an hour. It can climb slopes of up to 20 degrees, and can operate in the vacuum, deep cold and high heat found in space.

The craft has been built to



Initial LRV sported bright new license plate at ceremony where NASA accepted the moon buggy.

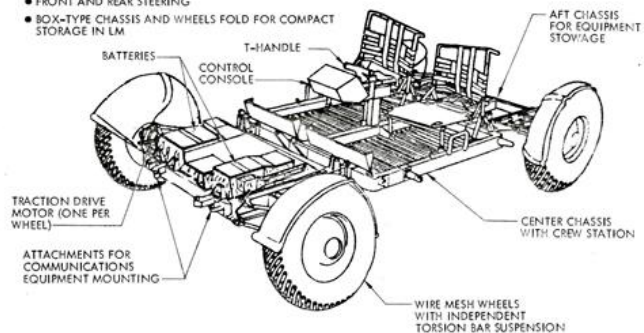
the exacting requirements of all Apollo program hardware, and has undergone a development qualification and acceptance test procedure to qualify it as a manned spacecraft.

Boeing News  
March 18,  
1971

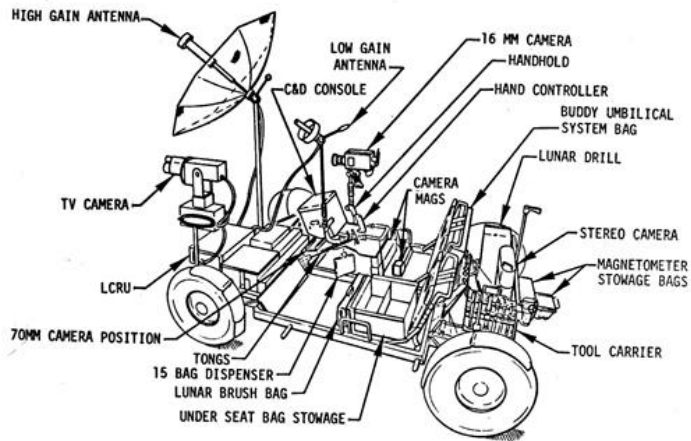


## LRV FLIGHT VEHICLE

- 4-WHEEL DRIVE, BATTERY ELECTRIC POWERED
- CREW OF TWO PLUS 170 LB SCIENCE EQUIPMENT
- SPEED 16 KM/HR; RANGE 70 KM
- VARIABLE SPEED, FORWARD AND REVERSE WITH BRAKING
- FRONT AND REAR STEERING
- BOX-TYPE CHASSIS AND WHEELS FOLD FOR COMPACT STORAGE IN LM

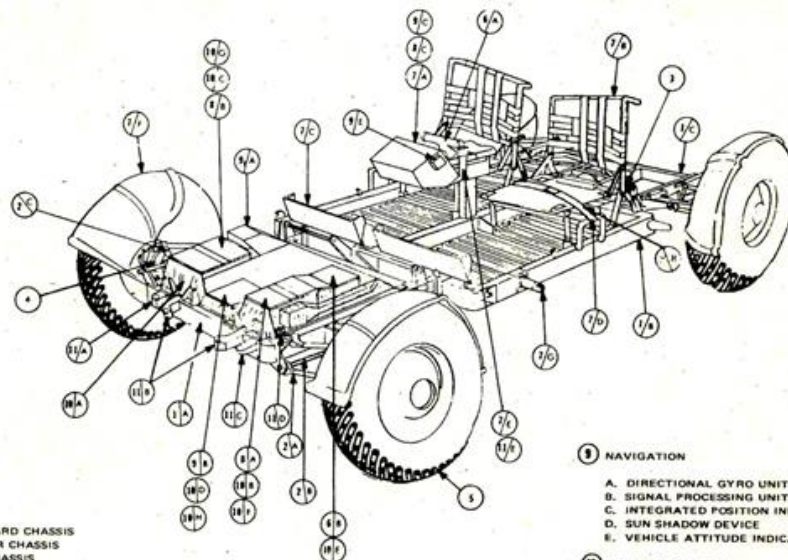


28-52267-3510



LRV STOWED PAYLOAD INSTALLATION

## Here's LRV Detail Drawing



### 1 CHASSIS

- A. FORWARD CHASSIS
- B. CENTER CHASSIS
- C. AFT CHASSIS

### 2 SUSPENSION SYSTEM

- A. SUSPENSION ARMS (UPPER AND LOWER)
- B. TORSION BARS (UPPER AND LOWER)
- C. DAMPER

### 3 STEERING SYSTEM (FORWARD AND AFT)

### 4 TRACTION DRIVE

### 5 WHEEL

### 6 DRIVE CONTROL

- A. HAND CONTROLLER
- B. DRIVE CONTROL ELECTRONICS (DCE)

### 7 CREW STATION

- A. CONTROL AND DISPLAY CONSOLE
- B. SEAT
- C. FOOTREST
- D. OUTBOARD HANDHOLD
- E. INBOARD HANDHOLD
- F. FENDER
- G. TOEHOLD
- H. SEAT BELT

### 8 POWER SYSTEM

- A. BATTERY NO. 1
- B. BATTERY NO. 2
- C. INSTRUMENTATION

### 9 NAVIGATION

- A. DIRECTIONAL GYRO UNIT (DGU)
- B. SIGNAL PROCESSING UNIT (SPU)
- C. INTEGRATED POSITION INDICATOR (IPI)
- D. SUN SHADOW DEVICE
- E. VEHICLE ATTITUDE INDICATOR

### 10 THERMAL CONTROL

- A. INSULATION BLANKET
- B. BATTERY NO. 1 DUST COVER
- C. BATTERY NO. 2 DUST COVER
- D. SPU DUST COVER
- E. DCE THERMAL CONTROL UNIT
- F. BATTERY NO. 1 RADIATOR
- G. BATTERY NO. 2 RADIATOR
- H. SPU THERMAL CONTROL UNIT

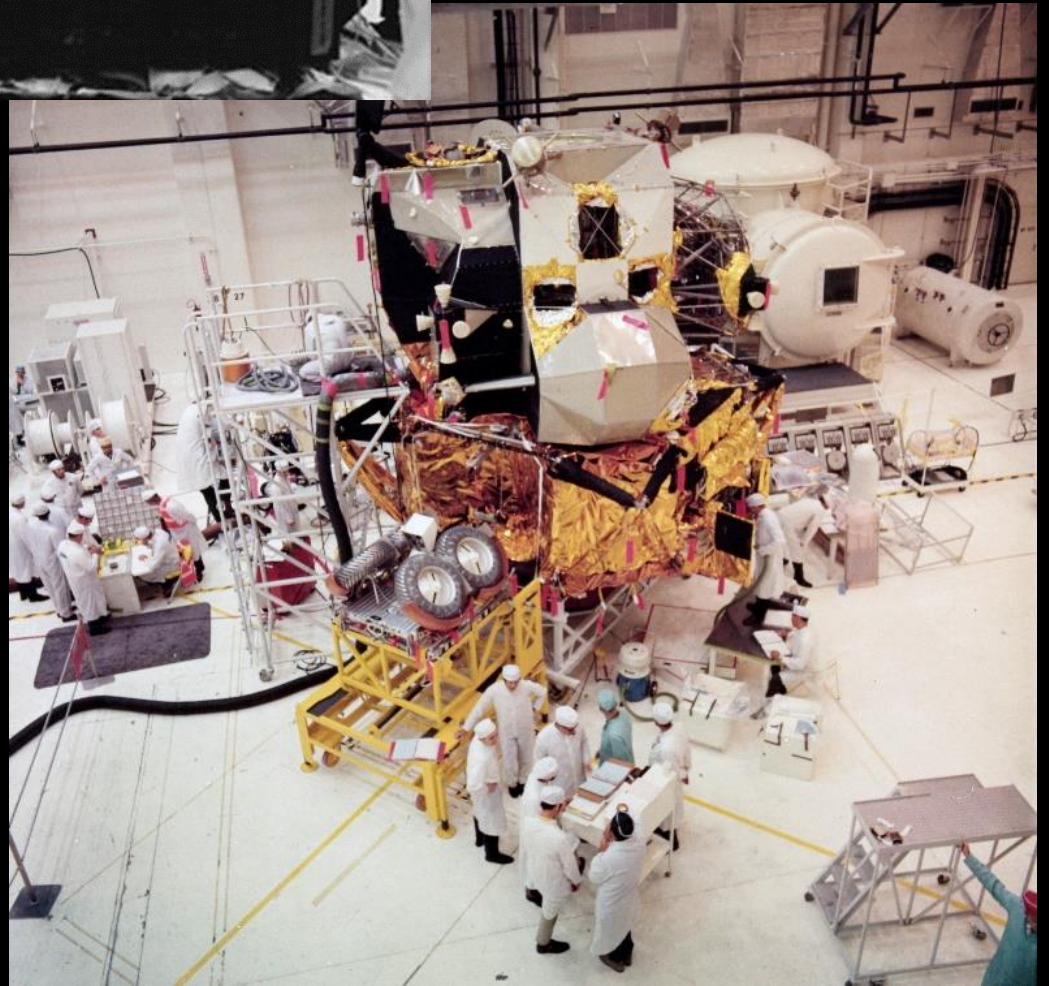
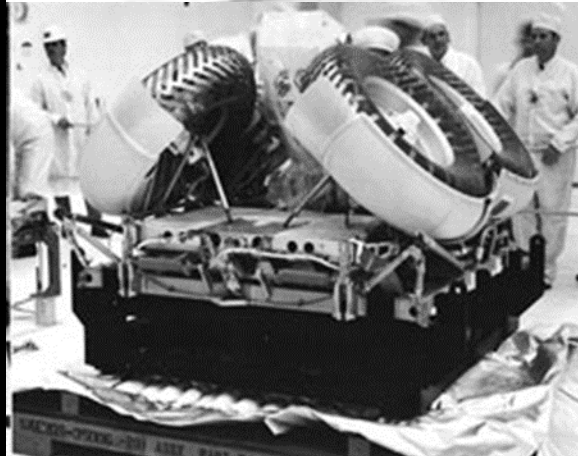
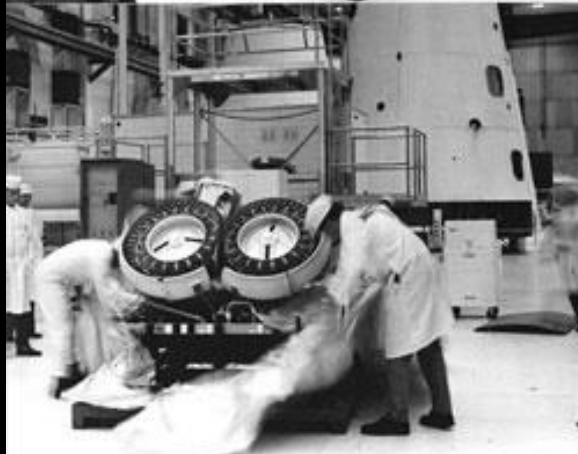
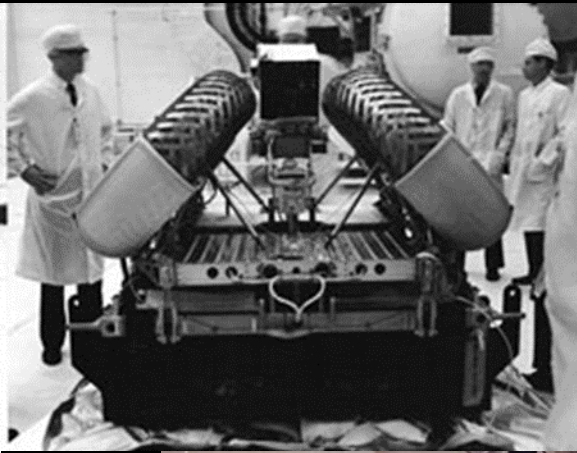
### 11 PAYLOAD INTERFACE

- A. TV CAMERA RECEPTACLE
- B. LCRU RECEPTACLE
- C. HIGH GAIN ANTENNA RECEPTACLE
- D. AUXILIARY CONNECTOR
- E. LOW GAIN ANTENNA RECEPTACLE

Moon shot enthusiasts may want to keep this call-out reproduction handy during the July 26-August 7 Apollo 15 launch when the Boeing-built Lunar Roving Vehicle gets its first opportunity to strut its

moon-stuff. The vehicle is scheduled to make three drives on the moon's surface, with the first scheduled for July 31.







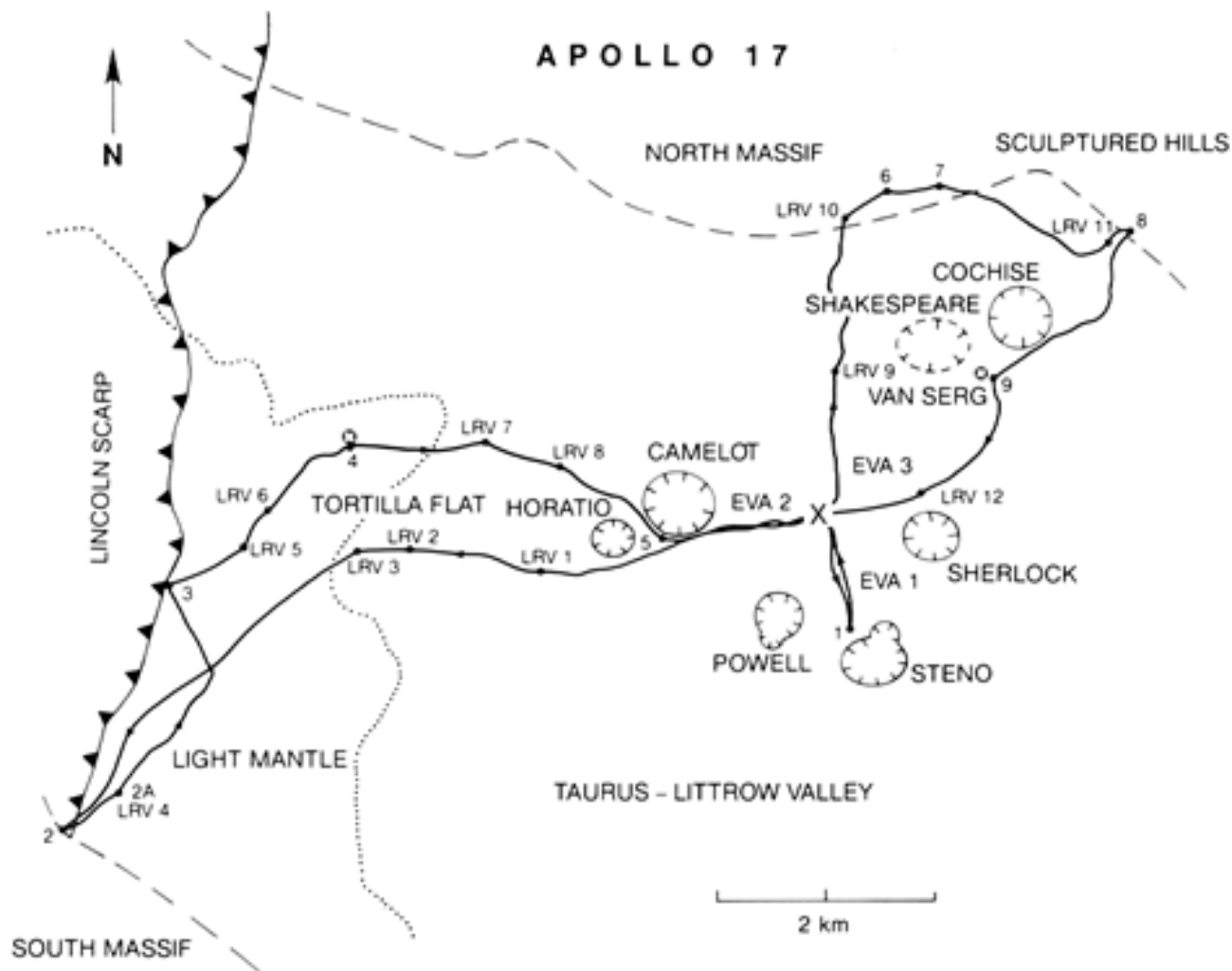


Apollo 16 astronaut John W. Young drives the LRV near the Descartes Highlands landing site on the mission's first EVA. This view is a frame from motion picture film camera held by astronaut Charles M.

Duke, Jr. NASA photograph S72-37002, taken Apr. 21, 1972. Digital image archived by NASA at: <https://spaceflight.nasa.gov/gallery/images/apollo/apollo16/html/s72-37002.html>

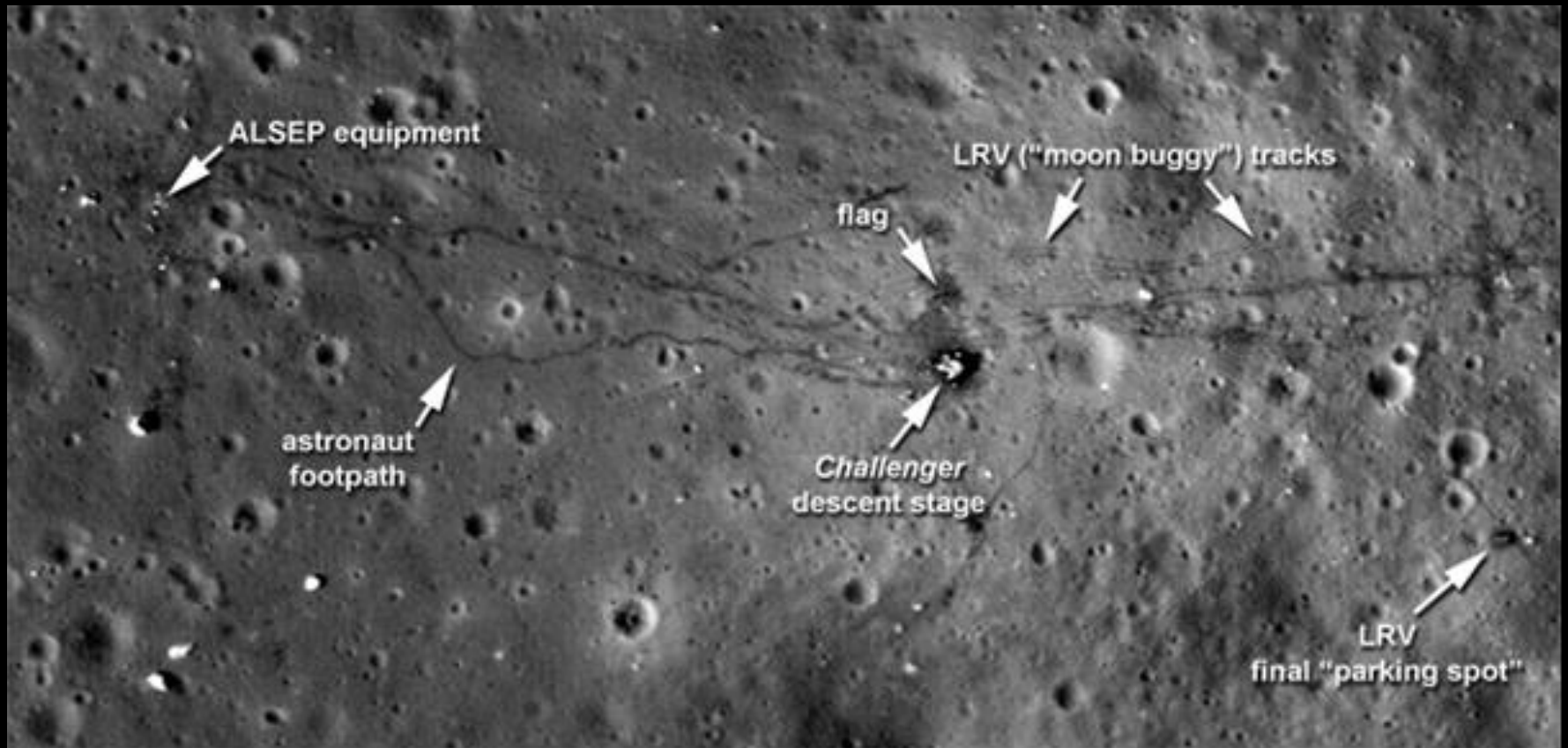






Apollo 17 Traverse Map. The X marks the location of the Challenger Lunar Module. The dark lines indicate the paths taken by the astronauts in the LRV during the three EVAs. The numbers reference scientific sampling stations. Source: James R. Zimelman, Lunar and Planetary Institute website: <https://www.lpi.usra.edu/publications/slidesets/apollolanding/>





Apollo 17 Lunar Site – 2011. The arrows point to the visible remnants of the mission and LRV tracks. This image was taken by the Lunar Reconnaissance Orbiter (LRO). Image Credit: NASA/GSFC/Arizona State University, M168000580R. This and other LRO imagery at: [http://www.lroc.asu.edu/featured\\_sites/#ApolloLandingSites](http://www.lroc.asu.edu/featured_sites/#ApolloLandingSites)

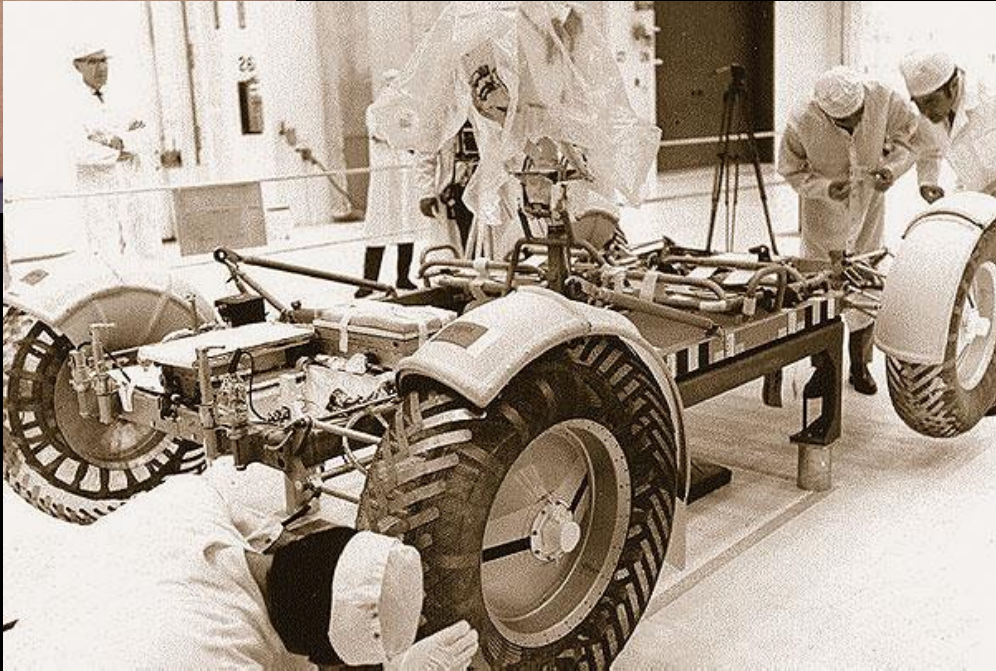
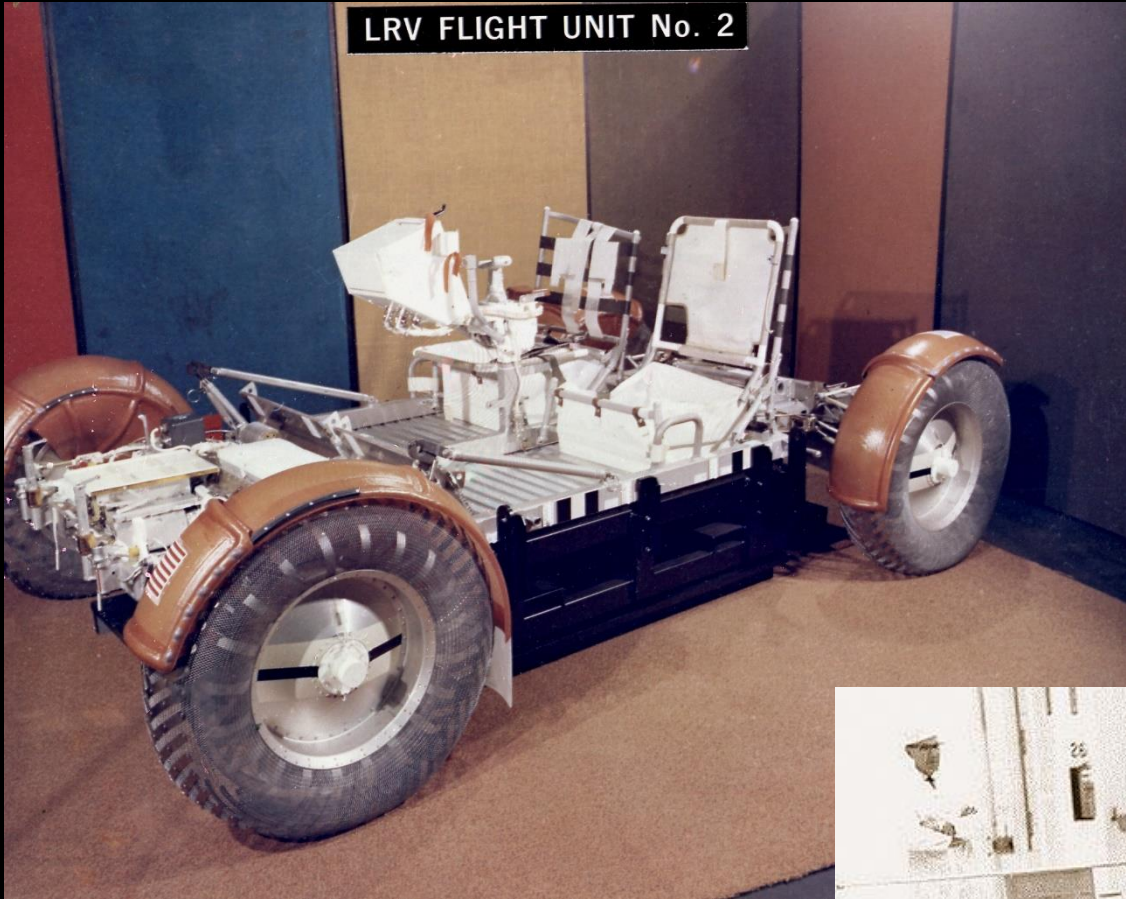




Apollo 17 Rover



LRV FLIGHT UNIT No. 2





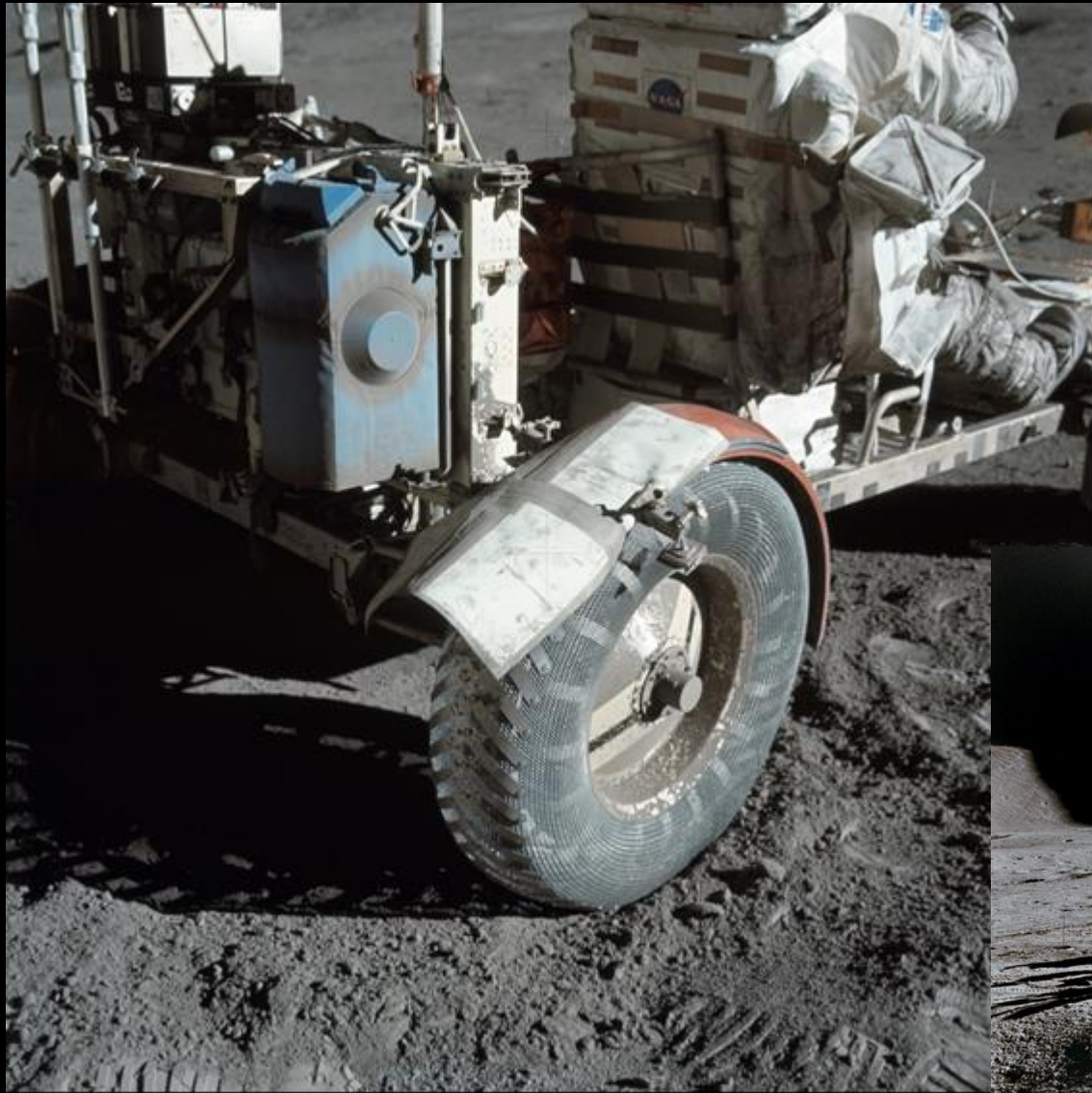




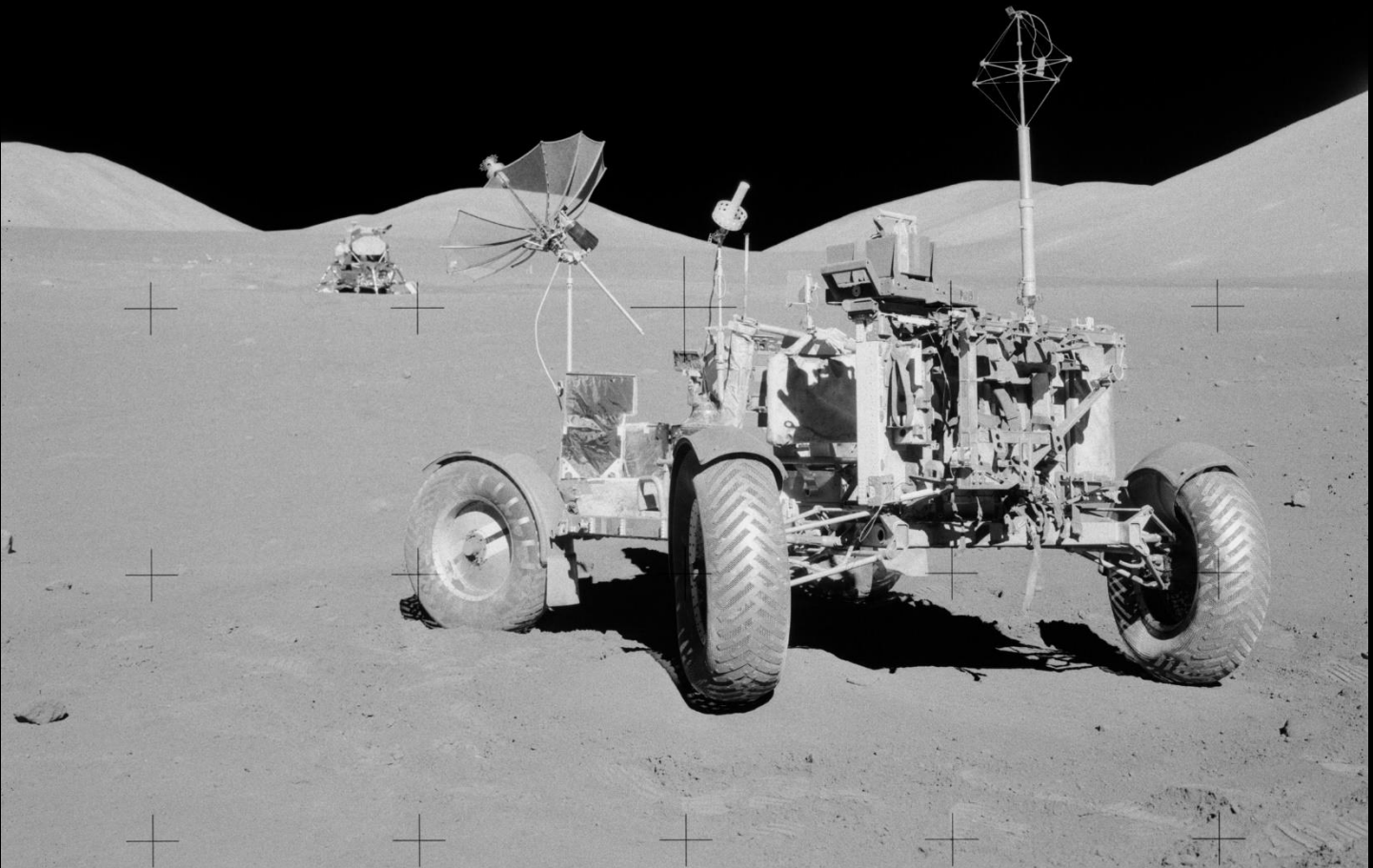
TABLE 4-IX.- LUNAR ROVING VEHICLE PERFORMANCE

Values	Apollo 15	Apollo 16	Apollo 17
Drive time, hr:min . . . . .	03:02	03:26	04:29
Surface distance traveled, km . . .	27.9	26.7	33.8
Extravehicular activity duration, hr:min . . . . .	<sup>a</sup> 18:35	20:14	22:04
Average speed, km/hr . . . . .	9.2	7.7	7.6
Energy rate, A-h/km (lunar roving vehicle only) . . . . .	1.9	2.1	1.64
Ampere-hours consumed (242 available) . . . . .	52.0	88.7	73.4
Navigation closure error, km . . . .	0.1	0	0
Number of navigation updates . . . .	1	0	0
<sup>b</sup> Maximum range from lunar module, km . . . . .	~4.4	~4.6	~7.3
Longest extravehicular activity traverse, km . . . . .	12.5	11.4	18.9

<sup>a</sup>Does not include standup extravehicular activity time of 33 minutes 7 seconds.

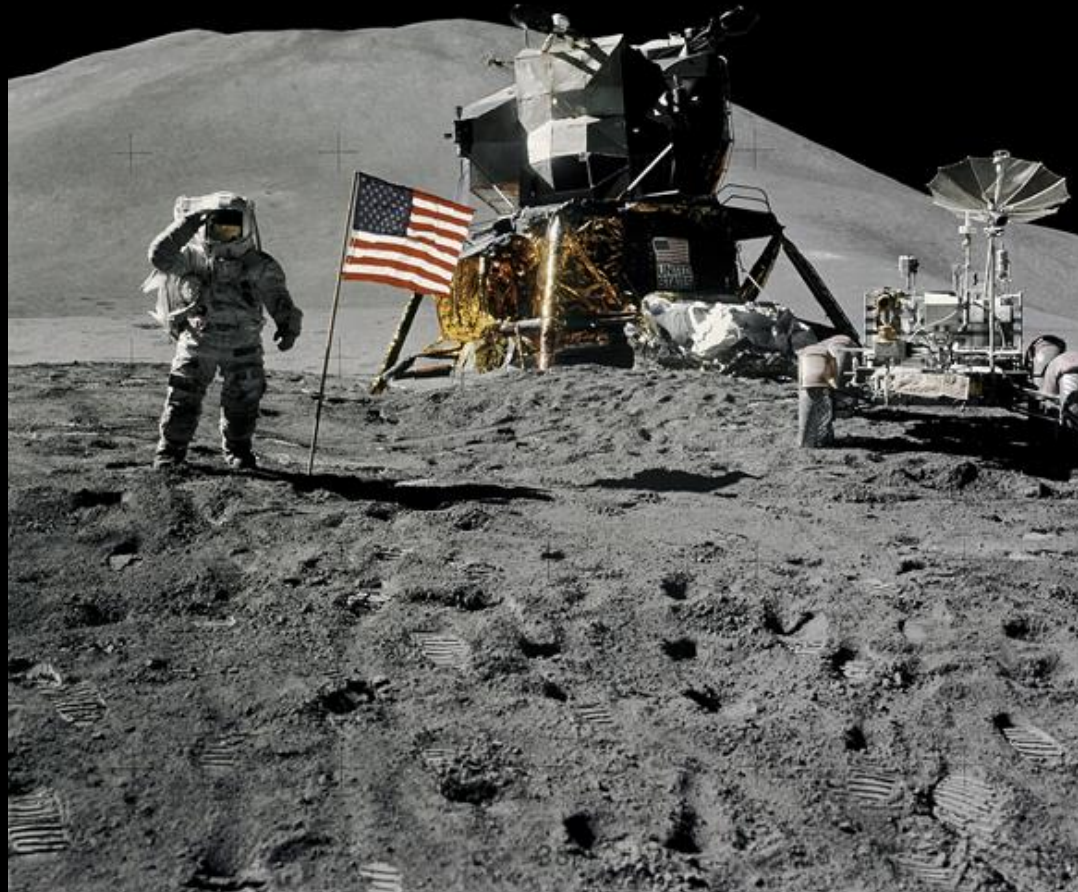
<sup>b</sup>Map distance measured radially.





Apollo 17 Rover final resting place





Apollo 15 astronaut James B. Irwin gives a military salute while standing beside the deployed United States flag during the mission's second EVA at the Hadley-Apennine landing site. The Falcon Lunar Module is in the center, and the LRV is to the right. Hadley Delta rises in the background. Astronaut David R. Scott took the photograph. NASA photograph AS15-88-11866, taken Aug. 1, 1971. Digital image archived by NASA at: <https://spaceflight.nasa.gov/gallery/images/apollo/apollo15/html/as15-88-11866.html>



Washington State  
**GOVERNOR'S  
ADVISORY COUNCIL  
ON HISTORIC  
PRESERVATION**

173rd Meeting – Olympia

